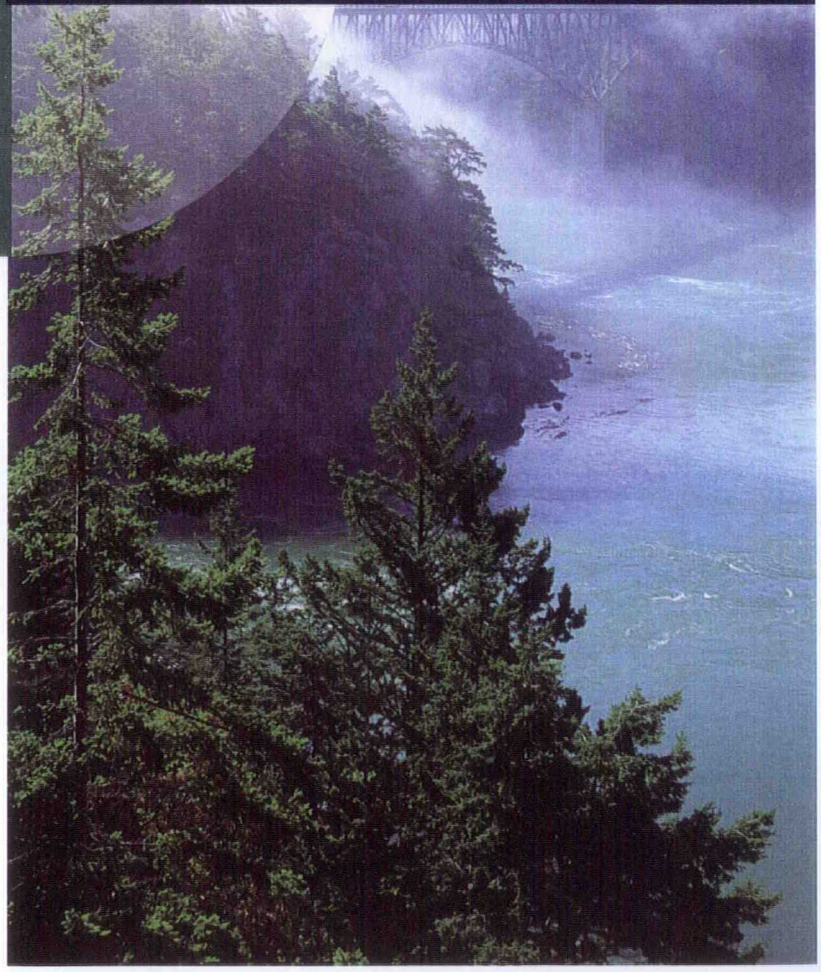
NSD 003 186 690

712

PRELIMINARY ASSESSMENT/ CURRENT CONDITIONS REPORT

VOLUME 2
Appendices G to O

Bell Environmental

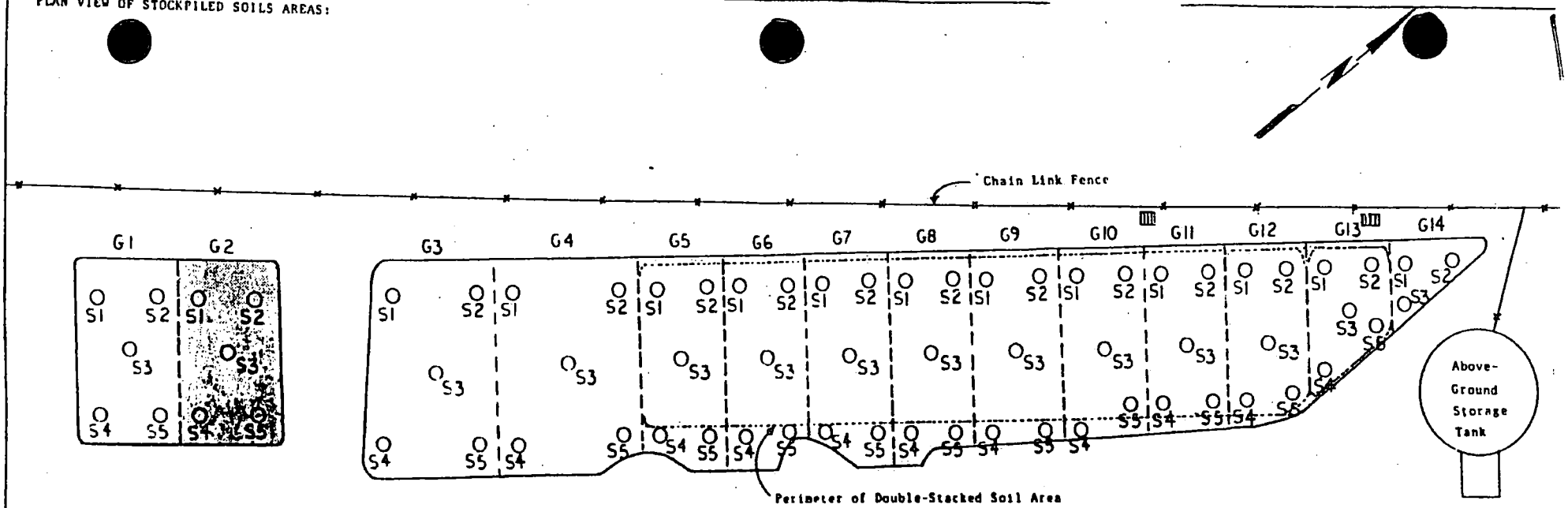


662318

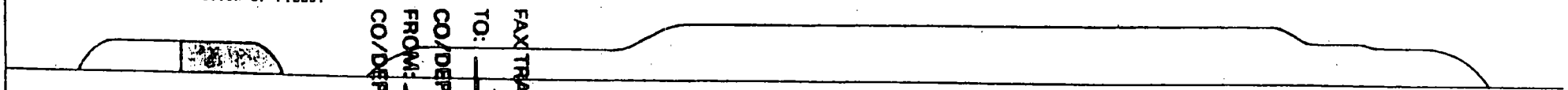
SAMPLING RESULTS OF EXCAVATED SOIL PILES

APPENDIX G1

PLAN VIEW OF STOCKPILED SOILS AREAS:



VERTICAL ELEVATION SECTION OF PILES:



FAX TRANSMITTAL

TO:

CO./DEPT.

FROM:

CO./DEPT.

OF PGS. 7

LEGEND

- Stockpiled Soils Meeting Criteria as Non-Hazardous Based on Test Results
- Stockpiled Soils Potentially Meeting Criteria as Hazardous Based on Test Results
- O S2 Typical Sample Points Within Grid Areas
- Catch Basin

GENERAL MOTORS CORPORATION
LINDEN ASSEMBLY PLANT

Stockpiled Soils Sampling Locations
(Approximately 2500 cubic yards)

KEY - TECH
400-E CORPORATE COURT
SOUTH PLAINFIELD, NEW JERSEY 07080

PROJECT NUMBER
92-25

SCALE
Horizontal 1" = 30'
Vertical 1" = 10"

DATE: May 12, 1992

SOIL SAMPLE LOCATIONS AND DEPTH BELOW EXISTING GRADE

GRID	SAMPLE NUMBER	SAMPLE DEPTH (ft)	OVA READING (ppm)
G-1	S-1	1.0	*
	S-2	1.0	1100
	S-3	1.0	900
	S-4	1.0	975
	S-5	1.0	300
G-2	S-1	1.0	300
	S-2	1.0	*
	S-3	1.0	*
	S-4	1.0	7
	S-5	1.0	80
G-3	S-1	1.0	2
	S-2	1.0	5
	S-3	1.0	25
	S-4	1.0	*
	S-5	1.0	*
G-4	S-1	1.0	*
	S-2	1.0	*
	S-3	1.0	*
	S-4	1.0	*
	S-5	1.0	2
G-5	S-1	1.0	*
	S-2	3.0	*
	S-3	2.0	*
	S-4	1.0	*
	S-5	1.0	*
G-6	S-1	1.0	*
	S-2	1.5	*
	S-3	5.0	*
	S-4	2.0	*
	S-5	1.5	*
G-7	S-1	5.0	*
	S-2	1.5	*
	S-3	5.0	*
	S-4	2.0	*
	S-5	2.0	*
G-8	S-1	2.0	*
	S-2	5.0	*
	S-3	5.0	*
	S-4	1.5	*
	S-5	1.5	*

GRID	SAMPLE NUMBER	SAMPLE DEPTH (ft)	OVA READING (ppm)
G-9	S-1	1.0	*
	S-2	5.0	20
	S-3	5.0	12
	S-4	2.0	30
	S-5	2.0	*
G-10	S-1	2.0	*
	S-2	2.0	*
	S-3	1.5	*
	S-4	5.0	*
	S-5	5.0	*
G-11	S-1	5.0	10
	S-2	5.0	400
	S-3	1.5	*
	S-4	2.0	10
	S-5	2.0	*
G-12	S-1	1.0	*
	S-2	1.5	*
	S-3	1.0	*
	S-4	1.0	*
	S-5	1.5	*
G-13	S-1	1.0	9
	S-2	1.0	*
	S-3	1.0	*
	S-4	1.0	*
	S-5	1.0	*
G-14	S-1	1.0	*
	S-2	1.0	*
	S-3	1.0	*

* Less than 1 ppm

SUMMARY OF LABORATORY ANALYTICAL RESULTS

Grid Composite Sample No.	TCLP Volatiles	TCLP Extractable Organics	TCLP Pesticides & Herbicides	TCLP Metals	Reactive Sulfide & Cyanide	TPHCs	Total PCBs
G-1	ND	ND	ND	1.2(Lead)[2]	ND	8140	ND
G-2	ND	ND	ND	29.1(Lead)[2]	ND	5320	0.17
G-3	ND	ND	ND	ND	ND	220	0.19
G-4	0.002(TCE)[1]	ND	ND	ND	ND	38	ND
G-5	0.001(TCE)[1]	ND	ND	ND	ND	1460	0.21
G-6	ND	ND	ND	ND	ND	2680	ND
G-7	ND	ND	ND	ND	ND	1910	ND
G-8	0.003(TCE)[1]	ND	ND	ND	ND	1330	ND
G-9	ND	ND	ND	ND	ND	3060	ND
G-10	ND	ND	ND	ND	ND	64	ND
G-11	ND	ND	ND	ND	ND	293	ND
G-12	ND	ND	ND	ND	ND	100	0.19
G-13	ND	ND	ND	ND	ND	ND	ND
G-14	ND	ND	ND	ND	ND	140	0.21

All TCLP results are in mg/1; all other results in mg/kg (dry weight)

ND = Compound Not Detected

TCE = Tetrachloroethylene

1. All other TCLP Volatiles were beneath applicable detection limits.

2. All other TCLP Metals were beneath applicable detection limits.

SUMMARY OF LABORATORY ANALYTICAL RESULTS

Grid Composite Sample No.	TCLP Volatiles	TCLP Extractable Organics	TCLP Pesticides & Herbicides	TCLP Metals	Reactive Sulfide & Cyanide	TPHCs	Total PCBs
G-15	0.001(TCE)[1]	ND	ND	0.55(Pb)[2]	ND	97	ND
G-16	ND	ND	ND	0.29(Pb)[2]	ND	76	ND
G-17	ND	ND	ND	0.00019(Hg)[2]	ND	72	ND
G-18	ND	ND	ND	0.00041(Hg)[2]	ND	60	ND
G-19	ND	ND	ND	ND	ND	37	ND
G-20	ND	ND	ND	2.2(Ba) 0.69(Pb)[2]	ND	43	ND
G-21	ND	ND	ND	2.6(Ba) 0.90(Pb)[2]	ND	83	ND
G-22	ND	ND	ND	ND	ND	59	ND
G-23	ND	ND	ND	0.028(Pb)[2]	ND	50	ND
G-24	ND	ND	ND	ND	ND	110	ND
G-25	ND	ND	ND	ND	ND	120	ND
G-26	ND	ND	ND	0.24(Pb)[2]	ND	120	ND
G-27	ND	ND	ND	0.90(Pb)[2]	ND	65	ND
G-28	ND	ND	ND	ND	ND	90	ND
G-29	ND	ND	ND	0.30(Pb)[2]	ND	ND	ND
G-30	ND	ND	ND	0.34(Pb)[2]	ND	51	ND
G-31	ND	ND	ND	ND	ND	49	ND
G-32	ND	ND	ND	ND	ND	65	ND
G-33	ND	ND	ND	0.00017(Hg)[2]	ND	61	ND
G-34	ND	ND	ND	ND	ND	74	ND
G-35	ND	ND	ND	ND	ND	68	ND
G-36	ND	ND	ND	ND	ND	110	ND
G-37	0.001(Trichloro-ethylene)[1]	ND	ND	ND	ND	67	ND

SUMMARY OF LABORATORY ANALYTICAL RESULTS

Grid Composite Sample No.	TCLP Volatiles	TCLP Extractable Organics	TCLP Pesticides & Herbicides	TCLP Metals	Reactive Sulfide & Cyanide	TPHCs	Total PCBs
G-38	ND	ND	ND	ND	ND	57	ND
G-39	0.002 (Carbon Tetr.)[1]	ND	ND	ND	ND	65	ND
G-40	ND	ND	ND	ND	ND	81	ND
G-41	ND	ND	ND	ND	ND	75	ND
G-42	ND	ND	ND	0.26 (Pb) 0.0019 (Hg)[2]	ND	140	ND
G-43	ND	ND	ND	ND	ND	77	ND
G-44	ND	ND	ND	0.30 (Pb)[2]	ND	73	ND
G-45	ND	ND	ND	ND	ND	95	ND
G-46	0.002 (TCE)[1]	ND	ND	ND	ND	63	ND
G-47	ND	ND	ND	ND	ND	57	ND
G-48	ND	ND	ND	0.43 (Pb) 0.0017 (Hg)[2]	ND	200	ND
G-49	0.002 (Carbon Tetr.)[1]	ND	ND	ND	ND	51	ND
G-50	ND	ND	ND	0.28 (Pb)[2]	ND	49	ND
G-51	ND	ND	ND	3.5 (Ba) 1.74 (Pb)[2]	ND	87	ND
G-52	ND	ND	ND	ND	ND	63	ND

All TCLP results are in mg/l; all other results in mg/kg (dry weight)

ND = Compound Not Detected

TCE = Tetrachloroethylene

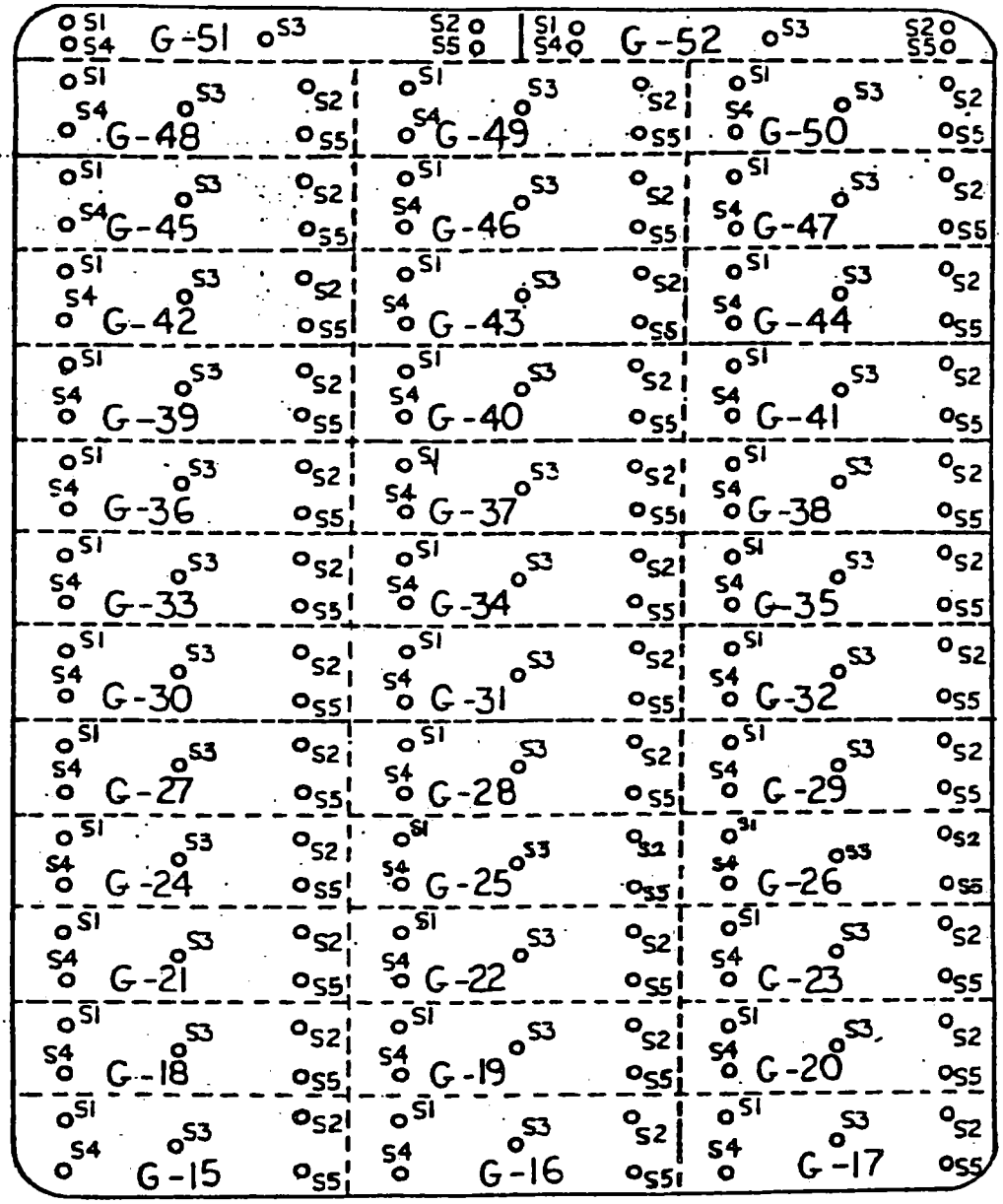
Ba = Barium

Hg = Mercury

Pb = Lead

1. All other TCLP Volatiles were beneath applicable detection limits.

2. All other TCLP Metals were beneath applicable detection limits.



LEGEND

o S2 — Typical Sample Points within Grid Areas

Catch Basin

GENERAL MOTORS CORPORATION
LINDEN ASSEMBLY PLANT

Stockpiled Soils Grid Areas and Sampling Locations
(Approximately 15000 cubic yards)

KEY - TECH
400-E CORPORATE COURT
SOUTH PLAINFIELD, NEW JERSEY 07080

PROJECT NUMBER
92-25

SCALE
1" = 30'

DATE: Aug. 7, 1992

SUMMARY OF LABORATORY ANALYTICAL RESULTS

Grid Composite Sample No.	TCLP Volatiles	TCLP Extractable Organics	TCLP Pesticides & Herbicides	TCLP Metals	Reactive Sulfide & Cyanide	TPHCs	Total PCBs
G-15	0.001(TCE)[1]	ND	ND	0.55(Pb)[2]	ND	97	ND
G-16	ND	ND	ND	0.29(Pb)[2]	ND	76	ND
G-17	ND	ND	ND	0.00019(Hg)[2]	ND	72	ND
G-18	ND	ND	ND	0.00041(Hg)[2]	ND	60	ND
G-19	ND	ND	ND	ND	ND	37	ND
G-20	ND	ND	ND	2.2(Ba) 0.69(Pb)[2]	ND	43	ND
G-21	ND	ND	ND	2.6(Ba) 0.90(Pb)[2]	ND	83	ND
G-22	ND	ND	ND	ND	ND	59	ND
G-23	ND	ND	ND	0.028(Pb)[2]	ND	50	ND
G-24	ND	ND	ND	ND	ND	110	ND
G-25	ND	ND	ND	ND	ND	120	ND
G-26	ND	ND	ND	0.24(Pb)[2]	ND	120	ND
G-27	ND	ND	ND	0.90(Pb)[2]	ND	65	ND
G-28	ND	ND	ND	ND	ND	90	ND
G-29	ND	ND	ND	0.30(Pb)[2]	ND	ND	ND
G-30	ND	ND	ND	0.34(Pb)[2]	ND	51	ND
G-31	ND	ND	ND	ND	ND	49	ND
G-32	ND	ND	ND	ND	ND	65	ND
G-33	ND	ND	ND	0.00017(Hg)[2]	ND	61	ND
G-34	ND	ND	ND	ND	ND	74	ND
G-35	ND	ND	ND	ND	ND	68	ND
G-36	ND	ND	ND	ND	ND	110	ND
G-37	0.001(Trichloro-ethylene)[1]	ND	ND	ND	ND	67	ND

SUMMARY OF LABORATORY ANALYTICAL RESULTS

Grid Composite Sample No.	TCLP Volatiles	TCLP Extractable Organics	TCLP Pesticides & Herbicides	TCLP Metals	Reactive Sulfide & Cyanide	TPHCs	Total PCBs
G-38	ND	ND	ND	ND	ND	57	ND
G-39	0.002 (Carbon Tetr.)[1]	ND	ND	ND	ND	65	ND
G-40	ND	ND	ND	ND	ND	81	ND
G-41	ND	ND	ND	ND	ND	75	ND
G-42	ND	ND	ND	0.26 (Pb) 0.0019 (Hg)[2]	ND	140	ND
G-43	ND	ND	ND	ND	ND	77	ND
G-44	ND	ND	ND	0.30 (Pb)[2]	ND	73	ND
G-45	ND	ND	ND	ND	ND	95	ND
G-46	0.002 (TCE)[1]	ND	ND	ND	ND	63	ND
G-47	ND	ND	ND	ND	ND	57	ND
G-48	ND	ND	ND	0.43 (Pb) 0.0017 (Hg)[2]	ND	200	ND
G-49	0.002 (Carbon Tetr.)[1]	ND	ND	ND	ND	51	ND
G-50	ND	ND	ND	0.28 (Pb)[2]	ND	49	ND
G-51	ND	ND	ND	3.5 (Ba) 1.74 (Pb)[2]	ND	87	ND
G-52	ND	ND	ND	ND	ND	63	ND

All TCLP results are in mg/l; all other results in mg/kg (dry weight)

ND = Compound Not Detected

TCE = Tetrachloroethylene

Ba = Barium

Hg = Mercury

Pb = Lead

1. All other TCLP Volatiles were beneath applicable detection limits.

2. All other TCLP Metals were beneath applicable detection limits.

ACCREDITED LABORATORIES, INC.
20 PERSHING AVENUE
CARTERET, NEW JERSEY 07008
PHONE: (732) 541-2025 / (800) ALI-LABS

CHAIN OF CUSTODY FORM

PAGE 1 OF 1

CLIENT	Rebco Contracting	PROJECT	GM Plant
ADDRESS	P.O. Box 4238	CONTACT	Jeff Steele
CITY	Clifton	PHONE	973-472-6067
STATE	NJ ZIP 07012	FAX	973-472-2684

ALI SAMPLE #	FIELD ID	*C	**M	DATE / TIME SAMPLED	SAMPLE DESCRIPTION	ANALYSIS
0004787	#1	3	S	5-3-00	BACK-HALF LEFT FRONT	PPME VO, TCLP VO
0004788	#2	3	S		BACK-HALF LEFT BACK	" "
0004789	#3	3	S		BACK	" "
0004790	#4	3	S		BACK-HALF RIGHT BACK	" "
0004791	#5	3	S		BACK-HALF RIGHT FRONT	" "
0004792	#6	3	S		FRONT	" "
						PP w/o VO, Full TCLP w/o VO
0004793	#7 Comp	1	S	5-3-00		TOC, TPHC, Cr+6, Cr+3
						Ba, V
0004794	#8	1	S	5-3-00		Compaction, Gradation
						Void Volume

**M = MATRIX A=AQUEOUS S=SOIL G=SLUDGE P=POTABLE WATER O=OIL F=FILTER K=SOLID N=OTHER

*C = NO. CONTAINERS TURNAROUND: 5 Day (If Blank, Std. 3 weeks)

DELIVERABLES (circle one): STD REDUCED FULL NY-ASP CLP I CLP II

RELINQUISHED BY: PRINT	SIGN	RECEIVED BY: PRINT	SIGN	ORGANIZATION	DATE	TIME	REASON
K Roberts	Keith Robert	[illegible]	[illegible]	ALI	5/4/00	16:50	Analysis

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING, PRINT: K. Roberts SIGN: Keith Robert

COMMENTS: * Composite sample # 1 thru # 6 for #7 Composite sample
Color Tag 5°

ALI QUOTE #	
ALI CASE #	7976
PO #	

13. Certification of Sampler (if applicable)*

As an independent professional I certify that the samples obtained as described in 1 - 12 hereto were obtained in accordance with NJDEP sampling requirements (N.J.A.C. 7:26 E-2) and that sample collection has been performed in accordance with the Field Sampling Procedures Manual NJDEP, May 1992 except as noted in item ten above.

Keith Robert 5/3/00

Signature of Sampler

14. Certification of Source Owner

As owner of the above described recyclable material, I warrant that to the best of my knowledge the material is recyclable and consists only of those items described in item 5 above and has been sampled and analyzed in accordance with N.J.A.C. 7:26 E-2.1 and that sample collection has been performed in accordance with the Field Sampling Procedure Manual, NJDEP, May 1992 except as noted in item 10 above.

Signature of Owner

* not required for source separate masonry materials (brick, block, concrete and glass) or asphalt.

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Soil
SAMPLE NUMBER	0004787	DILUTION FACTOR	108
DATA FILE	>A5937	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#1	ANALYZED BY	ROBERT

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	3100	79016	Trichloroethene	U	620
107131	Acrylonitrile	U	3100	71432	Benzene	U	620
74873	Chloromethane	U	620	124481	Dibromochloromethane	U	620
74839	Bromoethane	U	620	79005	1,1,2-Trichloroethane	U	620
75014	Vinyl Chloride	U	620	10061026	trans-1,3-Dichloropropene	U	620
75003	Chloroethane	U	620	110758	2-Chloroethylvinylether	U	620
75092	Methylene Chloride	U	620	75252	Bromoform	U	620
67641	Acetone	U	620	108101	4-Methyl-2-pentanone	U	620
75694	Trichlorofluoromethane	U	620	127184	Tetrachloroethene	U	620
75354	1,1-Dichloroethene	U	620	79345	1,1,2,2-Tetrachloroethane	U	620
75343	1,1-Dichloroethane	U	620	108883	Toluene	540 J	620
156605	trans-1,2-Dichloroethene	U	620	108907	Chlorobenzene	U	620
67663	Chloroform	U	620	100414	Ethylbenzene	U	620
107062	1,2-Dichloroethane	U	620	100425	Styrene	U	620
71556	1,1,1-Trichloroethane	U	620	1330207	m,p-Xylene	U	1200
56235	Carbon Tetrachloride	U	620	95476	o-Xylene	U	620
75274	Bromodichloromethane	U	620	156592	cis-1,2-Dichloroethene	U	620
78875	1,2-Dichloropropane	U	620	630206	1,1,1,2-Tetrachloroethane	U	620
10061015	cis-1,3-Dichloropropene	U	620				

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	72 %	70-121	OK
Toluene-d8	82 %	81-117	OK
Bromofluorobenzene	80 %	74-121	OK

Percent solid of 86.7 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Soil
SAMPLE NUMBER	0004788	DILUTION FACTOR	106
DATA FILE	>A5938	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#2	ANALYZED BY	ROBERT

CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	3000
107131	Acrylonitrile	U	3000
74873	Chloromethane	U	590
74839	Bromomethane	U	590
75014	Vinyl Chloride	U	590
75003	Chloroethane	U	590
75092	Methylene Chloride	U	590
67641	Acetone	U	590
75694	Trichlorofluoromethane	U	590
75354	1,1-Dichloroethene	U	590
75343	1,1-Dichloroethane	U	590
156605	trans-1,2-Dichloroethene	U	590
67663	Chloroform	U	590
107062	1,2-Dichloroethane	U	590
71556	1,1,1-Trichloroethane	U	590
56235	Carbon Tetrachloride	U	590
75274	Bromodichloromethane	U	590
78875	1,2-Dichloropropane	U	590
10061015	cis-1,3-Dichloropropene	U	590
79016	Trichloroethene	U	590
71432	Benzene	U	590
124481	Dibromochloromethane	U	590
79005	1,1,2-Trichloroethane	U	590
10061026	trans-1,3-Dichloropropene	U	590
110758	2-Chloroethylvinylether	U	590
75252	Bromoform	U	590
108101	4-Methyl-2-pentanone	U	590
127184	Tetrachloroethene	U	590
79345	1,1,2,2-Tetrachloroethane	U	590
108883	Toluene	U	590
108907	Chlorobenzene	U	590
100414	Ethylbenzene	U	590
100425	Styrene	U	590
1330207	m,p-Xylene	U	1200
95476	o-Xylene	U	590
156592	cis-1,2-Dichloroethene	U	590
630206	1,1,1,2-Tetrachloroethane	U	590

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	74 %	70-121	OK
Toluene-d8	83 %	81-117	OK
Bromofluorobenzene	82 %	74-121	OK

Percent solid of 89.1 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
D - Indicates result is based on a dilution.
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Soil
SAMPLE NUMBER	0004789	DILUTION FACTOR	109
DATA FILE	>A5939	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#3	ANALYZED BY	ROBERT

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	3100	79016	Trichloroethene	U	620
107131	Acrylonitrile	U	3100	71432	Benzene	U	620
74873	Chloromethane	U	620	124481	Dibromochloromethane	U	620
74839	Bromomethane	U	620	79005	1,1,2-Trichloroethane	U	620
75014	Vinyl Chloride	U	620	10061026	trans-1,3-Dichloropropene	U	620
75003	Chloroethane	U	620	110758	2-Chloroethylvinylether	U	620
75092	Methylene Chloride	U	620	75252	Bromoform	U	620
67641	Acetone	U	620	108101	4-Methyl-2-pentanone	U	620
75694	Trichlorofluoromethane	U	620	127184	Tetrachloroethene	U	620
75354	1,1-Dichloroethene	U	620	79345	1,1,2,2-Tetrachloroethane	U	620
75343	1,1-Dichloroethane	U	620	108883	Toluene	U	620
156605	trans-1,2-Dichloroethene	U	620	108907	Chlorobenzene	U	620
67663	Chloroform	U	620	100414	Ethylbenzene	U	620
107062	1,2-Dichloroethane	U	620	100425	Styrene	U	620
71556	1,1,1-Trichloroethane	U	620	1330207	m,p-Xylene	U	1200
56235	Carbon Tetrachloride	U	620	95476	o-Xylene	U	620
75274	Bromodichloromethane	U	620	156592	cis-1,2-Dichloroethene	U	620
78875	1,2-Dichloropropane	U	620	630206	1,1,1,2-Tetrachloroethane	U	620
10061015	cis-1,3-Dichloropropene	U	620				

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	74 %	70-121	OK
Toluene-d8	84 %	81-117	OK
Bromofluorobenzene	82 %	74-121	OK

Percent solid of 88.0 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
D - Indicates result is based on a dilution.
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Soil
SAMPLE NUMBER	0004790	DILUTION FACTOR	98
DATA FILE	>05940	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#4	ANALYZED BY	ROBERT

CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	2900
107131	Acrylonitrile	U	2900
74873	Chloromethane	U	580
74839	Bromomethane	U	590
75014	Vinyl Chloride	U	580
75003	Chloroethane	U	580
75092	Methylene Chloride	U	580
67641	Acetone	U	580
75694	Trichlorofluoromethane	U	580
75354	1,1-Dichloroethene	U	580
75343	1,1-Dichloroethane	U	580
156605	trans-1,2-Dichloroethene	U	580
67663	Chloroform	U	580
107062	1,2-Dichloroethane	U	580
71556	1,1,1-Trichloroethane	U	580
56235	Carbon Tetrachloride	U	580
75274	Bromodichloromethane	U	580
78875	1,2-Dichloropropane	U	580
10061015	cis-1,3-Dichloropropene	U	580
79016	Trichloroethene	U	580
71432	Benzene	U	580
124481	Dibromochloromethane	U	580
79005	1,1,2-Trichloroethane	U	580
10061026	trans-1,3-Dichloropropene	U	580
110758	2-Chloroethylvinylether	U	580
75252	Bromoform	U	580
108101	4-Methyl-2-pentanone	U	580
127184	Tetrachloroethene	U	580
79345	1,1,2,2-Tetrachloroethene	U	580
108883	Toluene	U	580
108907	Chlorobenzene	U	580
100414	Ethylbenzene	230 J	580
100425	Styrene	U	580
1330207	m,p-Xylene	1000 J	1200
95476	o-Xylene	430 J	580
156592	cis-1,2-Dichloroethene	U	580
630206	1,1,1,2-Tetrachloroethane	U	580

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	73 %	70-121	OK
Toluene-d8	82 %	81-117	OK
Bromofluorobenzene	84 %	74-121	OK

Percent solid of 85.2 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
D - Indicates result is based on a dilution.
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Soil
SAMPLE NUMBER	0006791	DILUTION FACTOR	98
DATA FILE	>A5941	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#5	ANALYZED BY	ROBERT

CAS #	COMPOUND	UG/KG		MDL
107028	Acrolein	U		2800
107131	Acrylonitrile	U		2800
74873	Chloromethane	U		570
74839	Bromomethane	U		570
75014	Vinyl Chloride	U		570
75003	Chloroethane	U		570
75092	Methylene Chloride	570	B	570
67641	Acetone	U		570
75694	Trichlorofluoromethane	U		570
75354	1,1-Dichloroethene	U		570
75343	1,1-Dichloroethane	U		570
156605	trans-1,2-Dichloroethene	U		570
67663	Chloroform	U		570
107062	1,2-Dichloroethane	U		570
71556	1,1,1-Trichloroethane	U		570
56235	Carbon Tetrachloride	U		570
75274	Bromodichloromethane	U		570
78875	1,2-Dichloropropane	U		570
10061015	cis-1,3-Dichloropropene	U		570
79016	Trichloroethene	U		570
71432	Benzene	U		570
124481	Dibromochloromethane	U		570
79005	1,1,2-Trichloroethane	U		570
10061026	trans-1,3-Dichloropropene	U		570
110758	2-Chloroethylvinylether	U		570
75252	Bromoform	U		570
108101	4-Methyl-2-pentanone	U		570
127184	Tetrachloroethene	U		570
79345	1,1,2,2-Tetrachloroethane	U		570
108883	Toluene	U		570
108907	Chlorobenzene	U		570
100414	Ethylbenzene	U		570
100425	Styrene	U		570
1330207	m,p-Xylene	U		1100
95476	o-Xylene	U		570
156592	cis-1,2-Dichloroethene	U		570
630206	1,1,1,2-Tetrachloroethane	U		570

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	72 %	70-121	OK
Toluene-d8	81 %	81-117	OK
Bromofluorobenzene	82 %	74-121	OK

Percent solic of 86.4 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
D - Indicates result is based on a dilution.
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Soil
SAMPLE NUMBER	0004792	DILUTION FACTOR	109
DATA FILE	>A5942	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#6	ANALYZED BY	ROBERT

CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	3000
107131	Acrylonitrile	U	3000
74873	Chloromethane	U	610
74839	Bromomethane	U	610
75014	Vinyl Chloride	U	610
75003	Chloroethane	U	610
75092	Methylene Chloride	U	610
67641	Acetone	U	610
75694	Trichlorofluoromethane	1080	610
75354	1,1-Dichloroethene	U	610
75343	1,1-Dichloroethane	U	610
156605	trans-1,2-Dichloroethene	U	610
67663	Chloroform	U	610
107062	1,2-Dichloroethane	U	610
71556	1,1,1-Trichloroethane	U	610
56235	Carbon Tetrachloride	U	610
75274	Bromodichloromethane	U	610
78875	1,2-Dichloropropane	U	610
10061015	cis-1,3-Dichloropropene	U	610
79016	Trichloroethene	U	610
71432	Benzene	U	610
124481	Dibromochloromethane	U	610
79005	1,1,2-Trichloroethane	U	610
10061026	trans-1,3-Dichloropropene	U	610
110758	2-Chloroethylvinylether	U	610
75252	Bromoform	U	610
108101	4-Methyl-2-pentanone	U	610
127184	Tetrachloroethene	U	610
79345	1,1,2,2-Tetrachloroethane	U	610
108883	Toluene	U	610
108907	Chlorobenzene	U	610
100414	Ethylbenzene	U	610
100425	Styrene	U	610
1330207	m,p-Xylene	U	1200
95476	o-Xylene	U	610
156592	cis-1,2-Dichloroethene	U	610
630206	1,1,1,2-Tetrachloroethane	U	610

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	80 %	70-121	OK
Toluene-d8	87 %	81-117	OK
Bromofluorobenzene	91 %	74-121	OK

Percent solid of 90.0 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Clearup Criteria from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Leachate
SAMPLE NUMBER	0004787	DILUTION FACTOR	10
DATA FILE	>A5943	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#1	ANALYZED BY	ROBERT

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.050	0.5
78933	2-Butanone	U	.100	200.0
56235	Carbon Tetrachloride	U	.050	0.5
108907	Chlorobenzene	U	.050	100.0
67663	Chloroform	U	.050	6.0
75354	1,1-Dichloroethene	U	.050	0.7
107062	1,2-Dichloroethane	U	.050	0.5
127184	Tetrachloroethene	U	.050	0.7
79016	Trichloroethene	U	.050	0.5
75014	Vinyl Chloride	U	.100	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-c4	90 %	76 - 114	OK
Toluene-d8	99 %	86 - 110	OK
Bromofluorobenzene	96 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Leachate
SAMPLE NUMBER	0004788	DILUTION FACTOR	10
DATA FILE	>A5944	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#2	ANALYZED BY	ROBERT

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.050	0.5
78933	2-Butanone	U	.100	200.0
56235	Carbon Tetrachloride	U	.050	0.5
108907	Chlorobenzene	U	.050	100.0
67663	Chloroform	U	.050	6.0
75354	1,1-Dichloroethene	U	.050	0.7
107062	1,2-Dichloroethene	U	.050	0.5
127184	Tetrachloroethene	U	.050	0.7
79016	Trichloroethene	U	.050	0.5
75014	Vinyl Chloride	U	.100	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	88 %	76 - 114	OK
Toluene-d8	98 %	88 - 110	OK
Bromofluorobenzene	92 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Leachate
SAMPLE NUMBER	0004789	DILUTION FACTOR	10
DATA FILE	>A5945	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#3	ANALYZED BY	ROBERT

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.050	0.5
78933	2-Butanone	U	.100	200.0
56235	Carbon Tetrachloride	U	.050	0.5
108907	Chlorobenzene	U	.050	100.0
67663	Chloroform	U	.050	6.0
75354	1,1-Dichloroethene	U	.050	0.7
107062	1,2-Dichloroethane	U	.050	0.5
127184	Tetrachloroethene	U	.050	0.7
79016	Trichloroethene	U	.050	0.5
75014	Vinyl Chloride	U	.100	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	91 %	76 - 114	OK
Toluene-d8	98 %	88 - 110	OK
Bromofluorobenzene	98 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Leachate
SAMPLE NUMBER	0004790	DILUTION FACTOR	10
DATA FILE	>A5946	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#4	ANALYZED BY	ROBERT

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.050	0.5
78933	2-Butanone	U	.100	200.0
56235	Carbon Tetrachloride	U	.050	0.5
108907	Chlorobenzene	U	.050	100.0
67663	Chloroform	U	.050	6.0
75354	1,1-Dichloroethene	U	.050	0.7
107062	1,2-Dichloroethane	U	.050	0.5
127184	Tetrachloroethene	U	.050	0.7
79016	Trichloroethene	U	.050	0.5
75014	Vinyl Chloride	U	.100	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	90 %	76 - 114	OK
Toluene-d8	99 %	88 - 110	OK
Bromofluorobenzene	97 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Leachate
SAMPLE NUMBER	0004791	DILUTION FACTOR	10
DATA FILE	>A5947	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#5	ANALYZED BY	ROBERT

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.050	0.5
78933	2-Butanone	U	.100	200.0
56235	Carbon Tetrachloride	U	.050	0.5
108907	Chlorobenzene	U	.050	100.0
67663	Chloroform	U	.050	6.0
75354	1,1-Dichloroethene	U	.050	0.7
107062	1,2-Dichloroethane	U	.050	0.5
127184	Tetrachloroethene	U	.050	0.7
79016	Trichloroethene	U	.050	0.5
75014	Vinyl Chloride	U	.100	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethene-d4	94 %	76 - 114	OK
Toluene-d8	100 %	88 - 110	OK
Bromofluorobenzene	101 %	96 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Leachate
SAMPLE NUMBER	0004792	DILUTION FACTOR	10
DATA FILE	>A5948	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#6	ANALYZED BY	ROBERT

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.050	0.5
78933	2-Butanone	U	.100	200.0
56235	Carbon Tetrachloride	U	.050	0.5
108907	Chlorobenzene	U	.050	100.0
67663	Chloroform	U	.050	6.0
75354	1,1-Dichloroethene	U	.050	0.7
107062	1,2-Dichloroethane	U	.050	0.5
127184	Tetrachloroethene	U	.050	0.7
79016	Trichloroethene	U	.050	0.5
75014	Vinyl Chloride	U	.100	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	91 %	76 - 114	OK
Toluene-d8	100 %	88 - 110	OK
Bromofluorobenzene	98 %	86 - 115	OK

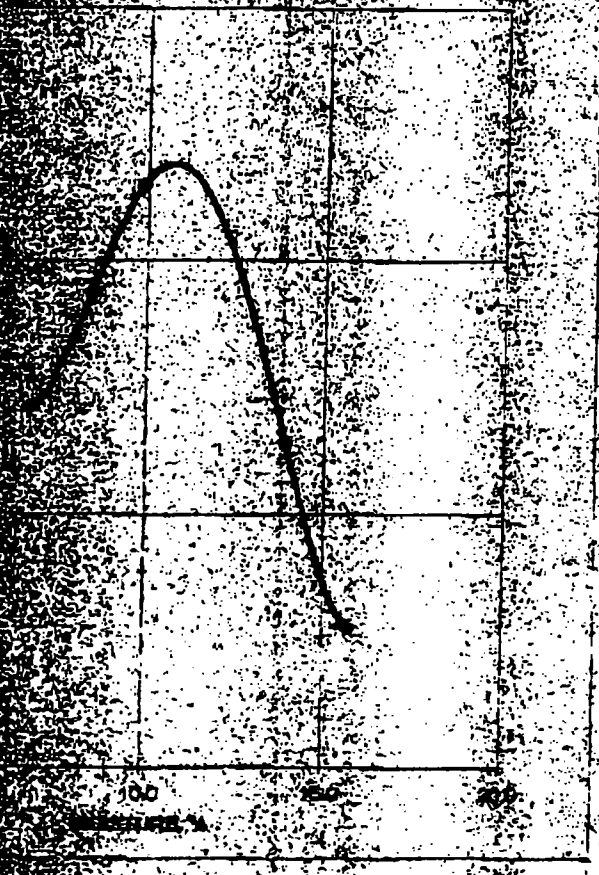
(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone = Methyl ethyl ketone

Report

DATE RECEIVED	5/09/2000
DATE REPORTED	5/09/2000

COMPACTION CURVE



DENSITY = PCF

MOISTURE = %

TWIN PEAKS, INC.

Report

DATA FILE	>AL18
DATE RECEIVED	5/05/2000
DATE ANALYZED	5/08/2000

[illegible]YSIS / GRADATION

[illegible]	PERCENT PASSING	JOB LIMITS
[illegible]	100	N/A
[illegible]	80.6	N/A
[illegible]	42.8	N/A
[illegible]	10.4	N/A

Note: [illegible]

ALEX SHAHNAZARIAN
Lab Manager

Accredited Laboratories, Inc.
Total Petroleum Hydrocarbon Analysis

Client: RC
Case #: 7976
Analyst: RB

Matrix: Soil
Date Received: 05/03/00
Date Analyzed: 05/04/00

Field #	Sample #	Amount Used (g)	% S	DF	ABS	Result mg/Kg	MDL mg/Kg
#7	0004793	15.00	85.8	1	6	64	47

Response Factor = .13725395

% S = Percent Solids
DF = Dilution Factor
ABS = Absorbance

Method Blank: < 20 mg/Kg

ACCREDITED LABORATORIES, INC.
GENERAL CHEMISTRY ANALYSIS DATA

Case #:	7976	Matrix:	Soil
Sample #:	0004793	Date Received:	05/03/00
Client Name:	RC	% Moisture:	14.2
Field Number:	#7		

ANALYTES	RESULTS	MDL	UNITS	DILUTION FACTOR	METHOD BLANK RESULTS	METHOD BLANK MDL	ANALYSIS DATE
Solids, Percent	85.8	0.10	%	1.			05/05/00
Cyanide, Total	ND	0.85	mg/Kg	1.	ND	0.01	05/06/00
Chromium, Trivalent	17.0		mg/Kg	1.			05/08/00
Chromium, Hexavalent	ND	2.33	mg/Kg	1.	ND	0.05	05/03/00
Carbon, Total Organic	6580.	205.	mg/Kg	1.	ND	100.	05/10/00

ACCREDITED LABORATORIES, INC.
REGULATED TCLP METALS
INORGANIC ANALYSIS DATA SHEET

Case #: 7976
Sample #: 0004793
Field ID: #7
Client Name: RC

Matrix: Leachate
Date Received: 05/03/00

CAS No.	Element	Result MG/L	MDL MG/L	Dilution Factor	Regulatory Level	Method	Date Analyzed
7440-38-2	Arsenic	ND	1.00	1	5.00	P	05/05/00
7440-39-3	Barium	3.28	.500	1	100.00	P	05/05/00
7440-43-9	Cadmium	ND	.100	1	1.00	P	05/05/00
7440-47-3	Chromium	ND	.100	1	5.00	P	05/05/00
7439-92-1	Lead	1.33	.500	1	5.00	P	05/05/00
7439-97-6	Mercury	ND	.002	2	.20	CV	05/04/00
7782-49-2	Selenium	ND	.500	1	1.00	P	05/05/00
7440-22-4	Silver	ND	.100	1	5.00	P	05/05/00

ND - Element analyzed for but not detected.
P - Analyzed by ICP
CV - Analyzed by Cold Vapor
F - Analyzed by GFA
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
INORGANIC ANALYSIS DATA SHEET

Case #: 7976
Sample #: 0004795
Field ID: #7
Client Name: RC

Matrix: Soil
Date Received: 05/03/00

CAS No.	Element	Result MG/KG	MDL MG/KG	Dilution Factor	Method	Date Analyzed
7440-36-0	Antimony	ND	7.42	1	P	05/08/00
7440-38-2	Arsenic	3.09	.742	2	F	05/09/00
7440-39-3	Barium	87.6	2.23	1	P	05/08/00
7440-41-7	Beryllium	1.27	.371	1	P	05/08/00
7440-43-9	Cadmium	3.36	.742	1	P	05/08/00
7440-47-3	Chromium	17.0	2.23	1	P	05/08/00
7440-50-8	Copper	18.3	2.23	1	P	05/08/00
7439-92-1	Lead	86.9	18.6	1	P	05/08/00
7439-97-6	Mercury	ND	.233	1	CV	05/05/00
7440-02-0	Nickel	19.2	2.97	1	P	05/08/00
7782-49-2	Selenium	ND	1.86	5	F	05/09/00
7440-22-4	Silver	1.02	.742	1	P	05/08/00
7440-28-0	Thallium	ND	1.86	5	F	05/09/00
7440-62-2	Vanadium	31.0	3.71	1	P	05/08/00
7440-66-6	Zinc	83.9	7.42	1	P	05/08/00

Percent Solid of 85.8 is used for all target elements

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC
PESTICIDE/PCB ORGANIC ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Soil
SAMPLE NUMBER	0004793	DILUTION FACTOR	1
DATA FILE	>05666	DATE EXTRACTED	05/08/00
CLIENT NAME	RC	DATE ANALYZED	05/09/00
FIELD ID	#7	ANALYZED BY	CLIFF

CAS#	COMPOUND	UG/KG	MDL
319846	A-BHC	U	.777
319857	B-BHC	U	.777
58899	G-BHC (Lindane)	U	.777
319868	D-BHC	U	.777
76448	Heptachlor	3.34	.777
309002	Aldrin	U	.777
1024573	Heptachlor Epoxide	U	.777
959988	Endosulfan I	U	.777
5103719	A-Chlordane	6.88	.777
5103742	G-Chlordane	5.55	.777
60571	Dieldrin	4.22	1.55
72559	4,4'-DDE	64.1	1.55
72208	Endrin	U	1.55
33213659	Endosulfan II	U	1.55
72548	4,4'-DDD	41.1	1.55
7421934	Endrin Aldehyde	U	1.55
1031078	Endosulfan Sulfate	U	1.55
50293	4,4'-DDT	108	1.55
53494705	Endrin Ketone	U	1.55
72435	Methoxychlor	U	7.77
8001352	Toxaphene	U	38.9
12674112	Aroclor-1016	U	19.4
11104282	Aroclor-1221	U	19.4
11141165	Aroclor-1232	U	19.4
53469219	Aroclor-1242	U	19.4
12672296	Aroclor-1248	U	19.4
11097691	Aroclor-1254	1140	19.4
11096825	Aroclor-1260	U	19.4

Percent Solid of 85.8 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC
TCLP HERBICIDE ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Leachate
SAMPLE NUMBER	0004793	DILUTION FACTOR	1
DATA FILE	>G5660	DATE EXTRACTED	05/08/00
CLIENT NAME	RC	DATE ANALYZED	05/08/00
FIELD ID	#7	ANALYZED BY	JEFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
94757	2,4'-D	U	.100	10.0
93721	SILVEX	U	.010	1.0

U - Indicates compound was analyzed for but not detected

ACCREDITED LABORATORIES, INC.
TCLP PESTICIDES ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Leachate
SAMPLE NUMBER	C004793	DILUTION FACTOR	50
DATA FILE	>G5656	DATE EXTRACTED	05/08/00
CLIENT NAME	RC	DATE ANALYZED	05/08/00
FIELD ID	#7	ANALYZED BY	JEFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
58-89-9	G-BHC (Lindane)	U	.001	0.400
76-44-8	Heptachlor	U	.001	0.008
1024-57-3	Heptachlor Epoxide	U	.001	0.008
72-20-8	Endrin	U	.002	0.02
72-43-5	Methoxychlor	U	.010	10.0
5103-71-9	A-Chlordane	U	.001	0.03
5103-74-2	G-Chlordane	U	.001	0.03
8001-35-2	Toxaphene	U	.050	0.5

SURROGATE COMPOUNDS	RECOVERY	ADVISORY LIMITS	STATUS
DCB	75%	30 - 150	OK
Tetrachloro-m-xylene	74%	30 - 150	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

ACCREDITED LABORATORIES, INC.
TCLP SEMIVOLATILES ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Leachate
SAMPLE NUMBER	C004793	DILUTION FACTOR	10
DATA FILE	SB9611	DATE EXTRACTED	05/08/00
CLIENT NAME	RC	DATE ANALYZED	05/08/00
FIELD ID	#7	ANALYZED BY	JANICE

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
110861	Pyridine	U	10	5.0
106467	1,4-Dichlorobenzene	U	.10	7.5
95487	2-Methylphenol	U	.10	200.0
108394	3&4-Methylphenol	U	.10	200.0
67721	Hexachloroethane	U	10	3.0
989103	Nitrobenzene	U	.10	2.0
87683	Hexachlorobutadiene	U	.10	0.5
88062	2,4,6-Trichlorophenol	U	.10	2.0
9109104	2,4,5-Trichlorophenol	U	.50	400.0
121142	2,4-Dinitrotoluene	U	.10	0.13
118741	Hexachlorobenzene	U	.10	0.13
878610	Pentachlorophenol	U	.10	100.0

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
2-Fluorophenol	83 %	21 - 100	OK
Phenol-d5	57 %	10 - 94	OUT
Nitrobenzene-d5	65 %	35 - 114	OK
2-Fluorobiphenyl	67 %	43 - 116	OK
2,4,6-Tribromophenol	88 %	10 - 123	OK
Terphenyl-d14	68 %	33 - 141	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Methylphenol = o-cresol
* 3-Methylphenol = m-cresol
* 4-Methylphenol = p-cresol

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Soil
SAMPLE NUMBER	00047930I	DILUTION FACTOR	10
DATA FILE	>BP409	DATE EXTRACTED	05/05/00
CLIENT NAME	RC	DATE ANALYZED	05/08/00
FIELD ID	87	ANALYZED BY	JANICE

CAS #	COMPOUND	UG/KG		MDL	CAS #	COMPOUND	UG/KG		MDL
83329	Acenaphthene	4800	D	3900	51285	2,4-Dinitrophenol	U		3900
208968	Acenaphthylene	U		3900	121147	2,4-Dinitrotoluene	U		3900
120127	Anthracene	8200	D	3900	606202	2,6-Dinitrotoluene	U		3900
56553	Benzo(a)Anthracene	10000	D	3900	117840	Di-n-octyl phthalate	U		3900
50328	Benzo(a)Pyrene	8600	D	3900	206440	Fluoranthene	23000	D	3900
205992	Benzo(b)fluoranthene	9300	D	3900	86737	Fluorene	5900	D	3900
191242	Benzo(g,h,i)Perylene	4900	D	3900	118741	Hexachlorobenzene	U		3900
207089	Benzo(k)Fluoranthene	5900	D	3900	87683	Hexachlorobutadiene	U		3900
65850	Benzoic Acid	U		19000	77474	Hexachlorocyclopentadiene	U		3900
100516	Benzyl Alcohol	U		3900	67721	Hexachloroethane	U		3900
111444	bis(-2-Chloroethyl)Ether	U		3900	193395	Indeno(1,2,3-cd)Pyrene	4800	D	3900
108601	bis(2-Chloroisopropyl)ether	U		3900	78591	Isophorone	U		3900
117817	Bis(2-Ethylhexyl)Phthalate	U		3900	91576	2-Methylnaphthalene	3000	J D	3900
111911	bis(-2-Chloroethoxy)Methane	U		3900	95487	2-Methylphenol	U		3900
101553	4-Bromophenyl-phenylether	U		3900	108394	3&4-Methylphenol	U		3900
85687	Butylbenzylphthalate	U		3900	91203	Naphthalene	8800	D	3900
106478	4-Chloroaniline	U		3900	88744	2-Nitroaniline	U		3900
91587	2-Chloronaphthalene	U		3900	99092	3-Nitroaniline	U		3900
59507	4-Chloro-3-methylphenol	U		3900	100016	4-Nitroaniline	U		3900
95578	2-Chlorophenol	U		3900	98953	Nitrobenzene	U		3900
7005723	4-Chlorophenyl-phenylether	U		3900	88755	2-Nitrophenol	U		3900
218019	Chrysene	10000	D	3900	100027	4-Nitrophenol	U		3900
53703	Dibenzo(a,h)Anthracene	3000	J D	3900	62759	N-Nitrosodimethylamine	U		3900
132649	Dibenzofuran	3500	J D	3900	86306	N-Nitrosodiphenylamine	U		3900
95501	1,2-Dichlorobenzene	U		3900	621647	N-Nitroso-Di-n-propylamine	U		3900
541731	1,3-Dichlorobenzene	U		3900	87865	Pentachlorophenol	U		3900
106467	1,4-Dichlorobenzene	U		3900	85018	Phenanthrene	27000	D	3900
91941	3,3'-Dichlorobenzidine	U		3900	108952	Phenol	U		3900
120832	2,4-Dichlorophenol	U		3900	129000	Pyrene	18000	D	3900
84662	Diethylphthalate	U		3900	120821	1,2,4-Trichlorobenzene	U		3900
105679	2,4-Dimethylphenol	U		3900	95954	2,4,5-Trichlorophenol	U		3900
131113	Dimethyl Phthalate	U		3900	88062	2,4,6-Trichlorophenol	U		3900
84742	Di-n-Butylphthalate	500	J D	3900	92875	Benzidine	U		3900
534521	4,6-Dinitro-2-methylphenol	U		3900	122667	1,2-Diphenylhydrazine	U		3900

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	68 %	23-120	OK
2-Fluorobiphenyl	85 %	30-115	OK
Terphenyl-d14	81 %	18-137	OK
Phenol-d5	143 %	24-113	OUT
2-Fluorophenol	102 %	25-121	OK
2,4,6-Tribromophenol	98 %	19-122	OK

Percent solid of 95.8 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
B - Indicates compound found in associated blank.
E - Concentration exceeds highest calibration standard.

aa 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

ACCREDITED LABORATORIES, INC.
8NA ORGANIC ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Soil
SAMPLE NUMBER	0004793	DILUTION FACTOR	1.0
DATA FILE	>89406	DATE EXTRACTED	05/05/00
CLIENT NAME	RC	DATE ANALYZED	05/05/00
FIELD ID	#7	ANALYZED BY	JANICE

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
83329	Acenaphthene	3500	390	51285	2,4-Dinitrophenol	U	390
208968	Acenaphthylene	280 J	390	121142	2,4-Dinitrotoluene	U	390
120127	Anthracene	5100	390	606202	2,6-Dinitrotoluene	U	390
56553	Benzo(a)Anthracene	9400 E	390	117840	Di-n-octyl phthalate	U	390
50328	Benzo(a)Pyrene	6400 E	390	206440	Fluoranthene	12000 E	390
205992	Benzo(b)fluoranthene	9000 E	390	86737	Fluorene	3900	390
191242	Benzo(g,h,i)Perylene	1700	390	118741	Hexachlorobenzene	U	390
207089	Benzo(k)Fluoranthene	4500	390	87683	Hexachlorobutadiene	U	390
65850	Benzoic Acid	U	1900	77474	Hexachlorocyclopentadiene	U	390
100516	Benzyl Alcohol	U	390	67721	Hexachloroethane	U	390
111444	bis(-2-Chloroethyl)Ether	U	390	193395	Indeno(1,2,3-cd)Pyrene	1900	390
108601	bis(2-Chloroisopropyl)ether	U	390	78591	Isophorone	U	390
117817	Bis(2-Ethylhexyl)Phthalate	520	390	91576	2-Methylnaphthalene	2400	390
111911	bis(-2-Chloroethoxy)Methane	U	390	95487	2-Methylphenol	U	390
101553	4-Bromophenyl-phenylether	U	390	108394	3&4-Methylphenol	80 J	390
85687	Butylbenzylphthalate	220 J	390	91203	Naphthalene	5000	390
106478	4-Chloroaniline	U	390	88744	2-Nitroaniline	U	390
91587	2-Chloronaphthalene	U	390	99092	3-Nitroaniline	U	390
59507	4-Chloro-3-methylphenol	U	390	100016	4-Nitroaniline	U	390
95578	2-Chlorophenol	U	390	98953	Nitrobenzene	U	390
7005723	4-Chlorophenyl-phenylether	U	390	88755	2-Nitrophenol	U	390
218019	Chrysene	7100 E	390	100027	4-Nitrophenol	U	390
53703	Dibenzo(a,h)Anthracene	1200	390	62759	N-Nitrosodimethylamine	U	390
132649	Dibenzofuran	2600	390	86306	N-Nitrosodiphenylamine	U	390
95501	1,2-Dichlorobenzene	U	390	621647	N-Nitroso-Di-n-propylamine	U	390
541731	1,3-Dichlorobenzene	U	390	87865	Pentachlorophenol	U	390
106467	1,4-Dichlorobenzene	U	390	85018	Phenanthrene	15000 E	390
91941	3,3'-Dichlorobenzidine	U	390	108952	Phenol	U	390
120832	2,4-Dichlorophenol	U	390	129000	Pyrene	16000 E	390
84662	Diethylphthalate	U	390	120821	1,2,4-Trichlorobenzene	U	390
105679	2,4-Dimethylphenol	U	390	95954	2,4,5-Trichlorophenol	U	390
131113	Dimethyl Pathalate	U	390	88062	2,4,6-Trichlorophenol	U	390
84742	Di-n-Butylphthalate	550	390	92875	Benzidine	U	390
534521	4,6-Dinitro-2-methylphenol	U	390	122667	1,2-Diphenylhydrazine	U	390

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	62 %	23-120	OK
2-Fluorobiphenyl	81 %	30-115	OK
Terphenyl-d14	108 %	18-137	OK
Phenol-d5	107 %	24-113	OK
2-Fluorophenol	91 %	25-121	OK
2,4,6-Tribromophenol	78 %	19-122	OK

Percent solid of 85.6 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution
B - Indicates compound found in associated blank.
E - Concentration exceeds highest calibration standard.

** 3-Methylphenol and 4-Methylphenol can not be seperated by the method applied

ACCREDITED LABORATORIES, INC.
20 PERSHING AVENUE
CARTERET, NEW JERSEY 07008
PHONE (732) 541-2025 FAX (732) 541-1383

CHAIN OF CUSTODY FORM

STATE AGENCY NJ NY PA CT DE OTHER ____

CLIENT	REBCO CONTRACTING
ADDRESS	P.O. Box 4238
CITY	CLIFTON
STATE	NJ ZIP 07012

PROJECT	G.M. PLANT
CONTACT	JEFF STEELE
PHONE	
FAX	

ALI SAMPLE #	FIELD ID	#C	*M	DATE / TIME SAMPLED	SAMPLE DESCRIPTION	ANALYSIS
0014218	3-CTR	3	S	11/28/00	DIRT PILE	PPM8Vo, TCLP VOA
	1-LFT	1	S			
	2-LFT-CTR	1	S			
	4-CTR-RGT	1	S			
	5-RGHT	1	S			
0014219	6-Comp	2	S	11/28/0	Composite Dirt	Full TCLP w/o VO, PP w/o VO, Toc, TPHC, CR^6, CR^3, Ba, Va, Compaction GRADATION, VOID VOLUME

*M = MATRIX - A=AQUEOUS, S=SOIL, G=SLUDGE, P=POTABLE WATER, O=OIL, F=FILTER, K=SOLID, L=OTHER

#C = NO. CONTAINERS TURNAROUND: STD (If Blank, Std. 3 weeks)

DELIVERABLES (circle one) STD REDUCED FULL OTHER ____

RELINQUISHED BY: PRINT	SIGN	RECEIVED BY: PRINT	SIGN	ORGANIZATION	DATE	TIME	REASON
K. Roberts				ACE	12/1/00	1530	Analysis

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING. PRINT: K. Roberts SIGN:

COMMENTS	Composite 1-5 for 6-Comp
	Collin Temp 5°

ALI QUOTE#	
ALI CASE#	1169
P.O.#	

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	1169	MATRIX	Soil
SAMPLE NUMBER	0014216	DILUTION FACTOR	111
DATA FILE	:49347	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	12/07/00
FIELD ID	3-2TR	ANALYZED BY	ROBERT

CAS #	COMPOUND	UG/KG		MDL
107028	Acrolein	U		3300
107131	Acrylonitrile	U		3300
74873	Chloromethane	U		660
74839	Bromomethane	U		660
75014	Vinyl Chloride	U		660
75003	Chloroethane	U		660
75092	Methylene Chloride	789	B	660
67641	Acetone	U		660
75694	Trichlorofluoromethane	U		660
75354	1,1-Dichloroethene	U		660
75343	1,1-Dichloroethane	U		660
156605	trans-1,2-Dichloroethene	U		660
67663	Chloroform	U		660
107062	1,2-Dichloroethane	U		660
71556	1,1,1-Trichloroethane	U		660
56235	Carbon Tetrachloride	U		660
75274	Bromodichloromethane	U		660
78875	1,2-Dichloropropane	U		660
10061015	cis-1,3-Dichloropropene	U		660

CAS #	COMPOUND	UG/KG	MDL
79016	Trichloroethene	U	660
71432	Benzene	U	660
124481	Dibromochloromethane	U	660
79005	1,1,2-Trichloroethane	U	660
10061026	trans-1,3-Dichloropropene	U	660
110758	2-Chloroethylvinylether	U	660
75252	Bromoform	U	660
108101	4-Methyl-2-pentanone	U	660
127184	Tetrachloroethene	U	660
79345	1,1,2,2-Tetrachloroethane	U	660
108883	Toluene	U	660
108907	Chlorobenzene	U	660
100414	Ethylbenzene	U	660
100425	Styrene	U	660
1330207	m,p-Xylene	U	1300
95476	o-Xylene	U	660
156592	cis-1,2-Dichloroethene	U	660
630206	1,1,1,2-Tetrachloroethane	U	660

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	101 %	70-121	OK
Toluene-d8	91 %	81-117	OK
Bromofluorobenzene	94 %	74-121	OK

Percent solid of 83.8 is used for all target compounds

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER	1169	MATRIX	Leachate
SAMPLE NUMBER	0014218	DILUTION FACTOR	10
DATA FILE	>A9309	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	12/05/00
FIELD ID	3-CTR	ANALYZED BY	ROBERT

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.050	0.5
78933	2-Butanone	U	.100	200.0
56235	Carbon Tetrachloride	U	.050	0.5
108907	Chlorobenzene	U	.050	100.0
67663	Chloroform	U	.050	6.0
75354	1,1-Dichloroethene	U	.050	0.7
107062	1,2-Dichloroethane	U	.050	0.5
127184	Tetrachloroethene	U	.050	0.7
79016	Trichloroethene	U	.050	0.5
75014	Vinyl Chloride	U	.100	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	109 %	76 - 114	OK
Toluene-d8	104 %	88 - 110	OK
Bromofluorobenzene	113 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSIS DATA

CASE NUMBER	1169	MATRIX	Soil
SAMPLE NUMBER	0014219	DILUTION FACTOR	1.0
DATA FILE	>R1682	DATE EXTRACTED	11/29/00
CLIENT NAME	RC	DATE ANALYZED	12/08/00
FIELD ID	6-COMP	ANALYZED BY	JANICE

CAS #	COMPOUND	UG/KG		MDL
83329	Acenaphthene	160	J	400
208968	Acenaphthylene	U		400
120127	Anthracene	250	J	400
56553	Benzo(a)Anthracene	680		400
50328	Benzo(a)Pyrene	710	I	400
205992	Benzo(b)fluoranthene	820		400
191242	Benzo(g,h,i)Perylene	350	J	400
207089	Benzo(k)Fluoranthene	550		400
65850	Benzoic Acid	U		2000
100516	Benzyl Alcohol	U		400
111444	bis(-2-Chloroethyl)Ether	U		400
108601	bis(2-Chloroisopropyl)ether	U		400
117817	Bis(2-Ethylhexyl)Phthalate	U		400
111911	bis(-2-Chloroethoxy)Methane	U		400
101553	4-Bromophenyl-phenylether	U		400
85687	Butylbenzylphthalate	U		400
106478	4-Chloroaniline	U		400
91587	2-Chloronaphthalene	U		400
59507	4-Chloro-3-methylphenol	U		400
95578	2-Chlorophenol	U		400
7005723	4-Chlorophenyl-phenylether	U		400
218019	Chrysene	640		400
53703	Dibenzo(a,h)Anthracene	250	J	400
132649	Dibenzofuran	46	J	400
95501	1,2-Dichlorobenzene	U		400
541731	1,3-Dichlorobenzene	U		400
106467	1,4-Dichlorobenzene	U		400
91941	3,3'-Dichlorobenzidine	U		400
120832	2,4-Dichlorophenol	U		400
84662	Diethylphthalate	U		400
105679	2,4-Dimethylphenol	U		400
131113	Dimethyl Phthalate	U		400
84742	Di-n-Butylphthalate	U		400
534521	4,6-Dinitro-2-methylphenol	U		400

CAS #	COMPOUND	UG/KG	MDL
51285	2,4-Dinitrophenol	U	400
121142	2,4-Dinitrotoluene	U	400
606202	2,6-Dinitrotoluene	U	400
117840	Di-n-octyl phthalate	U	400
206440	Fluoranthene	1500	400
86737	Fluorene	130 J	400
118741	Hexachlorobenzene	U	400
87683	Hexachlorobutadiene	U	400
77474	Hexachlorocyclopentadiene	U	400
67721	Hexachloroethane	U	400
193395	Indeno(1,2,3-cd)Pyrene	420	400
78591	Isophorone	U	400
91576	2-Methylnaphthalene	U	400
95487	2-Methylphenol	U	400
108394	3&4-Methylphenol	U	400
91203	Naphthalene	U	400
88744	2-Nitroaniline	U	400
99092	3-Nitroaniline	U	400
100016	4-Nitroaniline	U	400
98953	Nitrobenzene	U	400
88755	2-Nitrophenol	U	400
100027	4-Nitrophenol	U	400
62759	N-Nitrosodimethylamine	U	400
86306	N-Nitrosodiphenylamine	U	400
621647	N-Nitroso-Di-n-propylamine	U	400
87865	Pentachlorophenol	U	400
85018	Phenanthrene	850	400
108952	Phenol	U	400
129000	Pyrene	930	400
120821	1,2,4-Trichlorobenzene	U	400
95954	2,4,5-Trichlorophenol	U	400
88062	2,4,6-Trichlorophenol	U	400
92875	Benzidine	U	400
122667	1,2-Diphenylhydrazine	U	400

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	65 %	23-120	OK
2-Fluorobiphenyl	68 %	30-115	OK
Terphenyl-d14	69 %	18-137	OK
Phenol-d5	83 %	24-113	OK
2-Fluorophenol	72 %	25-121	OK
2,4,6-Tribromophenol	83 %	19-122	OK

Percent solid of 83.8 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
I - Results exceed industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Concentration exceeds highest calibration standard.
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

ACCREDITED LABORATORIES, INC.
TCLP SEMIVOLATILES ANALYSIS DATA

CASE NUMBER	1169	MATRIX	Leachate
SAMPLE NUMBER	0014219	DILUTION FACTOR	10
DATA FILE	>F2666	DATE EXTRACTED	12/05/00
CLIENT NAME	RC	DATE ANALYZED	12/08/00
FIELD ID	6-COMP	ANALYZED BY	DANIEL

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
110861	Pyridine	U	.10	5.0
106467	1,4-Dichlorobenzene	U	.10	7.5
95478	2-Methylphenol	U	.10	200.0
108394	3&4-Methylphenol	U	.10	200.0
67721	Hexachloroethane	U	.10	3.0
989103	Nitrobenzene	U	.10	2.0
87683	Hexachlorobutadiene	U	.10	0.5
88062	2,4,6-Trichlorophenol	U	.10	2.0
9109104	2,4,5-Trichlorophenol	U	.50	400.0
121142	2,4-Dinitrotoluene	U	.10	0.13
118741	Hexachlorobenzene	U	.10	0.13
878610	Pentachlorophenol	U	.10	100.0

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
2-Fluorophenol	72 %	21 - 100	OK
Phenol-d5	70 %	10 - 94	OK
Nitrobenzene-d5	67 %	35 - 114	OK
2-Fluorobiphenyl	61 %	43 - 116	OK
2,4,6-Tribromophenol	90 %	10 - 123	OK
Terphenyl-d14	60 %	33 - 141	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Methylphenol = o-cresol
* 3-Methylphenol = m-cresol
* 4-Methylphenol = p-cresol

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied.

12/11/00 10:18 FAX 1 732 541 1580 ACCREDITED LABORATORIES

ACCREDITED LABORATORIES, INC
PESTICIDE/PCB ORGANIC ANALYSIS DATA

CASE NUMBER	1169	MATRIX	Soil
SAMPLE NUMBER	0014219	DILUTION FACTOR	1
DATA FILE	>G8227	DATE EXTRACTED	12/01/00
CLIENT NAME	RC	DATE ANALYZED	12/05/00
FIELD ID	6-COMP	ANALYZED BY	CLIFF

CAS#	COMPOUND	UG/KG	MDL
319846	A-BHC	U	.796
319857	B-BHC	U	.796
58899	G-BHC (Lindane)	U	.796
319868	D-BHC	U	.796
76448	Heptachlor	U	.796
309002	Aldrin	U	.796
1024573	Heptachlor Epoxide	U	.796
959988	Endosulfan I	U	.796
5103719	A-Chlordane	U	.796
5103742	G-Chlordane	U	.796
60571	Dieldrin	U	1.59
72559	4,4'-DDE	U	1.59
72208	Endrin	U	1.59
33213659	Endosulfan II	U	1.59
72548	4,4'-DDD	U	1.59
7421934	Endrin Aldehyde	U	1.59
1031078	Endosulfan Sulfate	U	1.59
50293	4,4'-DDT	U	1.59
53494705	Endrin Ketone	U	1.59
72435	Methoxychlor	U	7.96
8001352	Toxaphene	U	39.8
12674112	Aroclor-1016	U	19.9
11104282	Aroclor-1221	U	19.9
11141165	Aroclor-1232	U	19.9
53469219	Aroclor-1242	U	19.9
12672296	Aroclor-1248	U	19.9
11097691	Aroclor-1254	148	19.9
11096825	Aroclor-1260	U	19.9

Percent Solid of 83.8 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
TCLP PESTICIDES ANALYSIS DATA

CASE NUMBER	1169	MATRIX	Leachate
SAMPLE NUMBER	0014219	DILUTION FACTOR	50
DATA FILE	>G8243	DATE EXTRACTED	12/05/00
CLIENT NAME	RC	DATE ANALYZED	12/05/00
FIELD ID	6-COMP	ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
58-89-9	G-BHC (Lindane)	U	.001	0.400
76-44-8	Heptachlor	U	.001	0.008
1024-57-3	Heptachlor Epoxide	U	.001	0.008
72-20-8	Endrin	U	.002	0.02
72-43-5	Methoxychlor	U	.010	10.0
5103-71-9	A-Chlordane	U	.001	0.03
5103-74-2	G-Chlordane	U	.001	0.03
8001-35-2	Toxaphene	U	.050	0.5

SURROGATE COMPOUNDS	RECOVERY	ADVISORY LIMITS	STATUS
DCB	55%	30 - 150	OK
Tetrachloro-m-xylene	53%	30 - 150	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

ACCREDITED LABORATORIES, INC
TCLP HERBICIDE ANALYSIS DATA

CASE NUMBER	1169	MATRIX	Leachate
SAMPLE NUMBER	0014219	DILUTION FACTOR	1
DATA FILE	>A2789	DATE EXTRACTED	12/05/00
CLIENT NAME	RC	DATE ANALYZED	12/06/00
FIELD ID	6-COMP	ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
94757	2,4'-D	U	.100	10.0
93721	SILVEX	U	.010	1.0

U - Indicates compound was analyzed for but not detected

ACCREDITED LABORATORIES, INC.
INORGANIC ANALYSIS DATA SHEET

Case #: 1169
Sample #: 0014219
Field ID: 6-COMP
Client Name: RC

Matrix: Soil
Date Received: 11/28/00

CAS No.	Element	Result MG/KG	MDL MG/KG	Dilution Factor	Method	Date Analyzed
7440-36-0	Antimony	ND	7.60	1	P	11/30/00
7440-38-2	Arsenic	3.80	1.52	4	F	11/30/00
7440-39-3	Barium	66.2	2.28	1	P	11/30/00
7440-41-7	Beryllium	.859	.760	1	P	11/30/00
7440-43-9	Cadmium	1.50	.760	1	P	11/30/00
7440-47-3	Chromium	13.1	2.28	1	P	11/30/00
7440-50-8	Copper	13.1	2.28	1	P	11/30/00
7439-92-1	Lead	30.0	15.2	1	P	11/30/00
7439-97-6	Mercury	ND	.239	1	CV	11/30/00
7440-02-0	Nickel	13.0	3.80	1	P	11/30/00
7782-49-2	Selenium	ND	1.90	5	F	11/30/00
7440-22-4	Silver	ND	.760	1	P	11/30/00
7440-28-0	Thallium	ND	1.90	5	F	11/30/00
7440-62-2	Vanadium	19.9	3.80	1	P	11/30/00
7440-66-6	Zinc	40.6	7.60	1	P	11/30/00

Percent Solid of 83.8 is used for all target elements

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
REGULATED TCLP METALS
INORGANIC ANALYSIS DATA SHEET

Case #: 1169
Sample #: 0014219
Field ID: 6-COMP
Client Name: RC

Matrix: Leachate
Date Received: 11/28/00

CAS No.	Element	Result MG/L	MDL MG/L	Dilution Factor	Regulatory Level	Method	Date Analyzed
7440-38-2	Arsenic	ND	1.00	1	5.00	P	11/30/00
7440-39-3	Barium	.702	.500	1	100.00	P	11/30/00
7440-43-9	Cadmium	ND	.040	1	1.00	P	11/30/00
7440-47-3	Chromium	ND	.100	1	5.00	P	11/30/00
7439-92-1	Lead	ND	.500	1	5.00	P	11/30/00
7439-97-6	Mercury	ND	.002	2	.20	CV	11/30/00
7782-49-2	Selenium	ND	.400	1	1.00	P	11/30/00
7440-22-4	Silver	ND	.100	1	5.00	P	11/30/00

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
GENERAL CHEMISTRY ANALYSIS DATA

Case #: 1169
Sample #: 0014219
Client Name: RC
Field Number: 6-COMP

Matrix: Soil
Date Received: 11/28/00
% Moisture: 16.2

ANALYTES	RESULTS	MDL	UNITS	DILUTION FACTOR	METHOD BLANK RESULTS	METHOD BLANK MDL	ANALYSIS DATE
Solids, Percent	83.8	0.10	%	1.			11/30/00
Cyanide, Total	ND	1.13	mg/Kg	1.	ND	0.01	12/01/00
Chromium, Trivalent	13.1	2.28	mg/Kg	1.	ND	ND	11/30/00
Chromium, Hexavalent	ND	2.39	mg/Kg	1.	ND	0.05	11/29/00
Carbon, Total Organic	4990.	217.	mg/Kg	1.	ND	100.	11/28/00

Accredited Laboratories, Inc.
Total Petroleum Hydrocarbon Analysis

Client:	RC	Matrix:	Soil
Case #:	1169	Date Received:	11/28/00
Analyst:	RB	Date Analyzed:	11/28/00

Field #	Sample #	Amount Used (g)	% S	DF	ABS	Result mg/Kg	MDL mg/Kg
6-COMP	0014219	15.13	83.8	1	6	63	47

Response Factor = .13310669

% S = Percent Solids
DF = Dilution Factor
ABS = Absorbance

Method Blank: < 20 mg/Kg

TWIN PEAKS, INC.

P.O. Box 780830, Maspeth, NY 11378
(718) 482-1911 ■ Fax: (718) 482-7767

Report

CLIENT	ACCREDITED LABS
PROJECT	XAL-C-1169
FIELD ID	200014219

DATA FILE	>AL46
DATE RECEIVED	11/29/2000
DATE ANALYZED	12/04/2000

SIEVE ANALYSIS / GRADATION

SIEVE SIZE	PERCENT PASSING	JOB LIMITS
4 "	100	N/A
# 4	78.5	N/A
# 40	24.9	N/A
# 200[1]	11.4	N/A

Note: N/A-not available

ALEX SHAHNAZARIAN
Lab Manager

[1] Washing method ASTM D1140 was used

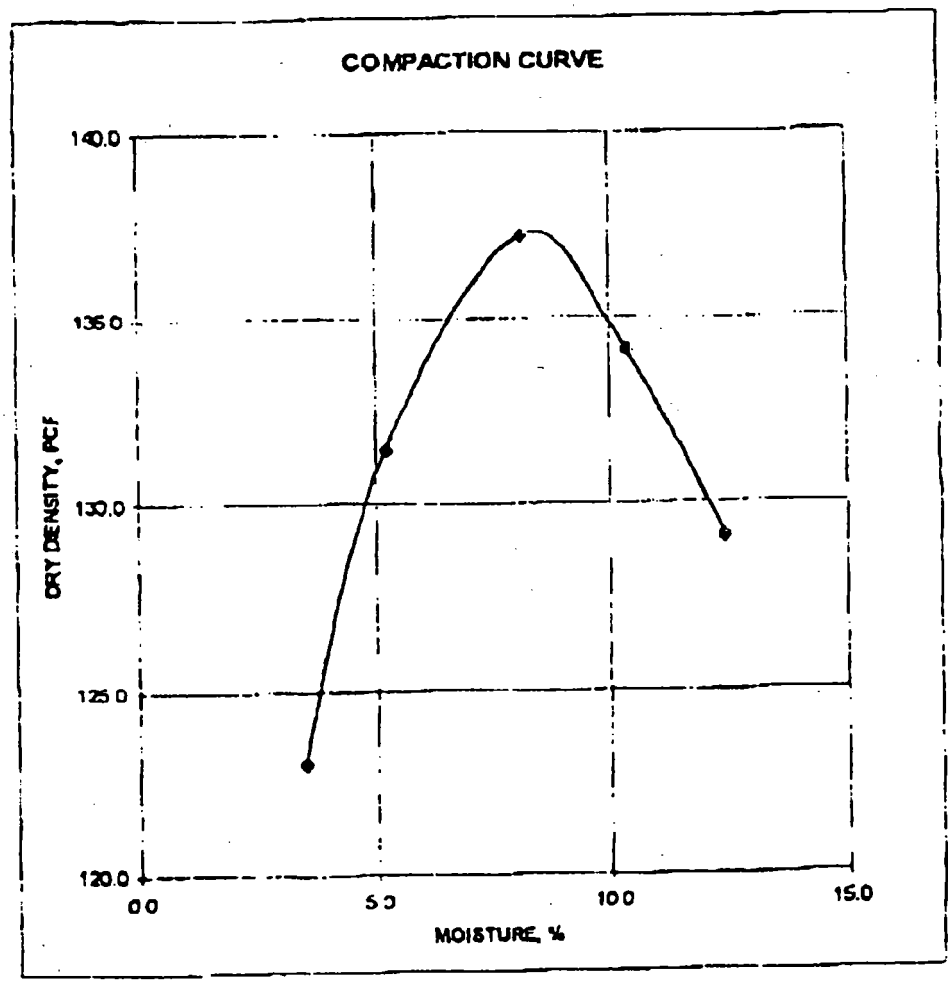
TWIN PEAKS, INC.

P.O. Box 789830, Maspeth, NY 11378
(718) 482-1911 ■ Fax (718) 482-7767

Report

CLIENT	ACCREDITED LABS
PROJECT	XAL-C-1169
FIELD ID	200014219

DATA FILE	>AL46
DATE RECEIVED	11/29/2000
DATE ANALYZED	12/04/2000



MAXIMUM DENSITY = 137.2 PCF
OPTIMUM MOISTURE = 8.5 %

ACCREDITED LABORATORIES, INC.
20 PERSHING AVENUE
CARTERET, NEW JERSEY 07008
PHONE (732) 541-2025 FAX (732) 541-1383

CHAIN OF CUSTODY FORM

STATE AGENCY NJ NY PA CT DE OTHER ____

CLIENT	REBCO CONTRACTING	PROJECT	G. M. PLANT
ADDRESS	P.O. BOX 4238	CONTACT	JEFF STEELE
CITY	CLIFTON	PHONE	
STATE	NJ ZIP 07012	FAX	

ALI SAMPLE #	FIELD ID	*C	**M	DATE / TIME SAMPLED	SAMPLE DESCRIPTION	ANALYSIS
0014218	3-CTR	3	S	11/28/00	DIRT PILE	PPMEVO, TCLPVOA
	1-LFT	1	S			
	2-LFT-CTR	1	S			
	4-CTR-RGT	1	S			
	5-RGHT	1	S			
0014219	6-Comp	2	S	11/28/00	COMPOSITED DIRT	FULL TCLP W/O VO,
						PP W/O VO,
						TOC, TPHC, CR^6, CR^3,
						Ba, Va,
						COMPACTION, GRADATION,
						VOID VOLUME

**M = MATRIX A=AQUEOUS S=SOIL G=SLUDGE P=POTABLE WATER O=OIL F=FILTER K=SOLID X=OTHER

*C = NO. CONTAINERS TURNAROUND: STD (If Blank, Std. 3 weeks)

DELIVERABLES (circle one) STD REDUCED FULL OTHER ____

RELINQUISHED BY: PRINT	SIGN	RECEIVED BY: PRINT	SIGN	ORGANIZATION	DATE	TIME	REASON
K Roberts	Kurt Robert	Jason Miller	[signature]	ACI	11/28/00	1530	Analysis

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: K. Roberts SIGN: Kurt Robert

COMMENTS	Composite 1-5 for 6-Comp	ALI QUOTE#	
		ALI CASE#	1169
	cooler Temp 5°	P.O.#	

ACCREDITED LABORATORIES

Implementing Tomorrows Technology, Today...

FAX MESSAGE

TO: J Steele

DATE: 12/11/00

COMPANY: Rebco Contract

PAGES: 15

FAX #: 973-472-2684

FROM:

Client Services

SUBJECT: Results - Case #1169

QUOTE #:

COMMENTS:

Accredited Laboratories, Inc.
620 Pershing Avenue
Carteret, NJ 07008-0368
(732) 541-2025

CLIENT SERVICES FAX #
(732) 541-0257

ACCREDITED LABORATORIES, INC.
Implementing Tomorrow's Technology, Today™....

Analytical Data Report

for

Rebco Contracting
P.o. Box 4238
Clifton, NJ 07012

Project: G. M. Plant

Accredited Laboratories Case No.: 1169
Date Received: 11/28/00

Field ID	Laboratory Sample #
3-CTR	200014218
6-COMP	200014219

Accredited Laboratories, Inc. New Jersey Certification Number 12007. This data has been reviewed and accepted by:

Theodore C. Gaydos
Technical Director

(732) 541-2025 *CORPORATE OFFICES* FAX (732) 541-1383
20 Pershing Avenue
Carteret, New Jersey 07008

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ACCREDITED LABORATORIES, INC.
20 PERSHING AVENUE
CARTERET, NEW JERSEY 07008
PHONE (732) 541-2025 FAX (732) 541-1383

CHAIN OF CUSTODY FORM

STATE AGENCY NJ NY PA CT DE OTHER

CLIENT	REBCO CONTRACTING	PROJECT	G. M. PLANT
ADDRESS	P.O. BOX 4238	CONTACT	JEFF STEELE
CITY	CLIFTON	PHONE	
STATE	NJ ZIP 07012	FAX	

ALI SAMPLE #	FIELD ID	*C	**M	DATE / TIME SAMPLED	SAMPLE DESCRIPTION	ANALYSIS
0014218	3-CTR	3	S	11/28/00	DIRT PILE	PPMEVO, TCLPVOA
	1-LFT	1	S			
	2-LFT-CTR	1	S			
	4-CTR-RGT	1	S			
	5-RGHT	1	S			
0014219	6-Comp	2	S	11/28/00	COMPOSITED DIRT	FULL TCLP W/O VO, PP W/O VO, TOC, TPHC, CR6, CR3, Ba, Va, COMPACTION, GRADATION, VOID VOLUME

**M = MATRIX A=AQUEOUS S=SOIL G=SLUDGE P=POTABLE WATER O=OIL F=FILTER K=SOLID X=OTHER

*C = NO. CONTAINERS TURNAROUND STD (If Blank, Std. 3 weeks)

DELIVERABLES (circle one) STD REDUCED FULL OTHER

RELINQUISHED BY: PRINT	SIGN	RECEIVED BY: PRINT	SIGN	ORGANIZATION	DATE	TIME	REASON
K Roberts	Kurt Robert	Jason [illegible]	[illegible]	ALI	11/28/00	1520	Analysis

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING. PRINT: K. Roberts SIGN: Kurt Robert

COMMENTS	Composite 1-5 for 6-comp
	cooler Temp 5°

ALI QUOTE#	
ALI CASE#	1169
P.O.#	

Appendix A

Recyclable Material
Certification and Approval Form
OENJ, Bayonne Site

Part I - Source Information

1. Name of Source Owner GM - Plant

2. Address of Source Linden, N.J.

3 Location of Recyclable Materials

Street Address Linden Ave
City/ State/ Zip Linden N.J.

4. Registration No. (if an approved materials recovery/recycling facility):

5. Type of Material Com - F. 11

6. Quantity of Material covered in this request 5,000 yards

7. Analytic Results submitted with this Request

Parameters	Tested Date	No. of Analyses	No. of samples (Composited)
PPVO	11-28-00	1	—
TCLPVO		1	—
Full TCLP w/o VO		1	5
Priority Pollutants w/o VO			
TOC, TPHC, Ba, V			
Compaction, Gradation			
Void Volume			

Appendix A (continued)

Part I (Cont.)

7(a) Raw Dredge Material

Parameters	Tested Date	No. of Analyses	No. of samples
	N/A		

7(b) Stabilized Dredge Material Product

Parameters	Tested Date	No. of Analyses	No. of samples
	N/A		

7(c) Extract of Stabilized Dredge Material

Parameters	Tested Date	No. of Analyses	No. of samples, (Composited)
		N/A	

Appendix A (continued)

Part I (Cont.)

8. Is the material considered to be a hazardous waste in accordance with N.J.A.C. 7:26-8.5?
   Yes_____ No__X__

9. Is the material from an area described in N.J.A.C. 7:26E-3.9 (a)-(c)?
   Yes_____ No__X__

10. Is the material from an area described in N.J.A.C. 7:26E 3.9(f)?
    Yes_____ No__X__

    If yes, describe the area _____

11. Were field or trip blanks used?
    Yes_____ No__X__

12. Geotechnical Analysis
    Describe Type of Analysis included:

Check as applicable	Laboratory Providing Analysis
(X) Gradation Analysis	_____
( ) Compaction Test for Optimum Density	_____
( ) Moisture Content	_____

	Before F/T	after F/T
OMC	_____	_____
5%> OMC	N/A	_____
5%< OMC	_____	_____

( ) Unconfined Compressive Strength _____

OMC	_____	
5%> OMC	N/A	
5%< OMC	_____	

( ) Consolidation _____

( ) Freeze/ Thaw Cycles _____

OMC	_____	
5%> OMC	N/A	
5%< OMC	_____	

Part I (Cont.) **Appendix A (continued)**

13. A. Name and Address of Independent Sampler (if applicable, not required for source Separate masonry materials (brick, block, concrete and glass) or asphalt)

X _____

_____

B. Credentials held by Independent Sampler (if applicable)

X _____

_____

14. Certification of Sampler (if applicable)*

As an independent professional I certify that the samples obtained as described in 1 - 12 herein were obtained in accordance with NJDEP sampling requirements (N.J.A.C. 7:26 E-2) and that sample collection has been performed in accordance with the Field Sampling Procedures Manual NJDEP, May 1992 except as noted in item ten above.

X Keith Rhett
Signature of Sampler

15. Certification of Source Owner

As owner of the above described recyclable material, I warrant that to the best of my knowledge the material is recyclable and consists only of those items described in item 5 above and has been sampled and analyzed in accordance with N.J.A.C. 7:26 E-2.1 and that sample collection has been performed in accordance with the Field Sampling Procedure Manual, NJDEP, May 1992 except as noted in item 10 above.

X _____
Signature of Owner

X _____
Owner's Name (Print in Full)

13. Certification of Sampler (if applicable)*

As an independent professional I certify that the samples obtained as described in 1 - 12 herein were obtained in accordance with NJDEP sampling requirements (N.J.A.C. 7:26 E-2) and that sample collection has been performed in accordance with the Field Sampling Procedures Manual NJDEP, May 1992 except as noted in item ten above.

Keith Robert 11/28/00

Signature of Sampler

14. Certification of Source Owner

As owner of the above described recyclable material, I warrant that to the best of my knowledge the material is recyclable and consists only of those items described in item 5 above and has been sampled and analyzed in accordance with N.J.A.C. 7:26 E-2.1 and that sample collection has been performed in accordance with the Field Sampling Procedure Manual, NJDEP, May 1992 except as noted in item 10 above.

Signature of Owner

* not required for source separate masonry materials (brick, block, concrete and glass) or asphalt.

METHODOLOGY SUMMARY

Volatile Organics - EPA 8260 (soil) - Methanol Preservation

A portion of methanol extract is spiked into a purging vessel and purged by an inert gas. The vapor is swept through a sorbent column where the purgeables are trapped. After purging is completed, the sorbent column is heated and back-flushed with the inert gas to desorb the purgeables onto a GC column. The GC is temperature programmed to separate the purgeables which are then detected with a mass spectrometer.

Base-Neutral/Acid Extractables - EPA 8270 (soil)

A 30 gram portion of soil is mixed with anhydrous sodium sulfate and is extracted with 1:1 methylene chloride and acetone. The methylene chloride extract is dried and concentrated and a measured amount is injected onto a GC and the analytes are detected with a mass spectrometer.

Pesticides/PCB's - EPA 8081/8082 (soil/solid)

A 30 gram portion of solid is mixed with anhydrous sodium sulfate and is extracted with 1:1 methylene chloride and acetone using sonication technique. The extract is separated from the sample by either centrifugation or filtration. The extract is then solvent-exchanged to hexane in a K-D concentrator to a final volume of 10 ml. The extract is injected into a gas chromatograph and the compounds in the GC effluent are detected by an electron capture detector.

Total Cyanide - SW 846, 9010 (solid)

A representative portion of sample is weighed and placed into a cyanide distillation apparatus. The cyanide as hydrocyanic acid is released from cyanide complexes by means of a reflux-distillation operation and absorbed in a scrubber containing sodium hydroxide solution. The cyanide ion in the absorbing solution is then determined colorimetrically according to EPA "Test Methods for Evaluating Solid Wastes", SW 846.

Chromium Hexavalent (solid)

*Extraction Procedure - SW846 2nd edition 3060, NJDEPE Modified
*Analytical Procedure - SW846 3rd edition 7196, NJDEPE Modified

The hexavalent chromium in the solid sample is extracted with hot, 3% sodium carbonate-2% sodium hydroxide solution. The concentration of hexavalent chromium in the extract, in the absence of interfering substances such as molybdenum, vanadium, and mercury is determined colorimetrically at 540 nm by reaction with diphenylcarbazide in acid solution.

Chromium, Trivalent

The concentration of trivalent chromium in the sample is determined from the difference between the total chromium in the sample and the hexavalent chromium in the sample.

Total Organic Carbon - Modified EPA 415.1 - Furnace Technique

A 1-2 gm of sample is combusted in a 900°C tube furnace. The combustion gas (CO2) is collected through the carbon train apparatus. The CO2 content is analyzed by the TOC analyzer.

Petroleum Hydrocarbons - Modified EPA 418.1 (soil)

A 30 gram portion of soil is extracted with fluorocarbon 113. Interferences are removed with silica gel adsorbent. Infrared analysis of the extract is performed by direct comparison with standards.

Toxic Characteristic Leaching Procedure - TCLP (EPA Method 1311)

Before the leaching procedure can be initiated, the information regarding the wet % and dry % solid of the solid sample as well as the utilization of extraction fluid, either #1 or #2, must be determined.

For Volatile Analysis, a special extractor called Zero Headspace Extractor (ZHE) must be used to generate the TCLP leachate. A maximum of 25 grams of sample is placed in the vessel as the liquid portion is pressed out and saved. A 20X of extraction fluid #1 is charged into the vessel. After 18 +/- 2 hours rotation at 30 +/- 2 rpm, the liquid is pressed out of the vessel. The leachate from ZHE is combined with the initial liquid portion, if any. This is referred as TCLP Leachate. The contaminants in the leachate is determined by EPA Method 8260.

For Non-Volatile Analysis, a minimum of 100 grams is filtered through 0.6 to 0.8 um glass fiber filter. The filtrate, if any, is saved. A 20X of extracted fluid, either #1 or #2, is charged in the glass extraction bottle and then rotated at 30 +/- 2 rpm for 18 +/- 2 hours. After rotation, the sample is filtered through 0.6 to 0.8 um glass fiber filter. The filtrate is combined with the initial liquid, if any. This is referred as TCLP Leachate. The contaminants of Base Neutrals/Acids (BNA), pesticides and herbicides in the leachate are determined by EPA Method 8270, EPA Method 8081 and 8150 respectively.

For the Metal Analysis, a minimum of 100 grams is filtered through 0.6 to 0.8 um glass fiber filter. The filtrate, if any, is saved. A 20X of extracted fluid, either #1 or #2, is charged in the glass or plastic extraction bottle and then rotated at 30 +/- rpm for 18 +/- 2 hours. After rotation, the sample is filtered through 0.6 to 0.8 um glass fiber filter. The filtrate is combined with the initial liquid, if any. This is referred as TCLP Leachate. The

contaminants of Metals in the leachate is determined by EPA Method 7471 for mercury, Method 7060 for arsenic, Method 7740 for selenium and Method 6010 (ICAP) and/or Method 7000's (Flame-AA) for the rest of metals.

Metals (soil)

A 1-5 gram portion of soil is digested with nitric acid and hydrogen peroxide. The digestate is then refluxed with either nitric acid or hydrochloric acid. Diluted hydrochloric acid is used as the final reflux acid for the flame AA or ICAP of Ag, Al, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Ni, Sb, Sn, Tl and Zn. Diluted nitric acid is employed as the final dilution acid for the furnace AA analysis of As, Pb and Se. For the graphite furnace analysis, an aliquot of the digestate is spiked with nickel nitrate solution and is placed into the graphite furnace. The aliquot is then slowly evaporated to dryness, charred and atomized. The absorption of the EDL radiation during atomization is proportional to the element concentration. For the flame AA, the digestate is aspirated and atomized in a flame. The absorption of the HCL radiation during atomization is proportional to the element concentration. The basis of ICAP method is the measurement of atomic emission by an optical spectroscope technique. The emission spectra are dispersed by a grating spectrometer and the intensities of the line are measured and processed by a computer system. For mercury analysis, a 0.5-1.0 gram portion of sample is digested with potassium permanganate and persulfate at acidic condition in a water bath at 95°C. The mercury in the sample is reduced to the elemental state and detected by the cold vapor technique in a closed system. The analytical procedures are derived from "EPA Methods for Evaluating Solid Waste, 3rd Edition, 1986" The AA technique is specified in Method 7000 series. The ICAP technique is specified in Method 6010.

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	1169	MATRIX	Soil
SAMPLE NUMBER	0014218	DILUTION FACTOR	111
DATA FILE	149347	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	12/07/00
FIELD ID	3-CTR	ANALYZED BY	ROBERT

CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	3300
107131	Acrylonitrile	U	3300
74873	Chloromethane	U	660
74839	Bromomethane	U	660
75014	Vinyl Chloride	U	660
75003	Chloroethane	U	660
75092	Methylene Chloride	[illegible]	660
67641	Acetone		660
75694	Trichlorofluoromethane	U	660
75354	1,1-Dichloroethene	U	660
75343	1,1-Dichloroethane	U	660
156605	trans-1,2-Dichloroethene	U	660
67663	Chloroform	U	660
107062	1,2-Dichloroethane	U	660
71556	1,1,1-Trichloroethane		660
[illegible]	Carbon Tetrachloride		660
[illegible]	Bromodichloromethane	U	660
78875	1,2-Dichloropropane	U	660
10061015	cis-1,3-Dichloropropene	U	660

CAS #	COMPOUND	UG/KG	MDL
79016	Trichloroethene	U	660
71432	Benzene	U	660
124481	Dibromochloromethane	U	660
79005	1,1,2-Trichloroethane	U	660
10061026	trans-1,3-Dichloropropene	U	660
110758	2-Chloroethylvinylether	U	660
75252	Bromoform	U	660
108101	4-Methyl-2-pentanone	U	660
127184	Tetrachloroethene	U	660
79345	1,1,2,2-Tetrachloroethane	U	660
108883	Toluene	U	660
108907	Chlorobenzene	U	660
100414	Ethylbenzene	U	660
100425	Styrene	U	660
1330207	m,p-Xylene	U	1300
95476	o-Xylene	U	660
156592	cis-1,2-Dichloroethene	U	660
630206	1,1,1,2-Tetrachloroethane	U	660

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	[illegible]	70-121	[illegible]
Toluene-d8	[illegible]	81-117	[illegible]
Bromofluorobenzene	[illegible]	74-121	[illegible]

Reference [illegible] of 93 G is used for all target compounds

U - Indicates compound concentration [illegible] below MDL
J - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution
I - Result exceeds industrial [illegible] standards *

C - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards *

* Flags are based on New Jersey [illegible] Cleanup Criteria from Site Remediation News Volume [illegible] Number [illegible]

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	VULKA14	DILUTION FACTOR	125
DATA FILE	[illegible]	DATE EXTRACTED	
CLIENT NAME		DATE ANALYZED	12/07/00
FIELD ID		ANALYZED BY	ROBERT

CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	3100
107131	Acrylonitrile	U	3100
74873	Chloromethane	U	630
74839	Bromomethane	U	630
75014	Vinyl Chloride	U	630
75003	Chloroethane	U	630
75092	Methylene Chloride	[illegible]	630
67641	Acetone	U	630
75694	Trichlorofluoromethane	U	630
75354	1,1-Dichloroethene	U	630
75343	1,1-Dichloroethane	U	630
156605	trans-1,2-Dichloroethene	U	630
67663	Chloroform	U	630
107062	1,2-Dichloroethane	U	630
71556	1,1,1-Trichloroethane		630
56235	Carbon Tetrachloride	U	630
75274	Bromodichloromethane		630
78875	1,2-Dichloropropane		630
10061015	cis-1,3-Dichloropropene		630

CAS #	COMPOUND	UG/KG	MDL
79016	Trichloroethene	U	630
71432	Benzene	U	630
124481	Dibromochloromethane	U	630
79005	1,1,2-Trichloroethane	U	630
10061026	trans-1,3-Dichloropropene	U	630
110758	2-Chloroethylvinylether	U	630
75252	Bromoform	U	630
108101	4-Methyl-2-pentanone	U	630
127184	Tetrachloroethene	U	630
79345	1,1,2,2-Tetrachloroethane	U	630
108883	Toluene	U	630
108907	Chlorobenzene	U	630
100414	Ethylbenzene	U	630
100425	Styrene	U	630
1330207	m,p-Xylene	U	1300
95476	o-Xylene	U	63[illegible]
156592	cis-1,2-Dichloroethene	U	6[illegible]
[illegible]	1,1,1,2-Tetrachloroethane	U	630

[illegible]	RECOVERY	LIMITS	STATUS
[illegible]	[illegible]	70-121	[illegible]
[illegible]	[illegible]	81-117	[illegible]
[illegible]	[illegible]	74-121	[illegible]

[illegible] target compounds

U - Indicates compound concen[illegible] MDL
J - Indicates compound analy[illegible]
D - Indicates result is base[illegible]
I - Result exceeds industrial [illegible] standards.*

B - Indicates compo[illegible] associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jer[illegible] New [illegible] Number 1

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER	1169	MATRIX	Leachate
SAMPLE NUMBER	0014218	DILUTION FACTOR	10
DATA FILE	>A9309	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	12/05/00
FIELD ID	3-CTR	ANALYZED BY	ROBERT

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.050	0.5
78933	2-Butanone	U	.100	200.0
56235	Carbon Tetrachloride	U	.050	0.5
108907	Chlorobenzene	U	.050	100.0
67663	Chloroform	U	.050	6.0
75354	1,1-Dichloroethene	U	.050	0.7
107062	1,2-Dichloroethane	U	.050	0.5
127184	Tetrachloroethene	U	.050	0.7
79016	Trichloroethene	U	.050	0.5
75014	Vinyl Chloride	U	.100	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	109 %	76 - 114	OK
Toluene-d8	104 %	88 - 110	OK
Bromofluorobenzene	113 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER		MATRIX	Leachate
SAMPLE NUMBER	VBLKA12	DILUTION FACTOR	1
DATA FILE	>A9298	DATE EXTRACTED	
CLIENT NAME		DATE ANALYZED	12/05/00
FIELD ID		ANALYZED BY	ROBERT

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.005	0.5
78933	2-Butanone	U	.010	200.0
56235	Carbon Tetrachloride	U	.005	0.5
108907	Chlorobenzene	U	.005	100.0
67663	Chloroform	U	.005	6.0
75354	1,1-Dichloroethene	U	.005	0.7
107062	1,2-Dichloroethane	U	.005	0.5
127184	Tetrachloroethene	U	.005	0.7
79016	Trichloroethene	U	.005	0.5
75014	Vinyl Chloride	U	.010	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	113 %	76 - 114	OK
Toluene-d8	105 %	88 - 110	OK
Bromofluorobenzene	105 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSIS DATA

CASE NUMBER	1169	MATRIX	Soil
[redacted]LE NUMBER	0014219	DILUTION FACTOR	1.0
[redacted] FILE	>81682	DATE EXTRACTED	11/29/00
CLIENT NAME	RC	DATE ANALYZED	12/08/00
FIELD ID	6-COMP	ANALYZED BY	JANICE

CAS #	COMPOUND	UG/KG		MDL
83329	Acenaphthene	160	J	400
208968	Acenaphthylene	U		400
120127	Anthracene	250	J	400
56553	Benzo(a)Anthracene	680		400
50328	Benzo(a)Pyrene	710	I	400
205992	Benzo(b)fluoranthene	820		400
191242	Benzo(g,h,i)Perylene	350	J	400
207089	Benzo(k)Fluoranthene	550		400
65850	Benzoic Acid	U		2000
100516	Benzyl Alcohol	U		400
111444	bis(-2-Chloroethyl)Ether	U		400
108601	bis(2-Chloroisopropyl)ether	U		400
117817	Bis(2-Ethylhexyl)Phthalate	U		400
111911	bis(-2-Chloroethoxy)Methane	U		400
101553	4-Bromophenyl-phenylether	U		400
85687	Butylbenzylphthalate	U		400
106478	4-Chloroaniline	U		400
91587	2-Chloronaphthalene	U		400
[redacted]	4-Chloro-3-methylphenol	U		400
[redacted]	2-Chlorophenol	U		400
7005723	4-Chlorophenyl-phenylether	U		400
218019	Chrysene	640		400
53703	Dibenzo(a,h)Anthracene	250	J	400
132649	Dibenzofuran	46	J	400
95501	1,2-Dichlorobenzene	U		400
541731	1,3-Dichlorobenzene	U		400
106467	1,4-Dichlorobenzene	U		400
91941	3,3'-Dichlorobenzidine	U		400
120832	2,4-Dichlorophenol	U		400
84662	Diethylphthalate	U		400
105679	2,4-Dimethylphenol	U		400
131113	Dimethyl Phthalate	U		400
84742	Di-n-Butylphthalate	U		400
534521	4,6-Dinitro-2-methylphenol	U		400
51285	2,4-Dinitrophenol	U		400
121142	2,4-Dinitrotoluene	U		400
606202	2,6-Dinitrotoluene	U		400
117840	Di-n-octyl phthalate	U		400
206440	Fluoranthene	1500		400
86737	Fluorene	130	J	400
118741	Hexachlorobenzene	U		400
87683	Hexachlorobutadiene	U		400
77474	Hexachlorocyclopentadiene	U		400
67721	Hexachloroethane	U		400
193395	Indeno(1,2,3-cd)Pyrene	420		400
78591	Isophorone	U		400
91576	2-Methylnaphthalene	U		400
95487	2-Methylphenol	U		400
108394	3&4-Methylphenol	U		400
91203	Naphthalene	U		400
88744	2-Nitroaniline	U		400
99092	3-Nitroaniline	U		400
100016	4-Nitroaniline	U		400
98953	Nitrobenzene	U		400
88755	2-Nitrophenol	U		400
100027	4-Nitrophenol	U		400
62759	N-Nitrosodimethylamine	U		400
86306	N-Nitrosodiphenylamine	U		400
621647	N-Nitroso-Di-n-propylamine	U		400
87865	Pentachlorophenol	U		400
85018	Phenanthrene	850		400
108952	Phenol	U		400
129000	Pyrene	930		400
120821	1,2,4-Trichlorobenzene	U		400
95954	2,4,5-Trichlorophenol	U		400
88062	2,4,6-Trichlorophenol	U		400
92875	Benzidine	U		400
122667	1,2-Diphenylhydrazine	U		400

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	65 %	23-120	OK
2-Fluorobiphenyl	68 %	30-115	OK
Terphenyl-d14	69 %	18-137	OK
Phenol-d5	83 %	24-113	OK
2-Fluorophenol	72 %	25-121	OK
2,4,6-Tribromophenol	83 %	19-122	OK

Percent solid of 83.8 is used for all target compounds.

[redacted] Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
I - Results exceed industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Concentration exceeds highest calibration standard.
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied.

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	SBLK54	DILUTION FACTOR	1.0
DATA FILE	>B1551	DATE EXTRACTED	11/29/00
CLIENT NAME		DATE ANALYZED	11/29/00
FIELD ID		ANALYZED BY	TED

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
83329	Acenaphthene	U	330	51285	2,4-Dinitrophenol	U	330
208968	Acenaphthylene	U	330	121142	2,4-Dinitrotoluene	U	330
120127	Anthracene	U	330	606202	2,6-Dinitrotoluene	U	330
56553	Benzo(a)Anthracene	U	330	117840	Di-n-octyl phthalate	U	330
50328	Benzo(a)Pyrene	U	330	206440	Fluoranthene	U	330
205992	Benzo(b)fluoranthene	U	330	86737	Fluorene	U	330
191242	Benzo(g,h,i)Perylene	U	330	118741	Hexachlorobenzene	U	330
207089	Benzo(k)Fluoranthene	U	330	87683	Hexachlorobutadiene	U	330
65850	Benzoic Acid	U	1700	77474	Hexachlorocyclopentadiene	U	330
100516	Benzyl Alcohol	U	330	67721	Hexachloroethane	U	330
111444	bis(-2-Chloroethyl)Ether	U	330	193395	Indeno(1,2,3-cd)Pyrene	U	330
108601	bis(2-Chloroisopropyl)ether	U	330	78591	Isophorone	U	330
117817	Bis(2-Ethylhexyl)Phthalate	U	330	91576	2-Methylnaphthalene	U	330
111911	bis(-2-Chloroethoxy)Methane	U	330	95487	2-Methylphenol	U	330
101553	4-Bromophenyl-phenylether	U	330	108394	3&4-Methylphenol	U	330
85687	Butylbenzylphthalate	U	330	91203	Naphthalene	U	330
106478	4-Chloroaniline	U	330	88744	2-Nitroaniline	U	330
91587	2-Chloronaphthalene	U	330	99092	3-Nitroaniline	U	330
59507	4-Chloro-3-methylphenol	U	330	100016	4-Nitroaniline	U	330
95578	2-Chlorophenol	U	330	98953	Nitrobenzene	U	330
7005723	4-Chlorophenyl-phenylether	U	330	88755	2-Nitrophenol	U	330
218019	Chrysene	U	330	100027	4-Nitrophenol	U	330
53703	Dibenzo(a,h)Anthracene	U	330	62759	N-Nitrosodimethylamine	U	330
132649	Dibenzofuran	U	330	86306	N-Nitrosodiphenylamine	U	330
95501	1,2-Dichlorobenzene	U	330	621647	N-Nitroso-Di-n-propylamine	U	330
541731	1,3-Dichlorobenzene	U	330	87865	Pentachlorophenol	U	330
106467	1,4-Dichlorobenzene	U	330	85018	Phenanthrene	U	330
91941	3,3'-Dichlorobenzidine	U	330	108952	Phenol	U	330
120832	2,4-Dichlorophenol	U	330	129000	Pyrene	U	330
84662	Diethylphthalate	U	330	120821	1,2,4-Trichlorobenzene	U	330
105679	2,4-Dimethylphenol	U	330	95954	2,4,5-Trichlorophenol	U	330
131113	Dimethyl Phthalate	U	330	88062	2,4,6-Trichlorophenol	U	330
84742	Di-n-Butylphthalate	U	330	92875	Benzidine	U	330
534521	4,6-Dinitro-2-methylphenol	U	330	122667	1,2-Diphenylhydrazine	U	330

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	74 %	23-120	OK
2-Fluorobiphenyl	67 %	30-115	OK
Terphenyl-d14	62 %	18-137	OK
Phenol-d5	88 %	24-113	OK
2-Fluorophenol	75 %	25-121	OK
2,4,6-Tribromophenol	70 %	19-122	OK

Percent solid of 100 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
I - Results exceed industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Concentration exceeds highest calibration standard.
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

ACCREDITED LABORATORIES, INC.
TCLP SEMIVOLATILES ANALYSIS DATA

CASE NUMBER	1169	MATRIX	Leachate
SAMPLE NUMBER	0014219	DILUTION FACTOR	10
DATA FILE	>F2666	DATE EXTRACTED	12/05/00
CLIENT NAME	RC	DATE ANALYZED	12/08/00
FIELD ID	6-COMP	ANALYZED BY	DANIEL

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
110861	Pyridine	U	.10	5.0
106467	1,4-Dichlorobenzene	U	.10	7.5
95478	2-Methylphenol	U	.10	200.0
108394	3&4-Methylphenol	U	.10	200.0
67721	Hexachloroethane	U	.10	3.0
989103	Nitrobenzene	U	.10	2.0
87683	Hexachlorobutadiene	U	.10	0.5
88062	2,4,6-Trichlorophenol	U	.10	2.0
9109104	2,4,5-Trichlorophenol	U	.50	400.0
121142	2,4-Dinitrotoluene	U	.10	0.13
118741	Hexachlorobenzene	U	.10	0.13
878610	Pentachlorophenol	U	.10	100.0

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
2-Fluorophenol	72 %	21 - 100	OK
Phenol-d5	70 %	10 - 94	OK
Nitrobenzene-d5	67 %	35 - 114	OK
2-Fluorobiphenyl	61 %	43 - 116	OK
2,4,6-Tribromophenol	90 %	10 - 123	OK
Terphenyl-d14	60 %	33 - 141	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Methylphenol = o-cresol
* 3-Methylphenol = m-cresol
* 4-Methylphenol = p-cresol

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied.

ACCREDITED LABORATORIES, INC.
TCLP SEMIVOLATILES ANALYSIS DATA

CASE NUMBER		MATRIX	Leachate
SAMPLE NUMBER	SBLK60	DILUTION FACTOR	10
DATA FILE	>B1644	DATE EXTRACTED	12/05/00
CLIENT NAME		DATE ANALYZED	12/05/00
FIELD ID		ANALYZED BY	DANIEL

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
110861	Pyridine	U	.10	5.0
106467	1,4-Dichlorobenzene	U	.10	7.5
95478	2-Methylphenol	U	.10	200.0
108394	3&4-Methylphenol	U	.10	200.0
67721	Hexachloroethane	U	.10	3.0
989103	Nitrobenzene	U	.10	2.0
87683	Hexachlorobutadiene	U	.10	0.5
88062	2,4,6-Trichlorophenol	U	.10	2.0
9109104	2,4,5-Trichlorophenol	U	.50	400.0
121142	2,4-Dinitrotoluene	U	.10	0.13
118741	Hexachlorobenzene	U	.10	0.13
878610	Pentachlorophenol	U	.10	100.0

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
2-Fluorophenol	63 %	21 - 100	OK
Phenol-d5	61 %	10 - 94	OK
Nitrobenzene-d5	61 %	35 - 114	OK
2-Fluorobiphenyl	56 %	43 - 116	OK
2,4,6-Tribromophenol	79 %	10 - 123	OK
Terphenyl-d14	55 %	33 - 141	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Methylphenol = o-cresol
* 3-Methylphenol = m-cresol
* 4-Methylphenol = p-cresol

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied.

ACCREDITED LABORATORIES, INC
PESTICIDE/PCB ORGANIC ANALYSIS DATA

CASE NUMBER	1169	MATRIX	Soil
SAMPLE NUMBER	0014219	DILUTION FACTOR	1
DATA FILE	>G8227	DATE EXTRACTED	12/01/00
CLIENT NAME	RC	DATE ANALYZED	12/05/00
FIELD ID	6-COMP	ANALYZED BY	CLIFF

CAS#	COMPOUND	UG/KG	MDL
319846	A-BHC	U	.796
319857	B-BHC	U	.796
58899	G-BHC (Lindane)	U	.796
319868	D-BHC	U	.796
76448	Heptachlor	U	.796
309002	Aldrin	U	.796
1024573	Heptachlor Epoxide	U	.796
959988	Endosulfan I	U	.796
5103719	A-Chlordane	U	.796
5103742	G-Chlordane	U	.796
60571	Dieldrin	U	1.59
72559	4,4'-DDE	U	1.59
72208	Endrin	U	1.59
33213659	Endosulfan II	U	1.59
72548	4,4'-DDD	U	1.59
7421934	Endrin Aldehyde	U	1.59
1031078	Endosulfan Sulfate	U	1.59
50293	4,4'-DDT	U	1.59
53494705	Endrin Ketone	U	1.59
72435	Methoxychlor	U	7.96
8001352	Toxaphene	U	39.8
12674112	Aroclor-1016	U	19.9
11104282	Aroclor-1221	U	19.9
11141165	Aroclor-1232	U	19.9
53469219	Aroclor-1242	U	19.9
12672296	Aroclor-1248	U	19.9
11097691	Aroclor-1254	148	19.9
11096825	Aroclor-1260	U	19.9

Percent Solid of 83.8 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC
PESTICIDE/PCB ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	PBLK26	DILUTION FACTOR	1
DATA FILE	>G8189	DATE EXTRACTED	12/01/00
CLIENT NAME		DATE ANALYZED	12/01/00
FIELD ID		ANALYZED BY	JEFF

CAS#	COMPOUND	UG/KG	MDL
319846	A-BHC	U	.667
319857	B-BHC	U	.667
58899	G-BHC (Lindane)	U	.667
319868	D-BHC	U	.667
76448	Heptachlor	U	.667
309002	Aldrin	U	.667
1024573	Heptachlor Epoxide	U	.667
959988	Endosulfan I	U	.667
5103719	A-Chlordane	U	.667
5103742	G-Chlordane	U	.667
60571	Dieldrin	U	1.33
72559	4,4'-DDE	U	1.33
72208	Endrin	U	1.33
33213659	Endosulfan II	U	1.33
72548	4,4'-DDD	U	1.33
7421934	Endrin Aldehyde	U	1.33
1031078	Endosulfan Sulfate	U	1.33
50293	4,4'-DDT	U	1.33
53494705	Endrin Ketone	U	1.33
72435	Methoxychlor	U	6.67
8001352	Toxaphene	U	33.3
12674112	Aroclor-1016	U	16.7
11104282	Aroclor-1221	U	16.7
11141165	Aroclor-1232	U	16.7
53469219	Aroclor-1242	U	16.7
12672296	Aroclor-1248	U	16.7
11097691	Aroclor-1254	U	16.7
11096825	Aroclor-1260	U	16.7

Percent Solid of 100. is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

ACCREDITED LABORATORIES, INC.
TCLP PESTICIDES ANALYSIS DATA

CASE NUMBER	1169	MATRIX	Leachate
SAMPLE NUMBER	0014219	DILUTION FACTOR	50
DATA FILE	>G8243	DATE EXTRACTED	12/05/00
CLIENT NAME	RC	DATE ANALYZED	12/05/00
FIELD ID	6-COMP	ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
58-89-9	G-BHC (Lindane)	U	.001	0.400
76-44-8	Heptachlor	U	.001	0.008
1024-57-3	Heptachlor Epoxide	U	.001	0.008
72-20-8	Endrin	U	.002	0.02
72-43-5	Methoxychlor	U	.010	10.0
5103-71-9	A-Chlordane	U	.001	0.03
5103-74-2	G-Chlordane	U	.001	0.03
8001-35-2	Toxaphene	U	.050	0.5

SURROGATE COMPOUNDS	RECOVERY	ADVISORY LIMITS	STATUS
DCB	55%	30 - 150	OK
Tetrachloro-m-xylene	53%	30 - 150	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

ACCREDITED LABORATORIES, INC.
TCLP PESTICIDES ANALYSIS DATA

CASE NUMBER		MATRIX	Leachate
SAMPLE NUMBER	PBLK28	DILUTION FACTOR	50
DATA FILE	>G8239	DATE EXTRACTED	12/05/00
CLIENT NAME		DATE ANALYZED	12/05/00
FIELD ID		ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
58-89-9	G-BHC (Lindane)	U	.001	0.400
76-44-8	Heptachlor	U	.001	0.008
1024-57-3	Heptachlor Epoxide	U	.001	0.008
72-20-8	Endrin	U	.002	0.02
72-43-5	Methoxychlor	U	.010	10.0
5103-71-9	A-Chlordane	U	.001	0.03
5103-74-2	G-Chlordane	U	.001	0.03
8001-35-2	Toxaphene	U	.050	0.5

SURROGATE COMPOUNDS	RECOVERY	ADVISORY LIMITS	STATUS
DCB	57%	30 - 150	OK
Tetrachloro-m-xylene	56%	30 - 150	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

ACCREDITED LABORATORIES, INC
TCLP HERBICIDE ANALYSIS DATA

CASE NUMBER	1169	MATRIX	Leachate
SAMPLE NUMBER	0014219	DILUTION FACTOR	1
DATA FILE	>A2789	DATE EXTRACTED	12/05/00
CLIENT NAME	RC	DATE ANALYZED	12/06/00
FIELD ID	6-COMP	ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
94757	2,4'-D	U	.100	10.0
93721	SILVEX	U	.010	1.0

U - Indicates compound was analyzed for but not detected

ACCREDITED LABORATORIES, INC
TCLP HERBICIDE ANALYSIS DATA

CASE NUMBER		MATRIX	Leachate
SAMPLE NUMBER	HBLK19	DILUTION FACTOR	1
DATA FILE	>A2785	DATE EXTRACTED	12/05/00
CLIENT NAME		DATE ANALYZED	12/06/00
FIELD ID		ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
94757	2,4'-D	U	.100	10.0
93721	SILVEX	U	.010	1.0

U - Indicates compound was analyzed for but not detected

ACCREDITED LABORATORIES, INC.
INORGANIC ANALYSIS DATA SHEET

Case #: 1169
Sample #: 0014219
Field ID: 6-COMP
Client Name: RC

Matrix: Soil
Date Received: 11/28/00

CAS No.	Element	Result MG/KG	MDL MG/KG	Dilution Factor	Method	Date Analyzed
7440-36-0	Antimony	ND	7.60	1	P	11/30/00
7440-38-2	Arsenic	3.80	1.52	4	F	11/30/00
7440-39-3	Barium	66.2	2.28	1	P	11/30/00
7440-41-7	Beryllium	.859	.760	1	P	11/30/00
7440-43-9	Cadmium	1.50	.760	1	P	11/30/00
7440-47-3	Chromium	13.1	2.28	1	P	11/30/00
7440-50-8	Copper	13.1	2.28	1	P	11/30/00
7439-92-1	Lead	30.0	15.2	1	P	11/30/00
7439-97-6	Mercury	ND	.239	1	CV	11/30/00
7440-02-0	Nickel	13.0	3.80	1	P	11/30/00
7782-49-2	Selenium	ND	1.90	5	F	11/30/00
7440-22-4	Silver	ND	.760	1	P	11/30/00
7440-28-0	Thallium	ND	1.90	5	F	11/30/00
7440-62-2	Vanadium	19.9	3.80	1	P	11/30/00
7440-66-6	Zinc	40.6	7.60	1	P	11/30/00

Percent Solid of 83.8 is used for all target elements

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
INORGANIC ANALYSIS DATA SHEET

Sample #: PBS1840 Matrix: Soil
Field ID: PREPBLANK Date Prepared: 11/30/00

CAS No.	Element	Result MG/KG	MDL MG/KG	Dilution Factor	Method	Date Analyzed
7440-36-0	Antimony	ND	10.0	1	P	11/30/00
7440-38-2	Arsenic	ND	.500	1	F	11/30/00
7440-39-3	Barium	ND	3.00	1	P	11/30/00
7440-41-7	Beryllium	ND	1.00	1	P	11/30/00
7440-43-9	Cadmium	ND	1.00	1	P	11/30/00
7440-47-3	Chromium	ND	3.00	1	P	11/30/00
7440-50-8	Copper	ND	3.00	1	P	11/30/00
7439-92-1	Lead	ND	20.0	1	P	11/30/00
7439-97-6	Mercury	ND	.200	1	CV	11/30/00
7440-02-0	Nickel	ND	5.00	1	P	11/30/00
7782-49-2	Selenium	ND	.500	1	F	11/30/00
7440-22-4	Silver	ND	1.00	1	P	11/30/00
7440-28-0	Thallium	ND	.500	1	F	11/30/00
7440-62-2	Vanadium	ND	5.00	1	P	11/30/00
7440-66-6	Zinc	ND	10.0	1	P	11/30/00

Percent Solid of 100. is used for all target elements

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
REGULATED TCLP METALS
INORGANIC ANALYSIS DATA SHEET

Case #: 1169
Sample #: 0014219
Field ID: 6-COMP
Client Name: RC

Matrix: Leachate
Date Received: 11/28/00

CAS No.	Element	Result MG/L	MDL MG/L	Dilution Factor	Regulatory Level	Method	Date Analyzed
7440-38-2	Arsenic	ND	1.00	1	5.00	P	11/30/00
7440-39-3	Barium	.702	.500	1	100.00	P	11/30/00
7440-43-9	Cadmium	ND	.040	1	1.00	P	11/30/00
7440-47-3	Chromium	ND	.100	1	5.00	P	11/30/00
7439-92-1	Lead	ND	.500	1	5.00	P	11/30/00
7439-97-6	Mercury	ND	.002	2	.20	CV	11/30/00
7782-49-2	Selenium	ND	.400	1	1.00	P	11/30/00
7440-22-4	Silver	ND	.100	1	5.00	P	11/30/00

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
REGULATED TCLP METALS
INORGANIC ANALYSIS DATA SHEET

Sample #: PBL096 Matrix: Leachate
Field ID: PREPBLANK Date Prepared: 11/29/00

CAS No.	Element	Result MG/L	MDL MG/L	Dilution Factor	Regulatory Level	Method	Date Analyzed
7440-38-2	Arsenic	ND	.500	1	5.00	P	11/30/00
7440-39-3	Barium	ND	.250	1	100.00	P	11/30/00
7440-43-9	Cadmium	ND	.020	1	1.00	P	11/30/00
7440-47-3	Chromium	ND	.050	1	5.00	P	11/30/00
7439-92-1	Lead	ND	.250	1	5.00	P	11/30/00
7439-97-6	Mercury	ND	.001	1	.20	CV	11/30/00
7782-49-2	Selenium	ND	.200	1	1.00	P	11/30/00
7440-22-4	Silver	ND	.050	1	5.00	P	11/30/00

ND - Element analyzed for but not detected.
P - Analyzed by ICP
CV - Analyzed by Cold Vapor
F - Analyzed by GFA
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
GENERAL CHEMISTRY ANALYSIS DATA

Case #: 1169
Sample #: 0014219
Client Name: RC
Field Number: 6-COMP

Matrix: Soil
Date Received: 11/28/00
% Moisture: 16.2

ANALYTES	RESULTS	MDL	UNITS	DILUTION FACTOR	METHOD BLANK RESULTS	METHOD BLANK MDL	ANALYSIS DATE
Solids, Percent	83.8	0.10	%	1.			11/30/00
Cyanide, Total	ND	1.13	mg/Kg	1.	ND	0.01	12/01/00
Chromium, Trivalent	13.1	2.28	mg/Kg	1.			11/30/00
Chromium, Hexavalent	ND	2.39	mg/Kg	1.	ND	0.05	11/29/00
Carbon, Total Organic	4990.	217.	mg/Kg	1.	ND	100.	11/28/00

Accredited Laboratories, Inc.
Total Petroleum Hydrocarbon Analysis

Client: RC
Case #: 1169
Analyst: RB

Matrix: Soil
Date Received: 11/28/00
Date Analyzed: 11/28/00

Field #	Sample #	Amount Used (g)	% S	DF	ABS	Result mg/Kg	MDL mg/Kg
6-COMP	0014219	15.13	83.8	1	6	63	47

Response Factor = .13310669

% S = Percent Solids
DF = Dilution Factor
ABS = Absorbance

Method Blank: < 20 mg/Kg

TWIN PEAKS, INC.

P.O. Box 780630, Maspeth, NY 11378
(718) 482-1911 ■ Fax: (718) 482-7767

Report

CLIENT	ACCREDITED LABS
PROJECT	XAL-C-1169
FIELD ID	200014219

DATA FILE	>AL46
DATE RECEIVED	11/29/2000
DATE ANALYZED	12/04/2000

SIEVE ANALYSIS / GRADATION

SIEVE SIZE	PERCENT PASSING	JOB LIMITS
4 "	100	N/A
# 4	78.5	N/A
# 40	44.9	N/A
# 200[1]	11.4	N/A

Note: N/A-not available

ALEX SHAHNAZARIAN
Lab Manager

[1] Washing method ASTM D1140 was used

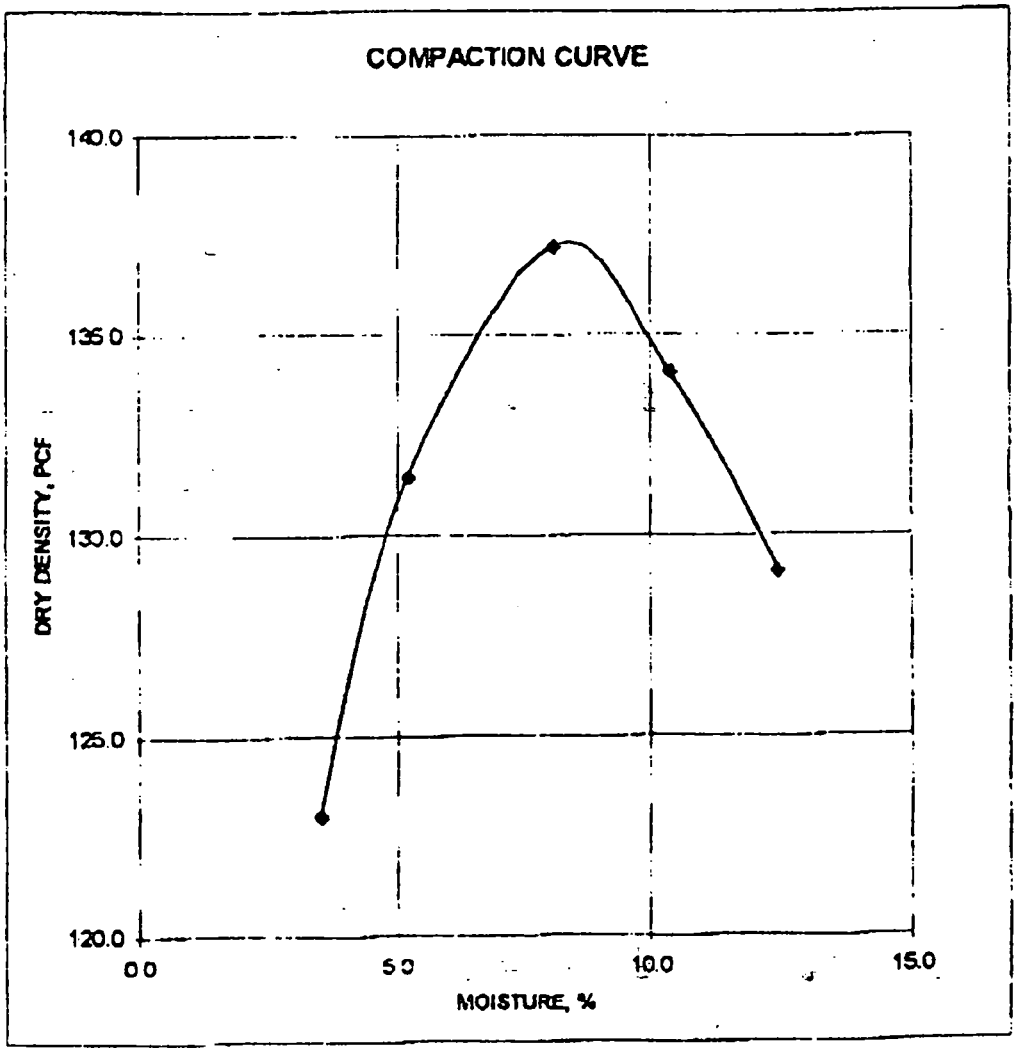
TWIN PEAKS, INC.

P.O. Box 780630, Maspeth, NY 11378
(718) 482-1911 ■ Fax: (718) 482-7767

Report

CLIENT	ACCREDITED LABS
PROJECT	XAL-C-1169
FIELD ID	200014219

DATA FILE	>AL46
DATE RECEIVED	11/29/2000
DATE ANALYZED	12/04/2000



MAXIMUM DENSITY = 137.2 PCF
OPTIMUM MOISTURE = 8.5 %

ACCREDITED LABORATORIES, INC.
20 PERSHING AVENUE
CARTERET, NEW JERSEY 07008
PHONE: (732) 541-2025 / (800) ALI-LABS

CHAIN OF CUSTODY FORM

PAGE 1 OF 1

[illegible]NT	REBCO CONTRACTING	PROJECT	G. M. PLANT
ADDRESS	P.O. BOX 4238	CONTACT	JEFF STEELE
CITY	CLIFTON	PHONE	
STATE	NJ ZIP 07012	FAX	

ALI SAMPLE #	FIELD ID	*C	**M	DATE / TIME SAMPLED	SAMPLE DESCRIPTION	ANALYSIS
0008995		3	S	7/31/00	SOIL PILE	PPMEVO, TCLP VOA, pH
						FULL TCLP w/o VO
						PRIORITY POLLUTANTS w/o VO
						TOC, TPHC, CR^6, CR^3,
						Ba, Va

**M = MATRIX: A=AQUEOUS S=SOIL G=SLUDGE P=POTABLE WATER O=OIL F=FILTER K=SOLID X=OTHER

*C = NO. CONTAINERS TURNAROUND: 5 DAYS (If Blank, Std. 3 weeks)

DELIVERABLES (circle one): STD REDUCED FULL NY-ASP CLP I CLP II

RELINQUISHED BY: PRINT	SIGN	RECEIVED BY: PRINT	SIGN	ORGANIZATION	DATE	TIME	REASON
K. Roberts	Keith Roberts	Jason Miller	[signature]	ACI	7/31/00	13:15	Analysis

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: K. Roberts SIGN: Keith Roberts

COMMENTS	
	Cooler Temp 5°

ALI QUOTE#	
ALI CASE#	8903
P.O.#	

CHAIN OF CUSTODY FORM

ACCREDITED LABORATORIES, INC.
20 PERSHING AVENUE
CARTERET, NEW JERSEY 07008
PHONE: (732) 541-2025 / (800) ALI-LABS

PAGE 1 OF 1

CLIENT	REBCO CONTRACTING	PROJECT	G.M. PLANT
ADDRESS	P.O. BOX 4238	CONTACT	JEFF STEELE
CITY	CLIFTON	PHONE	973-472-6067
STATE	NJ ZIP 07012	FAX	973-472-2684

ALI SAMPLE #	FIELD ID	#C	**M	DATE/TIME SAMPLED	SAMPLE DESCRIPTION	ANALYSIS
0007615	#1-5 Comp	1	S	7/6/00	FRONT of PILE	FULL TCLP w/o VO,
						PRIORITY POLLUTANT w/o VO
						Cr^6, Cr^3, TOC, TPHC, Ba, V
	#1	1	S			SAME AS #1-5
	#2	1	S			SAME AS #1-5
	#3	1	S			SAME AS #1-5
	#4	1	S			SAME AS #1-5
	#5	1	S			SAME AS #1-5
	#6	1	S	7/6/00	TOP of PILE	SAME AS #6-10 Comp
	#7	1	S			SAME AS #6-10 Comp
0007616	#8	3	S			PPME VO, TCLP VO, SAME AS 6-10
	#9	1	S			SAME AS #6-10 Comp
	#10	1	S			SAME AS #6-10 Comp
0007617	#6-10 Comp	1	S			FULL TCLP W/O VO,
						PRIORITY POLLUTANT w/o VO
						Cr^6, Cr^3, TOC, TPHC, Ba, V

**M - MATRIX

**C - NO. CONTA

Post-it® Fax Note 7671 | Date 7/11/00 | # of pages ▶ 23

To Jeff Steele	From
Co./Dept. Rebco Contracting	Co. Case #8650
Phone #	Phone # results w/
Fax # (973) 472-2684	Fax # Appdx A

(If Blank, Std. 3 weeks)

DELIVERABLES (circle one): STD REDUCED FULL NY-ASP CLP I CLP II

RELINQUISHED BY PRINT	RELINQUISHED BY SIGN	RECEIVED BY PRINT	RECEIVED BY SIGN	ORGANIZATION	DATE	TIME	PERSON
K. Roberts	Keith Robert	Jason Miller	[signature]	ALI	7/6/00	11:00	Analysis

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: K. Roberts SIGN: Keith Robert

COMMENTS	#1 to #5 Composite #1-5 Comp	ALI QUOTE	
	#6 to #10 Composite #6-10 Comp	ALI CASE #	8650
		P.O. #	

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	8650	MATRIX	Soil
SAMPLE NUMBER	0007616	DILUTION FACTOR	117
DATA FILE	>C1425	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	07/07/00
FIELD ID	#8	ANALYZED BY	WILLIAM

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	3300	71432	Benzene	U	660
107131	Acrylonitrile	L	3300	79016	Trichloroethene	U	660
74873	Chloromethane	L	660	78875	1,2-Dichloropropane	U	660
75014	Vinyl Chloride	U	660	75274	Bromodichloromethane	U	660
74839	Bromomethane	L	660	10061015	cis-1,3-dichloropropene	U	660
75003	Chloroethane	U	660	108883	Toluene	U	660
75694	Trichlorofluoromethane	U	660	10061026	trans-1,3-Dichloropropene	U	660
75354	1,1-Dichloroethene	U	660	79005	1,1,2-Trichloroethane	U	660
75092	Methylene Chloride	1300	660	127184	Tetrachloroethene	U	660
156605	trans-1,2-Dichloroethene	U	660	124481	Dibromochloromethane	U	660
75343	1,1-Dichloroethane	b	660	100414	Ethylbenzene	U	660
67663	Chloroform	U	660	108907	Chlorobenzene	U	660
71556	1,1,1-Trichloroethane	U	660	75252	Bromoform	U	660
56235	Carbon Tetrachloride	U	660	79345	1,1,2,2-Tetrachloroethane	U	660
107062	1,2-Dichloroethane	U	660	110758	2-Chloroethylvinylether	U	660

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	90 %	70-121	OK
Toluene-d8	92 %	81-117	OK
Bromofluorobenzene	94 %	74-121	OK

Percent solid of 89.2 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
I - Result exceeds industrial surface soil standards.*

B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER	8650	MATRIX	Leachate
SAMPLE NUMBER	0007616	DILUTION FACTOR	10
DATA FILE	>A6945	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	07/10/00
FIELD ID	#8	ANALYZED BY	ROBERT

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.050	0.5
78933	2-Butanone	U	.100	200.0
56235	Carbon Tetrachloride	U	.050	0.5
108907	Chlorobenzene	U	.050	100.0
67663	Chloroform	U	.050	6.0
75354	1,1-Dichloroethene	U	.050	0.7
107062	1,2-Dichloroethane	U	.050	0.5
127184	Tetrachloroethene	U	.050	0.7
79016	Trichloroethene	U	.050	0.5
75014	Vinyl Chloride	U	.100	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	107 %	76 - 114	OK
Toluene-d8	102 %	88 - 110	OK
Bromofluorobenzene	103 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC
SNA ORGANIC ANALYSIS DATA

CASE NUMBER	8650	MATRIX	Soil
SAMPLE NUMBER	0007615	DILUTION FACTOR	1.0
DATA FILE	>F1178	DATE EXTRACTED	07/06/00
CLIENT NAME	RC	DATE ANALYZED	07/07/00
FIELD ID	#1-5 COMP	ANALYZED BY	DANIEL

CAS #	COMPOUND	UG/KG	MDL
83329	Acenaphthene	470	370
208968	Acenaphthylene	190 J	370
120127	Anthracene	1100	370
56553	Benzo(a)Anthracene	2300	370
50328	Benzo(a)Pyrene	2200	370
205992	Benzo(b)fluoranthene	2500	370
191242	Benzo(g,h,i)Perylene	920	370
207089	Benzo(k)Fluoranthene	1700	370
65850	Benzoic Acid	U	1900
100516	Benzyl Alcohol	U	370
111444	bis(-2-Chloroethyl)Ether	U	370
108601	bis(2-Chloroisopropyl)ether	U	370
117817	Bis(2-Ethylhexyl)Phthalate	130 J	370
111911	bis(-2-Chloroethoxyl)Methane	U	370
101553	4-Bromophenyl-phenylether	U	370
85687	Butylbenzylphthalate	66 J	370
106478	4-Chloroaniline	U	370
91587	2-Chloronaphthalene	U	370
59507	4-Chloro-3-methylphenol	U	370
95578	2-Chlorophenol	U	370
7005723	4-Chlorophenyl-phenylether	U	370
218019	Chrysene	2100	370
53703	Dibenzo(a,h)Anthracene	620	370
132649	Dibenzofuran	270 J	370
95501	1,2-Dichlorobenzene	U	370
541731	1,3-Dichlorobenzene	U	370
106467	1,4-Dichlorobenzene	U	370
91941	3,3'-Dichlorobenzidine	U	370
120832	2,4-Dichlorophenol	U	370
84662	Diethylphthalate	U	370
105679	2,4-Dimethylphenol	U	370
131113	Dimethyl Phthalate	U	370
84742	Di-n-Butylphthalate	47 J	370
534521	4,6-Dinitro-2-methylphenol	U	370

CAS #	COMPOUND	UG/KG	MDL
51285	2,4-Dinitrophenol	U	370
121142	2,4-Dinitrotoluene	U	370
606202	2,6-Dinitrotoluene	U	370
117840	Di-n-octyl phthalate	U	370
206440	Fluoranthene	5600	370
86737	Fluorene	630	370
118741	Hexachlorobenzene	U	370
87683	Hexachlorobutadiene	U	370
77474	Hexachlorocyclopentadiene	U	370
67721	Hexachloroethane	U	370
193395	Indeno(1,2,3-cd)Pyrene	1100	370
78591	Isophorone	U	370
91576	2-Methylnaphthalene	120 J	370
95487	2-Methylphenol	U	370
108394	3&4-Methylphenol	U	370
91203	Naphthalene	330 J	370
88744	2-Nitroaniline	U	370
99092	3-Nitroaniline	U	370
100016	4-Nitroaniline	U	370
98953	Nitrobenzene	U	370
88755	2-Nitrophenol	U	370
100027	4-Nitrophenol	U	370
62759	N-Nitrosodimethylamine	U	370
86306	N-Nitrosodiphenylamine	U	370
621647	N-Nitroso-Di-n-propylamine	U	370
87865	Pentachlorophenol	U	370
85018	Phenanthrene	3500	370
108952	Phenol	U	370
129000	Pyrene	3300	370
120821	1,2,4-Trichlorobenzene	U	370
95954	2,4,5-Trichlorophenol	U	370
88062	2,4,6-Trichlorophenol	U	370
92875	Benzidine	U	370
122667	1,2-Diphenylhydrazine	U	370

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	52 %	23-120	OK
2-Fluorobiphenyl	62 %	30-115	OK
Terphenyl-d14	68 %	18-137	OK
Phenol-d5	57 %	24-113	OK
2-Fluorophenol	61 %	25-121	OK
2,4,6-Tribromophenol	92 %	19-122	OK

Percent solid of 88.9 is used for all target compounds.

J - Indicates compound concentration found below MDL
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
B - Indicates compound found in associated blank.
E - Concentration exceeds highest calibration standard.

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSIS DATA

CASE NUMBER	8650	MATRIX	Soil
SAMPLE NUMBER	0007617	DILUTION FACTOR	1.0
DATA FILE	>F1179	DATE EXTRACTED	07/06/00
CLIENT NAME	RC	DATE ANALYZED	07/07/00
FIELD ID	#6-10 COMP	ANALYZED BY	DANIEL

CAS #	COMPOUND	UG/KG		MDL
83329	Acenaphthene	330	J	380
208968	Acenaphthylene	52	J	380
120127	Anthracene	430		380
56553	Benzo(a)Anthracene	790		380
50328	Benzo(a)Pyrene	700	I	380
205992	Benzo(b)fluoranthene	750		380
191242	Benzo(g,h,i)Perylene	250	J	380
207089	Benzo(k)Fluoranthene	760		380
65850	Benzoic Acid	U		1900
100516	Benzyl Alcohol	U		380
111444	bis(-2-Chloroethyl)Ether	U		380
108601	bis(2-Chloroisopropyl)ether	U		380
117817	Bis(2-Ethylhexyl)Phthalate	240	J	380
111911	bis(-2-Chloroethoxy)Methane	U		380
101553	4-Bromophenyl-phenylether	U		380
85687	Butylbenzylphthalate	U		380
106478	4-Chloroaniline	U		380
91587	2-Chloronaphthalene	U		380
59507	4-Chloro-3-methylphenol	U		380
95578	2-Chlorophenol	U		380
7005723	4-Chlorophenyl-phenylether	U		380
218019	Chrysene	730		380
53703	Dibenzo(a,h)Anthracene	160	J	380
132649	Dibenzofuran	130	J	380
95501	1,2-Dichlorobenzene	U		380
541731	1,3-Dichlorobenzene	U		380
106467	1,4-Dichlorobenzene	U		380
91941	3,3'-Dichlorobenzidine	U		380
120832	2,4-Dichlorophenol	U		380
84662	Diethylphthalate	U		380
105679	2,4-Dimethylphenol	U		380
131113	Dimethyl Phthalate	U		380
84742	Di-n-Butylphthalate	U		380
534521	4,6-Dinitro-2-methylphenol	U		380

CAS #	COMPOUND	UG/KG		MDL
51285	2,4-Dinitrophenol	U		380
121142	2,4-Dinitrotoluene	U		380
606202	2,6-Dinitrotoluene	U		380
117840	Di-n-octyl phthalate	U		380
206440	Fluoranthene	2100		380
86737	Fluorene	310	J	380
118741	Hexachlorobenzene	U		380
87683	Hexachlorobutadiene	U		380
77474	Hexachlorocyclopentadiene	U		380
67721	Hexachloroethane	U		380
193395	Indeno(1,2,3-cd)Pyrene	300	J	380
78591	Isophorone	U		380
91576	2-Methylnaphthalene	410		380
95487	2-Methylphenol	U		380
108394	3&4-Methylphenol	U		380
91203	Naphthalene	190	J	380
88744	2-Nitroaniline	U		380
99092	3-Nitroaniline	U		380
100016	4-Nitroaniline	U		380
98953	Nitrobenzene	U		380
88755	2-Nitrophenol	U		380
100027	4-Nitrophenol	U		380
62759	N-Nitrosodimethylamine	U		380
86306	N-Nitrosodiphenylamine	U		380
621647	N-Nitroso-Di-n-propylamine	U		380
87865	Pentachlorophenol	U		380
85018	Phenanthrene	1100		380
108952	Phenol	U		380
129000	Pyrene	1800		380
120821	1,2,4-Trichlorobenzene	U		380
95954	2,4,5-Trichlorophenol	U		380
88062	2,4,6-Trichlorophenol	U		380
92875	Benzidine	U		380
122667	1,2-Diphenylhydrazine	U		380

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	62 %	23-120	OK
2-Fluorobiphenyl	72 %	30-115	OK
Terphenyl-d14	96 %	18-137	OK
Phenol-d5	63 %	24-113	OK
2-Fluorophenol	60 %	25-121	OK
2,4,6-Tribromophenol	101 %	19-122	OK

Percent solid of 87.7 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
I - Results exceed industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Concentration exceeds highest calibration standard.
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

ACCREDITED LABORATORIES, INC.
TCLP SEMIVOLATILES ANALYSIS DATA

CASE NUMBER	A650	MATRIX	Leachate
SAMPLE NUMBER	0007615	DILUTION FACTOR	10
DATA FILE	>F1173	DATE EXTRACTED	07/07/00
CLIENT NAME	RC	DATE ANALYZED	07/07/00
FIELD ID	#1-5 COMP	ANALYZED BY	DANIEL

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
110861	Pyridine	U	.10	5.0
106467	1,4-Dichlorobenzene	U	.10	7.5
95478	2-Methylphenol	U	.10	200.0
108394	3&4-Methylphenol	U	.10	200.0
67721	Hexachloroethane	U	.10	3.0
989103	Nitrobenzene	U	.10	2.0
87683	Hexachlorobutadiene	U	.10	0.5
88062	2,4,6-Trichlorophenol	U	.10	2.0
9109104	2,4,5-Trichlorophenol	U	.50	400.0
121142	2,4-Dinitrotoluene	U	.10	0.13
118741	Hexachlorobenzene	U	.10	0.13
878610	Pentachlorophenol	U	.10	100.0

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
2-Fluorophenol	62 %	21 - 100	OK
Phenol-d5	54 %	10 - 94	OK
Nitrobenzene-d5	54 %	35 - 114	OK
2-Fluorobiphenyl	67 %	43 - 116	OK
2,4,6-Tribromophenol	103 %	10 - 123	OK
Terphenyl-d14	65 %	33 - 141	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Methylphenol = o-cresol
* 3-Methylphenol = m-cresol
* 4-Methylphenol = p-cresol

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied.

ACCREDITED LABORATORIES, INC.
TCLP SEMIVOLATILES ANALYSIS DATA

CASE NUMBER	8650	MATRIX	Leachate
SAMPLE NUMBER	0007617	DILUTION FACTOR	10
DATA FILE	>F1174	DATE EXTRACTED	07/07/00
CLIENT NAME	RC	DATE ANALYZED	07/07/00
FIELD ID	#6-10 COMP	ANALYZED BY	DANIEL

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
110861	Pyridine	U	.10	5.0
106467	1,4-Dichlorobenzene	U	.10	7.5
95478	2-Methylphenol	U	.10	200.0
108394	3&4-Methylphenol	U	.10	200.0
67721	Hexachloroethane	U	.10	3.0
989103	Nitrobenzene	U	.10	2.0
87683	Hexachlorobutadiene	U	.10	0.5
88062	2,4,6-Trichlorophenol	U	.10	2.0
9109104	2,4,5-Trichlorophenol	U	.50	400.0
121142	2,4-Dinitrotoluene	U	.10	0.13
118741	Hexachlorobenzene	U	.10	0.13
878610	Pentachlorophenol	U	.10	100.0

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
2-Fluorophenol	61 %	21 - 100	OK
Phenol-d5	57 %	10 - 94	OK
Nitrobenzene-d5	58 %	35 - 114	OK
2-Fluorobiphenyl	73 %	43 - 116	OK
2,4,6-Tribromophenol	112 %	10 - 123	OK
Terphenyl-d14	69 %	33 - 141	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Methylphenol = o-cresol
* 3-Methylphenol = m-cresol
* 4-Methylphenol = p-cresol

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied.

ACCREDITED LABORATORIES, INC
PESTICIDE/PCB ORGANIC ANALYSIS DATA

CASE NUMBER	8650	MATRIX	Soil
SAMPLE NUMBER	0007615	DILUTION FACTOR	1
DATA FILE	>A1895	DATE EXTRACTED	07/06/00
CLIENT NAME	RC	DATE ANALYZED	07/10/00
FIELD ID	#1-5 COMP	ANALYZED BY	CLIFF

CAS#	COMPOUND	UG/KG	MDL
319846	A-BHC	1.39	.750
319857	B-BHC	U	.750
58899	G-BHC (Lindane)	U	.750
319868	D-BHC	U	.750
76448	Heptachlor	U	.750
309002	Aldrin	U	.750
1024573	Heptachlor Epoxide	U	.750
959988	Endosulfan I	11.0	.750
5103719	A-Chlordane	8.14	.750
5103742	G-Chlordane	2.57	1.50
60571	Dieldrin	65.5	1.50
72559	4,4'-DDE	U	1.50
72208	Endrin	U	1.50
33213659	Endosulfan II	2.35	1.50
72548	4,4'-DDD	U	1.50
7421934	Endrin Aldehyde	2.22	1.50
1031078	Endosulfan Sulfate	185	1.50
50293	4,4'-DDT	U	1.50
53494705	Endrin Ketone	U	7.50
72435	Methoxychlor	U	37.5
8001352	Toxaphene	U	18.7
12674112	Aroclor-1016	U	18.7
11104282	Aroclor-1221	U	18.7
11141165	Aroclor-1232	166	18.7
53469219	Aroclor-1242	U	18.7
12672296	Aroclor-1248	U	18.7
11097691	Aroclor-1254	U	18.7
11096825	Aroclor-1260		

Percent Solid of 88.9 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC
PESTICIDE/PCB ORGANIC ANALYSIS DATA

CASE NUMBER	8650	MATRIX	Soil
SAMPLE NUMBER	0007617	DILUTION FACTOR	1
DATA FILE	>A1896	DATE EXTRACTED	07/06/00
CLIENT NAME	RC	DATE ANALYZED	07/10/00
FIELD ID	65-10 COMP	ANALYZED BY	CLIFF

CAS#	COMPOUND	UG/KG	MDL
319846	A-BHC	.887	.760
319857	B-BHC	U	.760
58899	G-BHC (Lindane)	U	.760
319868	D-BHC	U	.760
76448	Heptachlor	U	.760
309002	Aldrin	U	.760
1024573	Heptachlor Epoxide	U	.760
959988	Endosulfan I	U	.760
5103719	A-Chlordane	6.66	.760
5103742	G-Chlordane	6.21	.760
60571	Dieldrin	1.85	1.52
72559	4,4'-DDE	28.3	1.52
72208	Endrin	U	1.52
33213659	Endosulfan II	U	1.52
72548	4,4'-DDD	14.3	1.52
7421934	Endrin Aldehyde	U	1.52
1031078	Endosulfan Sulfate	U	1.52
50293	4,4'-DDT	66.9	1.52
53494705	Endrin Ketone	U	1.52
72435	Methoxychlor	U	7.60
8001352	Toxaphene	U	38.0
12674112	Aroclor-1016	U	19.0
11104282	Aroclor-1221	U	19.0
11141165	Aroclor-1232	U	19.0
53469219	Aroclor-1242	U	19.0
12672296	Aroclor-1248	U	19.0
11097691	Aroclor-1254	U	19.0
11096825	Aroclor-1260	U	19.0

Percent Solid of 87.7 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
TCLP PESTICIDES ANALYSIS DATA

CASE NUMBER	8650	MATRIX	Leachate
SAMPLE NUMBER	0007615	DILUTION FACTOR	50
DATA FILE	>A1878	DATE EXTRACTED	07/07/00
CLIENT NAME	RC	DATE ANALYZED	07/07/00
FIELD ID	#1-5 COMP	ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
58-89-9	G-BHC (Lindane)	U	.001	0.400
76-44-8	Heptachlor	U	.001	0.008
1024-57-3	Heptachlor Epoxide	U	.001	0.008
72-20-8	Endrin	U	.002	0.02
72-43-5	Methoxychlor	U	.010	10.0
5103-71-9	A-Chlordane	U	.001	0.03
5103-74-2	G-Chlordane	U	.001	0.03
8001-35-2	Toxaphene	U	.050	0.5

SURROGATE COMPOUNDS	RECOVERY	ADVISORY LIMITS	STATUS
DCB	108%	30 - 150	OK
Tetrachloro-m-xylene	84%	30 - 150	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

ACCREDITED LABORATORIES, INC.
TCLP PESTICIDES ANALYSIS DATA

CASE NUMBER	8650	MATRIX	Leachate
SAMPLE NUMBER	0007617	DILUTION FACTOR	50
DATA FILE	>A1879	DATE EXTRACTED	07/07/00
CLIENT NAME	RC	DATE ANALYZED	07/07/00
FIELD ID	#6-10 COMP	ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
58-89-9	G-BHC (Lindane)	U	.001	0.400
76-44-8	Heptachlor	U	.001	0.008
1024-57-3	Heptachlor Epoxide	U	.001	0.008
72-20-8	Endrin	U	.002	0.02
72-43-5	Methoxychlor	U	.010	10.0
5103-71-9	A-Chlordane	U	.001	0.03
5103-74-2	G-Chlordane	U	.001	0.03
8001-35-2	Toxaphene	U	.050	0.5

SURROGATE COMPOUNDS	RECOVERY	ADVISORY LIMITS	STATUS
DCB	108%	30 - 150	OK
Tetrachloro-m-xylene	81%	30 - 150	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

ACCREDITED LABORATORIES, INC
TCLP HERBICIDE ANALYSIS DATA

CASE NUMBER	8650	MATRIX	Leachate
SAMPLE NUMBER	0007615	DILUTION FACTOR	1
DATA FILE	>A1887	DATE EXTRACTED	07/07/00
CLIENT NAME	RC	DATE ANALYZED	07/08/00
FIELD ID	#1-5 COMP	ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
94757	2,4'-D	U	.100	10.0
93721	SILVEX	U	.010	1.0

U - Indicates compound was analyzed for but not detected

ACCREDITED LABORATORIES, INC
TCLP HERBICIDE ANALYSIS DATA

CASE NUMBER	8650	MATRIX	Leachate
SAMPLE NUMBER	0007617	DILUTION FACTOR	1
DATA FILE	>A1888	DATE EXTRACTED	07/07/00
CLIENT NAME	RC	DATE ANALYZED	07/08/00
FIELD ID	#6-10 COMP	ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
94757	2,4'-D	U	.100	10.0
93721	SILVEX	U	.010	1.0

U - Indicates compound was analyzed for but not detected

ACCREDITED LABORATORIES, INC.
INORGANIC ANALYSIS DATA SHEET

Case #: 8650
Sample #: 0007615
Field ID: #1-5 COMP
Client Name: RC

Matrix: Soil
Date Received: 07/06/00

CAS No.	Element	Result MG/KG	MDL MG/KG	Dilution Factor	Method	Date Analyzed
7440-36-0	Antimony	ND	7.21	1	P	07/07/00
7440-38-2	Arsenic	5.75	1.44	4	F	07/07/00
7440-39-3	Barium	90.8	2.16	1	P	07/07/00
7440-41-7	Beryllium	1.07	.361	1	P	07/07/00
7440-43-9	Cadmium	1.82	.721	1	P	07/07/00
7440-47-3	Chromium	12.3	2.16	1	P	07/07/00
7440-50-8	Copper	19.9	2.16	1	P	07/07/00
7439-92-1	Lead	77.9	14.4	1	P	07/07/00
7439-97-6	Mercury	.418	.225	1	CV	07/10/00
7440-02-0	Nickel	17.7	2.88	1	P	07/07/00
7782-49-2	Selenium	ND	1.80	5	F	07/10/00
7440-22-4	Silver	.822	.721	1	P	07/07/00
7440-28-0	Thallium	ND	1.80	5	F	07/10/00
7440-62-2	Vanadium	24.1	3.61	1	P	07/07/00
7440-66-6	Zinc	81.5	7.21	1	P	07/07/00

Percent Solid of 88.9 is used for all target elements

ND - Element analyzed for but not detected.
P - Analyzed by ICP
CV - Analyzed by Cold Vapor
F - Analyzed by GFA
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
INORGANIC ANALYSIS DATA SHEET

Case #: 8650
Sample #: 0007617
Field ID: #6-10 COMP
Client Name: RC

Matrix: Soil
Date Received: 07/06/00

CAS No.	Element	Result MG/KG	MDL MG/KG	Dilution Factor	Method	Date Analyzed
7440-36-0	Antimony	ND	7.36	1	P	07/07/00
7440-38-2	Arsenic	4.32	1.48	4	F	07/07/00
7440-39-3	Barium	123	2.21	1	P	07/07/00
7440-41-7	Beryllium	1.28	.368	1	P	07/07/00
7440-43-9	Cadmium	1.72	.736	1	P	07/07/00
7440-47-3	Chromium	12.7	2.21	1	P	07/07/00
7440-50-8	Copper	18.3	2.21	1	P	07/07/00
7439-92-1	Lead	60.0	14.7	1	P	07/07/00
7439-97-6	Mercury	.680	.228	1	CV	07/10/00
7440-02-0	Nickel	14.2	2.96	1	P	07/07/00
7782-49-2	Selenium	ND	1.85	5	F	07/10/00
7440-22-4	Silver	ND	.736	1	P	07/07/00
7440-28-0	Thallium	ND	1.85	5	F	07/10/00
7440-62-2	Vanadium	22.4	3.68	1	P	07/07/00
7440-66-6	Zinc	73.0	7.36	1	P	07/07/00

Percent Solid of 87.7 is used for all target elements

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
REGULATED TCLP METALS
INORGANIC ANALYSIS DATA SHEET

Case #: P65C
Sample #: 0007615
Field ID: #1-5 COMP
Client Name: RC

Matrix: Leachate
Date Received: 07/06/00

CAS No.	Element	Result MG/L	MDL MG/L	Dilution Factor	Regulatory Level	Method	Date Analyzed
7440-38-2	Arsenic	ND	1.00	1	5.00	P	07/07/00
7440-39-3	Barium	.718	.500	1	100.00	P	07/07/00
7440-43-9	Cadmium	ND	.100	1	1.00	P	07/07/00
7440-47-3	Chromium	ND	.100	1	5.00	P	07/07/00
7439-92-1	Lead	ND	1.00	1	5.00	P	07/07/00
7439-97-6	Mercury	ND	.002	2	.20	CV	07/10/00
7782-49-2	Selenium	ND	.500	1	1.00	P	07/07/00
7440-22-4	Silver	ND	.100	1	5.00	P	07/07/00

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
REGULATED TCLP METALS
INORGANIC ANALYSIS DATA SHEET

Case #: 8650
Sample #: 0007617
Field ID: #6-10 COMP
Client Name: RC

Matrix: Leachate
Date Received: 07/06/00

CAS No.	Element	Result MG/L	MDL MG/L	Dilution Factor	Regulatory Level	Method	Date Analyzed
7440-38-2	Arsenic	ND	1.00	1	5.00	P	07/07/00
7440-39-3	Barium	1.04	.500	1	100.00	P	07/07/00
7440-43-9	Cadmium	ND	.100	1	1.00	P	07/07/00
7440-47-3	Chromium	ND	.100	1	5.00	P	07/07/00
7439-92-1	Lead	ND	1.00	1	5.00	P	07/07/00
7439-97-6	Mercury	ND	.002	2	.20	CV	07/10/00
7782-49-2	Selenium	ND	.500	1	1.00	P	07/07/00
7440-22-4	Silver	ND	.100	1	5.00	P	07/07/00

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
GENERAL CHEMISTRY ANALYSIS DATA

Case #: 8650
Sample #: 0007615
Client Name: RC
Field Number: #1-5 COMP

Matrix: Soil
Date Received: 07/06/00
% Moisture: 11.1

ANALYTES	RESULTS	MDL	UNITS	DILUTION FACTOR	METHOD BLANK RESULTS	METHOD BLANK MDL	ANALYSIS DATE
Solids, Percent	88.9	0.10	%	1.			07/07/00
Cyanide, Total	1.42	0.83	mg/Kg	1.	ND	0.01	07/06/00
Chromium, Trivalent	12.0	2.16	mg/Kg	1.	ND	ND	07/07/00
Chromium, Hexavalent	ND	2.25	mg/Kg	1.	ND	0.05	07/07/00
Carbon, Total Organic	686C.	116.	mg/Kg	1.	ND	100.	07/11/00

ACCREDITED LABORATORIES, INC.
GENERAL CHEMISTRY ANALYSIS DATA

Case #: 8650
Sample #: 0007617
Client Name: RC
Field Number: #6-10 COMP

Matrix: Soil
Date Received: 07/06/00
% Moisture: 12.3

ANALYTES	RESULTS	MDL	UNITS	DILUTION FACTOR	METHOD BLANK RESULTS	METHOD BLANK MDL	ANALYSIS DATE
Solids, Percent	87.7	0.10	%	1.			07/07/00
Cyanide, Total	1.51	0.91	mg/Kg	1.	ND	0.01	07/06/00
Chromium, Trivalent	12.7	2.21	mg/Kg	1.	ND	ND	07/07/00
Chromium, Hexavalent	ND	2.27	mg/Kg	1.	ND	0.05	07/07/00
Carbon, Total Organic	12200.	115.	mg/Kg	1.	ND	100.	07/11/00

Accredited Laboratories, Inc.
Total Petroleum Hydrocarbon Analysis

Client: RC
Case #: 8650
Analyst: RB

Matrix: Soil
Date Received: 07/06/00
Date Analyzed: 07/06/00

Field #	Sample #	Amount Used (g)	% S	DF	ABS	Result mg/Kg	MDL mg/Kg
#1-5 COMP	0007615	30.66	88.9	1	61	307	22
#6-10 COMP	0007617	30.16	87.7	10	17	882	23

Response Factor = .13725395

% S = Percent Solids
DF = Dilution Factor
ABS = Absorbance

Method Blank: < 20 mg/Kg

Invoice

OENJ Cherokee Corporation

61 North Hook Road
Bayonne, NJ 07002
Contact: Danielle Fiorina 201-377-9323

DATE	INVOICE #
7/11/00	543

BILL TO
Dansan Companies Inc. Susan Steidl 67 Newark Pompton Tpke. Pequannock, NJ 07440

P.C. NO.	TERMS
	30 Days

ITEM	QUANTITY	DESCRIPTION	RATE	AMOUNT
MXS-Newark	587	W/E 07/09/00	25.00	14,675.00

Please make check payable to OENJ Cherokee Corporation

Total $14,675.00

		Per	Total Yards	Total Del	Total Tons	CF Yards	CF Del
		YTD	19,410	1,294	0.00	19,410	1,294
S	1		0	0	0.00		
S	2		0	0	0.00		
		W/E	0	0	0.00	0	0
M	3		0	0	0.00		
T	4		0	0	0.00		
W	5		3,015	201	0.00	3,015	201
T	6		2,325	155	0.00	2,325	155
F	7		3,465	231	0.00	3,465	231
S	8		0	0	0.00		
S	9		0	0	0.00		
		W/E	8,805	587	0.00	8,805	587
M	10		0	0	0.00		
T	11		0	0	0.00		
W	12		0	0	0.00		
T	13		0	0	0.00		
F	14		0	0	0.00		
S	15		0	0	0.00		
S	16		0	0	0.00		
		W/E	0	0	0.00	0	0
M	17		0	0	0.00		
T	18		0	0	0.00		
W	19		0	0	0.00		
T	20		0	0	0.00		
F	21		0	0	0.00		
S	22		0	0	0.00		
S	23		0	0	0.00		
		W/E	0	0	0.00	0	0
M	24		0	0	0.00		
T	25		0	0	0.00		
W	26		0	0	0.00		
T	27		0	0	0.00		
F	28		0	0	0.00		
S	29		0	0	0.00		
S	30		0	0	0.00		
M	31		0	0	0.00		
		W/E	0	0	0.00	0	0
		JUL	8,805	587	0.00	8,805	587
		YTD	28,215	1,881	0.00	28,215	1,881

Dansan

/00

DENJ Cherokee Corporation
Vendor Balance Detail
All Transactions

Type	Date	Num	Account	Amount	Balance
Rebco Contracting Corp.-Dansan					
Bill	6/26/00	#528	Accounts Payable	4,100.00	4,100.00
Bill	6/30/00	#530	Accounts Payable	8,840.00	12,940.00
Bill	7/11/00	#543	Accounts Payable	5,870.00	18,810.00
Total Rebco Contracting Corp.-Dansan				18,810.00	18,810.00
TOTAL				**18,810.00**	**18,810.00**

ACCREDITED LABORATORIES, INC.

Implementing Tomorrow's Technology, Today™...

Analytical Data Report

for

Rebco Contracting
P.o. Box 4238
Clifton, NJ 07012

Project: G M Plant

Accredited Laboratories Case No.: 9131
Date Received: 08/18/00

Field ID	Laboratory Sample #
SOIL PILE	200010002

Accredited Laboratories, Inc. New Jersey Certification Number 12007. This data has been reviewed and accepted by:

Theodore C. Gaydos
Technical Director

(732) 541-2025

CORPORATE OFFICES
20 Pershing Avenue
Carteret, New Jersey 07008

FAX (732) 541-1383

Printed on RECYCLED paper made with 20% post consumer waste

ACCREDITED LABORATORIES, INC.
20 PERSHING AVENUE
CARTERET, NEW JERSEY 07008
PHONE: (732) 541-2025 / (800) ALI-LABS

CHAIN OF CUSTODY FORM

PAGE 1 OF 1

CLIENT	REBCO CONTRACTING		
ADDRESS	P.O. BOX 4238		
CITY	CLIFTON		
STATE	NJ	ZIP	07012

PROJECT	G.M. PLANT
CONTACT	JEFF STEELE
PHONE	
FAX	

ALI SAMPLE #	FIELD ID	*C	**M	DATE / TIME SAMPLED	SAMPLE DESCRIPTION	ANALYSIS
0010002		3	S	8/18/00 12:45	SOIL PILE	PPMEVO, TCLP VOA, FULL TCLP w/o VO PRIORITY POLLUTANTS w/o VO, TOC, TPHC, CR^6, CR^3, Ba, Va
		1	S	12:45	SOIL PILE	COMP, GRAD, VOID

**M = MATRIX A=AQUEOUS S=SOIL G=SLUDGE P=POTABLE WATER O=OIL F=FILTER K=SOLID X=OTHER

*C = NO. CONTAINERS TURNAROUND: Std (If Blank, Std. 3 weeks)

DELIVERABLES (circle one) STD REDUCED FULL NY-ASP CLP I CLP II

RELINQUISHED BY: PRINT	SIGN	RECEIVED BY: PRINT	SIGN	ORGANIZATION	DATE	TIME	REASON
K Roberts	Keith Roberts	[signature]	[signature]	ALI	8/18/00	1730	Analysis

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING. PRINT: K. Roberts SIGN: Keith Roberts

COMMENTS	
	Cooler Temp: 4°C

ALI QUOTE#	31
ALI CASE#	91[illegible]
P.O.#	

Appendix A

Recyclable Material
Certification and Approval Form
OENJ, Bayonne Site

Part I - Source Information

1. Name of Source Owner _____

2. Address of Source _____

3 Location of Recyclable Materials

Street Address _____
City/ State/ Zip _____

4. Registration No. (if an approved materials recovery/recycling facility):

_____

5. Type of Material _____

6. Quantity of Material covered in this request _____

7. Analytic Results submitted with this Request

Parameters	Tested Date	No. of Analyses	No. of samples (Composited)
PP VO	8-18-00	1	-
TCLPVOA	" "	1	-
BNA, CN	" "	1	-
CB3, CB6,			
Metals, Pest/PCB			

SOM, TOC, TPHC
TCLPBNA, TCLPHET
TCLPPest, TCLPHerb
Compaction, Gradation
Void, Volume

Appendix A (continued)

Part I (Cont.)

13. A. Name and Address of Independent Sampler (if applicable, not required for source Separate masonry materials (brick, block, concrete and glass) or asphalt)

B. Credentials held by Independent Sampler (if applicable)

14. Certification of Sampler (if applicable)*

As an independent professional I certify that the samples obtained as described in 1 - 12 herein were obtained in accordance with NJDEP sampling requirements (N.J.A.C. 7:26 E-2) and that sample collection has been performed in accordance with the Field Sampling Procedures Manual NJDEP, May 1992 except as noted in item ten above.

Keith Roberts 8-19-01
Signature of Sampler

15. Certification of Source Owner

As owner of the above described recyclable material, I warrant that to the best of my knowledge the material is recyclable and consists only of those items described in item 5 above and has been sampled and analyzed in accordance with N.J.A.C. 7:26 E-2.1 and that sample collection has been performed in accordance with the Field Sampling Procedure Manual, NJDEP, May 1992 except as noted in item 10 above.

Signature of Owner

Owner's Name (Print in Full)

METHODOLOGY SUMMARY

Volatile Organics - EPA 8260 (soil) - Methanol Preservation

A portion of methanol extract is spiked into a purging vessel and purged by an inert gas. The vapor is swept through a sorbent column where the purgeables are trapped. After purging is completed, the sorbent column is heated and back-flushed with the inert gas to desorb the purgeables onto a GC column. The GC is temperature programmed to separate the purgeables which are then detected with a mass spectrometer.

Base-Neutral/Acid Extractables - EPA 8270 (soil)

A 30 gram portion of soil is mixed with anhydrous sodium sulfate and is extracted with 1:1 methylene chloride and acetone. The methylene chloride extract is dried and concentrated and a measured amount is injected onto a GC and the analytes are detected with a mass spectrometer.

Total Cyanide - SW 846, 9010 (solid)

A representative portion of sample is weighed and placed into a cyanide distillation apparatus. The cyanide as hydrocyanic acid is released from cyanide complexes by means of a reflux-distillation operation and absorbed in a scrubber containing sodium hydroxide solution. The cyanide ion in the absorbing solution is then determined colorimetrically according to EPA "Test Methods for Evaluating Solid Wastes", SW 846.

Pesticides/PCB's - EPA 8081/8082 (soil/solid)

A 30 gram portion of solid is mixed with anhydrous sodium sulfate and is extracted with 1:1 methylene chloride and acetone using sonication technique. The extract is separated from the sample by either centrifugation or filtration. The extract is then solvent-exchanged to hexane in a K-D concentrator to a final volume of 10 ml. The extract is injected into a gas chromatograph and the compounds in the GC effluent are detected by an electron capture detector.

Metals (soil)

A 1-5 gram portion of soil is digested with nitric acid and hydrogen peroxide. The digestate is then refluxed with either nitric acid or hydrochloric acid. Diluted hydrochloric acid is used as the final reflux acid for the flame AA or ICAP of Ag, Al, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Ni, Sb, Sn, Tl and Zn. Diluted nitric acid is employed as the final dilution acid for the furnace AA analysis of As, Pb and Se. For the graphite furnace analysis, an aliquot of the digestate is spiked with nickel nitrate solution and is placed into the graphite furnace. The aliquot is then slowly evaporated to dryness, charred and atomized. The absorption

of the EDL radiation during atomization is proportional to the element concentration. For the flame AA, the digestate is aspirated and atomized in a flame. The absorption of the HCL radiation during atomization is proportional to the element concentration. The basis of ICAP method is the measurement of atomic emission by an optical spectroscope technique. The emission spectra are dispersed by a grating spectrometer and the intensities of the line are measured and processed by a computer system. For mercury analysis, a 0.5-1.0 gram portion of sample is digested with potassium permanganate and persulfate at acidic condition in a water bath at 95°C. The mercury in the sample is reduced to the elemental state and detected by the cold vapor technique in a closed system. The analytical procedures are derived from "EPA Methods for Evaluating Solid Waste, 3rd Edition, 1986" The AA technique is specified in Method 7000 series. The ICAP technique is specified in Method 6010.

Petroleum Hydrocarbons - Modified EPA 418.1 (soil)

A 30 gram portion of soil is extracted with fluorocarbon 113. Interferences are removed with silica gel adsorbent. Infrared analysis of the extract is performed by direct comparison with standards.

Total Organic Carbon - Modified EPA 415.1 - Furnace Technique

A 1-2 gm of sample is combusted in a 900°C tube furnace. The combustion gas (CO2) is collected through the carbon train apparatus. The CO2 content is analyzed by the TOC analyzer.

Chromium, Trivalent

The concentration of trivalent chromium in the sample is determined from the difference between the total chromium in the sample and the hexavalent chromium in the sample.

Chromium Hexavalent (solid)

*Extraction Procedure - SW846 2nd edition 3060, NJDEPE Modified
*Analytical Procedure - SW846 3rd edition 7196, NJDEPE Modified

The hexavalent chromium in the solid sample is extracted with hot, 3% sodium carbonate-2% sodium hydroxide solution. The concentration of hexavalent chromium in the extract, in the absence of interfering substances such as molybdenum, vanadium, and mercury is determined colorimetrically at 540 nm by reaction with diphenylcarbazide in acid solution.

Toxic Characteristic Leaching Procedure - TCLP (EPA Method 1311)

Before the leaching procedure can be initiated, the information regarding the wet % and dry % solid of the solid sample as well as the utilization of extraction fluid, either #1 or #2, must be determined.

For Volatile Analysis, a special extractor called Zero Headspace Extractor (ZHE) must be used to generate the TCLP leachate. A maximum of 25 grams of sample is placed in the vessel as the liquid portion is pressed out and saved. A 20X of extraction fluid #1 is charged into the vessel. After 18 +/- 2 hours rotation at 30 +/- 2 rpm, the liquid is pressed out of the vessel. The leachate from ZHE is combined with the initial liquid portion, if any. This is referred as TCLP Leachate. The contaminants in the leachate is determined by EPA Method 8260.

For Non-Volatile Analysis, a minimum of 100 grams is filtered through 0.6 to 0.8 um glass fiber filter. The filtrate, if any, is saved. A 20X of extracted fluid, either #1 or #2, is charged in the glass extraction bottle and then rotated at 30 +/- 2 rpm for 18 +/- 2 hours. After rotation, the sample is filtered through 0.6 to 0.8 um glass fiber filter. The filtrate is combined with the initial liquid, if any. This is referred as TCLP Leachate. The contaminants of Base Neutrals/Acids (BNA), pesticides and herbicides in the leachate are determined by EPA Method 8270, EPA Method 8081 and 8150 respectively.

For the Metal Analysis, a minimum of 100 grams is filtered through 0.6 to 0.8 um glass fiber filter. The filtrate, if any, is saved. A 20X of extracted fluid, either #1 or #2, is charged in the glass or plastic extraction bottle and then rotated at 30 +/- rpm for 18 +/- 2 hours. After rotation, the sample is filtered through 0.6 to 0.8 um glass fiber filter. The filtrate is combined with the initial liquid, if any. This is referred as TCLP Leachate. The contaminants of Metals in the leachate is determined by EPA Method 7471 for mercury, Method 7060 for arsenic, Method 7740 for selenium and Method 6010 (ICAP) and/or Method 7000's (Flame-AA) for the rest of metals.

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9131	MATRIX	Soil
SAMPLE NUMBER	0010002	DILUTION FACTOR	119
DATA FILE	>C2249	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	08/25/00
FIELD ID	SOIL PILE	ANALYZED BY	WILLIAM

CAS #	COMPOUND	UG/KG		MDL
107028	Acrolein	U		3400
107131	Acrylonitrile	U		3400
67641	Acetone	730		680
74873	Chloromethane	U		680
74839	Bromomethane	U		680
75014	Vinyl Chloride	U		680
75003	Chloroethane	U		680
75092	Methylene Chloride	1700	B	680
75694	Trichlorofluoromethane	U		680
75354	1,1-Dichloroethene	U		680
75343	1,1-Dichloroethane	U		680
156605	trans-1,2-Dichloroethene	U		680
156592	cis-1,2-dichloroethene	U		680
67663	Chloroform	U		680
107062	1,2-Dichloroethane	U		680
71556	1,1,1-Trichloroethane	U		680
56235	Carbon Tetrachloride	U		680
75274	Bromodichloromethane	U		680
78875	1,2-Dichloropropane	U		680

CAS #	COMPOUND	UG/KG	MDL
10061015	cis-1,3-Dichloropropene	U	680
79016	Trichloroethene	U	680
71432	Benzene	U	680
124481	Dibromochloromethane	U	680
79005	1,1,2-Trichloroethane	U	680
10061026	trans-1,3-Dichloropropene	U	680
110758	2-Chloroethylvinylether	U	680
75252	Bromoform	U	680
108101	4-Methyl-2-pentanone	U	1400
127184	Tetrachloroethene	U	680
79345	1,1,2,2-Tetrachloroethane	U	680
108883	Toluene	U	680
108907	Chlorobenzene	U	680
100414	Ethylbenzene	U	680
1330207	m,p-Xylene	U	1400
100425	Styrene	U	680
95476	o-Xylene	U	680
630206	1,1,1,2-Tetrachloroethane	U	680

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	89 %	70-121	OK
Toluene-d8	97 %	81-117	OK
Bromofluorobenzene	107 %	74-121	OK

Percent solid of 87.8 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
D - Indicates result is based on a dilution.
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	VBLKC77	DILUTION FACTOR	125
DATA FILE	>C2237	DATE EXTRACTED	
CLIENT NAME		DATE ANALYZED	08/25/00
FIELD ID		ANALYZED BY	WILLIAM

CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	3100
107131	Acrylonitrile	U	3100
67641	Acetone	U	630
74873	Chloromethane	U	630
74839	Bromomethane	U	630
75014	Vinyl Chloride	U	630
75003	Chloroethane	U	630
75092	Methylene Chloride	1700	630
75694	Trichlorofluoromethane	U	630
75354	1,1-Dichloroethene	U	630
75343	1,1-Dichloroethane	U	630
156605	trans-1,2-Dichloroethene	U	630
156592	cis-1,2-dichloroethene	U	630
67663	Chloroform	U	630
107062	1,2-Dichloroethane	U	630
71556	1,1,1-Trichloroethane	U	630
56235	Carbon Tetrachloride	U	630
75274	Bromodichloromethane	U	630
[illegible]75	1,2-Dichloropropane	U	630
10061015	cis-1,3-Dichloropropene	U	630
79016	Trichloroethene	U	630
71432	Benzene	U	630
124481	Dibromochloromethane	U	630
79005	1,1,2-Trichloroethane	U	630
10061026	trans-1,3-Dichloropropene	U	630
110758	2-Chloroethylvinylether	U	630
75252	Bromoform	U	630
108101	4-Methyl-2-pentanone	U	1300
127184	Tetrachloroethene	U	630
79345	1,1,2,2-Tetrachloroethane	U	630
108883	Toluene	U	630
108907	Chlorobenzene	U	630
100414	Ethylbenzene	U	630
1330207	m,p-Xylene	U	1300
100425	Styrene	U	630
95476	o-Xylene	U	630
630206	1,1,1,2-Tetrachloroethane	U	630

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	98 %	70-121	OK
Toluene-d8	98 %	81-117	OK
Bromofluorobenzene	108 %	74-121	OK

Percent solid of 100 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
D - Indicates result is based on a dilution.
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER	9131	MATRIX	Leachate
SAMPLE NUMBER	0010002	DILUTION FACTOR	10
DATA FILE	>A7728	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	08/28/00
FIELD ID	SOIL PILE	ANALYZED BY	ROBERT

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.050	0.5
78933	2 Butanone*	U	.100	200.0
56235	Carbon Tetrachloride	U	.050	0.5
108907	Chlorobenzene	U	.050	100.0
67663	Chloroform	U	.050	6.0
75354	1,1-Dichloroethene	U	.050	0.7
107062	1,2-Dichloroethane	U	.050	0.5
127184	Tetrachloroethene	U	.050	0.7
79016	Trichloroethene	U	.050	0.5
75014	Vinyl Chloride	U	.100	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2 Dichloroethane-d4	97 %	76 - 114	OK
Toluene-d8	106 %	88 - 110	OK
Bromofluorobenzene	95 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2 Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER		MATRIX	Leachate
SAMPLE NUMBER	V8LK01A	DILUTION FACTOR	1
DATA FILE	>A2724	DATE EXTRACTED	
CLIENT NAME		DATE ANALYZED	08/28/00
FIELD ID		ANALYZED BY	ROBERT

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.005	0.5
78933	2 Butanone	U	.010	200.0
56235	Carbon Tetrachloride	U	.005	0.5
108907	Chlorobenzene	U	.005	100.0
67663	Chloroform	U	.005	6.0
75354	1,1 Dichloroethene	U	.005	0.7
107062	1,2-Dichloroethane	U	.005	0.5
127184	Tetrachloroethene	U	.005	0.7
79016	Trichloroethene	U	.005	0.5
75014	Vinyl Chloride	U	.010	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2 Dichloroethane-d4	91 %	76 - 114	OK
Toluene-d8	106 %	88 - 110	OK
Bromofluorobenzene	91 %	86 - 115	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2 Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSIS DATA

CASE NUMBER	9131	MATRIX	Soil
SAMPLE NUMBER	0010002	DILUTION FACTOR	1.0
DATA FILE	>F1542	DATE EXTRACTED	08/26/00
CLIENT NAME	RC	DATE ANALYZED	08/28/00
FIELD ID	SOIL PILE	ANALYZED BY	DANIEL

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
83329	Acenaphthene	58 J	380	51285	2,4-Dinitrophenol	U	380
208968	Acenaphthylene	U	380	121142	2,4-Dinitrotoluene	U	380
120127	Anthracene	100 J	380	606202	2,6-Dinitrotoluene	U	380
56553	Benzo(a)Anthracene	290 J	380	117840	Di-n-octyl phthalate	U	380
50328	Benzo(a)Pyrene	270 J	380	206440	Fluoranthene	730	380
205992	Benzo(b)fluoranthene	300 J	380	86737	Fluorene	54 J	380
191242	Benzo(g,h,i)Perylene	150 J	380	118741	Hexachlorobenzene	U	380
207089	Benzo(k)Fluoranthene	180 J	380	87683	Hexachlorobutadiene	U	380
65850	Benzoic Acid	U	1900	77474	Hexachlorocyclopentadiene	U	380
100516	Benzyl Alcohol	U	380	67721	Hexachloroethane	U	380
111444	bis(-2-Chloroethyl)Ether	U	380	193395	Indeno(1,2,3-cd)Pyrene	160 J	380
108601	bis(2-Chloroisopropyl)ether	U	380	78591	Isophorone	U	380
117817	Bis(2-Ethylhexyl)Phthalate	U	380	91576	2-Methylnaphthalene	U	380
111911	bis(-2-Chloroethoxy)Methane	U	380	95487	2-Methylphenol	U	380
101553	4-Bromophenyl-phenylether	U	380	108394	3&4-Methylphenol	U	380
85687	Butylbenzylphthalate	U	380	91203	Naphthalene	54 J	380
106478	4-Chloroaniline	U	380	88744	2-Nitroaniline	U	380
91587	2-Chloronaphthalene	U	380	99092	3-Nitroaniline	U	380
59507	4-Chloro-3-methylphenol	U	380	100016	4-Nitroaniline	U	[illegible]
95578	2-Chlorophenol	U	380	98953	Nitrobenzene	U	[illegible]
7005723	4-Chlorophenyl-phenylether	U	380	88755	2-Nitrophenol	U	380
218019	Chrysene	290 J	380	100027	4-Nitrophenol	U	380
53703	Dibenzo(a,h)Anthracene	88 J	380	62759	N-Nitrosodimethylamine	U	380
132649	Dibenzofuran	U	380	86306	N-Nitrosodiphenylamine	U	380
95501	1,2-Dichlorobenzene	U	380	621647	N-Nitroso-Di-n-propylamine	U	380
541731	1,3-Dichlorobenzene	U	380	87865	Pentachlorophenol	U	380
106467	1,4-Dichlorobenzene	U	380	85018	Phenanthrene	310 J	380
91941	3,3'-Dichlorobenzidine	U	380	108952	Phenol	U	380
120832	2,4-Dichlorophenol	U	380	129000	Pyrene	480	380
84662	Diethylphthalate	U	380	120821	1,2,4-Trichlorobenzene	U	380
105679	2,4-Dimethylphenol	U	380	95954	2,4,5-Trichlorophenol	U	380
131113	Dimethyl Phthalate	U	380	88062	2,4,6-Trichlorophenol	U	380
84742	Di-n-Butylphthalate	U	380	92875	Benzidine	U	380
534521	4,6-Dinitro-2-methylphenol	U	380	122667	1,2-Diphenylhydrazine	U	380

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	73 %	23-120	OK
2-Fluorobiphenyl	68 %	30-115	OK
Terphenyl-d14	64 %	18-137	OK
Phenol-d5	72 %	24-113	OK
2-Fluorophenol	70 %	25-121	OK
2,4,6-Tribromophenol	75 %	19-122	OK

Percent solid of 87.8 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
I - Results exceed industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Concentration exceeds highest calibration standard.
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	SBLK60	DILUTION FACTOR	1.0
[redacted]A FILE	>F1608	DATE EXTRACTED	08/26/00
[redacted]LIENT NAME		DATE ANALYZED	09/01/00
FIELD ID		ANALYZED BY	JANICE

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
83329	Acenaphthene	U	330	51285	2,4-Dinitrophenol	U	330
208968	Acenaphthylene	U	330	121142	2,4-Dinitrotoluene	U	330
120127	Anthracene	U	330	606202	2,6-Dinitrotoluene	U	330
56553	Benzo(a)Anthracene	U	330	117840	Di-n-octyl phthalate	U	330
50328	Benzo(a)Pyrene	U	330	206440	Fluoranthene	U	330
205992	Benzo(b)fluoranthene	U	330	86737	Fluorene	U	330
191242	Benzo(g,h,i)Perylene	U	330	118741	Hexachlorobenzene	U	330
207089	Benzo(k)Fluoranthene	U	330	87683	Hexachlorobutadiene	U	330
65850	Benzoic Acid	U	1700	77474	Hexachlorocyclopentadiene	U	330
100516	Benzyl Alcohol	U	330	67721	Hexachloroethane	U	330
111444	bis(-2-Chloroethyl)Ether	U	330	193395	Indeno(1,2,3-cd)Pyrene	U	330
108601	bis(2-Chloroisopropyl)ether	U	330	78591	Isophorone	U	330
117817	Bis(2-Ethylhexyl)Phthalate	U	330	91576	2-Methylnaphthalene	U	330
111911	bis(-2-Chloroethoxy)Methane	U	330	95487	2-Methylphenol	U	330
101553	4-Bromophenyl-phenylether	U	330	108394	3&4-Methylphenol	U	330
85687	Butylbenzylphthalate	U	330	91203	Naphthalene	U	330
106478	4-Chloroaniline	U	330	88744	2-Nitroaniline	U	330
91587	2-Chloronaphthalene	U	330	99092	3-Nitroaniline	U	330
59507	4-Chloro-3-methylphenol	U	330	100016	4-Nitroaniline	U	330
[redacted]78	2-Chlorophenol	U	330	98953	Nitrobenzene	U	330
[redacted]5723	4-Chlorophenyl-phenylether	U	330	88755	2-Nitrophenol	U	330
218019	Chrysene	U	330	100027	4-Nitrophenol	U	330
53703	Dibenzo(a,h)Anthracene	U	330	62759	N-Nitrosodimethylamine	U	330
132649	Dibenzofuran	U	330	86306	N-Nitrosodiphenylamine	U	330
95501	1,2-Dichlorobenzene	U	330	621647	N-Nitroso-Di-n-propylamine	U	330
541731	1,3-Dichlorobenzene	U	330	87865	Pentachlorophenol	U	330
106467	1,4-Dichlorobenzene	U	330	85018	Phenanthrene	U	330
91941	3,3'-Dichlorobenzidine	U	330	108952	Phenol	U	330
120832	2,4-Dichlorophenol	U	330	129000	Pyrene	U	330
84662	Diethylphthalate	U	330	120821	1,2,4-Trichlorobenzene	U	330
105679	2,4-Dimethylphenol	U	330	95954	2,4,5-Trichlorophenol	U	330
131113	Dimethyl Phthalate	U	330	88062	2,4,6-Trichlorophenol	U	330
84742	Di-n-Butylphthalate	U	330	92875	Benzidine	U	330
534521	4,6-Dinitro-2-methylphenol	U	330	122667	1,2-Diphenylhydrazine	U	330

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	66 %	23-120	OK
2-Fluorobiphenyl	65 %	30-115	OK
Terphenyl-d14	55 %	18-137	OK
Phenol-d5	74 %	24-113	OK
2-Fluorophenol	60 %	25-121	OK
2,4,6-Tribromophenol	74 %	19-122	OK

Percent solid or 100 is used for all target compounds.

[redacted] - Indicates compound concentration found below MDL.
- Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution
I - Results exceed industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Concentration exceeds highest calibration standard.
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

ACCREDITED LABORATORIES, INC.
TCLP SEMIVOLATILES ANALYSIS DATA

CASE NUMBER	9131	MATRIX	Leachate
SAMPLE NUMBER	0010002	DILUTION FACTOR	10
DATA FILE	>F1540	DATE EXTRACTED	08/25/00
CLIENT NAME	RC	DATE ANALYZED	08/28/00
FIELD ID	SOIL PILE	ANALYZED BY	DANIEL

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
110861	Pyridine	U	.10	5.0
106467	1,4-Dichlorobenzene	U	.10	7.5
95478	2-Methylphenol	U	.10	200.0
108394	3&4-Methylphenol	U	.10	200.0
67721	Hexachloroethane	U	.10	3.0
989103	Nitrobenzene	U	.10	2.0
87683	Hexachlorobutadiene	U	.10	0.5
88062	2,4,6-Trichlorophenol	U	.10	2.0
9109104	2,4,5-Trichlorophenol	U	.50	400.0
121142	2,4-Dinitrotoluene	U	.10	0.13
118741	Hexachlorobenzene	U	.10	0.13
878610	Pentachlorophenol	U	.10	100.0

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
2-Fluorophenol	71 %	21 - 100	OK
Phenol-d5	72 %	10 - 94	OK
Nitrobenzene-d5	82 %	35 - 114	OK
2-Fluorobiphenyl	75 %	43 - 116	OK
2,4,6-Tribromophenol	72 %	10 - 123	OK
Terphenyl-d14	61 %	33 - 141	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Methylphenol = o-cresol
* 3-Methylphenol = m-cresol
* 4-Methylphenol = p-cresol

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied.

ACCREDITED LABORATORIES, INC.
TCLP SEMIVOLATILES ANALYSIS DATA

CASE NUMBER		MATRIX	Leachate
SAMPLE NUMBER	SBLK61	DILUTION FACTOR	10
DATA FILE	>F1607	DATE EXTRACTED	08/25/00
CLIENT NAME		DATE ANALYZED	09/01/00
FIELD ID		ANALYZED BY	JANICE

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
110861	Pyridine	U	.10	5.0
106467	1,4-Dichlorobenzene	U	.10	7.5
95478	2-Methylphenol	U	.10	200.0
108394	3&4-Methylphenol	U	.10	200.0
67721	Hexachloroethane	U	.10	3.0
989103	Nitrobenzene	U	.10	2.0
87683	Hexachlorobutadiene	U	.10	0.5
88062	2,4,6-Trichlorophenol	U	.10	2.0
9109104	2,4,5-Trichlorophenol	U	.50	400.0
121142	2,4-Dinitrotoluene	U	.10	0.13
118741	Hexachlorobenzene	U	.10	0.13
878610	Pentachlorophenol	U	.10	100.0

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
2-Fluorophenol	60 %	21 - 100	OK
Phenol-d5	58 %	10 - 94	OK
Nitrobenzene-d5	72 %	35 - 114	OK
2-Fluorobiphenyl	72 %	43 - 116	OK
2,4,6-Tribromophenol	78 %	10 - 123	OK
Terphenyl-d14	58 %	33 - 141	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Methylphenol = o-cresol
* 3-Methylphenol = m-cresol
* 4-Methylphenol = p-cresol

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied.

ACCREDITED LABORATORIES, INC
PESTICIDE/PCB ORGANIC ANALYSIS DATA

CASE NUMBER	9131	MATRIX	Soil
SAMPLE NUMBER	0010002	DILUTION FACTOR	1
DATA FILE	>G6887	DATE EXTRACTED	08/28/00
CLIENT NAME	RC	DATE ANALYZED	08/29/00
FIELD ID	SOIL PILE	ANALYZED BY	JEFF

CAS#	COMPOUND	UG/KG	MDL
319846	A-BHC	U	.759
319857	B-BHC	U	.759
58899	G-BHC (Lindane)	U	.759
319868	D-BHC	U	.759
76448	Heptachlor	U	.759
309002	Aldrin	U	.759
1024573	Heptachlor Epoxide	30.1	.759
959988	Endosulfan I	U	.759
5103719	A-Chlordane	U	.759
5103742	G-Chlordane	U	.759
60571	Dieldrin	U	1.52
72559	4,4'-DDE	U	1.52
72208	Endrin	U	1.52
33213659	Endosulfan II	U	1.52
72548	4,4'-DDD	U	1.52
7421934	Endrin Aldehyde	U	1.52
1031078	Endosulfan Sulfate	U	1.52
50293	4,4'-DDT	U	1.52
53494705	Endrin Ketone	U	1.52
72435	Methoxychlor	U	7.59
8001352	Toxaphene	U	38.0
12674112	Aroclor-1016	U	19.0
11104282	Aroclor-1221	U	19.0
11141165	Aroclor-1232	U	19.0
53469219	Aroclor-1242	U	19.0
12672296	Aroclor-1248	U	19.0
11097691	Aroclor-1254	U	19.0
11096825	Aroclor-1260	U	19.0

Percent Solid of 87.8 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC
PESTICIDE/PCB ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	PBLK31	DILUTION FACTOR	1
DATA FILE	>G6878	DATE EXTRACTED	08/28/00
CLIENT NAME		DATE ANALYZED	08/28/00
FIELD ID		ANALYZED BY	JEFF

CAS#	COMPOUND	UG/KG	MDL
319846	A-BHC	U	.667
319857	B-BHC	U	.667
58899	G-BHC (Lindane)	U	.667
319868	D-BHC	U	.667
76448	Heptachlor	U	.667
309002	Aldrin	U	.667
1024573	Heptachlor Epoxide	U	.667
959988	Endosulfan I	U	.667
5103719	A-Chlordane	U	.667
5103742	G-Chlordane	U	.667
60571	Dieldrin	U	1.33
72559	4,4'-DDE	U	1.33
72208	Endrin	U	1.33
33213659	Endosulfan II	U	1.33
72548	4,4'-DDD	U	1.33
7421934	Endrin Aldehyde	U	1.33
1031078	Endosulfan Sulfate	U	1.33
50293	4,4'-DDT	U	1.33
53494705	Endrin Ketone	U	1.33
72435	Methoxychlor	U	6.67
8001352	Toxaphene	U	33.3
12674112	Aroclor-1016	U	16.7
11104282	Aroclor-1221	U	16.7
11141165	Aroclor-1232	U	16.7
53469219	Aroclor-1242	U	16.7
12672296	Aroclor-1248	U	16.7
11097691	Aroclor-1254	U	16.7
11096825	Aroclor-1260	U	16.7

Percent Solid of 100. is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

ACCREDITED LABORATORIES, INC.
TCLP PESTICIDES ANALYSIS DATA

CASE NUMBER	9131	MATRIX	Leachate
SAMPLE NUMBER	0010002	DILUTION FACTOR	50
DATA FILE	>G6880	DATE EXTRACTED	08/28/00
CLIENT NAME	RC	DATE ANALYZED	08/29/00
FIELD ID	SOIL PILE	ANALYZED BY	JEFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
58-89-9	G-BHC (Lindane)	U	.001	0.400
76-44-8	Heptachlor	U	.001	0.008
1024-57-3	Heptachlor Epoxide	U	.001	0.008
72-20-8	Endrin	U	.002	0.02
72-43-5	Methoxychlor	U	.010	10.0
5103-71-9	A-Chlordane	U	.001	0.03
5103-74-2	G-Chlordane	U	.001	0.03
8001-35-2	Toxaphene	U	.050	0.5

SURROGATE COMPOUNDS	RECOVERY	ADVISORY LIMITS	STATUS
DCB	91%	30 - 150	OK
Tetrachloro-m-xylene	68%	30 - 150	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

ACCREDITED LABORATORIES, INC.
TCLP PESTICIDES ANALYSIS DATA

CASE NUMBER		MATRIX	Leachate
SAMPLE NUMBER	PBLK30	DILUTION FACTOR	50
DATA FILE	>G6879	DATE EXTRACTED	08/28/00
CLIENT NAME		DATE ANALYZED	08/29/00
FIELD ID		ANALYZED BY	JEFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
58-89-9	G-BHC (Lindane)	U	.001	0.400
76-44-8	Heptachlor	U	.001	0.008
1024-57-3	Heptachlor Epoxide	U	.001	0.008
72-20-8	Endrin	U	.002	0.02
72-43-5	Methoxychlor	U	.010	10.0
5103-71-9	A-Chlordane	U	.001	0.03
5103-74-2	G-Chlordane	U	.001	0.03
8001-35-2	Toxaphene	U	.050	0.5

SURROGATE COMPOUNDS	RECOVERY	ADVISORY LIMITS	STATUS
DCB	101%	30 - 150	OK
Tetrachloro-m-xylene	77%	30 - 150	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

ACCREDITED LABORATORIES, INC
TCLP HERBICIDE ANALYSIS DATA

CASE NUMBER	9131	MATRIX	Leachate
SAMPLE NUMBER	0010002	DILUTION FACTOR	1
DATA FILE	>A2268	DATE EXTRACTED	08/28/00
CLIENT NAME	RC	DATE ANALYZED	08/29/00
FIELD ID	SOIL PILE	ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
94757	2,4'-D	U	.100	10.0
93721	SILVEX	U	.010	1.0

U - Indicates compound was analyzed for but not detected

ACCREDITED LABORATORIES, INC
TCLP HERBICIDE ANALYSIS DATA

CASE NUMBER		MATRIX	Leachate
SAMPLE NUMBER	HBLK81	DILUTION FACTOR	1
DATA FILE	>A2267	DATE EXTRACTED	08/28/00
CLIENT NAME		DATE ANALYZED	08/29/00
FIELD ID		ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
94757	2,4'-D	U	.100	10.0
93721	SILVEX	U	.010	1.0

U - Indicates compound was analyzed for but not detected

ACCREDITED LABORATORIES, INC.
INORGANIC ANALYSIS DATA SHEET

Case #: 9131
Sample #: 0010002
Field ID: SOIL PILE
Client Name: RC

Matrix: Soil
Date Received: 08/18/00

CAS No.	Element	Result MG/KG	MDL MG/KG	Dilution Factor	Method	Date Analyzed
7440-36-0	Antimony	ND	7.16	1	P	08/23/00
7440-38-2	Arsenic	2.31	.725	2	F	08/22/00
7440-39-3	Barium	40.0	2.15	1	P	08/23/00
7440-41-7	Beryllium	.924	.716	1	P	08/23/00
7440-43-9	Cadmium	2.29	.716	1	P	08/23/00
7440-47-3	Chromium	12.5	2.15	1	P	08/23/00
7440-50-8	Copper	12.0	2.15	1	P	08/23/00
7439-92-1	Lead	ND	14.3	1	P	08/23/00
7439-97-6	Mercury	ND	.228	1	CV	08/29/00
7440-02-0	Nickel	13.3	2.15	1	P	08/23/00
7782-49-2	Selenium	ND	1.81	5	F	08/23/00
7440-22-4	Silver	ND	.716	1	P	08/23/00
7440-28-0	Thallium	ND	1.81	5	F	08/22/00
7440-62-2	Vanadium	19.6	3.58	1	P	08/23/00
7440-66-6	Zinc	30.7	7.16	1	P	08/23/00

Percent Solid of 87.8 is used for all target elements

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
INORGANIC ANALYSIS DATA SHEET

Sample #: PBS1752 Matrix: Soil
Field ID: PREPBLANK Date Prepared: 08/22/00

CAS No.	Element	Result MG/KG	MDL MG/KG	Dilution Factor	Method	Date Analyzed
7440-36-0	Antimony	ND	10.0	1	P	08/23/00
7440-38-2	Arsenic	ND	.500	1	F	08/22/00
7440-39-3	Barium	ND	3.00	1	P	08/23/00
7440-41-7	Beryllium	ND	1.00	1	P	08/23/00
7440-43-9	Cadmium	ND	1.00	1	P	08/23/00
7440-47-3	Chromium	ND	3.00	1	P	08/23/00
7440-50-8	Copper	ND	3.00	1	P	08/23/00
7439-92-1	Lead	ND	20.0	1	P	08/23/00
7439-97-6	Mercury	ND	.200	1	CV	08/29/00
7440-02-0	Nickel	ND	3.00	1	P	08/23/00
7782-49-2	Selenium	ND	.500	1	F	08/23/00
7440-22-4	Silver	ND	1.00	1	P	08/23/00
7440-28-0	Thallium	ND	.500	1	F	08/22/00
7440-62-2	Vanadium	ND	5.00	1	P	08/23/00
7440-66-6	Zinc	ND	10.0	1	P	08/23/00

Percent Solid of 100. is used for all target elements

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
REGULATED TCLP METALS
INORGANIC ANALYSIS DATA SHEET

Case #: 9131
Sample #: 0010002
Field ID: SOIL PILE
Client Name: RC

Matrix: Leachate
Date Received: 08/18/00

CAS No.	Element	Result MG/L	MDL MG/L	Dilution Factor	Regulatory Level	Method	Date Analyzed
7440-38-2	Arsenic	ND	1.00	1	5.00	P	08/23/00
7440-39-3	Barium	.570	.500	1	100.00	P	08/23/00
7440-43-9	Cadmium	ND	.100	1	1.00	P	08/23/00
7440-47-3	Chromium	ND	.100	1	5.00	P	08/23/00
7439-92-1	Lead	ND	.500	1	5.00	P	08/23/00
7439-97-6	Mercury	ND	.002	2	.20	CV	08/29/00
7782-49-2	Selenium	ND	.500	1	1.00	P	08/23/00
7440-22-4	Silver	ND	.100	1	5.00	P	08/23/00

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
REGULATED TCLP METALS
INORGANIC ANALYSIS DATA SHEET

Sample #: PBL043
Field ID: PREPBLANK

Matrix: Leachate
Date Prepared: 08/22/00

CAS No.	Element	Result MG/L	MDL MG/L	Dilution Factor	Regulatory Level	Method	Date Analyzed
7440-38-2	Arsenic	ND	.500	1	5.00	P	08/23/00
7440-39-3	Barium	ND	.250	1	100.00	P	08/23/00
7440-43-9	Cadmium	ND	.050	1	1.00	P	08/23/00
7440-47-3	Chromium	ND	.050	1	5.00	P	08/23/00
7439-92-1	Lead	ND	.250	1	5.00	P	08/23/00
7439-97-6	Mercury	ND	.001	1	.20	CV	08/29/00
7782-49-2	Selenium	ND	.250	1	1.00	P	08/23/00
7440-22-4	Silver	ND	.050	1	5.00	P	08/23/00

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
GENERAL CHEMISTRY ANALYSIS DATA

Case #:	9131	Matrix:	Soil
Sample #:	0010002	Date Received:	08/18/00
Client Name:	RC	% Moisture:	12.2
Field Number:	SOIL PILE		

ANALYTES	RESULTS	MDL	UNITS	DILUTION FACTOR	METHOD BLANK RESULTS	METHOD BLANK MDL	ANALYSIS DATE
Solids, Percent	87.8	0.10	%	1.			08/23/00
Cyanide, Total	ND	1.09	mg/Kg	1.	ND	0.01	08/23/00
Chromium, Trivalent	12.5		mg/Kg	1.			08/28/00
Chromium, Hexavalent	ND	2.26	mg/Kg	1.	ND	0.05	08/23/00
Carbon, Total Organic	1440.	180.	mg/Kg	1.	ND	100.	08/25/00

Accredited Laboratories, Inc.
Total Petroleum Hydrocarbon Analysis

Client: RC
Case #: 9131
Analyst: RB

Matrix: Soil
Date Received: 08/18/00
Date Analyzed: 08/25/00

Field #	Sample #	Amount Used (g)	% S	DF	ABS	Result mg/Kg	MDL mg/Kg
SOIL PILE	0010002	30.97	87.8	1	2	ND	22

Response Factor = .13383944

% S = Percent Solids
DF = Dilution Factor
ABS = Absorbance

Method Blank: < 20 mg/Kg

TWIN PEAKS, INC.

P.O. Box 780630, Maspeth, NY 11378
(718) 482-1911 ■ Fax: (718) 482-7767

Report

CLIENT	ACCREDITED LABS
PROJECT	XAL-C-9131
FIELD ID	200010002

DATA FILE	>AL32
DATE RECEIVED	8/22/2000
DATE ANALYZED	8/24/2000

SIEVE ANALYSIS / GRADATION

SIEVE SIZE	PERCENT PASSING	JOB LIMITS
4 "	100	N/A
# 4	94.9	N/A
# 40	67.7	N/A
# 200[1]	14.6	N/A

Note: N/A-not available

ALEX SHAHNAZARIAN
Lab Manager

[1] Washing method ASTM D1140 was used

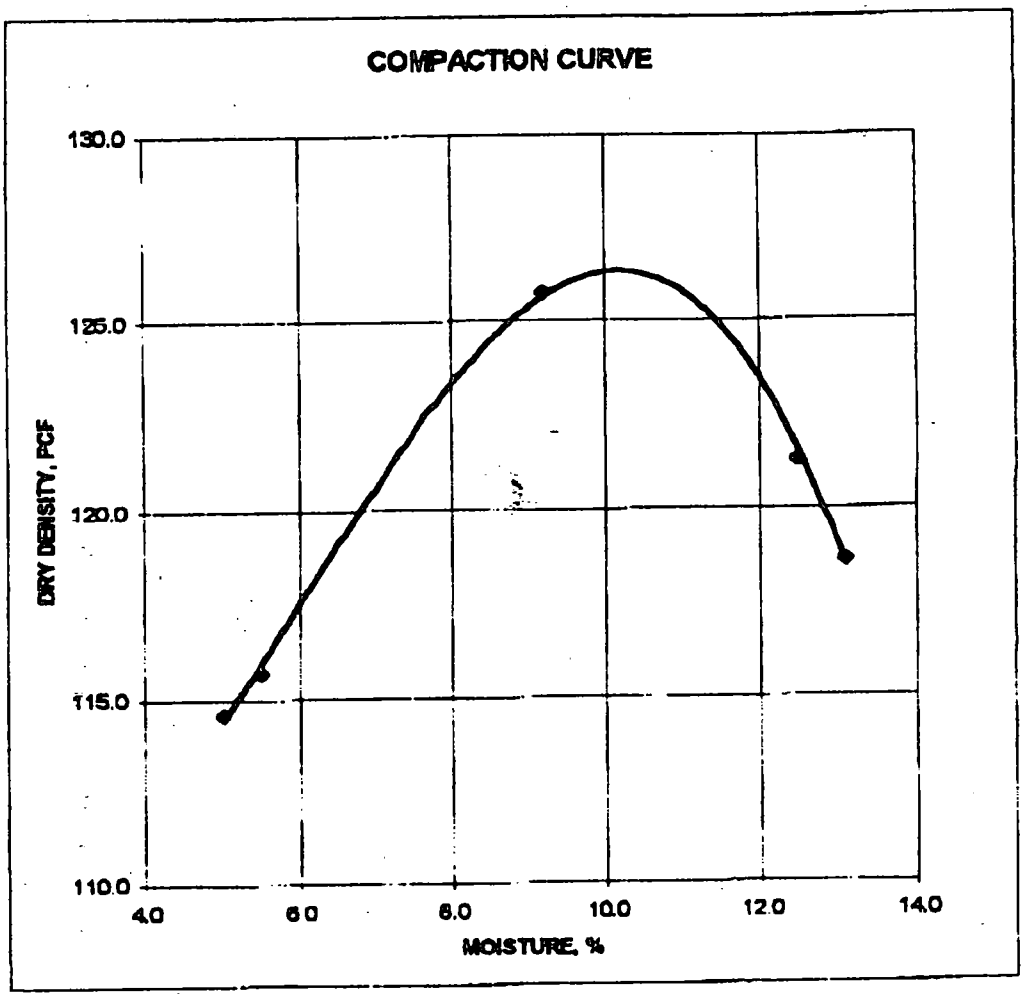
TWIN PEAKS, INC.

P.O. Box 780630, Maspeth, NY 11378
(718) 482-1911 ■ Fax: (718) 482-7767

Report

CLIENT	ACCREDITED LABS
PROJECT	XAL-C-9131
FIELD ID	200010002

DATA FILE	>AL32
DATE RECEIVED	8/22/2000
DATE ANALYZED	8/24/2000



MAXIMUM DENSITY = 126.1 PCF
OPTIMUM MOISTURE = 10.2 %

ACCREDITED LABORATORIES, INC.
20 PERSHING AVENUE
CARTERET, NEW JERSEY 07008
PHONE: (732) 541-2025 / (800) ALI-LABS

CHAIN OF CUSTODY FORM

PAGE 1 OF 1

CLIENT	REBCO CONTRACTING	PROJECT	G.M. PLANT
ADDRESS	P.O. BOX 4238	CONTACT	JEFF STEELE
CITY	CLIFTON	PHONE	
STATE	NJ ZIP 07012	FAX	

ALI SAMPLE #	FIELD ID	*C	**M	DATE / TIME SAMPLED	SAMPLE DESCRIPTION	ANALYSIS
0010002		3	S	8/18/00 12:45	SOIL PILE	PPMEVO, TCLP VOA, FULL TCLP w/o VO PRIORITY POLLUTANTS w/o VO, TOC, TPHC, CR^6, CR^3, Ba, Va
		1	S	12:45	SOIL PILE	COMP, GRAD, VOID

**M = MATRIX A=AQUEOUS S=SOIL G=SLUDGE P=POTABLE WATER O=OIL F=FILTER K=SOLID X=OTHER

*C = NO. CONTAINERS TURNAROUND: Std (If Blank, Std. 3 weeks)

DELIVERABLES (circle one): STD REDUCED FULL NY-ASP CLP I CLP II

RELINQUISHED BY: PRINT	SIGN	RECEIVED BY: PRINT	SIGN	ORGANIZATION	DATE	TIME	REASON
K Roberts	Keith Roberts	[signature]	[signature]	ALI	8/18/00	1730	Analysis

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: K. Roberts SIGN: Keith Roberts

COMMENTS	Cooler Temp: 4°C	ALI QUOTE#	31
		ALI CASE#	91[illegible]
		P.O.#	

****
*** TX REPORT ***
****

TRANSMISSION OK

TX/RX NO	2157
CONNECTION TEL	819734722684
SUBADDRESS	
CONNECTION ID	
ST. TIME	08/30 16:55
USAGE T	03'53
PGS. SENT	17
RESULT	OK

ACCREDITED LABORATORIES

Implementing Tomorrows Technology, Today...

FAX MESSAGE

TO: Jeff Steele / S Mounir Sadat DATE: 8/30/00

COMPANY: Rebco Contracting / Sadat PAGES: 17

FAX #: (973) 472-2684 ASSOC

FROM: (609) 243-0120
Client Services

SUBJECT: Case # 9131

QUOTE #:

COMMENTS:

Accredited Laboratories, Inc.
420 Pershing Avenue
CLIENT SERVICES FAX #
(732) 541-0257

ACCREDITED LABORATORIES

Implementing Tomorrows Technology, Today . . .

FAX MESSAGE

TO: Jeff Steele

COMPANY: Rebco Contracting

FAX #: (973) 472-2684

FROM: Client Services

DATE: 8/1/00

PAGES: 18

SUBJECT: Case # 9131 w/ confirmation

QUOTE #:

COMMENTS:

Accredited Laboratories, Inc.
620 Pershing Avenue
Carteret, NJ 07008-0369
(732) 541-2025

CLIENT SERVICES FAX #
(732) 541-0257

Appendix A (continued)

Part I (Cont.)

13. A. Name and Address of Independent Sampler (if applicable, not required for source Separate masonry materials (brick, block, concrete and glass) or asphalt)

Accredited LAB Inc.
20 Pershing Ave. Carteret, N.J. 07008

B. Credentials held by Independent Sampler (if applicable)

14. Certification of Sampler (if applicable)*

As an independent professional I certify that the samples obtained as described in 1 - 12 herein were obtained in accordance with NJDEP sampling requirements (N.J.A.C. 7:26 E-2) and that sample collection has been performed in accordance with the Field Sampling Procedures Manual NJDEP, May 1992 except as noted in item ten above.

Keith Roberts 8-19-00
Signature of Sampler

15. Certification of Source Owner

As owner of the above described recyclable material, I warrant that to the best of my knowledge the material is recyclable and consists only of those items described in item 5 above and has been sampled and analyzed in accordance with N.J.A.C. 7:26 E-2.1 and that sample collection has been performed in accordance with the Field Sampling Procedure Manual, NJDEP, May 1992 except as noted in item 10 above.

Signature of Owner

Owner's Name (Print in Full)

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	9131	MATRIX	Soil
SAMPLE NUMBER	0010002	DILUTION FACTOR	119
DATA FILE	>C2249	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	08/25/00
FIELD ID	SOIL PILE	ANALYZED BY	WILLIAM

CAS #	COMPOUND	UG/KG		MDL
107028	Acrolein	U		3400
107131	Acrylonitrile	U		3400
67641	Acetone	730		680
74873	Chloromethane	U		680
74839	Bromomethane	U		680
75014	Vinyl Chloride	U		680
75003	Chloroethane	U		680
75092	Methylene Chloride	1700	B	680
75694	Trichlorofluoromethane	U		680
75354	1,1-Dichloroethene	U		680
75343	1,1-Dichloroethane	U		680
156605	trans-1,2-Dichloroethene	U		680
156592	cis-1,2-dichloroethene	U		680
67663	Chloroform	U		680
107062	1,2-Dichloroethane	U		680
71556	1,1,1-Trichloroethane	U		680
56235	Carbon Tetrachloride	U		680
75274	Bromodichloromethane	U		680
78875	1,2-Dichloropropane	U		680

CAS #	COMPOUND	UG/KG	MDL
10061015	cis-1,3-Dichloropropene	U	680
79016	Trichloroethene	U	680
71432	Benzene	U	680
124481	Dibromochloromethane	U	680
79005	1,1,2-Trichloroethane	U	680
10061026	trans-1,3-Dichloropropene	U	680
110758	2-Chloroethylvinylether	U	680
75252	Bromoform	U	680
108101	4-Methyl-2-pentanone	U	1400
127184	Tetrachloroethene	U	680
79345	1,1,2,2-Tetrachloroethane	U	680
108883	Toluene	U	680
108907	Chlorobenzene	U	680
100414	Ethylbenzene	U	680
1330207	m,p-Xylene	U	1400
100425	Styrene	U	680
95476	o-Xylene	U	680
630206	1,1,1,2-Tetrachloroethane	U	680

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	89 %	70-121	OK
Toluene-d8	97 %	81-117	OK
Bromofluorobenzene	107 %	74-121	OK

Percent solid of 87.8 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER	9131	MATRIX	Leachate
SAMPLE NUMBER	0010002	DILUTION FACTOR	10
DATA FILE	>A2728	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	08/23/00
FIELD ID	SOIL PILE	ANALYZED BY	ROBERT

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.050	0.5
78933	2 Butanone	U	.100	200.0
56235	Carbon Tetrachloride	U	.050	0.5
108907	Chlorobenzene	U	.050	100.0
67663	Chloroform	U	.050	6.0
75354	1,1-Dichloroethene	U	.050	0.7
107062	1,2-Dichloroethane	U	.050	0.5
127184	Tetrachloroethene	U	.050	0.7
79016	Trichloroethene	U	.050	0.5
75014	Vinyl Chloride	U	.100	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane d4	97 %	76 - 114	OK
Toluene-d8	106 %	88 - 110	OK
Bromofluorobenzene	95 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2 Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSIS DATA

CASE NUMBER	9131	MATRIX	Soil
SAMPLE NUMBER	0010002	DILUTION FACTOR	1.0
DATA FILE	>F1542	DATE EXTRACTED	08/26/00
CLIENT NAME	RC	DATE ANALYZED	08/28/00
FIELD ID	SOIL PILE	ANALYZED BY	DANIEL

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
83329	Acenaphthene	58 J	380	51285	2,4-Dinitrophenol	U	380
208968	Acenaphthylene	U	380	121142	2,4-Dinitrotoluene	U	380
120127	Anthracene	100 J	380	606202	2,6-Dinitrotoluene	U	380
56553	Benzo(a)Anthracene	290 J	380	117840	Di-n-octyl phthalate	U	380
50328	Benzo(a)Pyrene	270 J	380	206440	Fluoranthene	730	380
205992	Benzo(b)fluoranthene	300 J	380	86737	Fluorene	56 J	380
191242	Benzo(g,h,i)Perylene	150 J	380	118741	Hexachlorobenzene	U	380
207089	Benzo(k)Fluoranthene	180 J	380	87683	Hexachlorobutadiene	U	380
65850	Benzoic Acid	U	1900	77474	Hexachlorocyclopentadiene	U	380
100516	Benzyl Alcohol	U	380	67721	Hexachloroethane	U	380
111444	bis(-2-Chloroethyl)Ether	U	380	193395	Indeno(1,2,3-cd)Pyrene	160 J	380
108601	bis(2-Chloroisopropyl)ether	U	380	78591	Isophorone	U	380
117817	Bis(2-Ethylhexyl)Phthalate	U	380	91576	2-Methylnaphthalene	U	380
111911	bis(-2-Chloroethoxy)Methane	U	380	95487	2-Methylphenol	U	380
101553	4-Bromophenyl-phenylether	U	380	108394	3&4-Methylphenol	U	380
85687	Butylbenzylphthalate	U	380	91203	Naphthalene	54 J	380
106478	4-Chloroaniline	U	380	88744	2-Nitroaniline	U	380
91587	2-Chloronaphthalene	U	380	99092	3-Nitroaniline	U	380
59507	4-Chloro-3-methylphenol	U	380	100016	4-Nitroaniline	U	380
95578	2-Chlorophenol	U	380	98953	Nitrobenzene	U	380
7005723	4-Chlorophenyl-phenylether	U	380	88755	2-Nitrophenol	U	380
[illegible]18019	Chrysene	290 J	380	100027	4-Nitrophenol	U	380
[illegible]8703	Dibenzo(a,h)Anthracene	88 J	380	62759	N-Nitrosodimethylamine	U	380
132649	Dibenzofuran	U	380	86306	N-Nitrosodiphenylamine	U	380
95501	1,2-Dichlorobenzene	U	380	621647	N-Nitroso-Di-n-propylamine	U	380
541731	1,3-Dichlorobenzene	U	380	87865	Pentachlorophenol	U	380
106467	1,4-Dichlorobenzene	U	380	85018	Phenanthrene	310 J	380
91941	3,3'-Dichlorobenzidine	U	380	108952	Phenol	U	380
120832	2,4-Dichlorophenol	U	380	129000	Pyrene	480	380
84662	Diethylphthalate	U	380	120821	1,2,4-Trichlorobenzene	U	380
105679	2,4-Dimethylphenol	U	380	95954	2,4,5-Trichlorophenol	U	380
131113	Dimethyl Phthalate	U	380	88062	2,4,6-Trichlorophenol	U	380
84742	Di-n-Butylphthalate	U	380	92875	Benzidine	U	380
534521	4,6-Dinitro-2-methylphenol	U	380	122667	1,2-Diphenylhydrazine	U	380

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	73 %	23-120	OK
2-Fluorobiphenyl	68 %	30-115	OK
Terphenyl-d14	64 %	18-137	OK
Phenol-d5	72 %	24-113	OK
2-Fluorophenol	70 %	25-121	OK
2,4,6-Tribromophenol	75 %	19-122	OK

Percent solid of 87.8 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
I - Results exceed industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Concentration exceeds highest calibration standard.
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

ACCREDITED LABORATORIES, INC.
TCLP SEMIVOLATILES ANALYSIS DATA

CASE NUMBER	9131	MATRIX	Leachate
SAMPLE NUMBER	0010002	DILUTION FACTOR	10
DATA FILE	>F1540	DATE EXTRACTED	08/25/00
CLIENT NAME	RC	DATE ANALYZED	08/28/00
FIELD ID	SOIL PILE	ANALYZED BY	DANIEL

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
110861	Pyridine	U	.10	5.0
106467	1,4-Dichlorobenzene	U	.10	7.5
95478	2-Methylphenol	U	.10	200.0
108394	3&4-Methylphenol	U	.10	200.0
67721	Hexachloroethane	U	.10	3.0
989103	Nitrobenzene	U	.10	2.0
87683	Hexachlorobutadiene	U	.10	0.5
88062	2,4,6-Trichlorophenol	U	.10	2.0
9109104	2,4,5-Trichlorophenol	U	.50	400.0
121142	2,4-Dinitrotoluene	U	.10	0.13
118741	Hexachlorobenzene	U	.10	0.13
878610	Pentachlorophenol	U	.10	100.0

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
2-Fluorophenol	71 %	21 - 100	OK
Phenol-d5	72 %	10 - 94	OK
Nitrobenzene-d5	82 %	35 - 114	OK
2-Fluorobiphenyl	75 %	43 - 116	OK
2,4,6-Tribromophenol	72 %	10 - 123	OK
Terphenyl-d14	61 %	33 - 141	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Methylphenol = o-cresol
* 3-Methylphenol = m-cresol
* 4-Methylphenol = p-cresol

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied.

ACCREDITED LABORATORIES, INC
PESTICIDE/PCB ORGANIC ANALYSIS DATA

CASE NUMBER	9131	MATRIX	Soil
SAMPLE NUMBER	0010002	DILUTION FACTOR	1
DATA FILE	>G6887	DATE EXTRACTED	08/28/00
CLIENT NAME	RC	DATE ANALYZED	08/29/00
FIELD ID	SOIL PILE	ANALYZED BY	JEFF

CAS#	COMPOUND	UG/KG	MDL
319846	A-BHC	U	.759
319857	B-BHC	U	.759
58899	G-BHC (Lindane)	U	.759
319868	D-BHC	U	.759
76448	Heptachlor	U	.759
309002	Aldrin	U	.759
1024573	Heptachlor Epoxide	30.1	.759
959988	Endosulfan I	U	.759
5103719	A-Chlordane	U	.759
5103742	G-Chlordane	U	.759
60571	Dieldrin	U	1.52
72559	4,4'-DDE	U	1.52
72208	Endrin	U	1.52
33213659	Endosulfan II	U	1.52
72548	4,4'-DDD	U	1.52
7421934	Endrin Aldehyde	U	1.52
1031078	Endosulfan Sulfate	U	1.52
50293	4,4'-DDT	U	1.52
53494705	Endrin Ketone	U	1.52
72435	Methoxychlor	U	7.59
8001352	Toxaphene	U	38.0
12674112	Aroclor-1016	U	19.0
11104282	Aroclor-1221	U	19.0
11141165	Aroclor-1232	U	19.0
53469219	Aroclor-1242	U	19.0
12672296	Aroclor-1248	U	19.0
11097691	Aroclor-1254	U	19.0
11096825	Aroclor-1260	U	19.0

Percent Solid of 87.8 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
TCLP PESTICIDES ANALYSIS DATA

CASE NUMBER	9131	MATRIX	Leachate
SAMPLE NUMBER	0010002	DILUTION FACTOR	50
DATA FILE	>G6880	DATE EXTRACTED	08/28/00
CLIENT NAME	RC	DATE ANALYZED	08/29/00
FIELD ID	SOIL PILE	ANALYZED BY	JEFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
58-89-9	G-BHC (Lindane)	U	.001	0.400
76-44-8	Heptachlor	U	.001	0.008
1024-57-3	Heptachlor Epoxide	U	.001	0.008
72-20-8	Endrin	U	.002	0.02
72-43-5	Methoxychlor	U	.010	10.0
5103-71-9	A-Chlordane	U	.001	0.03
5103-74-2	G-Chlordane	U	.001	0.03
8001-35-2	Toxaphene	U	.050	0.5

SURROGATE COMPOUNDS	RECOVERY	ADVISORY LIMITS	STATUS
DCB	91%	30 - 150	OK
Tetrachloro-m-xylene	68%	30 - 150	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

ACCREDITED LABORATORIES, INC
TCLP HERBICIDE ANALYSIS DATA

CASE NUMBER	9131	MATRIX	Leachate
SAMPLE NUMBER	0010002	DILUTION FACTOR	1
DATA FILE	>A2268	DATE EXTRACTED	08/28/00
CLIENT NAME	RC	DATE ANALYZED	08/29/00
FIELD ID	SOIL PILE	ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
94757	2,4'-D	U	.100	10.0
93721	SILVEX	U	.010	1.0

U - Indicates compound was analyzed for but not detected

ACCREDITED LABORATORIES, INC.
INORGANIC ANALYSIS DATA SHEET

Case #: 9131
Sample #: 0010002
Field ID: SOIL PILE
Client Name: RC

Matrix: Soil
Date Received: 08/18/00

CAS No.	Element	Result MG/KG	MDL MG/KG	Dilution Factor	Method	Date Analyzed
7440-36-0	Antimony	ND	7.16	1	P	08/23/00
7440-38-2	Arsenic	2.31	.725	2	F	08/22/00
7440-39-3	Barium	40.0	2.15	1	P	08/23/00
7440-41-7	Beryllium	.924	.716	1	P	08/23/00
7440-43-9	Cadmium	2.29	.716	1	P	08/23/00
7440-47-3	Chromium	12.5	2.15	1	P	08/23/00
7440-50-8	Copper	12.0	2.15	1	P	08/23/00
7439-92-1	Lead	ND	14.3	1	P	08/23/00
7439-97-6	Mercury	ND	.228	1	CV	08/29/00
7440-02-0	Nickel	13.3	2.15	1	P	08/23/00
7782-49-2	Selenium	ND	1.81	5	F	08/23/00
7440-22-4	Silver	ND	.716	1	P	08/23/00
7440-28-0	Thallium	ND	1.81	5	F	08/22/00
7440-62-2	Vanadium	19.6	3.58	1	P	08/23/00
7440-66-6	Zinc	30.7	7.16	1	P	08/23/00

Percent Solid of 87.8 is used for all target elements

ND - Element analyzed for but not detected.
P - Analyzed by ICP
CV - Analyzed by Cold Vapor
F - Analyzed by GFA
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
REGULATED TCLP METALS
INORGANIC ANALYSIS DATA SHEET

Case #: 9131
Sample #: 0010002
Field ID: SOIL PILE
Client Name: RC

Matrix: Leachate
Date Received: 08/18/00

CAS No.	Element	Result MG/L	MDL MG/L	Dilution Factor	Regulatory Level	Method	Date Analyzed
7440-38-2	Arsenic	ND	1.00	1	5.00	P	08/23/00
7440-39-3	Barium	.570	.500	1	100.00	P	08/23/00
7440-43-9	Cadmium	ND	.100	1	1.00	P	08/23/00
7440-47-3	Chromium	ND	.100	1	5.00	P	08/23/00
7439-92-1	Lead	ND	.500	1	5.00	P	08/23/00
7439-97-6	Mercury	ND	.002	2	.20	CV	08/29/00
7782-49-2	Selenium	ND	.500	1	1.00	P	08/23/00
7440-22-4	Silver	ND	.100	1	5.00	P	08/23/00

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
GENERAL CHEMISTRY ANALYSIS DATA

Case #:	9131	Matrix:	Soil
Sample #:	0010002	Date Received:	08/18/00
Client Name:	RC	% Moisture:	12.2
Field Number:	SOIL PILE		

ANALYTES	RESULTS	MDL	UNITS	DILUTION FACTOR	METHOD BLANK RESULTS	METHOD BLANK MDL	ANALYSIS DATE
Solids, Percent	87.8	0.10	%	1.			08/23/00
Cyanide, Total	ND	1.09	mg/Kg	1.	ND	0.01	08/23/00
Chromium, Trivalent	12.5		mg/Kg	1.			08/28/00
Chromium, Hexavalent	ND	2.26	mg/Kg	1.	ND	0.05	08/23/00
Carbon, Total Organic	1440.	180.	mg/Kg	1.	ND	100.	08/25/00

Accredited Laboratories, Inc.
Total Petroleum Hydrocarbon Analysis

Client: RC
Case #: 9131
Analyst: RB

Matrix: Soil
Date Received: 08/18/00
Date Analyzed: 08/25/00

Field #	Sample #	Amount Used (g)	% S	DF	ABS	Result mg/Kg	MDL mg/Kg
SOIL PILE	0010002	30.97	87.8	1	2	ND	22

Response Factor = .13383944

% S = Percent Solids
DF = Dilution Factor
ABS = Absorbance

Method Blank: < 20 mg/Kg

TWIN PEAKS, INC.
P.O. Box 780630, Maspeth, NY 11378
(718) 482-1911 ■ Fax: (718) 482-7767

Report

CLIENT	ACCREDITED LABS
PROJECT	XAL-C-9131
FIELD ID	200010002

DATA FILE	>AL32
DATE RECEIVED	8/22/2000
DATE ANALYZED	8/24/2000

SIEVE ANALYSIS / GRADATION

SIEVE SIZE	PERCENT PASSING	JOB LIMITS
4 "	100	N/A
# 4	94.9	N/A
# 40	67.7	N/A
# 200[1]	14.6	N/A

Note: N/A-not available

ALEX SHAHNAZARIAN
Lab Manager

[1] Washing method ASTM D1140 was used

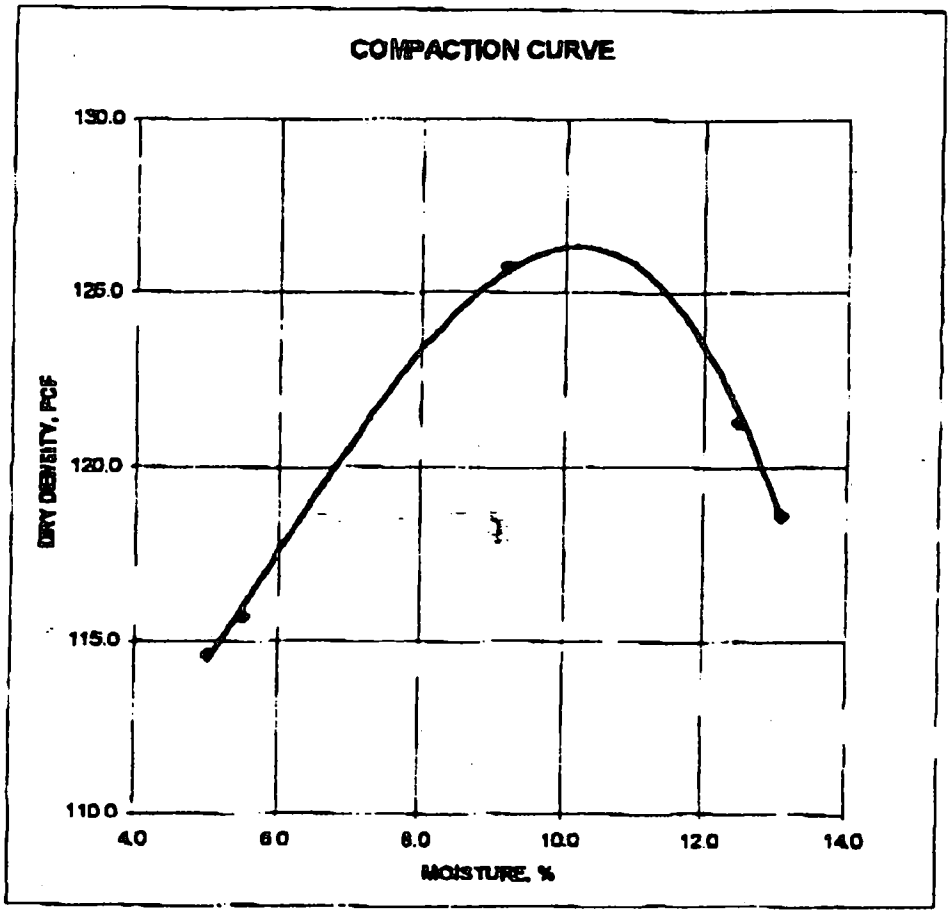
TWIN PEAKS, INC.

P.O. Box 780630, Maspeth, NY 11378
(718) 482-1911 ■ Fax: (718) 482-7767

Report

CLIENT	ACCREDITED LABS
PROJECT	XAL-C-9131
FIELD ID	200010002

DATA FILE	>AL32
DATE RECEIVED	8/22/2000
DATE ANALYZED	8/24/2000



MAXIMUM DENSITY = 126.1 PCF
OPTIMUM MOISTURE = 10.2 %

SAMPLE MANAGEMENT REQUEST

Keith

ORIGINATOR: Bob Cobb

DATE: 5-2

ASSIGNMENT: ( ) BOTTLE REQUEST ( ) COURIER SERVICE (•) SAMPLING

ACTION DATE: 5-"

TIME: ____AM ____PM

CLIENT: Rebco - Site

CONTACT: Jeff Steele

ADDRESS: _____

PHONE: 973-472-6067

GM Plant

RT 1+9 in Linden

SHIP TO: _____

COMMENTS/CHARGES: 10,000 Cu yds.

MATRIX: ( )SOIL ( )SOLID ( )SLUDGE ( )AQUEOUS ( )POTABLE WATER ( )OTHER

BOTTLE REQUEST: FIELD BLANK: ( ) YES (•) NO

#	Size (ml)	Type P/G	Parameter	Pres.	#	Size (ml)	Type P/G	Parameter	Pres.
6	60	G	PPUO	Meoh					
6	125	G	TCLPUO						
6	500	G	Waste Class BEVJ						
1	Bucket - Geo-Tech								
						Trip	Blank	Requested	Y/N

COOLERS REQUESTED: (•) YES ( ) NO BLUE ICE REQUESTED: (•) YES ( ) NO

BOTTLES PREPARED BY: _____ DATE: _____ BOTTLES DELIVERED BY: _____

RECEIVED BY: X _____ DATE: _____ TIME: _____ ( )AM ( )PM

NOTICE

THE LABORATORY REQUIRES 24 HOUR NOTICE
WITH RESPECT TO THE SCHEDULING OF SAMPLE
CONTAINER DROP-OFFS AND SAMPLE PICK-UPS

ACCREDITED LABORATORIES, INC.

Implementing Tomorrow's Technology, Today™...

Analytical Data Report

for

Rebco Contracting
P.o. Box 4238
Clifton, NJ 07012

Project: G. M. Plant

Accredited Laboratories Case No.: 8903
Date Received: 07/31/00

Field ID	Laboratory Sample #
#1	200008995

Accredited Laboratories, Inc. New Jersey Certification Number 12007. This data has been reviewed and accepted by:

Theodore C. Gaydos
Technical Director

(732) 541-2025 *CORPORATE OFFICES* FAX (732) 541-1383
20 Pershing Avenue
Carteret, New Jersey 07008

Printed on RECYCLED paper made with 20% post consumer waste

ACCREDITED LABORATORIES, INC.
20 PERSHING AVENUE
CARTERET, NEW JERSEY 07008
PHONE: (732) 541-2025 / (800) ALI-LABS

CHAIN OF CUSTODY FORM

CLIENT	REBCO CONTRACTING
ADDRESS	P.O. Box 4238
CITY	CLIFTON
STATE	NJ ZIP 07012

PROJECT	G.M. PLANT
CONTACT	JEFF STEELE
PHONE	
FAX	(973) 472-2684

ALI SAMPLE #	FIELD ID	*C	**M	DATE / TIME SAMPLED	SAMPLE DESCRIPTION	ANALYSIS
D008995		3	S	7/31/00	SOIL PILE	PPMEVO, TCLP VOA, Full TCLP w/o VO Priority Pollutants w/o VO TOC, TPHC, CR^6, CR^3, Ba, Va

**M = MATRIX A=AQUEOUS S=SOIL G=SLUDGE P=POTABLE WATER O=OIL F=FILTER K=SOLID X=OTHER

*C = NO. CONTAINERS TURNAROUND: 5 DAYS (If Blank, Std. 3 weeks)

DELIVERABLES (circle one): (STD) REDUCED FULL NY-ASP CLP I CLP II

RELINQUISHED BY: PRINT	RELINQUISHED BY: SIGN	RECEIVED BY: PRINT	RECEIVED BY: SIGN	ORGANIZATION	DATE	TIME	REASON
K. Roberts	Kath Roberts	Joseph Ho		ACE Testing	8/1/00		Analysis

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: K. Roberts SIGN: Kath Roberts

COMMENTS	Cooler Temp 5°

ALI QUOTE#	
ALI CASE#	8903
P.O.#	

METHODOLOGY SUMMARY

Volatile Organics - EPA 8260 (soil) - Methanol Preservation

A portion of methanol extract is spiked into a purging vessel and purged by an inert gas. The vapor is swept through a sorbent column where the purgeables are trapped. After purging is completed, the sorbent column is heated and back-flushed with the inert gas to desorb the purgeables onto a GC column. The GC is temperature programmed to separate the purgeables which are then detected with a mass spectrometer.

Base-Neutral/Acid Extractables - EPA 8270 (soil)

A 30 gram portion of soil is mixed with anhydrous sodium sulfate and is extracted with 1:1 methylene chloride and acetone. The methylene chloride extract is dried and concentrated and a measured amount is injected onto a GC and the analytes are detected with a mass spectrometer.

Pesticides/PCB's - EPA 8081/8082 (soil/solid)

A 30 gram portion of solid is mixed with anhydrous sodium sulfate and is extracted with 1:1 methylene chloride and acetone using sonication technique. The extract is separated from the sample by either centrifugation or filtration. The extract is then solvent-exchanged to hexane in a K-D concentrator to a final volume of 10 ml. The extract is injected into a gas chromatograph and the compounds in the GC effluent are detected by an electron capture detector.

Total Cyanide - SW 846, 9010 (solid)

A representative portion of sample is weighed and placed into a cyanide distillation apparatus. The cyanide as hydrocyanic acid is released from cyanide complexes by means of a reflux-distillation operation and absorbed in a scrubber containing sodium hydroxide solution. The cyanide ion in the absorbing solution is then determined colorimetrically according to EPA "Test Methods for Evaluating Solid Wastes", SW 846.

Total Organic Carbon - Modified EPA 415.1 - Furnace Technique

A 1-2 gm of sample is combusted in a 900°C tube furnace. The combustion gas (CO_2) is collected through the carbon train apparatus. The CO_2 content is analyzed by the TOC analyzer.

Petroleum Hydrocarbons - Modified EPA 418.1 (soil)

A 30 gram portion of soil is extracted with fluorocarbon 113. Interferences are removed with silica gel adsorbent. Infrared analysis of the extract is performed by direct comparison with standards.

Toxic Characteristic Leaching Procedure - TCLP (EPA Method 1311)

Before the leaching procedure can be initiated, the information regarding the wet % and dry % solid of the solid sample as well as the utilization of extraction fluid, either #1 or #2, must be determined.

For Volatile Analysis, a special extractor called Zero Headspace Extractor (ZHE) must be used to generate the TCLP leachate. A maximum of 25 grams of sample is placed in the vessel as the liquid portion is pressed out and saved. A 20X of extraction fluid #1 is charged into the vessel. After 18 +/- 2 hours rotation at 30 +/- 2 rpm, the liquid is pressed out of the vessel. The leachate from ZHE is combined with the initial liquid portion, if any. This is referred as TCLP Leachate. The contaminants in the leachate is determined by EPA Method 8260.

For Non-Volatile Analysis, a minimum of 100 grams is filtered through 0.6 to 0.8 um glass fiber filter. The filtrate, if any, is saved. A 20X of extracted fluid, either #1 or #2, is charged in the glass extraction bottle and then rotated at 30 +/- 2 rpm for 18 +/- 2 hours. After rotation, the sample is filtered through 0.6 to 0.8 um glass fiber filter. The filtrate is combined with the initial liquid, if any. This is referred as TCLP Leachate. The contaminants of Base Neutrals/Acids (BNA), pesticides and herbicides in the leachate are determined by EPA Method 8270, EPA Method 8081 and 8150 respectively.

For the Metal Analysis, a minimum of 100 grams is filtered through 0.6 to 0.8 um glass fiber filter. The filtrate, if any, is saved. A 20X of extracted fluid, either #1 or #2, is charged in the glass or plastic extraction bottle and then rotated at 30 +/- rpm for 18 +/- 2 hours. After rotation, the sample is filtered through 0.6 to 0.8 um glass fiber filter. The filtrate is combined with the initial liquid, if any. This is referred as TCLP Leachate. The contaminants of Metals in the leachate is determined by EPA Method 7471 for mercury, Method 7060 for arsenic, Method 7740 for selenium and Method 6010 (ICAP) and/or Method 7000's (Flame-AA) for the rest of metals.

Chromium Hexavalent (solid)

*Extraction Procedure - SW846 2nd edition 3060, NJDEPE Modified
*Analytical Procedure - SW846 3rd edition 7196, NJDEPE Modified

The hexavalent chromium in the solid sample is extracted with hot, 3% sodium carbonate-2% sodium hydroxide solution. The concentration of hexavalent chromium in the extract, in the absence of interfering substances such as molybdenum, vanadium, and mercury is determined colorimetrically at 540 nm by reaction with diphenylcarbazide in acid solution.

Chromium, Trivalent - (soil)

The concentration of trivalent chromium in the sample is determined from the difference between the total chromium in the sample and the hexavalent chromium in the sample.

Metals (soil)

A 1-5 gram portion of soil is digested with nitric acid and hydrogen peroxide. The digestate is then refluxed with either nitric acid or hydrochloric acid. Diluted hydrochloric acid is used as the final reflux acid for the flame AA or ICAP of Ag, Al, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Ni, Sb, Sn, Tl and Zn. Diluted nitric acid is employed as the final dilution acid for the furnace AA analysis of As, Pb and Se. For the graphite furnace analysis, an aliquot of the digestate is spiked with nickel nitrate solution and is placed into the graphite furnace. The aliquot is then slowly evaporated to dryness, charred and atomized. The absorption of the EDL radiation during atomization is proportional to the element concentration. For the flame AA, the digestate is aspirated and atomized in a flame. The absorption of the HCL radiation during atomization is proportional to the element concentration. The basis of ICAP method is the measurement of atomic emission by an optical spectroscope technique. The emission spectra are dispersed by a grating spectrometer and the intensities of the line are measured and processed by a computer system. For mercury analysis, a 0.5-1.0 gram portion of sample is digested with potassium permanganate and persulfate at acidic condition in a water bath at 95°C. The mercury in the sample is reduced to the elemental state and detected by the cold vapor technique in a closed system. The analytical procedures are derived from "EPA Methods for Evaluating Solid Waste, 3rd Edition, 1986" The AA technique is specified in Method 7000 series. The ICAP technique is specified in Method 6010.

ACCREDITED LABORATORIES, INC.
TCLP PESTICIDES ANALYSIS DATA

CASE NUMBER	8903	MATRIX	Leachate
SAMPLE NUMBER	0008995	DILUTION FACTOR	50
DATA FILE	>G6564	DATE EXTRACTED	08/03/00
CLIENT NAME	RC	DATE ANALYZED	08/03/00
FIELD ID	#1	ANALYZED BY	JEFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
58-89-9	G-BHC (Lindane)	U	.001	0.400
76-44-8	Heptachlor	U	.001	0.008
1024-57-3	Heptachlor Epoxide	U	.001	0.008
72-20-8	Endrin	U	.002	0.02
72-43-5	Methoxychlor	U	.010	10.0
5103-71-9	A-Chlordane	U	.001	0.03
5103-74-2	G-Chlordane	U	.001	0.03
8001-35-2	Toxaphene	U	.050	0.5

SURROGATE COMPOUNDS	RECOVERY	ADVISORY LIMITS	STATUS
DCB	119%	30 - 150	OK
Tetrachloro-m-xylene	74%	30 - 150	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

ACCREDITED LABORATORIES, INC.
TCLP PESTICIDES ANALYSIS DATA

CASE NUMBER		MATRIX	Leachate
SAMPLE NUMBER	PBLK11	DILUTION FACTOR	50
DATA FILE	>G6561	DATE EXTRACTED	08/03/00
CLIENT NAME		DATE ANALYZED	08/03/00
FIELD ID		ANALYZED BY	JEFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
58-89-9	G-BHC (Lindane)	U	.001	0.400
76-44-8	Heptachlor	U	.001	0.008
1024-57-3	Heptachlor Epoxide	U	.001	0.008
72-20-8	Endrin	U	.002	0.02
72-43-5	Methoxychlor	U	.010	10.0
5103-71-9	A-Chlordane	U	.001	0.03
5103-74-2	G-Chlordane	U	.001	0.03
8001-35-2	Toxaphene	U	.050	0.5

SURROGATE COMPOUNDS	RECOVERY	ADVISORY LIMITS	STATUS
DCB	109%	30 - 150	OK
Tetrachloro-m-xylene	77%	30 - 150	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

ACCREDITED LABORATORIES, INC
TCLP HERBICIDE ANALYSIS DATA

CASE NUMBER	8903	MATRIX	Leachate
SAMPLE NUMBER	0008995	DILUTION FACTOR	1
DATA FILE	>A2065	DATE EXTRACTED	08/04/00
CLIENT NAME	RC	DATE ANALYZED	08/04/00
FIELD ID	#1	ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
94757	2,4'-D	U	.100	10.0
93721	SILVEX	U	.010	1.0

U - Indicates compound was analyzed for but not detected

ACCREDITED LABORATORIES, INC
TCLP HERBICIDE ANALYSIS DATA

CASE NUMBER		MATRIX	Leachate
SAMPLE NUMBER	HBLK72	DILUTION FACTOR	1
DATA FILE	>A2062	DATE EXTRACTED	08/04/00
CLIENT NAME		DATE ANALYZED	08/04/00
FIELD ID		ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
94757	2,4'-D	U	.100	10.0
93721	SILVEX	U	.010	1.0

U - Indicates compound was analyzed for but not detected

ACCREDITED LABORATORIES, INC.
INORGANIC ANALYSIS DATA SHEET

Case #: 8903
Sample #: 0008995
Field ID: #1
Client Name: RC

Matrix: Soil
Date Received: 07/31/00

CAS No.	Element	Result MG/KG	MDL MG/KG	Dilution Factor	Method	Date Analyzed
7440-36-0	Antimony	ND	7.12	1	P	08/04/00
7440-38-2	Arsenic	2.81	.731	2	F	08/03/00
7440-39-3	Barium	81.9	2.14	1	P	08/04/00
7440-41-7	Beryllium	1.17	.712	1	P	08/04/00
7440-43-9	Cadmium	2.45	1.07	1	P	08/04/00
7440-47-3	Chromium	15.1	2.14	1	P	08/04/00
7440-50-8	Copper	17.2	2.14	1	P	08/04/00
7439-92-1	Lead	45.2	14.2	1	P	08/04/00
7439-97-6	Mercury	.245	.227	1	CV	08/04/00
7440-02-0	Nickel	15.9	2.14	1	P	08/04/00
7782-49-2	Selenium	ND	1.83	5	F	08/03/00
7440-22-4	Silver	ND	1.07	1	P	08/04/00
7440-28-0	Thallium	ND	1.83	5	F	08/03/00
7440-62-2	Vanadium	25.1	3.56	1	P	08/04/00
7440-66-6	Zinc	67.7	7.12	1	P	08/04/00

Percent Solid of 88.3 is used for all target elements

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
INORGANIC ANALYSIS DATA SHEET

Sample #: PBS1729 Matrix: Soil
Field ID: PREPBLANK Date Prepared: 08/03/00

CAS No.	Element	Result MG/KG	MDL MG/KG	Dilution Factor	Method	Date Analyzed
7440-36-0	Antimony	ND	10.0	1	P	08/04/00
7440-38-2	Arsenic	ND	.500	1	F	08/03/00
7440-39-3	Barium	ND	3.00	1	P	08/04/00
7440-41-7	Beryllium	ND	1.00	1	P	08/04/00
7440-43-9	Cadmium	ND	1.50	1	P	08/04/00
7440-47-3	Chromium	ND	3.00	1	P	08/04/00
7440-50-8	Copper	ND	3.00	1	P	08/04/00
7439-92-1	Lead	ND	20.0	1	P	08/04/00
7439-97-6	Mercury	ND	.200	1	CV	08/04/00
7440-02-0	Nickel	ND	3.00	1	P	08/04/00
7782-49-2	Selenium	ND	.500	1	F	08/03/00
7440-22-4	Silver	ND	1.50	1	P	08/04/00
7440-28-0	Thallium	ND	.500	1	F	08/03/00
7440-62-2	Vanadium	ND	5.00	1	P	08/04/00
7440-66-6	Zinc	ND	10.0	1	P	08/04/00

Percent Solid of 100. is used for all target elements

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
REGULATED TCLP METALS
INORGANIC ANALYSIS DATA SHEET

Case #: 8903
Sample #: 0008995
Field ID: #1
Client Name: RC

Matrix: Leachate
Date Received: 07/31/00

CAS No.	Element	Result MG/L	MDL MG/L	Dilution Factor	Regulatory Level	Method	Date Analyzed
7440-38-2	Arsenic	ND	1.00	1	5.00	P	08/02/00
7440-39-3	Barium	.850	.500	1	100.00	P	08/02/00
7440-43-9	Cadmium	ND	.100	1	1.00	P	08/02/00
7440-47-3	Chromium	ND	.100	1	5.00	P	08/02/00
7439-92-1	Lead	ND	.500	1	5.00	P	08/02/00
7439-97-6	Mercury	ND	.002	2	.20	CV	08/03/00
7782-49-2	Selenium	ND	.500	1	1.00	P	08/02/00
7440-22-4	Silver	ND	.100	1	5.00	P	08/02/00

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
REGULATED TCLP METALS
INORGANIC ANALYSIS DATA SHEET

Sample #: PBL030
Field ID: PREPBLANK

Matrix: Leachate
Date Prepared: 08/01/00

CAS No.	Element	Result MG/L	MDL MG/L	Dilution Factor	Regulatory Level	Method	Date Analyzed
7440-38-2	Arsenic	ND	.500	1	5.00	P	08/02/00
7440-39-3	Barium	ND	.250	1	100.00	P	08/02/00
7440-43-9	Cadmium	ND	.050	1	1.00	P	08/02/00
7440-47-3	Chromium	ND	.050	1	5.00	P	08/02/00
7439-92-1	Lead	ND	.250	1	5.00	P	08/02/00
7439-97-6	Mercury	ND	.001	1	.20	CV	08/03/00
7782-49-2	Selenium	ND	.250	1	1.00	P	08/02/00
7440-22-4	Silver	ND	.050	1	5.00	P	08/02/00

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
GENERAL CHEMISTRY ANALYSIS DATA

Case #: 8903
Sample #: 0008995
Client Name: RC
Field Number: #1

Matrix: Soil
Date Received: 07/31/00
% Moisture: 11.7

ANALYTES	RESULTS	MDL	UNITS	DILUTION FACTOR	METHOD BLANK RESULTS	METHOD BLANK MDL	ANALYSIS DATE
Solids, Percent	88.3	0.10	%	1.			08/03/00
Cyanide, Total	ND	1.07	mg/Kg	1.	ND	0.01	08/02/00
Chromium, Trivalent	15.1	2.14	mg/Kg	1.			08/04/00
Chromium, Hexavalent	ND	2.27	mg/Kg	1.	ND	0.05	08/02/00
Carbon, Total Organic	25600.	162.	mg/Kg	1.	ND	100.	08/02/00

Accredited Laboratories, Inc.
Total Petroleum Hydrocarbon Analysis

Client: RC
Case #: 8903
Analyst: RB

Matrix: Soil
Date Received: 07/31/00
Date Analyzed: 08/02/00

Field #	Sample #	Amount Used (g)	% S	DF	ABS	Result mg/Kg	MDL mg/Kg
#1	0008995	30.23	88.3	1	40	201	22

Response Factor = .13383944

% S = Percent Solids
DF = Dilution Factor
ABS = Absorbance

Method Blank: < 20 mg/Kg

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	8903	MATRIX	Soil
SA[redacted] NUMBER	0008995	DILUTION FACTOR	116
DA[redacted]ILE	>A7278	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	08/01/00
FIELD ID	#1	ANALYZED BY	ROBERT

CAS #	COMPOUND	UG/KG		MDL
107028	Acrolein	U		3300
107131	Acrylonitrile	U		3300
74873	Chloromethane	U		660
74839	Bromomethane	U		660
75014	Vinyl Chloride	U		660
75003	Chloroethane	U		660
75092	Methylene Chloride	2600	B	660
67641	Acetone	3600		660
75694	Trichlorofluoromethane	U		660
75354	1,1 Dichloroethene	U		660
75343	1,1-Dichloroethane	U		660
156605	trans-1,2-Dichloroethene	U		660
67663	Chloroform	U		660
107062	1,2-Dichloroethane	U		660
71556	1,1,1-Trichloroethane	U		660
56235	Carbon Tetrachloride	U		660
75274	Bromodichloromethane	U		660
78875	1,2 Dichloropropane	U		660
10[redacted]5	cis-1,3-Dichloropropene	U		660
79016	Trichloroethene	U		660
71432	Benzene	U		660
124481	Dibromochloromethane	U		660
79005	1,1,2-Trichloroethane	U		660
10061026	trans-1,3-Dichloropropene	U		660
110758	2-Chloroethylvinylether	U		660
75252	Bromoform	U		660
108101	4-Methyl-2-pentanone	U		660
127184	Tetrachloroethene	U		660
79345	1,1,2,2-Tetrachloroethane	U		660
108883	Toluene	U		660
108907	Chlorobenzene	U		660
100414	Ethylbenzene	U		660
100425	Styrene	U		660
1330207	m,p-Xylene	560	J	1300
95476	o-Xylene	190	J	660
156592	cis-1,2-Dichloroethene	U		660
630206	1,1,1,2-Tetrachloroethane	U		660

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	88 %	70-121	OK
Toluene-d8	104 %	81-117	OK
Bromofluorobenzene	95 %	74-121	OK

Percent solid of 88.3 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
D - Indicates result is based on a dilution.
! - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	VBLKA15	DILUTION FACTOR	125
DATA FILE	>A7269	DATE EXTRACTED	
CLIENT NAME		DATE ANALYZED	08/01/00
FIELD ID		ANALYZED BY	ROBERT

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	3100	79016	Trichloroethene	U	630
107131	Acrylonitrile	U	3100	71432	Benzene	U	630
74873	Chloromethane	U	630	124481	Dibromochloromethane	U	630
74839	Bromomethane	U	630	79005	1,1,2-Trichloroethane	U	630
75014	Vinyl Chloride	U	630	10061026	trans-1,3-Dichloropropene	U	630
75003	Chloroethane	U	630	110758	2-Chloroethylvinylether	U	630
75092	Methylene Chloride	2500	630	75252	Bromoform	U	630
67641	Acetone	U	630	108101	4-Methyl-2-pentanone	U	630
75694	Trichlorofluoromethane	U	630	127184	Tetrachloroethene	U	630
75354	1,1-Dichloroethene	U	630	79345	1,1,2,2-Tetrachloroethane	U	630
75343	1,1-Dichloroethane	U	630	108883	Toluene	U	630
156605	trans-1,2-Dichloroethene	U	630	108907	Chlorobenzene	U	630
67663	Chloroform	U	630	100414	Ethylbenzene	U	630
107062	1,2-Dichloroethane	U	630	100425	Styrene	U	630
71556	1,1,1-Trichloroethane	U	630	1330207	m,p-Xylene	U	1300
56235	Carbon Tetrachloride	U	630	95476	o-Xylene	U	630
75274	Bromodichloromethane	U	630	156592	cis-1,2-Dichloroethene	U	630
78875	1,2-Dichloropropane	U	630	630206	1,1,1,2-Tetrachloroethane	U	630
10061015	cis-1,3-Dichloropropene	U	630				

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	92 %	70-121	OK
Toluene-d8	106 %	81-117	OK
Bromofluorobenzene	100 %	74-121	OK

Percent solid of 100 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
D - Indicates result is based on a dilution.
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER	8903	MATRIX	Leachate
SAMPLE NUMBER	0008995	DILUTION FACTOR	10
DATA FILE	>D4851	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	08/03/00
FIELD ID	#1	ANALYZED BY	WILLIAM

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.050	0.5
78933	2-Butanone	U	.100	200.0
56235	Carbon Tetrachloride	U	.050	0.5
108907	Chlorobenzene	U	.050	100.0
67663	Chloroform	U	.050	6.0
75354	1,1-Dichloroethene	U	.050	0.7
107062	1,2-Dichloroethane	U	.050	0.5
127184	Tetrachloroethene	U	.050	0.7
79016	Trichloroethene	U	.050	0.5
75014	Vinyl Chloride	U	.100	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	108 %	76 - 114	OK
Toluene-d8	92 %	88 - 110	OK
Bromofluorobenzene	95 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER		MATRIX	Leachate
SAMPLE NUMBER	VBLKD58	DILUTION FACTOR	1
DATA FILE	>D4849	DATE EXTRACTED	
CLIENT NAME		DATE ANALYZED	08/03/00
FIELD ID		ANALYZED BY	WILLIAM

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.005	0.5
78933	2-Butanone	U	.010	200.0
56235	Carbon Tetrachloride	U	.005	0.5
108907	Chlorobenzene	U	.005	100.0
67663	Chloroform	U	.005	6.0
75354	1,1-Dichloroethene	U	.005	0.7
107062	1,2-Dichloroethane	U	.005	0.5
127184	Tetrachloroethene	U	.005	0.7
79016	Trichloroethene	U	.005	0.5
75014	Vinyl Chloride	U	.010	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	103 %	76 - 114	OK
Toluene-d8	93 %	88 - 110	OK
Bromofluorobenzene	93 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSIS DATA

CASE NUMBER	8903	MATRIX	Soil
[redacted] NUMBER	0002905	DILUTION FACTOR	1.0
[redacted] FILE	080370	DATE EXTRACTED	08/02/00
CLIENT NAME	RE	DATE ANALYZED	08/02/00
FIELD ID	#1	ANALYZED BY	DANIEL

CAS #	COMPOUND	UG/KG		MDL
83329	Acenaphthene	370 J		380
208968	Acenaphthylene	280 J		380
120127	Anthracene	840		380
56553	Benzo(a)Anthracene	2100	R	380
50328	Benzo(a)Pyrene	1700	I	380
205992	Benzo(b)fluoranthene	1400	R	380
191242	Benzo(g,h,i)Perylene	700		380
207089	Benzo(k)Fluoranthene	1200	R	380
65850	Benzoic Acid	U		1900
100516	Benzyl Alcohol	U		380
111444	bis(-2-Chloroethyl)Ether	U		380
108601	bis(2-Chloroisopropyl)ether	U		380
117817	bis(2-Ethylhexyl)Phthalate	360	B	380
111911	bis(-2-Chloroethoxy)Methane	U		380
101553	4-Bromophenyl-phenylether	U		380
85687	Butylbenzylphthalate	U		380
106478	4-Chloroaniline	U		760
91587	2-Chloronaphthalene	U		380
59507	4-Chloro-3-methylphenol	U		380
95 [redacted]	2-Chlorophenol	U		380
7005723	4-Chlorophenyl-phenylether	U		380
218019	Chrysene	2100		380
53703	Dibenzo(a,h)Anthracene	470		380
132649	Dibenzofuran	310 J		380
95501	1,2-Dichlorobenzene	U		380
541731	1,3-Dichlorobenzene	U		380
106467	1,4-Dichlorobenzene	U		380
91941	3,3'-Dichlorobenzidine	U		380
120832	2,4-Dichlorophenol	U		380
84662	Diethylphtnalate	U		380
105679	2,4-Dimethylphenol	U		380
131113	Dimethyl Phthalate	U		380
84742	Di-n-Butylphthalate	U		380
534521	4,6-Dinitro-2-methylphenol	U		380

CAS #	COMPOUND	UG/KG		MDL
51285	2,4-Dinitrophenol	U		380
121142	2,4-Dinitrotoluene	U		380
606202	2,6-Dinitrotoluene	U		380
117840	Di-n-octyl phthalate	U		380
206440	Fluoranthene	4100		380
86737	Fluorene	750		380
118741	Hexachlorobenzene	U		380
87683	Hexachlorobutadiene	U		380
77474	Hexachlorocyclopentadiene	U		380
67721	Hexachloroethane	U		380
193395	Indeno(1,2,3-cd)Pyrene	780		380
78591	Isophorone	U		380
91576	2-Methylnaphthalene	150 J		380
95487	2-Methylphenol	U		380
108394	3&4-Methylphenol	U		380
91203	Naphthalene	200 J		380
88744	2-Nitroaniline	U		380
99092	3-Nitroaniline	U		380
100016	4-Nitroaniline	U		380
98953	Nitrobenzene	U		380
88755	2-Nitrophenol	U		380
100027	4-Nitrophenol	U		380
62759	N-Nitrosodimethylamine	U		380
86306	N-Nitrosodiphenylamine	U		380
621647	N-Nitroso-Di-n-propylamine	U		380
87865	Pentachlorophenol	U		380
85018	Phenanthrene	3200		380
108952	Phenol	U		380
129000	Pyrene	3900		380
120821	1,2,4-Trichlorobenzene	U		380
95954	2,4,5-Trichlorophenol	U		380
88062	2,4,6-Trichlorophenol	U		380
92875	Benzidine	U		380
122667	1,2-Diphenylhydrazine	U		380

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	58 %	23-120	OK
2-Fluorobiphenyl	66 %	30-115	OK
Terphenyl-d14	58 %	18-137	OK
Phenol-d6	60 %	24-113	OK
2-Fluorophenol	62 %	25-121	OK
2,4,6-Tribromophenol	64 %	19-122	OK

Percent recovery of 99 % is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
B - Indicates result is based on a dilution
I - Results exceed industrial surface soil standards.*

B - Indicates compound found in associated blank.
E - Concentration exceeds highest calibration standard.
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey soil cleanup criteria from Site Remediation News Volume 08 Number 1.
** 3-Methylphenol and 4-Methylphenol cannot be separated by the method applied.

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	SBLK33	DILUTION FACTOR	1.0
DATA FILE	B80369	DATE EXTRACTED	08/02/00
CLIENT NAME		DATE ANALYZED	08/02/00
FIELD ID		ANALYZED BY	DANIEL

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
83329	Acenaphtnene	U	330	51285	2,4-Dinitrophenol	U	330
208968	Acenaphthylene	U	330	121142	2,4-Dinitrotoluene	U	330
120127	Anthracene	U	330	606202	2,6-Dinitrotoluene	U	330
56553	Benzo(a)Anthracene	U	330	117840	Di-n-octyl phthalate	U	330
50328	Benzo(a)Pyrene	U	330	206440	Fluoranthene	U	330
205992	Benzo(b)Fluoranthene	U	330	86737	Fluorene	U	330
191242	Benzo(g,h,i)Perylene	U	330	118741	Hexachlorobenzene	U	330
207089	Benzo(k)Fluoranthene	U	330	87683	Hexachlorobutadiene	U	330
65850	Benzoic Acid	U	1700	77474	Hexachlorocyclopentadiene	U	330
100516	Benzyl Alcohal	U	330	67721	Hexachloroethane	U	330
111444	bis(-2-Chloroethyl)Ether	U	330	193395	Indeno(1,2,3-cd)Pyrene	U	330
108601	bis(2-Chloroisopropyl)ether	U	330	78591	Isophorone	U	330
117817	Bis(2-Ethylhexyl)Phthalate	150 J	330	91576	2-Methylnaphthalene	U	330
111911	bis(-2-Chloroethoxy)Methane	U	330	95487	2-Methylphenol	U	330
101553	4-Bromophenyl-phenylether	U	330	108394	3&4-Methylphenol	U	330
85687	Butylbenzylphthalate	U	330	91203	Naphthalene	U	330
106478	4-Chloroaniline	U	330	88744	2-Nitroaniline	U	330
91587	2-Chloronaphthalene	U	330	99092	3-Nitroaniline	U	330
59507	4-Chloro-3-methylphenol	U	330	100016	4-Nitroaniline	U	330
95578	2-Chlorophenol	U	330	98953	Nitrobenzene	U	330
7005723	4-Chlorophenyl-phenylether	U	330	88755	2-Nitrophenol	U	330
218019	Chrysene	U	330	100027	4-Nitrophenol	U	330
53703	Dibenzo(a,h)Anthracene	U	330	62759	N-Nitrosodimethylamine	U	330
132649	Dibenzofuran	U	330	86306	N-Nitrosodiphenylamine	U	330
95501	1,2-Dichlorobenzene	U	330	621647	N-Nitroso-Di-n-propylamine	U	330
541731	1,3-Dichlorobenzene	U	330	87865	Pentachlorophenol	U	330
106467	1,4-Dichlorobenzene	U	330	85018	Phenanthrene	U	330
91941	3,3'-Dichlorobenzidine	U	330	108952	Phenol	U	330
120832	2,4-Dichlorophenol	U	330	129000	Pyrene	U	330
84662	Diethylphthalate	U	330	120821	1,2,4-Trichlorobenzene	U	330
105679	2,4-Dimethylphenol	U	330	95954	2,4,5-Trichlorophenol	U	330
131113	Dimethyl Phthalate	U	330	88062	2,4,6-Trichlorophenol	U	330
84742	Di-n-Butylphthalate	U	330	92875	Benzidine	U	330
534521	4,6-Dinitro-2-methylphenol	U	330	122667	1,2-Diphenylhydrazine	U	330

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	55 %	23-120	Ok
2-Fluorobiphenyl	47 %	30-115	Ok
Terphenyl-d14	51 %	18-137	Ok
Phenol-d5	65 %	24-113	Ok
2-Fluorophenol	55 %	25-121	Ok
2,4,6-Tribromophenol	61 %	19-122	Ok

Percent recovery of 70% is used for all target compounds.

J - Indicates compound concentration found be ow MD
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
I - Results exceed industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Concentration exceeds highest calibration standard.
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 14 Number 1.
** 2-Methylphenol and 4-Methylphenol are not to be considered in the method blank

ACCREDITED LABORATORIES, INC.
TCLP SEMIVOLATILES ANALYSIS DATA

C[illegible] NUMBER	8903	MATRIX	Leachate
SAMPLE NUMBER	0008995	DILUTION FACTOR	10
DATA FILE	>B0395	DATE EXTRACTED	08/03/00
CLIENT NAME	RC	DATE ANALYZED	08/04/00
FIELD ID	#1	ANALYZED BY	DANIEL

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
110861	Pyridine	U	.10	5.0
106467	1,4-Dichlorobenzene	U	.10	7.5
95478	2-Methylphenol	U	.10	200.0
108394	3&4-Methylphenol	U	.10	200.0
67721	Hexachloroethane	U	.10	3.0
989103	Nitrobenzene	U	.10	2.0
87683	Hexachlorobutadiene	U	.10	0.5
88062	2,4,6-Trichlorophenol	U	.10	2.0
9109104	2,4,5-Trichlorophenol	U	.50	400.0
121142	2,4-Dinitrotoluene	U	.10	0.13
118741	Hexachlorobenzene	U	.10	0.13
878610	Pentachlorophenol	U	.10	100.0

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
2-Fluorophenol	54 %	21 - 100	OK
Phenol-d5	59 %	10 - 94	OK
Nitrobenzene-d5	72 %	35 - 114	OK
2-Fluorobiphenyl	59 %	43 - 116	OK
2,4,6-Tribromophenol	102 %	10 - 123	OK
Terphenyl-d14	66 %	33 - 141	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Methylphenol = o-cresol
* 3-Methylphenol = m-cresol
* 4-Methylphenol = p-cresol

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied.

ACCREDITED LABORATORIES, INC.
TCLP SEMIVOLATILES ANALYSIS DATA

CASE NUMBER		MATRIX	Leachate
SAMPLE NUMBER	SBLK38	DILUTION FACTOR	10
DATA FILE	>B0394	DATE EXTRACTED	08/03/00
CLIENT NAME		DATE ANALYZED	08/04/00
FIELD ID		ANALYZED BY	DANIEL

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
110861	Pyridine	U	.10	5.0
106467	1,4-Dichlorobenzene	U	.10	7.5
95478	2-Methylphenol	U	.10	200.0
108394	3&4-Methylphenol	U	.10	200.0
67721	Hexachloroethane	U	.10	3.0
989103	Nitrobenzene	U	.10	2.0
87683	Hexachlorobutadiene	U	.10	0.5
88062	2,4,6-Trichlorophenol	U	.10	2.0
9109104	2,4,5-Trichlorophenol	U	.50	400.0
121142	2,4-Dinitrotoluene	U	.10	0.13
118741	Hexachlorobenzene	U	.10	0.13
878610	Pentachlorophenol	U	.10	100.0

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
2-Fluorophenol	59 %	21 - 100	OK
Phenol-d5	63 %	10 - 94	OK
Nitrobenzene-d5	75 %	35 - 114	OK
2-Fluorobiphenyl	63 %	43 - 116	OK
2,4,6-Tribromophenol	107 %	10 - 123	OK
Terphenyl-d14	70 %	33 - 141	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Methylphenol = o-cresol
* 3-Methylphenol = m-cresol
* 4-Methylphenol = p-cresol

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied.

ACCREDITED LABORATORIES, INC
PESTICIDE/PCB ORGANIC ANALYSIS DATA

CASE NUMBER	8903	MATRIX	Soil
SAMPLE NUMBER	0008995	DILUTION FACTOR	1
DATA FILE	>G6559	DATE EXTRACTED	08/02/00
CLIENT NAME	RC	DATE ANALYZED	08/03/00
FIELD ID	#1	ANALYZED BY	JEFF

CAS#	COMPOUND	UG/KG		MDL
319846	A-BHC	1.42		.755
319857	B-BHC	U		.755
58899	G-BHC (Lindane)	U		.755
319868	D-BHC	U		.755
76448	Heptachlor	.810		.755
309002	Aldrin	.170	J	.755
1024573	Heptachlor Epoxide	1.07		.755
959988	Endosulfan I	U		.755
5103719	A-Chlordane	1.63		.755
5103742	G-Chlordane	2.83		.755
60571	Dieldrin	1.71		1.51
72559	4,4'-DDE	18.6		1.51
72208	Endrin	U		1.51
33213659	Endosulfan II	U		1.51
72548	4,4'-DDD	2.85		1.51
7421934	Endrin Aldehyde	U		1.51
1031078	Endosulfan Sulfate	U		1.51
50293	4,4'-DDT	47.1		1.51
53494705	Endrin Ketone	U		1.51
72435	Methoxychlor	U		7.55
8001352	Toxaphene	U		37.8
12674112	Aroclor-1016	U		18.9
11104282	Aroclor-1221	U		18.9
11141165	Aroclor-1232	U		18.9
53469219	Aroclor-1242	U		18.9
12672296	Aroclor-1248	U		18.9
11097691	Aroclor-1254	973	R	18.9
11096825	Aroclor-1260	U		18.9

Percent Solid of 88.3 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC
PESTICIDE/PCB ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	PBLK10-F	DILUTION FACTOR	1
DATA FILE	>G6558	DATE EXTRACTED	08/02/00
CLIENT NAME		DATE ANALYZED	08/03/00
FIELD ID		ANALYZED BY	JEFF

CAS#	COMPOUND	UG/KG	MDL
319846	A-BHC	U	.667
319857	B-BHC	U	.667
58899	G-BHC (Lindane)	U	.667
319868	D-BHC	U	.667
76448	Heptachlor	U	.667
309002	Aldrin	U	.667
1024573	Heptachlor Epoxide	U	.667
959988	Endosulfan I	U	.667
5103719	A-Chlordane	U	.667
5103742	G-Chlordane	U	.667
60571	Dieldrin	U	1.33
72559	4,4'-DDE	U	1.33
72208	Endrin	U	1.33
33213659	Endosulfan II	U	1.33
72548	4,4'-DDD	U	1.33
7421934	Endrin Aldehyde	U	1.33
1031078	Endosulfan Sulfate	U	1.33
50293	4,4'-DDT	U	1.33
53494705	Endrin Ketone	U	1.33
72435	Methoxychlor	U	6.67
8001352	Toxaphene	U	33.3
12674112	Aroclor-1016	U	16.7
11104282	Aroclor-1221	U	16.7
11141165	Aroclor-1232	U	16.7
53469219	Aroclor-1242	U	16.7
12672296	Aroclor-1248	U	16.7
11097691	Aroclor-1254	U	16.7
11096825	Aroclor-1260	U	16.7

Percent Solid of 100. is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

CHAIN OF CUSTODY FORM

ACCREDITED LABORATORIES, INC.
20 PERSHING AVENUE
CARTERET, NEW JERSEY 07008
PHONE: (732) 541-2025 / (800) ALI-LABS

PAGE 1 OF 1

CLIENT	REBCO CONTRACTING
ADDRESS	P.O. Box 4238
CITY	CLIFTON
STATE	NJ ZIP 07012

PROJECT	G.M. PLANT
CONTACT	JEFF STEELE
PHONE	
FAX	(973) 472-2684

ALI SAMPLE #	FIELD ID	*C	*M	DATE / TIME SAMPLED	SAMPLE DESCRIPTION	ANALYSIS
D008995		3	S	7/31/00	SOIL PILE	PPMEVO, TCLP VOA, Methyl FULL TCLP W/O VO PRIORITY POLLUTANTS W/O VO TOC, TPHC, CR^6, CR^3, Ba, Va

Post-it® Fax Note 7671 | Date 8/8/00 | # of pages ▶ 1c
To Jeff Steele / M Salt | From
Co./Dept. Rebco Contracting | Co. Core = 8905
Phone # Sadat Associates | Phone #
Fax # (973) 472-2684 | Fax #
(201) 243-0120

1,000 Yards

*M = MATRIX: A-AQUEOUS S-SOIL D-SLUDGE P-POTABLE WATER O-OIL F-FILTER G-SOLID W-WIPE O-OTHER

*C = NO. CONTAINERS

TURNAROUND: 5 DAYS (If Blank, Std. 3 weeks)

DELIVERABLES (circle one): STD REDUCED FULL NY-ASP CLP I CLP II

RELINQUISHED BY: PRINT	SIGN	RECEIVED BY: PRINT	SIGN	ORGANIZATION	DATE / TIME
K. Roberts				ACCUTEST Laboratories	

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: K. Roberts SIGN:

COMMENTS	Cooler Temp 5°
P.O.#	8903

ACCREDITED LABORATORIES, INC
PESTICIDE/PCB ORGANIC ANALYSIS DATA

CASE NUMBER	8903	MATRIX	Soil
SAMPLE NUMBER	0008995	DILUTION FACTOR	1
DATA FILE	>06559	DATE EXTRACTED	08/02/00
CLIENT NAME	RC	DATE ANALYZED	08/03/00
FIELD ID	#1	ANALYZED BY	JEFF

CAS#	COMPOUND	UG/KG		MDL
319846	A-BHC	1.42		.755
319857	B-BHC	U		.755
58899	G-BHC (Lindane)	U		.755
319868	D-BHC	U		.755
76448	Heptachlor	.810		.755
309002	Aldrin	.170	J	.755
1024573	Heptachlor Epoxide	1.07		.755
959988	Endosulfan I	U		.755
5103719	A-Chlordane	1.63		.755
5103742	G-Chlordane	2.83		.755
60571	Dieldrin	1.71		1.51
72559	4,4'-DDE	18.6		1.51
72208	Endrin	U		1.51
33213659	Endosulfan II	U		1.51
72548	4,4'-DDD	2.85		1.51
7421934	Endrin Aldehyde	U		1.51
1031078	Endosulfan Sulfate	U		1.51
50293	4,4'-DDT	47.1		1.51
53494705	Endrin Ketone	U		1.51
72435	Methoxychlor	U		7.55
8001352	Toxaphene	U		37.8
12674112	Aroclor-1016	U		18.9
11104282	Aroclor-1221	U		18.9
11141165	Aroclor-1232	U		18.9
53469219	Aroclor-1242	U		18.9
12672296	Aroclor-1248	U		18.9
11097691	Aroclor-1254	973	R	18.9
11096825	Aroclor-1260	U		18.9

Percent Solid of 88.3 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
TCLP SEMIVOLATILES ANALYSIS DATA

CASE NUMBER	8903	MATRIX	Leachate
SAMPLE NUMBER	0008995	DILUTION FACTOR	10
DATA FILE	>80395	DATE EXTRACTED	08/03/00
CLIENT NAME	RC	DATE ANALYZED	08/04/00
FIELD ID	#1	ANALYZED BY	DANIEL

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
110861	Pyridine	U	.10	5.0
106467	1,4-Dichlorobenzene	U	.10	7.5
95478	2-Methylphenol	U	.10	200.0
108394	3&4-Methylphenol	U	.10	200.0
67721	Hexachloroethane	U	.10	3.0
989103	Nitrobenzene	U	.10	2.0
87683	Hexachlorobutadiene	U	.10	0.5
88062	2,4,6-Trichlorophenol	U	.10	2.0
9109104	2,4,5-Trichlorophenol	U	.50	400.0
121142	2,4-Dinitrotoluene	U	.10	0.13
118741	Hexachlorobenzene	U	.10	0.13
878610	Pentachlorophenol	U	.10	100.0

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
2-Fluorophenol	54 %	21 - 100	OK
Phenol-d5	59 %	10 - 94	OK
Nitrobenzene-d5	72 %	35 - 114	OK
2-Fluorobiphenyl	59 %	43 - 116	OK
2,4,6-Tribromophenol	102 %	10 - 123	OK
Terphenyl-d14	66 %	33 - 141	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Methylphenol = o-cresol
* 3-Methylphenol = m-cresol
* 4-Methylphenol = p-cresol

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSIS DATA

CASE NUMBER	8903	MATRIX	Soil
SAMPLE NUMBER	0308995	DILUTION FACTOR	1.0
DATA FILE	z83370	DATE EXTRACTED	08/02/00
CLIENT NAME	RC	DATE ANALYZED	08/02/00
FILE ID	#1	ANALYZED BY	DANIEL

CAS #	COMPOUND	UG/KG		MDL
83329	Acenaphthene	370	J	380
208968	Acenaphthylene	280	J	380
120127	Anthracene	840		380
56553	Benzo(a)Anthracene	2100	R	380
50328	Benzo(a)Pyrene	1900	I	380
205992	Benzo(b)fluoranthene	2400	R	380
191242	Benzo(g,h,i)Perylene	700		380
207089	Benzo(k)Fluoranthene	1200	R	380
65850	Benzoic Acid	U		1900
100516	Benzyl Alcohol	U		380
111444	bis(-2-Chloroethyl)Ether	U		380
108601	bis(2-Chloroisopropyl)ether	U		380
117817	Bis(2-Ethylhexyl)Phtalate	560	B	380
111911	bis(-2-Chloroethoxy)Methane	U		380
101553	4-Bromophenyl-phenylether	U		380
85687	Butylbenzylphthalate	U		380
106478	4-Chloroaniline	U		380
91587	2-Chloronaphthalene	U		380
59507	4-Chloro-3-methylphenol	U		380
95578	2-Chlorophenol	U		380
7005/23	4-Chlorophenyl-phenylether	U		380
218019	Chrysene	2200		380
53703	Dibenzo(a,h)Anthracene	470		380
132649	Dibenzofuran	320	J	380
95501	1,2-Dichlorobenzene	U		380
541731	1,3-Dichlorobenzene	U		380
106467	1,4-Dichlorobenzene	U		380
91941	3,3'-Dichlorobenzidine	U		380
120832	2,4-Dichlorophenol	U		380
84662	Diethylphthalate	U		380
105679	2,4-Dimethylphenol	U		380
131113	Dimethyl Phthalate	U		380
84742	Di-n-Butylphthalate	U		380
534521	4,6-Dinitro-2-methylphenol	U		380
51285	2,4-Dinitrophenol	U		380
121142	2,4-Dinitrotoluene	U		380
606202	2,6-Dinitrotoluene	U		380
117840	Di-n-octyl phthalate	U		380
206440	Fluoranthene	4100		380
86737	Fluorene	750		380
118741	Hexachlorobenzene	U		380
87683	Hexachlorobutadiene	U		380
77474	Hexachlorocyclopentadiene	U		380
67721	Hexachloroethane	U		380
193395	Indeno(1,2,3-cd)Pyrene	780		380
78591	Isophorone	U		380
91576	2-Methylnaphthalene	150	J	380
95487	2-Methylphenol	U		380
108394	3&4-Methylphenol	U		380
91203	Naphthalene	200	J	380
88744	2-Nitroaniline	U		380
99092	3-Nitroaniline	U		380
100016	4-Nitroaniline	U		380
98953	Nitrobenzene	U		380
88755	2-Nitrophenol	U		380
100027	4-Nitrophenol	U		380
62759	N-Nitrosodimethylamine	U		380
86306	N-Nitrosodiphenylamine	U		380
621647	N-Nitroso-Di-n-propylamine	U		380
87865	Pentachlorophenol	U		380
85018	Phenanthrene	3200		380
108952	Phenol	U		380
129000	Pyrene	5900		380
120821	1,2,4-Trichlorobenzene	U		380
95954	2,4,5-Trichlorophenol	U		380
88062	2,4,6-Trichlorophenol	U		380
92875	Benzidine	U		380
122667	1,2-Diphenylhydrazine	U		380

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	58 %	23-120	OK
2-Fluorobiphenyl	48 %	30-115	OK
Terphenyl-d14	54 %	18-137	OK
Phenol-d5	60 %	24-113	OK
2-Fluorophenol	52 %	25-121	OK
2,4,6-Tribromophenol	56 %	19-122	OK

Percent solid of 86.3 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected
D - Indicates result is based on a dilution.
I - Results exceed industrial surface soil standards.*
B - Indicates compound found in associated blank
E - Concentration exceeds highest calibration standard.
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 07 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be seperated by the method applied

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER	8903	MATRIX	Leachate
SAMPLE NUMBER	0008995	DILUTION FACTOR	10
DATA FILE	>D4851	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	08/03/00
FIELD ID	#1	ANALYZED BY	WILLIAM

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.050	0.5
78933	2-Butanone	U	.100	200.0
56235	Carbon Tetrachloride	U	.050	0.5
108907	Chlorobenzene	U	.050	100.0
67663	Chloroform	U	.050	6.0
75354	1,1-Dichloroethene	U	.050	0.7
107062	1,2-Dichloroethane	U	.050	0.5
127184	Tetrachloroethene	U	.050	0.7
79016	Trichloroethene	U	.050	0.5
75014	Vinyl Chloride	U	.100	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	108 %	76 - 114	OK
Toluene-d8	92 %	88 - 110	OK
Bromofluorobenzene	95 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	8903	MATRIX	Soil
SAMPLE NUMBER	0008995	DILUTION FACTOR	1.6
DATA FILE	207278	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	08/01/00
FIELD ID	#1	ANALYZED BY	ROBERT

CAS #	COMPOUND	UG/KG		MDL
107028	Acrolein	U		3300
107131	Acrylonitrile	U		3300
74873	Chloromethane	U		660
74839	Bromomethane	U		660
75014	Vinyl Chloride	U		660
75003	Chloroethane	U		660
75092	Methylene Chloride	2600	B	660
67641	Acetone	3680		660
75694	Trichlorofluoromethane	U		660
75354	1,1-Dichloroethene	U		660
75343	1,1-Dichloroethane	U		660
156605	trans-1,2-Dichloroethene	U		660
67663	Chloroform	U		660
107062	1,2-Dichloroethane	U		660
71556	1,1,1-Trichloroethane	U		660
56235	Carbon Tetrachloride	U		660
75274	Bromodichloromethane	U		660
78875	1,2-Dichloropropane	U		660
10061015	cis-1,3-Dichloropropene	U		660
79016	Trichloroethene	U		660
71432	Benzene	U		660
124481	Dibromochloromethane	U		660
79005	1,1,2-Trichloroethane	U		660
10061026	trans-1,3-Dichloropropene	U		660
110758	2-Chloroethylvinylether	U		660
75252	Bromoform	U		660
108101	4-Methyl-2-pentanone	U		660
127184	Tetrachloroethene	U		660
79345	1,1,2,2-Tetrachloroethane	U		660
108883	Toluene	U		660
108907	Chlorobenzene	U		660
100414	Ethylbenzene	U		660
100425	Styrene	U		660
1330207	m,p-Xylene	560	J	1300
95476	o-Xylene	190	J	660
156592	cis-1,2-Dichloroethene	U		660
630206	1,1,1,2-Tetrachloroethane	U		660

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	88 %	70-121	OK
Toluene-d8	104 %	81-117	OK
Bromofluorobenzene	95 %	74-121	OK

Percent solid of 88.3 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
20 PERSHING AVENUE
CARTERET, NEW JERSEY 07008
PHONE: (732) 541-2025 / (800) ALI-LABS

CHAIN OF CUSTODY FORM

PAGE 1 OF 1

CLIENT	Rebco Contracting	PROJECT	GM Plant
ADDRESS	P.O. Box 4238	CONTACT	Jeff Steele
CITY	Clifton	PHONE	973-472-6067
STATE	NJ ZIP 07012	FAX	973-472-2684

ALI SAMPLE #	FIELD ID	*C	**M	DATE / TIME SAMPLED	SAMPLE DESCRIPTION	ANALYSIS
0004787	#1	3	S	5-3-00	BACK-HALF LEFT FRONT	PPMF VO, TCLP VO [illegible]
0004788	#2	3	S		BACK-HALF LEFT BACK	" "
0004789	#3	3	S		BACK	" "
0004790	#4	3	S		BACK-HALF RIGHT BACK	" "
0004791	#5	3	S		BACK-HALF RIGHT FRONT	" "
0004792	#6	3	S		FRONT	" "
						PP w/o VO, Full TCLP w/o VO
0004793	#7 Comp	1	S	5-3-00		TOC, TPHC, Cr^{+6}, Cr^{+3}
						Ba, V
0004794	#8	1	S	5-3-00		Compaction, Gradation
						Void Volume

**M = MATRIX A=AQUEOUS S=SOIL G=SLUDGE P=POTABLE WATER O=OIL F=FILTER K=SOLID X=OTHER

*C = NO. CONTAINERS TURNAROUND: 5 Day (If Blank, Std. 3 weeks)

DELIVERABLES (circle one) STD REDUCED FULL NY-ASP CLP I CLP II

RELINQUISHED BY: PRINT	SIGN	RECEIVED BY: PRINT	SIGN	ORGANIZATION	DATE	TIME	REASON
K Roberts	Keith Robert	[illegible]	[illegible]	ALI	5/3/00	16:60	Analysis

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: K-Roberts SIGN: Keith Robert

COMMENTS: * Composite sample # 1 thru # 6 for #7 Composite sample
[illegible] Tag 5°

ALI QUOTE#	
ALI CASE#	7976
P.O.#	

ACCREDITED LABORATORIES, INC.
Implementing Tomorrow's Technology, Today™....

Analytical Data Report

for

Rebco Contracting
P.o. Box 4238
Clifton, NJ 07012

Project: G M Plant

Accredited Laboratories Case No.: 7976
Date Received: 05/03/00

Field ID	Laboratory Sample #
#1	200004787
#2	200004788
#3	200004789
#4	200004790
#5	200004791
#6	200004792
#7	200004793
#8	200004794

Accredited Laboratories, Inc. New Jersey Certification Number 12007. This data has been reviewed and accepted by:

Theodore C. Gaydos
Technical Director

ACCREDITED LABORATORIES, INC.
20 PERSHING AVENUE
CARTERET, NEW JERSEY 07008
PHONE: (732) 541-2025 / (800) ALI-LABS

CHAIN OF CUSTODY FORM

PAGE 1 OF 1

CLIENT	Rebco Contracting		
ADDRESS	P.O. Box 4238		
CITY	Clifton		
STATE	NJ	ZIP	07012

PROJECT	GM Plant
CONTACT	Jeff Steele
PHONE	973-472-6067
FAX	973-472-2684

ALI SAMPLE #	FIELD ID	*C	**M	DATE / TIME SAMPLED	SAMPLE DESCRIPTION	ANALYSIS
0004787	#1	3	S	5-3-00	BACK-HALF LEFT FRONT	PP MF VO, TCLP VO neat
0004788	#2	3	S		BACK-HALF LEFT BACK	" "
0004789	#3	3	S		BACK	" "
0004790	#4	3	S		BACK-HALF RIGHT BACK	" "
0004791	#5	3	S		BACK-HALF RIGHT FRONT	" "
0004792	#6	3	S		FRONT	" "
						PP w/o VO, Full TCLP w/o VO
0004793	#7 Comp	1	S	5-3-00		TOC, TPHC, Cr^{+6}, Cr^{+3}
						Ba, V
0004794	#8	1	S	5-3-00		Compaction, Gradation
						Void Volume

**M = MATRIX A=AQUEOUS S=SOIL G=SLUDGE P=POTABLE WATER O=OIL F=FILTER K=SOLID X=OTHER

*C = NO. CONTAINERS TURNAROUND: 5 Day (If Blank, Std. 3 weeks)

DELIVERABLES (circle one) STD REDUCED FULL NY-ASP CLP I CLP II

RELINQUISHED BY: PRINT	SIGN	RECEIVED BY: PRINT	SIGN	ORGANIZATION	DATE	TIME	REASON
K Roberts	Keith Roberts	[illegible]	[illegible]	ALI	5/3/00	16:50	Analysis

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: K. Roberts SIGN: Keith Roberts

COMMENTS: * Composite sample # 1 thru # 6 for #7 Composite sample

Cooler Temp 5°

ALI QUOTE#	
ALI CASE#	7976
P.O.#	

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Soil
SAMPLE NUMBER	0004787	DILUTION FACTOR	108
DATA FILE	>A5937	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#1	ANALYZED BY	ROBERT

CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	3100
107131	Acrylonitrile	U	3100
74873	Chloromethane	U	620
74839	Bromomethane	U	620
75014	Vinyl Chloride	U	620
75003	Chloroethane	U	620
75092	Methylene Chloride	U	620
67641	Acetone	U	620
75694	Trichlorofluoromethane	U	620
75354	1,1-Dichloroethene	U	620
75343	1,1-Dichloroethane	U	620
156605	trans-1,2-Dichloroethene	U	620
67663	Chloroform	U	620
107062	1,2-Dichloroethane	U	620
71556	1,1,1-Trichloroethane	U	620
56235	Carbon Tetrachloride	U	620
75274	Bromodichloromethane	U	620
78875	1,2-Dichloropropane	U	620
10061015	cis-1,3-Dichloropropene	U	620
79016	Trichloroethene	U	620
71432	Benzene	U	620
124481	Dibromochloromethane	U	620
79005	1,1,2-Trichloroethane	U	620
10061026	trans-1,3-Dichloropropene	U	620
110758	2-Chloroethylvinylether	U	620
75252	Bromoform	U	620
108101	4-Methyl-2-pentanone	U	620
127184	Tetrachloroethene	U	620
79345	1,1,2,2-Tetrachloroethane	U	620
108883	Toluene	540 J	620
108907	Chlorobenzene	U	620
100414	Ethylbenzene	U	620
100425	Styrene	U	620
1330207	m,p-Xylene	U	1200
95476	o-Xylene	U	620
156592	cis-1,2-Dichloroethene	U	620
630206	1,1,1,2-Tetrachloroethane	U	

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	72 %	70-121	OK
Toluene-d8	82 %	81-117	OK
Bromofluorobenzene	80 %	74-121	OK

Percent solid of 86.7 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
D - Indicates result is based on a dilution.
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CO[redacted]NUMBER	7976	MATRIX	Soil
SA[redacted]E NUMBER	0004788	DILUTION FACTOR	106
DATA FILE	>A5938	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#2	ANALYZED BY	ROBERT

CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	3000
107131	Acrylonitrile	U	3000
74873	Chloromethane	U	590
74839	Bromomethane	U	590
75014	Vinyl Chloride	U	590
75003	Chloroethane	U	590
75092	Methylene Chloride	U	590
67641	Acetone	U	590
75694	Trichlorofluoromethane	U	590
75354	1,1-Dichloroethene	U	590
75343	1,1-Dichloroethane	U	590
156605	trans-1,2-Dichloroethene	U	590
67663	Chloroform	U	590
107062	1,2-Dichloroethane	U	590
71556	1,1,1-Trichloroethane	U	590
56235	Carbon Tetrachloride	U	590
75274	Bromodichloromethane	U	590
78[redacted]	1,2-Dichloropropane	U	590
10061015	cis-1,3-Dichloropropene	U	590
79016	Trichloroethene	U	590
71432	Benzene	U	590
124481	Dibromochloromethane	U	590
79005	1,1,2-Trichloroethane	U	590
10061026	trans-1,3-Dichloropropene	U	590
110758	2-Chloroethylvinylether	U	590
75252	Bromoform	U	590
108101	4-Methyl-2-pentanone	U	590
127184	Tetrachloroethene	U	590
79345	1,1,2,2-Tetrachloroethane	U	590
108883	Toluene	U	590
108907	Chlorobenzene	U	590
100414	Ethylbenzene	U	590
100425	Styrene	U	590
1330207	m,p-Xylene	U	1200
95476	o-Xylene	U	590
156592	cis-1,2-Dichloroethene	U	590
630206	1,1,1,2-Tetrachloroethane	U	590

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	74 %	70-121	OK
Toluene-d8	83 %	81-117	OK
Bromofluorobenzene	82 %	74-121	OK

Percent solid of 89.1 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
D - Indicates result is based on a dilution.
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Soil
SAMPLE NUMBER	0004789	DILUTION FACTOR	109
DATA FILE	>A5939	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#3	ANALYZED BY	ROBERT

CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	3100
107131	Acrylonitrile	U	3100
74873	Chloromethane	U	620
74839	Bromomethane	U	620
75014	Vinyl Chloride	U	620
75003	Chloroethane	U	620
75092	Methylene Chloride	U	620
67641	Acetone	U	620
75694	Trichlorofluoromethane	U	620
75354	1,1-Dichloroethene	U	620
75343	1,1-Dichloroethane	U	620
156605	trans-1,2-Dichloroethene	U	620
67663	Chloroform	U	620
107062	1,2-Dichloroethane	U	620
71556	1,1,1-Trichloroethane	U	620
56235	Carbon Tetrachloride	U	620
75274	Bromodichloromethane	U	620
78875	1,2-Dichloropropane	U	620
10061015	cis-1,3-Dichloropropene	U	620
79016	Trichloroethene	U	620
71432	Benzene	U	620
124481	Dibromochloromethane	U	620
79005	1,1,2-Trichloroethane	U	620
10061026	trans-1,3-Dichloropropene	U	620
110758	2-Chloroethylvinylether	U	620
75252	Bromoform	U	620
108101	4-Methyl-2-pentanone	U	620
127184	Tetrachloroethene	U	620
79345	1,1,2,2-Tetrachloroethane	U	620
108883	Toluene	U	620
108907	Chlorobenzene	U	620
100414	Ethylbenzene	U	620
100425	Styrene	U	620
1330207	m,p-Xylene	U	1200
95476	o-Xylene	U	620
156592	cis-1,2-Dichloroethene	U	620
630206	1,1,1,2-Tetrachloroethane	U	

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	74 %	70-121	OK
Toluene-d8	84 %	81-117	OK
Bromofluorobenzene	82 %	74-121	OK

Percent solid of 38.0 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
D - Indicates result is based on a dilution.
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

[redacted] NUMBER	7976	MATRIX	Soil
[redacted] NUMBER	0004790	DILUTION FACTOR	98
DATA FILE	>A5940	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#4	ANALYZED BY	ROBERT

CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	2900
107131	Acrylonitrile	U	2900
74873	Chloromethane	U	580
74839	Bromomethane	U	580
75014	Vinyl Chloride	U	580
75003	Chloroethane	U	580
75092	Methylene Chloride	U	580
67641	Acetone	U	580
75694	Trichlorofluoromethane	U	580
75354	1,1-Dichloroethene	U	580
75343	1,1-Dichloroethane	U	580
156605	trans-1,2-Dichloroethene	U	580
67663	Chloroform	U	580
107062	1,2-Dichloroethane	U	580
71556	1,1,1-Trichloroethane	U	580
56235	Carbon Tetrachloride	U	580
75274	Bromodichloromethane	U	580
[redacted]	1,2-Dichloropropane	U	580
10061015	cis-1,3-Dichloropropene	U	580

CAS #	COMPOUND	UG/KG	MDL
79016	Trichloroethene	U	580
71432	Benzene	U	580
124481	Dibromochloromethane	U	580
79005	1,1,2-Trichloroethane	U	580
10061026	trans-1,3-Dichloropropene	U	580
110758	2-Chloroethylvinylether	U	580
75252	Bromoform	U	580
108101	4-Methyl-2-pentanone	U	580
127184	Tetrachloroethene	U	580
79345	1,1,2,2-Tetrachloroethane	U	580
108883	Toluene	U	580
108907	Chlorobenzene	U	580
100414	Ethylbenzene	230 J	580
100425	Styrene	U	580
1330207	m,p-Xylene	1000 J	1200
95476	o-Xylene	430 J	580
156592	cis-1,2-Dichloroethene	U	580
630206	1,1,1,2-Tetrachloroethane	U	580

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2 Dichloroethane-d4	73 %	70-121	OK
Toluene-d8	82 %	81-117	OK
Bromofluorobenzene	84 %	74-121	OK

Percent solid of 85.2 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
D - Indicates result is based on a dilution.
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Soil
SAMPLE NUMBER	0004791	DILUTION FACTOR	98
DATA FILE	>A5941	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#5	ANALYZED BY	ROBERT

CAS #	COMPOUND	UG/KG		MDL
107028	Acrolein	U		2800
107131	Acrylonitrile	U		2800
74873	Chloromethane	U		570
74839	Bromomethane	U		570
75014	Vinyl Chloride	U		570
75003	Chloroethane	U		570
75092	Methylene Chloride	570	B	570
67641	Acetone	U		570
75694	Trichlorofluoromethane	U		570
75354	1,1-Dichloroethene	U		570
75343	1,1-Dichloroethane	U		570
156605	trans-1,2-Dichloroethene	U		570
67663	Chloroform	U		570
107062	1,2-Dichloroethane	U		570
71556	1,1,1-Trichloroethane	U		570
56235	Carbon Tetrachloride	U		570
75274	Bromodichloromethane	U		570
78875	1,2-Dichloropropane	U		570
10061015	cis-1,3-Dichloropropene	U		570

CAS #	COMPOUND	UG/KG	MDL
79016	Trichloroethene	U	570
71432	Benzene	U	570
124481	Dibromochloromethane	U	570
79005	1,1,2-Trichloroethane	U	570
10061026	trans-1,3-Dichloropropene	U	570
110758	2-Chloroethylvinylether	U	570
75252	Bromoform	U	570
108101	4-Methyl-2-pentanone	U	570
127184	Tetrachloroethene	U	570
79345	1,1,2,2-Tetrachloroethane	U	570
108883	Toluene	U	570
108907	Chlorobenzene	U	570
100414	Ethylbenzene	U	570
100425	Styrene	U	570
1330207	m,p-Xylene	U	1100
95476	o-Xylene	U	570
156592	cis-1,2-Dichloroethene	U	570
630206	1,1,1,2-Tetrachloroethane	U	

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	77 %	70-121	OK
Toluene-d8	81 %	81-117	OK
Bromofluorobenzene	82 %	74-121	OK

Percent solid of 86.4 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Soil
SAMPLE NUMBER	0004792	DILUTION FACTOR	109
DA[redacted]ILE	>A5942	DATE EXTRACTED	
CL[redacted] NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#6	ANALYZED BY	ROBERT

CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	3000
107131	Acrylonitrile	U	3000
74873	Chloromethane	U	610
74839	Bromomethane	U	610
75014	Vinyl Chloride	U	610
75003	Chloroethane	U	610
75092	Methylene Chloride	U	610
67641	Acetone	U	610
75694	Trichlorofluoromethane	1000	610
75354	1,1-Dichloroethene	U	610
75343	1,1-Dichloroethane	U	610
156605	trans-1,2-Dichloroethene	U	610
67663	Chloroform	U	610
107062	1,2-Dichloroethane	U	610
71556	1,1,1-Trichloroethane	U	610
56235	Carbon Tetrachloride	U	610
75274	Bromodichloromethane	U	610
78875	1,2-Dichloropropane	U	610
10061015	cis-1,3-Dichloropropene	U	610
79016	Trichloroethene	U	610
71432	Benzene	U	610
124481	Dibromochloromethane	U	610
79005	1,1,2-Trichloroethane	U	610
10061026	trans-1,3-Dichloropropene	U	610
110758	2-Chloroethylvinylether	U	610
75252	Bromoform	U	610
108101	4-Methyl-2-pentanone	U	610
127184	Tetrachloroethene	U	610
79345	1,1,2,2-Tetrachloroethane	U	610
108883	Toluene	U	610
108907	Chlorobenzene	U	610
100414	Ethylbenzene	U	610
100425	Styrene	U	610
1330207	m,p-Xylene	U	1200
95476	o-Xylene	U	610
156592	cis-1,2-Dichloroethene	U	610
630206	1,1,1,2-Tetrachloroethane	U	610

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	80 %	70-121	OK
Toluene-d8	87 %	81-117	OK
Bromofluorobenzene	91 %	74-121	OK

Percent solid of 90.0 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected,
D - Indicates result is based on a dilution.
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	VBLKA53	DILUTION FACTOR	125
DATA FILE	>A5936	DATE EXTRACTED	
CLIENT NAME		DATE ANALYZED	05/10/00
FIELD ID		ANALYZED BY	ROBERT

CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	3100
107131	Acrylonitrile	U	3100
74873	Chloromethane	U	630
74839	Bromomethane	U	630
75014	Vinyl Chloride	U	630
75003	Chloroethane	U	630
75092	Methylene Chloride	320 J	630
67641	Acetone	U	630
75694	Trichlorofluoromethane	U	630
75354	1,1-Dichloroethene	U	630
75343	1,1-Dichloroethane	U	630
156605	trans 1,2-Dichloroethene	U	630
67663	Chloroform	U	630
107062	1,2-Dichloroethane	U	630
71556	1,1,1-Trichloroethane	U	630
56235	Carbon Tetrachloride	U	630
75274	Bromodichloromethane	U	630
78875	1,2-Dichloropropane	U	630
10061015	cis-1,3-Dichloropropene	U	630
79016	Trichloroethene	U	630
71432	Benzene	U	630
124481	Dibromochloromethane	U	630
79005	1,1,2-Trichloroethane	U	630
10061026	trans-1,3-Dichloropropene	U	630
110758	2-Chloroethylvinylether	U	630
75252	Bromoform	U	630
108101	4-Methyl-2-pentanone	U	630
127184	Tetrachloroethene	U	630
79345	1,1,2,2-Tetrachloroethane	U	630
108883	Toluene	U	630
108907	Chlorobenzene	U	630
100414	Ethylbenzene	U	630
100425	Styrene	U	630
1330207	m,p-Xylene	U	1300
95476	o-Xylene	U	630
156592	cis-1,2-Dichloroethene	U	630
630206	1,1,1,2-Tetrachloroethane	U	630

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	92 %	70-121	OK
Toluene-d8	99 %	81-117	OK
Bromofluorobenzene	97 %	74-121	OK

Percent solid of 100 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Leachate
SAMPLE NUMBER	0004787	DILUTION FACTOR	10
DATA FILE	>A5943	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#1	ANALYZED BY	ROBERT

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.050	0.5
78933	2-Butanone	U	.100	200.0
56235	Carbon Tetrachloride	U	.050	0.5
108907	Chlorobenzene	U	.050	100.0
67663	Chloroform	U	.050	6.0
75354	1,1-Dichloroethene	U	.050	0.7
107062	1,2-Dichloroethane	U	.050	0.5
127184	Tetrachloroethene	U	.050	0.7
79016	Trichloroethene	U	.050	0.5
75014	Vinyl Chloride	U	.100	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	90 %	76 - 114	OK
Toluene-d8	99 %	88 - 110	OK
Bromofluorobenzene	96 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Leachate
SAMPLE NUMBER	0004788	DILUTION FACTOR	10
DATA FILE	>A5944	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#2	ANALYZED BY	ROBERT

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.050	0.5
78933	2-Butanone	U	.100	200.0
56235	Carbon Tetrachloride	U	.050	0.5
108907	Chlorobenzene	U	.050	100.0
67663	Chloroform	U	.050	6.0
75354	1,1-Dichloroethene	U	.050	0.7
107062	1,2-Dichloroethane	U	.050	0.5
127184	Tetrachloroethene	U	.050	0.7
79016	Trichloroethene	U	.050	0.5
75014	Vinyl Chloride	U	.100	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	88 %	76 - 114	OK
Toluene-d8	98 %	88 - 110	OK
Bromofluorobenzene	97 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Leachate
SAMPLE NUMBER	0004789	DILUTION FACTOR	10
DATA FILE	>A5945	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#3	ANALYZED BY	ROBERT

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.050	0.5
78933	2-Butanone	U	.100	200.0
56235	Carbon Tetrachloride	U	.050	0.5
108907	Chlorobenzene	U	.050	100.0
67663	Chloroform	U	.050	6.0
75354	1,1-Dichloroethene	U	.050	0.7
107062	1,2-Dichloroethane	U	.050	0.5
127184	Tetrachloroethene	U	.050	0.7
79016	Trichloroethene	U	.050	0.5
75014	Vinyl Chloride	U	.100	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	91 %	76 - 114	OK
Toluene-d8	98 %	88 - 110	OK
Bromofluorobenzene	98 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Leachate
SAMPLE NUMBER	0004790	DILUTION FACTOR	10
DATA FILE	>A5946	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#4	ANALYZED BY	ROBERT

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.050	0.5
78933	2-Butanone	U	.100	200.0
56235	Carbon Tetrachloride	U	.050	0.5
108907	Chlorobenzene	U	.050	100.0
67663	Chloroform	U	.050	6.0
75354	1,1-Dichloroethene	U	.050	0.7
107062	1,2-Dichloroethane	U	.050	0.5
127184	Tetrachloroethene	U	.050	0.7
79016	Trichloroethene	U	.050	0.5
75014	Vinyl Chloride	U	.100	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	90 %	76 - 114	OK
Toluene-d8	99 %	88 - 110	OK
Bromofluorobenzene	97 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Leachate
SAMPLE NUMBER	0004791	DILUTION FACTOR	10
DATA FILE	>A5947	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#5	ANALYZED BY	ROBERT

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.050	0.5
78933	2-Butanone	U	.100	200.0
56235	Carbon Tetrachloride	U	.050	0.5
108907	Chlorobenzene	U	.050	100.0
67663	Chloroform	U	.050	6.0
75354	1,1-Dichloroethene	U	.050	0.7
107062	1,2-Dichloroethane	U	.050	0.5
127184	Tetrachloroethene	U	.050	0.7
79016	Trichloroethene	U	.050	0.5
75014	Vinyl Chloride	U	.100	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	94 %	76 - 114	OK
Toluene-d8	100 %	88 - 110	OK
Bromofluorobenzene	101 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER	7926	MATRIX	Leachate
SAMPLE NUMBER	0004792	DILUTION FACTOR	10
DATA FILE	>A5948	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	05/10/00
FIELD ID	#6	ANALYZED BY	ROBERT

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.050	0.5
78933	2-Butanone	U	.100	200.0
56235	Carbon Tetrachloride	U	.050	0.5
108907	Chlorobenzene	U	.050	100.0
67663	Chloroform	U	.050	6.0
75354	1,1-Dichloroethene	U	.050	0.7
107062	1,2-Dichloroethane	U	.050	0.5
127184	Tetrachloroethene	U	.050	0.7
79016	Trichloroethene	U	.050	0.5
75014	Vinyl Chloride	U	.100	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	91 %	76 - 114	OK
Toluene-d8	100 %	88 - 110	OK
Bromofluorobenzene	98 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER		MATRIX	Leachate
SAMPLE NUMBER	VBLKA53	DILUTION FACTOR	1
DATA FILE	>A5936	DATE EXTRACTED	
CLIENT NAME		DATE ANALYZED	05/10/00
FIELD ID		ANALYZED BY	ROBERT

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.005	0.5
78933	2-Butanone	U	.010	200.0
56235	Carbon Tetrachloride	U	.005	0.5
108907	Chlorobenzene	U	.005	100.0
67663	Chloroform	U	.005	6.0
75354	1,1-Dichloroethene	U	.005	0.7
107062	1,2-Dichloroethane	U	.005	0.5
127184	Tetrachloroethene	U	.005	0.7
79016	Trichloroethene	U	.005	0.5
75014	Vinyl Chloride	U	.010	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	92 %	76 - 114	OK
Toluene-d8	99 %	88 - 110	OK
Bromofluorobenzene	97 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSIS DATA

CASE NUMBER	797A	MATRIX	Soil
SAMPLE NUMBER	0004793	DILUTION FACTOR	1.0
DATA FILE	>B9606	DATE EXTRACTED	05/05/00
CLIENT NAME	KC	DATE ANALYZED	05/05/00
FIELD ID	#7	ANALYZED BY	JANICE

CAS #	COMPOUND	UG/KG		MDL
83329	Acenaphthene	3500		390
208968	Acenaphthylene	280	J	390
120127	Anthracene	5100		390
56553	Benzo(a)Anthracene	9400	E	390
50328	Benzo(a)Pyrene	6400	E	390
205992	Benzo(b)fluoranthene	7000	E	390
191242	Benzo(g,h,i)Perylene	1700		390
207089	Benzo(k)Fluoranthene	4500		390
65850	Benzoic Acid	U		1900
100516	Benzyl Alcohol	U		390
111444	bis(-2-Chloroethyl)Ether	U		390
108601	bis(2-Chloroisopropyl)ether	U		390
117817	Bis(2-Ethylhexyl)Phthalate	570		390
111911	bis(-2-Chloroethoxy)Methane	U		390
101553	4-Bromophenyl-phenylether	U		390
85687	Butylbenzylphthalate	270	J	390
106478	4-Chloroaniline	U		390
91587	2-Chloronaphthalene	U		390
59507	4-Chloro-3-methylphenol	U		390
95578	2-Chlorophenol	U		390
7005723	4-Chlorophenyl-phenylether	U		390
218019	Chrysene	13000	E	390
53703	Dibenzo(a,h)Anthracene	1700		390
132649	Dibenzofuran	2400		390
95501	1,2-Dichlorobenzene	U		390
541731	1,3-Dichlorobenzene	U		390
106467	1,4-Dichlorobenzene	U		390
91941	3,3'-Dichlorobenzidine	U		390
120832	2,4-Dichlorophenol	U		390
84662	Diethylphthalate	U		390
105679	2,4-Dimethylphenol	U		390
131113	Dimethyl Phthalate	U		390
84742	Di-n-Butylphthalate	550		390
534521	4,6-Dinitro-2-methylphenol	U		390

CAS #	COMPOUND	UG/KG		MDL
51285	2,4-Dinitrophenol	U		390
121142	2,4-Dinitrotoluene	U		390
606202	2,6-Dinitrotoluene	U		390
117840	Di-n-octyl phthalate	U		390
206440	Fluoranthene	12000	E	390
86737	Fluorene	3900		390
118741	Hexachlorobenzene	U		390
87683	Hexachlorobutadiene	U		390
77474	Hexachlorocyclopentadiene	U		390
67721	Hexachloroethane	U		390
193395	Indeno(1,2,3-cd)Pyrene	1900		390
78591	Isophorone	U		390
91576	2-Methylnaphthalene	2400		390
95487	2-Methylphenol	U		390
108394	3&4-Methylphenol	80	J	390
91203	Naphthalene	5000		390
88744	2-Nitroaniline	U		390
99092	3-Nitroaniline	U		390
100016	4-Nitroaniline	U		390
98953	Nitrobenzene	U		390
88755	2-Nitrophenol	U		390
100027	4-Nitrophenol	U		390
62759	N-Nitrosodimethylamine	U		390
86306	N-Nitrosodiphenylamine	U		390
621647	N-Nitroso-Di-n-propylamine	U		390
87865	Pentachlorophenol	U		390
85018	Phenanthrene	15000	E	390
108952	Phenol	U		390
129000	Pyrene	16000	E	390
120821	1,2,4-Trichlorobenzene	U		390
95954	2,4,5-Trichlorophenol	U		390
88062	2,4,6-Trichlorophenol	U		390
92875	Benzidine	U		390
122667	1,2-Diphenylhydrazine	U		390

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	62 %	23-120	OK
2-Fluorophenol	41 %	30-115	OK
Terphenyl-d14	106 %	18-137	OK
Phenol-d5	16 %	24-113	OK
2-Fluorophenol	31 %	25-121	OK
2,4,6-Tribromophenol	78 %	19-122	OK

Percent solid is 85.5 as used for all target compounds

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected
Q - Indicates result is based on a titration
B - Indicates compound found in associated blank.
E - Concentration exceeds highest calibration standard.

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

ACCREDITED LABORATORIES, INC.
RNA ORGANIC ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Soil
SAMPLE NUMBER	0004793DL	DILUTION FACTOR	10
DATA FILE	>B9609	DATE EXTRACTED	05/05/00
CLIENT NAME	RC	DATE ANALYZED	05/08/00
FIELD ID	#7	ANALYZED BY	JANICE

CAS #	COMPOUND	UG/KG		MDL	CAS #	COMPOUND	UG/KG		MDL
83329	Acenaphthene	4800	D	3900	51285	2,4-Dinitrophenol	U		3900
208968	Acenaphthylene	U		3900	121142	2,4-Dinitrotoluene	U		3900
120127	Anthracene	8700	D	3900	606202	2,6-Dinitrotoluene	U		3900
56553	Benzo(a)Anthracene	10000	D	3900	117840	Di-n-octyl phthalate	U		3900
50328	Benzo(a)Pyrene	8600	D	3900	206440	Fluoranthene	23000	D	3900
205992	Benzo(b)fluoranthene	9300	D	3900	86737	Fluorene	5900	D	3900
191242	Benzo(g,h,i)Perylene	4900	D	3900	118741	Hexachlorobenzene	U		3900
207089	Benzo(k)Fluoranthene	5900	D	3900	87683	Hexachlorobutadiene	U		3900
65850	Benzoic Acid	U		19000	77474	Hexachlorocyclopentadiene	U		3900
100516	Benzyl Alcohol	U		3900	67721	Hexachloroethane	U		3900
111444	bis(-2-Chloroethyl)Ether	U		3900	193395	Indeno(1,2,3-cd)Pyrene	4800	D	3900
108601	bis(2-Chloroisopropyl)ether	U		3900	78591	Isophorone	U		3900
117817	Bis(2-Ethylhexyl)Phthalate	U		3900	91576	2-Methylnaphthalene	3000	J D	3900
111911	bis(-2-Chloroethoxy)Methane	U		3900	95487	2-Methylphenol	U		3900
101553	4-Bromophenyl-phenylether	U		3900	108394	3&4-Methylphenol	U		3900
85687	Butylbenzylphthalate	U		3900	91203	Naphthalene	8800	D	3900
106478	4-Chloroaniline	U		3900	88744	2-Nitroaniline	U		3900
91587	2-Chloronaphthalene	U		3900	99092	3-Nitroaniline	U		3900
59507	4-Chloro-3-methylphenol	U		3900	100016	4-Nitroaniline	U		3900
95	2-Chlorophenol	U		3900	98953	Nitrobenzene	U		3900
7005723	4-Chlorophenyl-phenylether	U		3900	88755	2-Nitrophenol	U		3900
218019	Chrysene	10000	D	3900	100027	4-Nitrophenol	U		3900
53703	Dibenzo(a,h)Anthracene	3000	J D	3900	62759	N-Nitrosodimethylamine	U		3900
132649	Dibenzofuran	3500	J D	3900	86306	N-Nitrosodiphenylamine	U		3900
95501	1,2-Dichlorobenzene	U		3900	621647	N-Nitroso-Di-n-propylamine	U		3900
541731	1,3-Dichlorobenzene	U		3900	87865	Pentachlorophenol	U		3900
106467	1,4-Dichlorobenzene	U		3900	85018	Phenanthrene	27000	D	3900
91941	3,3'-Dichlorobenzidine	U		3900	108952	Phenol	U		3900
120832	2,4-Dichlorophenol	U		3900	129000	Pyrene	18000	D	3900
84662	Diethylphthalate	U		3900	120821	1,2,4-Trichlorobenzene	U		3900
105679	2,4-Dimethylphenol	U		3900	95954	2,4,5-Trichlorophenol	U		3900
131113	Dimethyl Phthalate	U		3900	88062	2,4,6-Trichlorophenol	U		3900
84742	Di-n-Butylphthalate	500	J D	3900	92875	Benzidine	U		3900
534521	4,6-Dinitro-2-methylphenol	U		3900	122667	1,2-Diphenylhydrazine	U		3900

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	44 %	23-120	OK
2-Fluorobiphenyl	85 %	30-115	OK
Terphenyl-d14	81 %	18-137	OK
Phenol-d5	143 %	24-113	OUT
2-Fluorophenol	100 %	25-121	OK
2,4,6-Tribromophenol	94 %	19-122	OK

Percent solid at 95 R is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected
D - Indicates result is based on a dilution
B - Indicates compound found in associated blank.
E - Concentration exceeds highest calibration standard.

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	SBLK45	DILUTION FACTOR	1.0
DATA FILE	>B9597	DATE EXTRACTED	05/05/00
CLIENT NAME		DATE ANALYZED	05/05/00
FIELD ID		ANALYZED BY	JANICE

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
83329	Acenaphthene	U	330	51285	2,4-Dinitrophenol	U	330
208968	Acenaphthylene	U	330	121142	2,4-Dinitrotoluene	U	330
120127	Anthracene	U	330	606202	2,6-Dinitrotoluene	U	330
56553	Benzo(a)Anthracene	U	330	117840	Di-n-octyl phthalate	U	330
50328	Benzo(a)Pyrene	U	330	206440	Fluoranthene	U	330
205992	Benzo(b)fluoranthene	U	330	86737	Fluorene	U	330
191242	Benzo(g,h,i)Perylene	U	330	118741	Hexachlorobenzene	U	330
207089	Benzo(k)Fluoranthene	U	330	87683	Hexachlorobutadiene	U	330
65850	Benzoic Acid	U	1700	77474	Hexachlorocyclopentadiene	U	330
100516	Benzyl Alcohol	U	330	67721	Hexachloroethane	U	330
111444	bis(-2-Chloroethyl)Ether	U	330	193395	Indeno(1,2,3-cd)Pyrene	U	330
108601	bis(2-Chloroisopropyl)ether	U	330	78591	Isophorone	U	330
117817	Bis(2-Ethylhexyl)Phthalate	U	330	91576	2-Methylnaphthalene	U	330
111911	bis(-2-Chloroethoxy)Methane	U	330	95487	2-Methylphenol	U	330
101553	4-Bromophenyl-phenylether	U	330	108394	3&4-Methylphenol	U	330
85687	Butylbenzylphthalate	U	330	91203	Naphthalene	U	330
106478	4-Chloroaniline	U	330	88744	2-Nitroaniline	U	330
91587	2-Chloronaphthalene	U	330	99092	3-Nitroaniline	U	330
59507	4-Chloro-3-methylphenol	U	330	100016	4-Nitroaniline	U	330
95578	2-Chlorophenol	U	330	98953	Nitrobenzene	U	330
7005723	4-Chlorophenyl-phenylether	U	330	88755	2-Nitrophenol	U	330
218019	Chrysene	U	330	100027	4-Nitrophenol	U	330
53703	Dibenzo(a,h)Anthracene	U	330	62759	N-Nitrosodimethylamine	U	330
132649	Dibenzofuran	U	330	86306	N-Nitrosodiphenylamine	U	330
95501	1,2-Dichlorobenzene	U	330	621647	N-Nitroso-Di-n-propylamine	U	330
541731	1,3-Dichlorobenzene	U	330	87865	Pentachlorophenol	U	330
106467	1,4-Dichlorobenzene	U	330	85018	Phenanthrene	U	330
91941	3,3'-Dichlorobenzidine	U	330	108952	Phenol	U	330
120832	2,4-Dichlorophenol	U	330	129000	Pyrene	U	330
84662	Diethylphthalate	U	330	120821	1,2,4-Trichlorobenzene	U	330
105679	2,4-Dimethylphenol	U	330	95954	2,4,5-Trichlorophenol	U	330
131113	Dimethyl Phthalate	U	330	88062	2,4,6-Trichlorophenol	U	330
84742	Di-n-Butylphthalate	U	330	92875	Benzidine	U	330
534521	4,6-Dinitro-2-methylphenol	U	330	122667	1,2-Diphenylhydrazine	U	330

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	60 %	23-120	OK
2-Fluorobiphenyl	64 %	30-115	OK
Terphenyl-d14	75 %	18-137	OK
Phenol-d5	104 %	24-113	OK
2-Fluorophenol	88 %	25-121	OK
2,4,6-Tribromophenol	102 %	19-122	OK

Percent solid of 100 is used for all target compounds

J - Indicates compound concentration found below MDL
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution
B - Indicates compound found in associated blank.
E - Concentration exceeds highest calibration standard.

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

ACCREDITED LABORATORIES, INC.
TCLP SEMIVOLATILES ANALYSIS DATA

[redacted] NUMBER	7976	MATRIX	Leachate
SAMPLE NUMBER	0004793	DILUTION FACTOR	10
DATA FILE	>B9611	DATE EXTRACTED	05/08/00
CLIENT NAME	RC	DATE ANALYZED	05/08/00
FIELD ID	#7	ANALYZED BY	JANICE

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
110861	Pyridine	U	.10	5.0
106467	1,4-Dichlorobenzene	U	.10	7.5
95478	2-Methylphenol	U	.10	200.0
108394	3&4-Methylphenol	U	.10	200.0
67721	Hexachloroethane	U	.10	3.0
989103	Nitrobenzene	U	.10	2.0
87683	Hexachlorobutadiene	U	.10	0.5
88062	2,4,6-Trichlorophenol	U	.10	2.0
91,09104	2,4,5-Trichlorophenol	U	.50	400.0
121142	2,4-Dinitrotoluene	U	.10	0.13
118741	Hexachlorobenzene	U	.10	0.13
878610	Pentachlorophenol	U	.10	100.0

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
2-Fluorophenol	83 %	21 - 100	OK
Phenol-d5	47 %	10 - 94	OUT
Nitrobenzene-d5	65 %	35 - 114	OK
2-Fluorobiphenyl	67 %	43 - 116	OK
2,4,6-Tribromophenol	88 %	10 - 123	OK
Terphenyl-d14	68 %	33 - 141	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Methylphenol = o-cresol
* 3-Methylphenol = m-cresol
* 4-Methylphenol = p-cresol

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied.

ACCREDITED LABORATORIES, INC.
TCLP SEMIVOLATILES ANALYSIS DATA

CASE NUMBER		MATRIX	Leachate
SAMPLE NUMBER	SBLK46	DILUTION FACTOR	10
DATA FILE	>B9610	DATE EXTRACTED	05/08/00
CLIENT NAME		DATE ANALYZED	05/08/00
FIELD ID		ANALYZED BY	DANTEI

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
110861	Pyridine	U	.10	5.0
106467	1,4-Dichlorobenzene	U	.10	7.5
95478	2-Methylphenol	U	.10	200.0
108394	3&4-Methylphenol	U	.10	200.0
67721	Hexachloroethane	U	.10	3.0
989103	Nitrobenzene	U	.10	2.0
87683	Hexachlorobutadiene	U	.10	0.5
88062	2,4,6-Trichlorophenol	U	.10	2.0
9109104	2,4,5-Trichlorophenol	U	.50	400.0
121142	2,4-Dinitrotoluene	U	.10	0.13
118741	Hexachlorobenzene	U	.10	0.13
878610	Pentachlorophenol	U	.10	100.0

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
2-Fluorophenol	95 %	21 - 100	OK
Phenol-d5	107 %	10 - 94	OUT
Nitrobenzene-d5	77 %	35 - 114	OK
2-Fluorobiphenyl	70 %	43 - 116	OK
2,4,6-Tribromophenol	99 %	10 - 123	OK
Terphenyl-d14	69 %	33 - 141	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard
D - Indicates result is based on a dilution.

* 2-Methylphenol = o-cresol
* 3-Methylphenol = m-cresol
* 4-Methylphenol = p-cresol

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

ACCREDITED LABORATORIES, INC.
TCLP PESTICIDES ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Leachate
SAMPLE NUMBER	0004793	DILUTION FACTOR	50
DATA FILE	>G5656	DATE EXTRACTED	05/08/00
CLIENT NAME	RC	DATE ANALYZED	05/08/00
FIELD ID	#7	ANALYZED BY	JEFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
58-89-9	G-BHC (Lindane)	U	.001	0.400
76-44-8	Heptachlor	U	.001	0.008
1024-57-3	Heptachlor Epoxide	U	.001	0.008
72-20-8	Endrin	U	.002	0.02
72-43-5	Methoxychlor	U	.010	10.0
5103-71-9	A-Chlordane	U	.001	0.03
5103-74-2	G-Chlordane	U	.001	0.03
8001-35-2	Toxaphene	U	.050	0.5

SURROGATE COMPOUNDS	RECOVERY	ADVISORY LIMITS	STATUS
DCB	75%	30 - 150	OK
Tetrachloro-m-xylene	74%	30 - 150	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

ACCREDITED LABORATORIES, INC.
TCLP PESTICIDES ANALYSIS DATA

CASE NUMBER		MATRIX	Leachate
SAMPLE NUMBER	PBLK33	DILUTION FACTOR	50
DATA FILE	>G5655	DATE EXTRACTED	05/08/00
CLIENT NAME		DATE ANALYZED	05/08/00
FIELD ID		ANALYZED BY	JEFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
58-89-9	G-BHC (Lindane)	U	.001	0.400
76-44-8	Heptachlor	U	.001	0.008
1024-57-3	Heptachlor Epoxide	U	.001	0.008
72-20-8	Endrin	U	.002	0.02
72-43-5	Methoxychlor	U	.010	10.0
5103-71-9	A-Chlordane	U	.001	0.03
5103-74-2	G-Chlordane	U	.001	0.03
8001-35-2	Toxaphene	U	.050	0.5

SURROGATE COMPOUNDS	RECOVERY	ADVISORY LIMITS	STATUS
DCB	92%	30 - 150	OK
Tetrachloro-m-xylene	90%	30 - 150	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

ACCREDITED LABORATORIES, INC
TCLP HERBICIDE ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Leachate
SAMPLE NUMBER	0004793	DILUTION FACTOR	1
DATA FILE	>G5660	DATE EXTRACTED	05/08/00
CLIENT NAME	RC	DATE ANALYZED	05/08/00
FIELD ID	#7	ANALYZED BY	JEFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
94757	2,4'-D	U	.100	10.0
93721	SILVEX	U	.010	1.0

U - Indicates compound was analyzed for but not detected

ACCREDITED LABORATORIES, INC
TCLP HERBICIDE ANALYSIS DATA

CASE NUMBER		MATRIX	Leachate
SAMPLE NUMBER	HBLK49	DILUTION FACTOR	1
DATA FILE	>G5659	DATE EXTRACTED	05/08/00
CLIENT NAME		DATE ANALYZED	05/08/00
FIELD ID		ANALYZED BY	JEFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
94757	2,4'-D	U	.100	10.0
93721	SILVEX	U	.010	1.0

U - Indicates compound was analyzed for but not detected

ACCREDITED LABORATORIES, INC
PESTICIDE/PCB ORGANIC ANALYSIS DATA

CASE NUMBER	7976	MATRIX	Soil
SAMPLE NUMBER	0004793	DILUTION FACTOR	1
DATA FILE	>G5666	DATE EXTRACTED	05/08/00
CLIENT NAME	RC	DATE ANALYZED	05/09/00
FIELD ID	#7	ANALYZED BY	CLIFF

CAS#	COMPOUND	UG/KG	MDL
319846	A-BHC	U	.777
319857	B-BHC	U	.777
58899	G-BHC (Lindane)	U	.777
319868	D-BHC	U	.777
76448	Heptachlor	3.34	.777
309002	Aldrin	U	.777
1024573	Heptachlor Epoxide	U	.777
959988	Endosulfan I	U	.777
5103719	A-Chlordane	6.88	.777
5103742	G-Chlordane	5.55	.777
60571	Dieldrin	4.22	1.55
72559	4,4'-DDE	64.1	1.55
72208	Endrin	U	1.55
33213659	Endosulfan II	U	1.55
72548	4,4'-DDD	41.1	1.55
7421934	Endrin Aldehyde	U	1.55
1031078	Endosulfan Sulfate	U	1.55
50293	4,4'-DDT	108	1.55
53494705	Endrin Ketone	U	1.55
72435	Methoxychlor	U	7.77
8001352	Toxaphene	U	38.9
12674112	Aroclor-1016	U	19.4
11104282	Aroclor-1221	U	19.4
11141165	Aroclor-1232	U	19.4
53469219	Aroclor-1242	U	19.4
12672296	Aroclor-1248	U	19.4
11097691	Aroclor-1254	1140	19.4
11096825	Aroclor-1260	U	19.4

Percent Solid of 85.8 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC
PESTICIDE/PCB ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	PBLK34-F	DILUTION FACTOR	1
DATA FILE	>G5665	DATE EXTRACTED	05/08/00
CLIENT NAME		DATE ANALYZED	05/09/00
FIELD ID		ANALYZED BY	CLIFF

CAS#	COMPOUND	UG/KG	MDL
319846	A-BHC	U	.667
319857	B-BHC	U	.667
58899	G-BHC (Lindane)	U	.667
319868	D-BHC	U	.667
76448	Heptachlor	U	.667
309002	Aldrin	U	.667
1024573	Heptachlor Epoxide	U	.667
959988	Endosulfan I	U	.667
5103719	A-Chlordane	U	.667
5103742	G-Chlordane	U	.667
60571	Dieldrin	U	1.33
72559	4,4'-DDE	U	1.33
72208	Endrin	U	1.33
33213659	Endosulfan II	U	1.33
72548	4,4'-DDD	U	1.33
7421934	Endrin Aldehyde	U	1.33
1031078	Endosulfan Sulfate	U	1.33
50293	4,4'-DDT	U	1.33
53494705	Endrin Ketone	U	1.33
72435	Methoxychlor	U	6.67
8001352	Toxaphene	U	33.3
12674112	Aroclor-1016	U	16.7
11104282	Aroclor-1221	U	16.7
11141165	Aroclor-1232	U	16.7
53469219	Aroclor-1242	U	16.7
12672296	Aroclor-1248	U	16.7
11097691	Aroclor-1254	U	16.7
11096825	Aroclor-1260	U	16.7

Percent Solid of 100. is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

ACCREDITED LABORATORIES, INC.
INORGANIC ANALYSIS DATA SHEET

Case #: 7976
Sample #: 0004793
Field ID: #7
Client Name: RC

Matrix: Soil
Date Received: 05/03/00

CAS No.	Element	Result MG/KG	MDL MG/KG	Dilution Factor	Method	Date Analyzed
7440-36-0	Antimony	ND	7.42	1	P	05/08/00
7440-38-2	Arsenic	3.09	.742	2	F	05/09/00
7440-39-3	Barium	87.6	2.23	1	P	05/08/00
7440-41-7	Beryllium	1.27	.371	1	P	05/08/00
7440-43-9	Cadmium	3.36	.742	1	P	05/08/00
7440-47-3	Chromium	17.0	2.23	1	P	05/08/00
7440-50-8	Copper	18.3	2.23	1	P	05/08/00
7439-92-1	Lead	86.9	18.6	1	P	05/08/00
7439-97-6	Mercury	ND	.233	1	CV	05/05/00
7440-02-0	Nickel	19.2	2.97	1	P	05/08/00
7782-49-2	Selenium	ND	1.86	5	F	05/09/00
7440-22-4	Silver	1.02	.742	1	P	05/08/00
7440-28-0	Thallium	ND	1.86	5	F	05/09/00
7440-62-2	Vanadium	31.0	3.71	1	P	05/08/00
7440-66-6	Zinc	83.9	7.42	1	P	05/08/00

Percent Solid of 85.8 is used for all target elements

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
INORGANIC ANALYSIS DATA SHEET

Sample #: PBS1646 Matrix: Soil
Field ID: PREPBLANK Date Prepared: 05/05/00

CAS No.	Element	Result MG/KG	MDL MG/KG	Dilution Factor	Method	Date Analyzed
7440-36-0	Antimony	ND	10.0	1	P	05/08/00
7440-38-2	Arsenic	ND	.500	1	F	05/09/00
7440-39-3	Barium	ND	3.00	1	P	05/08/00
7440-41-7	Beryllium	ND	.500	1	P	05/08/00
7440-43-9	Cadmium	ND	1.00	1	P	05/08/00
7440-47-3	Chromium	ND	3.00	1	P	05/08/00
7440-50-8	Copper	ND	3.00	1	P	05/08/00
7439-92-1	Lead	ND	25.0	1	P	05/08/00
7439-97-6	Mercury	ND	.200	1	CV	05/05/00
7440-02-0	Nickel	ND	4.00	1	P	05/08/00
7782-49-2	Selenium	ND	.500	1	F	05/09/00
7440-22-4	Silver	ND	1.00	1	P	05/08/00
7440-28-0	Thallium	ND	.500	1	F	05/09/00
7440-62-2	Vanadium	ND	5.00	1	P	05/08/00
7440-66-6	Zinc	ND	10.0	1	P	05/08/00

Percent Solid of 100. is used for all target elements

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
REGULATED TCLP METALS
INORGANIC ANALYSIS DATA SHEET

Case #: 7976
Sample #: 0004793
Field ID: #7
Client Name: RC

Matrix: Leachate
Date Received: 05/03/00

CAS No.	Element	Result MG/L	MDL MG/L	Dilution Factor	Regulatory Level	Method	Date Analyzed
7440-38-2	Arsenic	ND	1.00	1	5.00	P	05/05/00
7440-39-3	Barium	3.28	.500	1	100.00	P	05/05/00
7440-43-9	Cadmium	ND	.100	1	1.00	P	05/05/00
7440-47-3	Chromium	ND	.100	1	5.00	P	05/05/00
7439-92-1	Lead	1.33	.500	1	5.00	P	05/05/00
7439-97-6	Mercury	ND	.002	2	.20	CV	05/04/00
7782-49-2	Selenium	ND	.500	1	1.00	P	05/05/00
7440-22-4	Silver	ND	.100	1	5.00	P	05/05/00

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
REGULATED TCLP METALS
INORGANIC ANALYSIS DATA SHEET

Sample #: PBL984
Field ID: PREPBLANK

Matrix: Leachate
Date Prepared: 05/04/00

CAS No.	Element	Result MG/L	MDL MG/L	Dilution Factor	Regulatory Level	Method	Date Analyzed
7440-38-2	Arsenic	ND	.500	1	5.00	P	05/05/00
7440-39-3	Barium	ND	.250	1	100.00	P	05/05/00
7440-43-9	Cadmium	ND	.050	1	1.00	P	05/05/00
7440-47-3	Chromium	ND	.050	1	5.00	P	05/05/00
7439-92-1	Lead	ND	.250	1	5.00	P	05/05/00
7439-97-6	Mercury	ND	.001	1	.20	CV	05/04/00
7782-49-2	Selenium	ND	.250	1	1.00	P	05/05/00
7440-22-4	Silver	ND	.050	1	5.00	P	05/05/00

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
GENERAL CHEMISTRY ANALYSIS DATA

Case #: 7976
Sample #: 0004793
Client Name: RC
Field Number: #7

Matrix: Soil
Date Received: 05/03/00
% Moisture: 14.2

ANALYTES	RESULTS	MDL	UNITS	DILUTION FACTOR	METHOD BLANK RESULTS	METHOD BLANK MDL	ANALYSIS DATE
Solids, Percent	85.8	0.10	%	1.			05/05/00
Cyanide, Total	ND	0.85	mg/Kg	1.	ND	0.01	05/06/00
Chromium, Trivalent	17.0		mg/Kg	1.			05/08/00
Chromium, Hexavalent	ND	2.33	mg/Kg	1.	ND	0.05	05/03/00
Carbon, Total Organic	6580.	205.	mg/Kg	1.	ND	100.	05/10/00

Accredited Laboratories, Inc.
Total Petroleum Hydrocarbon Analysis

Client: RC
Case #: 7976
Analyst: RB

Matrix: Soil
Date Received: 05/03/00
Date Analyzed: 05/04/00

Field #	Sample #	Amount Used (g)	% S	DF	ABS	Result mg/Kg	MDL mg/Kg
#7	0004793	15.00	85.8	1	6	64	47

Response Factor = .13725395

% S = Percent Solids
DF = Dilution Factor
ABS = Absorbance

Method Blank: < 20 mg/Kg

TWIN PEAKS, INC.

P.O. B[illegible]
(718) [illegible]

Report

CLIENT	
PROJECT	
FIELD ID	

DATA FILE	>AL18
DATE RECEIVED	5/05/2000
DATE ANALYZED	5/08/2000

[illegible]SIS / GRADATION

	PERCENT PASSING	JOB LIMITS
	100	N/A
	80.6	N/A
	42.8	N/A
	10.4	N/A

Note: [illegible]

ALEX SIDDINAZARIAN
Lab Manager

[illegible] Washing[illegible]

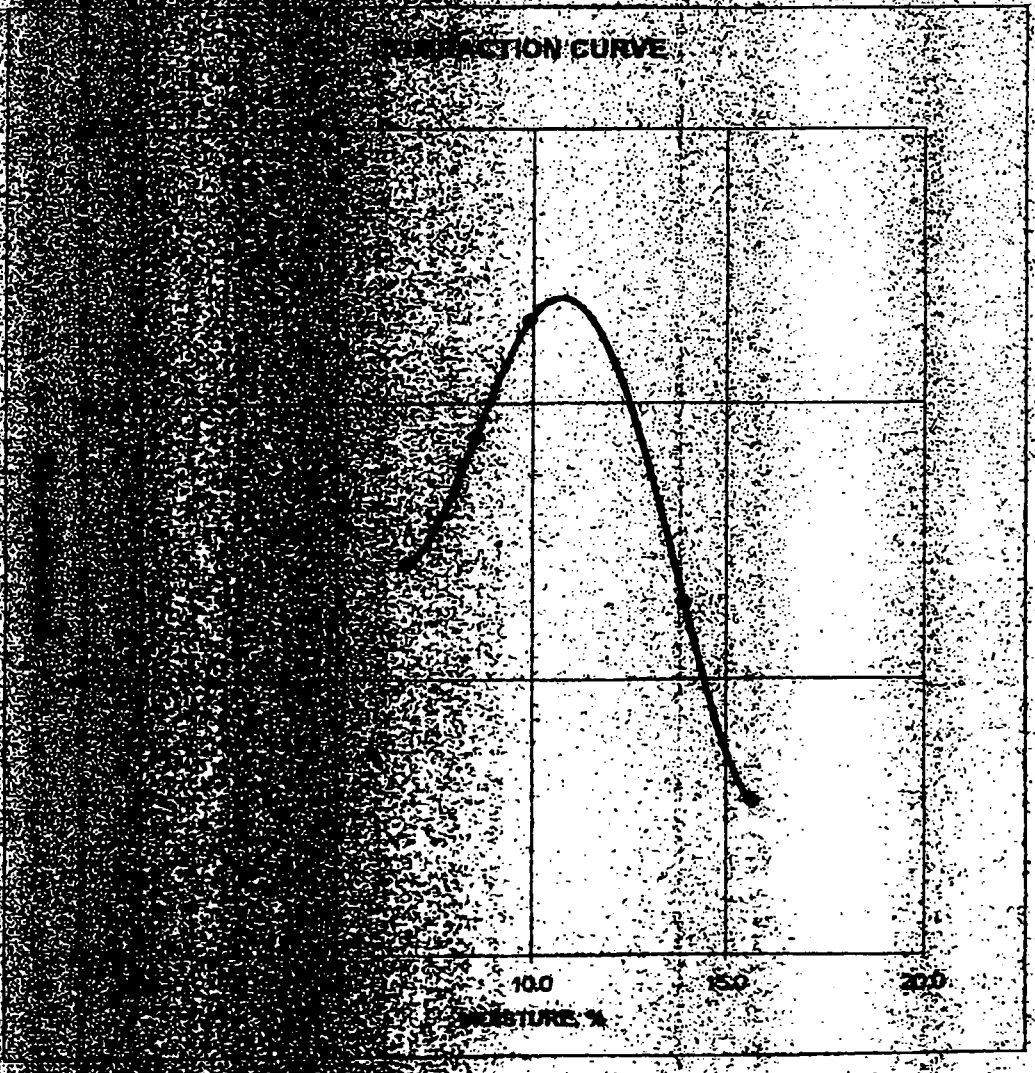
TWIN PEAKS, INC.

Report

CLIENT	
PROJECT	
FIELD ID	

DATA FILE	>AL:18
DATE RECEIVED	5/05/2000
DATE ANALYZED	5/08/2000

COMPACTION CURVE



DENSITY = 121.9 PCF

MOISTURE = 10.8 %

ACCREDITED LABORATORIES, INC.
20 PERSHING AVENUE
CARTERET, NEW JERSEY 07008
PHONE: (732) 541-2025 / (800) ALI-LABS

CHAIN OF CUSTODY FORM

PAGE 1 OF 1

CLIENT	Rebco Contractor	PROJECT	GM Plant
ADDRESS		CONTACT	Jeff Steele
CITY		PHONE	
STATE	ZIP	FAX	

ALI SAMPLE #	FIELD ID	°C	**M	DATE / TIME SAMPLED	SAMPLE DESCRIPTION	ANALYSIS
0008437	1	1	S	7-21-00	Soil Pile	PPHEVO
	1	1	S	"	"	TCLPVOA
0008438	Composite-1	2	S	"	"	Full TCLP w/o VO
						Primarily Pollutants w/o VO
						TOC, TPHC, CR6, CR3
						Ba. V, Compaction
						Gradation, Void Volume

Post-it® Fax Note 7671

To Jeff Steele	Date 7/28/00 # of pages ▶ 15
Co./Dept. Rebco Contractor	From
Phone #	Ser Case # 8815
Fax # (973) 472-2684	Phone #
	Fax #

**M = MATRIX A=AQUEOUS S=SOIL G=SLUDGE P=POTABLE WATER O=OIL F=FILTER K=SOLID X=OTHER

°C = NO. CONTAINERS TURNAROUND: ? (If Blank, Std. 3 weeks)

DELIVERABLES (circle one) STD REDUCED FULL NY-ASP CLP I CLP II

RELINQUISHED BY: PRINT	SIGN	RECEIVED BY: PRINT	SIGN	ORGANIZATION	DATE	TIME	REASON
K Roberts	Keith Roberts	Jason Mills	[signature]	ALI	7/28/00	11:55	Analysis

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: K Roberts SIGN: Keith Roberts

COMMENTS	Composite sample 1 and 2 for Comp	ALI SAMPLE #	
		ALI CASE #	8815
		P.O. #	

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	8815	MATRIX	Soil
SAMPLE NUMBER	0008437	DILUTION FACTOR	109
DATA FILE	>A7154	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	07/24/00
FIELD ID	1	ANALYZED BY	ROBERT

CAS #	COMPOUND	UG/KG		MDL
107028	Acrolein	U		3100
107131	Acrylonitrile	U		3100
74873	Chloromethane	U		620
74839	Bromomethane	U		620
75014	Vinyl Chloride	U		620
75003	Chloroethane	U		620
75092	Methylene Chloride	5400	B	620
67641	Acetone	U		620
75694	Trichlorofluoromethane	U		620
75354	1,1-Dichloroethene	U		620
75343	1,1-Dichloroethane	U		620
156605	trans-1,2-Dichloroethene	U		620
67663	Chloroform	U		620
107062	1,2-Dichloroethane	U		620
71556	1,1,1-Trichloroethane	U		620
56235	Carbon Tetrachloride	U		620
75274	Bromodichloromethane	U		620
78875	1,2-Dichloropropane	U		620
10061015	cis-1,3-Dichloropropene	U		620

CAS #	COMPOUND	UG/KG	MDL
79016	Trichloroethene	U	620
71432	Benzene	U	620
124481	Dibromochloromethane	U	620
79005	1,1,2-Trichloroethane	U	620
10061026	trans-1,3-Dichloropropene	U	620
110758	2-Chloroethylvinylether	U	620
75252	Bromoform	U	620
108101	4-Methyl-2-pentanone	U	620
127184	Tetrachloroethene	U	620
79345	1,1,2,2-Tetrachloroethane	U	620
108883	Toluene	U	620
108907	Chlorobenzene	U	620
100414	Ethylbenzene	U	620
100425	Styrene	U	620
1330207	m,p-Xylene	U	1200
95476	o-Xylene	U	620
156592	cis-1,2-Dichloroethene	U	620
630206	1,1,1,2-Tetrachloroethane	U	620

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	94 %	70-121	OK
Toluene-d8	117 %	81-117	OK
Bromofluorobenzene	109 %	74-121	OK

Percent solid of 88.6 is used for all target compounds.

J - Indicates compound concentration found below MDL
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER	8815	MATRIX	Leachate
SAMPLE NUMBER	0008437	DILUTION FACTOR	10
DATA FILE	>D4792	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	07/25/00
FIELD ID	1	ANALYZED BY	WILLIAM

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.050	0.5
78933	2-Butanone	U	.100	200.0
56235	Carbon Tetrachloride	U	.050	0.5
108907	Chlorobenzene	U	.050	100.0
67663	Chloroform	U	.050	6.0
75354	1,1-Dichloroethene	U	.050	0.7
107062	1,2-Dichloroethane	U	.050	0.5
127184	Tetrachloroethene	U	.050	0.7
79016	Trichloroethene	U	.050	0.5
75014	Vinyl Chloride	U	.100	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	112 %	76 - 114	OK
Toluene-d8	88 %	88 - 110	OK
Bromofluorobenzene	99 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone - Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSIS DATA

CASE NUMBER	8815	MATRIX	Soil
SAMPLE NUMBER	0008438	DILUTION FACTOR	1.0
DATA FILE	>F1350	DATE EXTRACTED	07/25/00
CLIENT NAME	RC	DATE ANALYZED	07/26/00
FIELD ID	COMP 1	ANALYZED BY	DANIEL

CAS #	COMPOUND	UG/KG		MDL	CAS #	COMPOUND	UG/KG		MDL
83329	Acenaphthene	900		360	51285	2,4-Dinitrophenol	U		360
208968	Acenaphthylene	140	J	360	121142	2,4-Dinitrotoluene	U		360
120127	Anthracene	2400		360	606202	2,6-Dinitrotoluene	U		360
56553	Benzo(a)Anthracene	4000	R	360	117840	Di-n-octyl phthalate	U		360
50328	Benzo(a)Pyrene	3500	I	360	206440	Fluoranthene	8300	E	360
205992	Benzo(b)fluoranthene	4800	I	360	86737	Fluorene	1300		360
191242	Benzo(g,h,i)Perylene	930		360	118741	Hexachlorobenzene	U		360
207089	Benzo(k)Fluoranthene	3100	R	360	87683	Hexachlorobutadiene	U		360
65850	Benzoic Acid	U		1800	77474	Hexachlorocyclopentadiene	U		360
100516	Benzyl Alcohol	U		360	67721	Hexachloroethane	U		360
111444	bis(-2-Chloroethyl)Ether	U		360	193395	Indeno(1,2,3-cd)Pyrene	1100	R	360
108601	bis(2-Chloroisopropyl)ether	U		360	78591	Isophorone	U		360
117817	Bis(2-Ethylhexyl)Phthalate	550	B	360	91576	2-Methylnaphthalene	240	J	360
111911	bis(-2-Chloroethoxy)Methane	U		360	95487	2-Methylphenol	U		360
101553	4-Bromophenyl-phenylether	U		360	108394	3&4-Methylphenol	U		360
85687	Butylbenzylphthalate	89	J	360	91203	Naphthalene	660		360
106478	4-Chloroaniline	U		360	88744	2-Nitroaniline	U		360
91587	2-Chloronaphthalene	U		360	99092	3-Nitroaniline	U		360
59507	4-Chloro-3-methylphenol	U		360	100016	4-Nitroaniline	U		360
95578	2-Chlorophenol	U		360	98953	Nitrobenzene	U		360
7005723	4-Chlorophenyl-phenylether	U		360	88755	2-Nitrophenol	U		360
218019	Chrysene	3400		360	100027	4-Nitrophenol	U		360
53703	Dibenzo(a,h)Anthracene	650		360	62759	N-Nitrosodimethylamine	U		360
132649	Dibenzofuran	570		360	86306	N-Nitrosodiphenylamine	U		360
95501	1,2-Dichlorobenzene	U		360	621647	N-Nitroso-Di-n-propylamine	U		360
541731	1,3-Dichlorobenzene	U		360	87865	Pentachlorophenol	U		360
106467	1,4-Dichlorobenzene	U		360	85018	Phenanthrene	6200	E	360
91941	3,3'-Dichlorobenzidine	U		360	108952	Phenol	U		360
120832	2,4-Dichlorophenol	U		360	129000	Pyrene	6800	E	360
84662	Diethylphthalate	U		360	120821	1,2,4-Trichlorobenzene	U		360
105679	2,4-Dimethylphenol	U		360	95954	2,4,5-Trichlorophenol	U		360
131113	Dimethyl Phthalate	U		360	88062	2,4,6-Trichlorophenol	U		360
84742	Di-n-Butylphthalate	43	J	360	92875	Benzidine	U		360
534521	4,6-Dinitro-2-methylphenol	U		360	122667	1,2-Diphenylhydrazine	U		360

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	69 %	23-120	OK
2-Fluorobiphenyl	82 %	30-115	OK
Terphenyl-d14	106 %	18-137	OK
Phenol-d5	103 %	24-113	OK
2-Fluorophenol	111 %	25-121	OK
2,4,6-Tribromophenol	133 %	19-122	OUT

Percent solid of 91.5 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
I - Results exceed industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Concentration exceeds highest calibration standard.
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSIS DATA

CASE NUMBER: 8815
SAMPLE NUMBER: 00084380L
DATA FILE: >R0266
CLIENT NAME: BC
FIELD ID: COMP 1

MATRIX: Soil
DILUTION FACTOR: 5
DATE EXTRACTED: 07/25/00
DATE ANALYZED: 07/26/00
ANALYZED BY: JANICE

CAS #	COMPOUND	UG/KG		MDL
83329	Acenaphthene	940	J D	1800
208968	Acenaphthylene	U		1800
120127	Anthracene	2400	D	1800
56553	Benzo(a)Anthracene	6400	DI	1800
50328	Benzo(a)Pyrene	3800	DI	1800
205992	Benzo(b)fluoranthene	4500	DI	1800
191242	Benzo(g,h,i)Perylene	1900	D	1800
207089	Benzo(k)Fluoranthene	2600	DR	1800
65850	Benzoic Acid	U		9100
100516	Benzyl Alcohol	U		1800
111444	bis(-2-Chloroethyl)Ether	U		1800
108601	bis(2-Chloroisopropyl)ether	U		1800
117817	Bis(2-Ethylhexyl)Phthalate	580	JBD	1800
111911	bis(-2-Chloroethoxy)Methane	U		1800
101553	4-Bromophenyl-phenylether	U		1800
85687	Butylbenzylphthalate	U		1800
106478	4-Chloroaniline	U		1800
91587	2-Chloronaphthalene	U		1800
59507	4-Chloro-3-methylphenol	U		1800
95578	2-Chlorophenol	U		1800
7005723	4-Chlorophenyl-phenylether	U		1800
218019	Chrysene	4200	D	1800
53703	Dibenzo(a,h)Anthracene	1200	J DI	1800
132649	Dibenzofuran	580	J D	1800
95501	1,2-Dichlorobenzene	U		1800
541731	1,3-Dichlorobenzene	U		1800
106467	1,4-Dichlorobenzene	U		1800
91941	3,3'-Dichlorobenzidine	U		1800
120832	2,4-Dichlorophenol	U		1800
84662	Diethylphthalate	U		1800
105679	2,4-Dimethylphenol	U		1800
131113	Dimethyl Phthalate	U		1800
84742	Di-n-Butylphthalate	U		1800
534521	4,6-Dinitro-2-methylphenol	U		1800
51285	2,4-Dinitrophenol	U		1800
121142	2,4-Dinitrotoluene	U		1800
606202	2,6-Dinitrotoluene	U		1800
117840	Di-n-octyl phthalate	U		1800
206440	Fluoranthene	12000	D	1800
86737	Fluorene	1200	J D	1800
118741	Hexachlorobenzene	U		1800
87683	Hexachlorobutadiene	U		1800
77474	Hexachlorocyclopentadiene	U		1800
67721	Hexachloroethane	U		1800
193395	Indeno(1,2,3-cd)Pyrene	2100	DR	1800
78591	Isophorone	U		1800
91576	2-Methylnaphthalene	U		1800
95487	2-Methylphenol	U		1800
108394	3&4-Methylphenol	U		1800
91203	Naphthalene	650	J D	1800
88744	2-Nitroaniline	U		1800
99092	3-Nitroaniline	U		1800
100016	4-Nitroaniline	U		1800
98953	Nitrobenzene	U		1800
88755	2-Nitrophenol	U		1800
100027	4-Nitrophenol	U		1800
62759	N-Nitrosodimethylamine	U		1800
86306	N-Nitrosodiphenylamine	U		1800
621647	N-Nitroso-Di-n-propylamine	U		1800
87865	Pentachlorophenol	U		1800
85018	Phenanthrene	7000	D	1800
108952	Phenol	U		1800
129000	Pyrene	6600	D	1800
120821	1,2,4-Trichlorobenzene	U		1800
95954	2,4,5-Trichlorophenol	U		1800
88062	2,4,6-Trichlorophenol	U		1800
92875	Benzidine	U		1800
122667	1,2-Diphenylhydrazine	U		1800

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	84 %	23-120	OK
2-Fluorobiphenyl	83 %	30-115	OK
Terphenyl-d14	79 %	18-137	OK
Phenol-d5	140 %	24-113	OUT
2-Fluorophenol	129 %	25-121	OUT
2,4,6-Tribromophenol	134 %	19-122	OUT

Percent solid of 91.5 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
I - Results exceed industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Concentration exceeds highest calibration standard.
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

ACCREDITED LABORATORIES, INC.
TCLP SEMIVOLATILES ANALYSIS DATA

CASE NUMBER	8815	MATRIX	Leachate
SAMPLE NUMBER	0008838	DILUTION FACTOR	10
DATA FILE	>80262	DATE EXTRACTED	07/25/00
CLIENT NAME	RC	DATE ANALYZED	07/25/00
FIELD ID	COMP 1	ANALYZED BY	JANICE

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
110861	Pyridine	U	.10	5.0
106467	1,4-Dichlorobenzene	U	.10	7.5
95478	2-Methylphenol	U	.10	200.0
108394	3&4-Methylphenol	U	.10	200.0
67721	Hexachloroethane	U	.10	3.0
989103	Nitrobenzene	U	.10	2.0
87683	Hexachlorobutadiene	U	.10	0.5
88062	2,4,6-Trichlorophenol	U	.10	2.0
9109104	2,4,5-Trichlorophenol	U	.50	400.0
121142	2,4-Dinitrotoluene	U	.10	0.13
118741	Hexachlorobenzene	U	.10	0.13
878610	Pentachlorophenol	U	.10	100.0

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
2-Fluorophenol	68 %	21 - 100	OK
Phenol-d5	64 %	10 - 94	OK
Nitrobenzene-d5	72 %	35 - 114	OK
2-Fluorobiphenyl	68 %	43 - 116	OK
2,4,6-Tribromophenol	98 %	10 - 123	OK
Terphenyl-d14	65 %	33 - 141	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Methylphenol = o-cresol
* 3-Methylphenol = m-cresol
* 4-Methylphenol = p-cresol

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

ACCREDITED LABORATORIES, INC
PESTICIDE/PCB ORGANIC ANALYSIS DATA

CASE NUMBER	8813	MATRIX	Soil
SAMPLE NUMBER	0008438	DILUTION FACTOR	1
DATA FILE	>G6495	DATE EXTRACTED	07/25/00
CLIENT NAME	RC	DATE ANALYZED	07/26/00
FIELD ID	COMP 1	ANALYZED BY	CLIFF

CAS#	COMPOUND	UG/KG	MDL
319846	A-BHC	.820	.729
319857	B-BHC	U	.729
58899	G-BHC (Lindane)	U	.729
319868	D-BHC	13.7	.729
76448	Heptachlor	3.36	.729
309002	Aldrin	1.81	.729
1024573	Heptachlor Epoxide	5.36	.729
959988	Endosulfan I	U	.729
5103719	A-Chlordane	17.7	.729
5103742	G-Chlordane	23.5	.729
60571	Dieldrin	9.46	1.46
72559	4,4'-DDE	93.6	1.46
72208	Endrin	U	1.46
33213659	Endosulfan II	U	1.46
72548	4,4'-DDD	16.1	1.46
7421934	Endrin Aldehyde	U	1.46
1031078	Endosulfan Sulfate	3.67	1.46
50293	4,4'-DDT	192	1.46
53494705	Endrin Ketone	U	1.46
72435	Methoxychlor	U	7.29
8001352	Toxaphene	U	36.4
12674112	Aroclor-1016	U	18.2
11104282	Aroclor-1221	U	18.2
11141165	Aroclor-1232	U	18.2
53469219	Aroclor-1242	U	18.2
12672296	Aroclor-1248	U	18.2
11097691	Aroclor-1254	U	18.2
11096825	Aroclor-1260	U	18.2

Percent Solid of 91.5 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC.
TCLP PESTICIDES ANALYSIS DATA

CASE NUMBER	8815	MATRIX	Leachate
SAMPLE NUMBER	0008438	DILUTION FACTOR	50
DATA FILE	>G6462	DATE EXTRACTED	07/27/00
CLIENT NAME	RC	DATE ANALYZED	07/27/00
FIELD ID	COMP 1	ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
58-89-9	G-BHC (Lindane)	U	.001	0.400
76-44-8	Heptachlor	U	.001	0.008
1024-57-3	Heptachlor Epoxide	U	.001	0.008
72-20-8	Endrin	U	.002	0.02
72-43-5	Methoxychlor	U	.010	10.0
5103-71-9	A-Chlordane	U	.001	0.03
5103-74-2	G-Chlordane	U	.001	0.03
8001-35-2	Toxaphene	U	.050	0.5

SURROGATE COMPOUNDS	RECOVERY	ADVISORY LIMITS	STATUS
DCB	125%	30 - 150	OK
Tetrachloro-m-xylene	100%	30 - 150	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

ACCREDITED LABORATORIES, INC
TCLP HERBICIDE ANALYSIS DATA

CASE NUMBER	8815	MATRIX	Leachate
SAMPLE NUMBER	0008438	DILUTION FACTOR	1
DATA FILE	>A2037	DATE EXTRACTED	07/27/00
CLIENT NAME	RC	DATE ANALYZED	07/27/00
FIELD ID	COMP 1	ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
94757	2,4'-D	U	.100	10.0
93721	SILVEX	U	.010	1.0

U - Indicates compound was analyzed for but not detected

ACCREDITED LABORATORIES, INC.
INORGANIC ANALYSIS DATA SHEET

Case #: 8815
Sample #: 0008438
Field ID: COMP 1
Client Name: RC

Matrix: Soil
Date Received: 07/21/00

CAS No.	Element	Result MG/KG	MDL MG/KG	Dilution Factor	Method	Date Analyzed
7440-36-0	Antimony	ND	7.05	1	P	07/25/00
7440-38-2	Arsenic	4.23	1.42	4	F	07/25/00
7440-39-3	Barium	121	2.12	1	P	07/25/00
7440-41-7	Beryllium	1.61	.705	1	P	07/25/00
7440-43-9	Cadmium	2.62	.705	1	P	07/25/00
7440-47-3	Chromium	19.8	2.12	1	P	07/25/00
7440-50-8	Copper	19.5	2.12	1	P	07/25/00
7439-92-1	Lead	81.1	14.1	1	P	07/25/00
7439-97-6	Mercury	.814	.219	1	CV	07/26/00
7440-02-0	Nickel	19.7	2.82	1	P	07/25/00
7782-49-2	Selenium	ND	1.77	5	F	07/25/00
7440-22-4	Silver	1.38	.705	1	P	07/25/00
7440-28-0	Thallium	ND	1.77	5	F	07/25/00
7440-62-2	Vanadium	33.5	3.53	1	P	07/25/00
7440-66-6	Zinc	124	7.05	1	P	07/25/00

Percent Solid of 91.5 is used for all target elements

ND - Element analyzed for but not detected.
P - Analyzed by ICP
CV - Analyzed by Cold Vapor
F - Analyzed by GFA
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
REGULATED TCLP METALS
INORGANIC ANALYSIS DATA SHEET

Case #: A815
Sample #: 0008638
Field ID: COMP 1
Client Name: BC

Matrix: Leachate
Date Received: 07/21/00

CAS No.	Element	Result MG/L	MDL MG/L	Dilution Factor	Regulatory Level	Method	Date Analyzed
7440-38-2	Arsenic	ND	1.00	1	5.00	P	07/27/00
7440-39-3	Barium	.636	.500	1	100.00	P	07/27/00
7440-43-9	Cadmium	ND	.100	1	1.00	P	07/27/00
7440-47-3	Chromium	ND	.100	1	5.00	P	07/27/00
7439-92-1	Lead	ND	.500	1	5.00	P	07/27/00
7439-97-6	Mercury	ND	.002	2	.20	CV	07/27/00
7782-49-2	Selenium	ND	.400	1	1.00	P	07/27/00
7440-22-4	Silver	ND	.100	1	5.00	P	07/27/00

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
CHEMISTRY ANALYSIS DATA

Soil

Soil

Case #: 8815
Sample #: 00098438
Client Name: AC
Field Number: COMP 1

Date Received: 07/21/00
% Moisture: 8.5

ANALYTES	RESULTS	MDL	UNITS	DILUTION FACTOR	METHOD BLANK RESULTS	METHOD BLANK MDL	ANALYSIS DATE
Solids, Percent	91.5	0.10	%	1.			07/24/00
Cyanide, Total	ND	0.93	mg/Kg	1.	ND	0.01	07/26/00
Chromium, Trivalent	19.8	2.12	mg/Kg	1.			07/25/00
Chromium, Hexavalent	ND	2.19	mg/Kg	1.	ND	0.05	07/21/00
Carbon, Total Organic	10500.	195.	mg/Kg	1.	ND	100.	07/25/00

Accredited Laboratories, Inc.
Total Petroleum Hydrocarbon Analysis

Client: RC
Case #: 8815
Analyst: LM

Matrix: Soil
Date Received: 07/21/00
Date Analyzed: 07/25/00

Field #	Sample #	Amount Used (g)	% S	DF	ABS	Result mg/Kg	MDL mg/Kg
COMP 1	0008438	30.85	91.5	10	12	569	21

Response Factor = .13383944

% S = Percent Solids
DF = Dilution Factor
ABS = Absorbance

Method Blank: < 20 mg/Kg

TWIN PEAKS, INC.

P.O. Box 780638, Maspeth, NY 11378
(718) 482-1911 ■ Fax (718) 482-7767

Report

CLIENT	ACCREDITED LABS
PROJECT	XAL-C-8815
FIELD ID	200008438

DATA FILE	>AL28
DATE RECEIVED	7/24/2000
DATE ANALYZED	7/25/2000

SIEVE ANALYSIS / GRADATION

SIEVE SIZE	PERCENT PASSING	JOB LIMITS
4 "	100	N/A
# 4	75.4	N/A
# 40	41.6	N/A
# 200[1]	11.0	N/A

Note: N/A-not available

Alex S.

ALEX SHAHNAZARIAN
Lab Manager

[1] Washing method ASTM D1140 was used

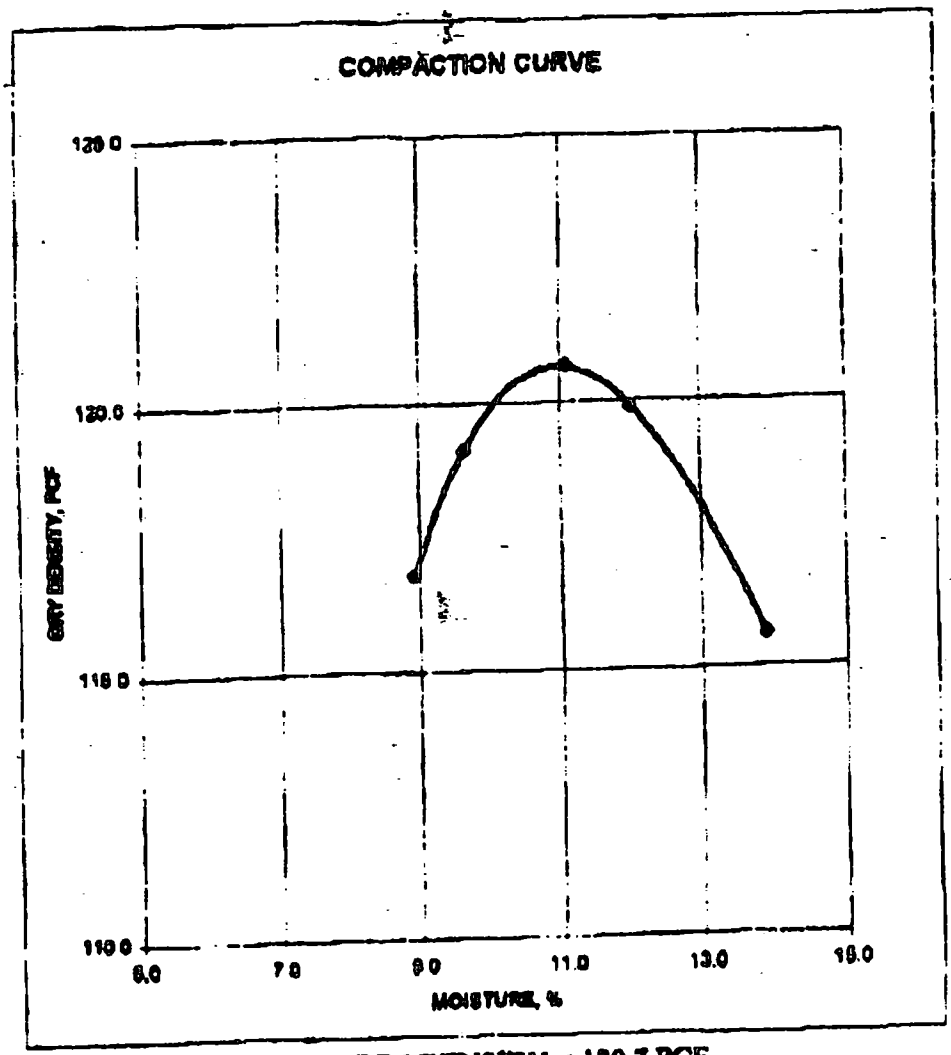
TWIN PEAKS, INC.

P.O. Box 788630, Maspeth, NY 11378
(718) 495-1911 ■ Fax: (718) 482-7767

Report

CLIENT	ACCREDITED LABS
PROJECT	XAL-C-8815
FIELD ID	200008438

DATA FILE	>AL28
DATE RECEIVED	7/24/2000
DATE ANALYZED	7/25/2000



MAXIMUM DENSITY = 120.7 PCF
OPTIMUM MOISTURE = 11.1 %

ACCREDITED LABORATORIES, INC.

Implementing Tomorrow's Technology, Today™....

Analytical Data Report

for

Rebco Contracting
P.o. Box 4238
Clifton, NJ 07012

Project: G. M. Plant

Accredited Laboratories Case No.: 8650
Date Received: 07/06/00

Field ID	Laboratory Sample #
#1-5 COMP	200007615
#8	200007616
#6-10 COMP	200007617

Accredited Laboratories, Inc. New Jersey Certification Number 12007. This data has been reviewed and accepted by:

Theodore C. Gaydos
Technical Director

ACCREDITED LABORATORIES, INC.
20 PERSHING AVENUE
CARTERET, NEW JERSEY 07008
PHONE: (732) 541-2025 / (800) ALI-LABS

CHAIN OF CUSTODY FORM

PAGE 1 OF 1

CLIENT	REBCO CONTRACTING	PROJECT	G.M. PLANT
ADDRESS	P.O. BOX 4238	CONTACT	JEFF STEELE
CITY	CLIFTON	PHONE	973-472-6067
STATE	NJ ZIP 07012	FAX	973-472-2684

ALI SAMPLE #	FIELD ID	*C	**M	DATE / TIME SAMPLED	SAMPLE DESCRIPTION	ANALYSIS
0007615	#1-5 Comp	1	S	7/6/00	FRONT of PILE	FULL TCLP w/o VO,
						PRIORITY POLLULANT w/o VO
						Cr^6, Cr^3, TOC, TPHC, Ba, V
	#1	1	S			SAME AS #1-5
	#2	1	S			SAME AS #1-5
	#3	1	S			SAME AS #1-5
	#4	1	S			SAME AS #1-5
	#5	1	S			SAME AS #1-5
	#6	1	S	7/6/00	TOP of PILE	SAME AS #6-10 Comp
	#7	1	S			SAME AS #6-10 Comp
0007616	#8	3	S			need PPME VO, TCLP VO, SAME AS 6-10
	#9	1	S			SAME AS #6-1[illegible]
	#10	1	S			SAME AS #6-10 Comp
0007617	#6-10 Comp	1	S			FULL TCLP W/O VO,
						PRIORITY POLLULANT w/o VO
						Cr^6, Cr^3, TOC, TPHC, Ba, V

**M = MATRIX A=AQUEOUS S=SOIL G=SLUDGE P=POTABLE WATER O=OIL F=FILTER K=SOLID X=OTHER

*C = NO. CONTAINERS TURNAROUND: 72 HR TAT (If Blank, Std. 3 weeks)

DELIVERABLES (circle one) STD REDUCED FULL NY-ASP CLP I CLP II

RELINQUISHED BY: PRINT	SIGN	RECEIVED BY: PRINT	SIGN	ORGANIZATION	DATE	TIME	REASON
K. Roberts	Kurt Robert	Jason M. [illegible]	[illegible]	ALI	[illegible]	1150	Analysis

PERSON(S) ASSUMING RESPONSIBILITY FOR SAMPLING: PRINT: K. Roberts SIGN: Kurt Robert

	#1 to #5 Composite #1-5 Comp
COMMENTS	#6 to #10 Composite #6-10 Comp

ALI QUOTE#	
ALI CASE#	8650
P.O.#	

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER	8650	MATRIX	Soil
SAMPLE NUMBER	000761E	DILUTION FACTOR	117
DATA FILE	C1425	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	07/07/00
FIELD ID	#8	ANALYZED BY	WILLIAM

CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	3300
107131	Acrylonitrile	U	3300
74873	Chloromethane	U	660
75014	Vinyl Chloride	U	660
74839	Bromomethane	U	660
75003	Chloroethane	U	660
75694	Trichlorofluoromethane	U	660
75354	1,1-Dichloroethene	U	660
75092	Methylene Chloride	1700	660
156605	trans-1,2-Dichloroethene	U	660
75343	1,1-Dichloroethane	U	660
67663	Chloroform	U	660
71556	1,1,1-Trichloroethane	U	660
56235	Carbon Tetrachloride	U	660
107062	1,2-Dichloroethane	U	660
71432	Benzene	U	660
79016	Trichloroethene	U	660
78875	1,2-Dichloropropane	U	660
75274	Bromodichloromethane	U	660
10061015	cis-1,3-dichloropropene	U	660
108883	Toluene	U	660
10061026	trans-1,3-Dichloropropene	U	660
79005	1,1,2-Trichloroethane	U	660
127184	Tetrachloroethene	U	660
124481	Dibromochloromethane	U	660
100414	Ethylbenzene	U	660
108907	Chlorobenzene	U	660
75252	Bromoform	U	660
79345	1,1,2,2-Tetrachloroethane	U	660
110758	2-Chloroethylvinylether	U	660

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	90 %	70-121	OK
Toluene-d8	92 %	81-117	OK
Bromofluorobenzene	94 %	74-121	OK

Percent solid of 89.2 is used for all target compounds.

J - Indicates compound concentration found below MDL
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 04 Number 1.

ACCREDITED LABORATORIES, INC.
VOLATILE ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	VBLKC42	DILUTION FACTOR	125
DATA FILE	>C1423	DATE EXTRACTED	
CLIENT NAME		DATE ANALYZED	07/07/00
FIELD ID		ANALYZED BY	WILLIAM

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
107028	Acrolein	U	3100	71432	Benzene	U	630
107131	Acrylonitrile	U	3100	79016	Trichloroethene	U	630
74873	Chloromethane	U	630	78875	1,2-Dichloropropane	U	630
75014	Vinyl Chloride	U	630	75274	Bromodichloromethane	U	630
74839	Bromomethane	U	630	10061015	cis-1,3-dichloropropene	U	630
75003	Chloroethane	U	630	108883	Toluene	U	630
75694	Trichlorofluoromethane	U	630	10061026	trans-1,3-Dichloropropene	U	630
75354	1,1-Dichloroethene	U	630	79005	1,1,2-Trichloroethane	U	630
75092	Methylene Chloride	U	630	127184	Tetrachloroethene	U	630
156605	trans-1,2-Dichloroethene	U	630	124481	Dibromochloromethane	U	630
75343	1,1-Dichloroethane	U	630	100414	Ethylbenzene	U	630
67663	Chloroform	U	630	108907	Chlorobenzene	U	630
71556	1,1,1-Trichloroethane	U	630	75252	Bromoform	U	630
56235	Carbon Tetrachloride	U	630	79345	1,1,2,2-Tetrachloroethane	U	630
107062	1,2-Dichloroethane	U	630	110758	2-Chloroethylvinylether	U	630

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	103 %	70-121	OK
Toluene-d8	102 %	81-117	OK
Bromofluorobenzene	107 %	74-121	OK

Percent solid of 100 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
I - Result exceeds industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Indicates result exceeds highest calibration standard
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Cleanup Criteria from Site Remediation News Volume 16 Number 1

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER	8650	MATRIX	Leachate
SAMPLE NUMBER	0007616	DILUTION FACTOR	10
DATA FILE	>A6945	DATE EXTRACTED	
CLIENT NAME	RC	DATE ANALYZED	07/10/00
FIELD ID	#8	ANALYZED BY	ROBERT

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.050	0.5
78933	2-Butanone	U	.100	200.0
56235	Carbon Tetrachloride	U	.050	0.5
108907	Chlorobenzene	U	.050	100.0
67663	Chloroform	U	.050	6.0
75354	1,1-Dichloroethene	U	.050	0.7
107062	1,2-Dichloroethane	U	.050	0.5
127184	Tetrachloroethene	U	.050	0.7
79016	Trichloroethene	U	.050	0.5
75014	Vinyl Chloride	U	.100	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	107 %	76 - 114	OK
Toluene-d8	102 %	88 - 110	OK
Bromofluorobenzene	103 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
TCLP VOLATILES ANALYSIS DATA

CASE NUMBER		MATRIX	Leachate
SAMPLE NUMBER	VBLKA98	DILUTION FACTOR	1
DATA FILE	>A6943	DATE EXTRACTED	
CLIENT NAME		DATE ANALYZED	07/10/00
FIELD ID		ANALYZED BY	ROBERT

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
71432	Benzene	U	.005	0.5
78933	2-Butanone	U	.010	200.0
56235	Carbon Tetrachloride	U	.005	0.5
108907	Chlorobenzene	U	.005	100.0
67663	Chloroform	U	.005	6.0
75354	1,1-Dichloroethene	U	.005	0.7
107062	1,2-Dichloroethane	U	.005	0.5
127184	Tetrachloroethene	U	.005	0.7
79016	Trichloroethene	U	.005	0.5
75014	Vinyl Chloride	U	.010	0.2

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	101 %	76 - 114	OK
Toluene-d8	100 %	88 - 110	OK
Bromofluorobenzene	101 %	86 - 115	OK

(U) Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Butanone = Methyl ethyl ketone

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSIS DATA

CASE NUMBER	8650	MATRIX	Soil
[redacted] NUMBER	0007615	DILUTION FACTOR	1.0
DATA FILE	>F1178	DATE EXTRACTED	07/06/00
CLIENT NAME	RC	DATE ANALYZED	07/07/00
FIELD ID	#1-5 COMP	ANALYZED BY	DANIEL

CAS #	COMPOUND	UG/KG	MDL
83329	Acenaphthene	470	370
208968	Acenaphthylene	130 J	370
120127	Anthracene	1100	370
56553	Benzo(a)Anthracene	2300	370
50328	Benzo(a)Pyrene	2200	370
205992	Benzo(b)fluoranthene	2500	370
191242	Benzo(g,h,i)Perylene	920	370
207089	Benzo(k)Fluoranthene	1700	370
65850	Benzoic Acid	U	1900
100516	Benzyl Alcohol	U	370
111444	bis(-2-Chloroethyl)Ether	U	370
108601	bis(2-Chloroisopropyl)ether	U	370
117817	Bis(2-Ethylhexyl)Phthalate	130 J	370
111911	bis(-2-Chloroethoxy)Methane	U	370
101553	4-Bromophenyl-phenylether	U	370
85687	Butylbenzylphthalate	66 J	370
106478	4-Chloroaniline	U	370
91587	2-Chloronaphthalene	U	370
[redacted]	4-Chloro-3-methylphenol	U	370
[redacted]	2-Chlorophenol	U	370
7005723	4-Chlorophenyl-phenylether	U	370
218019	Chrysene	2100	370
53703	Dibenzo(a,h)Anthracene	620	370
132649	Dibenzofuran	270 J	370
95501	1,2-Dichlorobenzene	U	370
541731	1,3-Dichlorobenzene	U	370
106467	1,4-Dichlorobenzene	U	370
91941	3,3'-Dichlorobenzidine	U	370
120832	2,4-Dichlorophenol	U	370
84662	Diethylphthalate	U	370
105679	2,4-Dimethylphenol	U	370
131113	Dimethyl Phthalate	U	370
84742	Di-n-Butylphthalate	47 J	370
534521	4,6-Dinitro-2-methylphenol	U	370
51285	2,4-Dinitrophenol	U	370
121142	2,4-Dinitrotoluene	U	370
606202	2,6-Dinitrotoluene	U	370
117840	Di-n-octyl phthalate	U	370
206440	Fluoranthene	5600	370
86737	Fluorene	630	370
118741	Hexachlorobenzene	U	370
87683	Hexachlorobutadiene	U	370
77474	Hexachlorocyclopentadiene	U	370
67721	Hexachloroethane	U	370
193395	Indeno(1,2,3-cd)Pyrene	1100	370
78591	Isophorone	U	370
91576	2-Methylnaphthalene	120 J	370
95487	2-Methylphenol	U	370
108394	3&4-Methylphenol	U	370
91203	Naphthalene	330 J	370
88744	2-Nitroaniline	U	370
99092	3-Nitroaniline	U	370
100016	4-Nitroaniline	U	370
98953	Nitrobenzene	U	370
88755	2-Nitrophenol	U	370
100027	4-Nitrophenol	U	370
62759	N-Nitrosodimethylamine	U	370
86306	N-Nitrosodiphenylamine	U	370
621647	N-Nitroso-Di-n-propylamine	U	370
87865	Pentachlorophenol	U	370
85018	Phenanthrene	3500	370
108952	Phenol	U	370
129000	Pyrene	3300	370
120821	1,2,4-Trichlorobenzene	U	370
95954	2,4,5-Trichlorophenol	U	370
88062	2,4,6-Trichlorophenol	U	370
92875	Benzidine	U	370
122667	1,2-Diphenylhydrazine	U	370

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d_5	52 %	23-120	OK
2-[redacted]luorobiphenyl	67 %	30-115	OK
Terphenyl-d_{14}	69 %	18-137	OK
Phenol-d_5	57 %	24-113	OK
2-[redacted]luorophenol	41 %	25-121	OK
2,4,6-Tribromophenol	92 %	19-122	OK

Percent solid of 88.9 is used for all target compounds

[redacted]ndicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
B - Indicates compound found in associated blank.
E - Concentration exceeds highest calibration standard.

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

ACCREDITED LABORATORIES, INC.
BNA ORGANIC ANALYSIS DATA

CASE NUMBER	8650	MATRIX	Soil
SAMPLE NUMBER	0007617	DILUTION FACTOR	1.0
DATA FILE	>F1179	DATE EXTRACTED	07/06/00
CLIENT NAME	RC	DATE ANALYZED	07/07/00
FIELD ID	#6-10 COMP	ANALYZED BY	DANIEL

CAS #	COMPOUND	UG/KG		MDL	CAS #	COMPOUND	UG/KG		MDL
83329	Acenaphthene	330	J	380	51285	2,4-Dinitrophenol	U		380
208968	Acenaphthylene	52	J	380	121142	2,4-Dinitrotoluene	U		380
120127	Anthracene	430		380	606202	2,6-Dinitrotoluene	U		380
56553	Benzo(a)Anthracene	790		380	117840	Di-n-octyl phthalate	U		380
50328	Benzo(a)Pyrene	700	I	380	206440	Fluoranthene	2100		380
205992	Benzo(b)fluoranthene	750		380	86737	Fluorene	310	J	380
191242	Benzo(g,h,i)Perylene	250	J	380	118741	Hexachlorobenzene	U		380
207089	Benzo(k)Fluoranthene	760		380	87683	Hexachlorobutadiene	U		380
65850	Benzoic Acid	U		1900	77474	Hexachlorocyclopentadiene	U		380
100516	Benzyl Alcohol	U		380	67721	Hexachloroethane	U		380
111444	bis(-2-Chloroethyl)Ether	U		380	193395	Indeno(1,2,3-cd)Pyrene	300	J	380
108601	bis(2-Chloroisopropyl)ether	U		380	78591	Isophorone	U		380
117817	Bis(2-Ethylhexyl)Phthalate	240	J	380	91576	2-Methylnaphthalene	410		380
111911	bis(-2-Chloroethoxy)Methane	U		380	95487	2-Methylphenol	U		380
101553	4-Bromophenyl-phenylether	U		380	108394	3&4-Methylphenol	U		380
85687	Butylbenzylphthalate	U		380	91203	Naphthalene	190	J	380
106478	4-Chloroaniline	U		380	88744	2-Nitroaniline	U		380
91587	2-Chloronaphthalene	U		380	99092	3-Nitroaniline	U		380
59507	4-Chloro-3-methylphenol	U		380	100016	4-Nitroaniline	U		380
95578	2-Chlorophenol	U		380	98953	Nitrobenzene	U		
7005723	4-Chlorophenyl-phenylether	U		380	88755	2-Nitrophenol	U		380
218019	Chrysene	730		380	100027	4-Nitrophenol	U		380
53703	Dibenzo(a,h)Anthracene	160	J	380	62759	N-Nitrosodimethylamine	U		380
132649	Dibenzofuran	130	J	380	86306	N-Nitrosodiphenylamine	U		380
95501	1,2-Dichlorobenzene	U		380	621647	N-Nitroso-Di-n-propylamine	U		380
541731	1,3-Dichlorobenzene	U		380	87865	Pentachlorophenol	U		380
106467	1,4-Dichlorobenzene	U		380	85018	Phenanthrene	1100		380
91941	3,3'-Dichlorobenzidine	U		380	108952	Phenol	U		380
120832	2,4-Dichlorophenol	U		380	129000	Pyrene	1800		380
84662	Diethylphthalate	U		380	120821	1,2,4-Trichlorobenzene	U		380
105679	2,4-Dimethylphenol	U		380	95954	2,4,5-Trichlorophenol	U		380
131113	Dimethyl Phthalate	U		380	88062	2,4,6-Trichlorophenol	U		380
84742	Di-n-Butylphthalate	U		380	92875	Benzidine	U		380
534521	4,6-Dinitro-2-methylphenol	U		380	122667	1,2-Diphenylhydrazine	U		380

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	62 %	23-120	OK
2-Fluorobiphenyl	72 %	30-115	OK
Terphenyl-d14	96 %	18-137	OK
Phenol-d5	63 %	24-113	OK
2-Fluorophenol	69 %	25-121	OK
2,4,6-Tribromophenol	101 %	19-122	OK

Percent solid of 87.7 is used for all target compounds.

J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
D - Indicates result is based on a dilution.
I - Results exceed industrial surface soil standards.*
B - Indicates compound found in associated blank.
E - Concentration exceeds highest calibration standard.
R - Result exceeds residential surface soil standards.*

* Flags are based on New Jersey Soil Cleanup Criteria from Site Remediation News Volume 06 Number 1.
** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

ACCREDITED LABORATORIES, INC.

BNA ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	SBLK04	DILUTION FACTOR	1.0
DATA FILE	>F1170	DATE EXTRACTED	07/06/00
[redacted]T NAME		DATE ANALYZED	07/07/00
FILE ID		ANALYZED BY	DANIEL

CAS #	COMPOUND	UG/KG	MDL	CAS #	COMPOUND	UG/KG	MDL
83329	Acenaphthene	U	330	51285	2,4-Dinitrophenol	U	330
208968	Acenaphthylene	U	330	121142	2,4-Dinitrotoluene	U	330
120127	Anthracene	U	330	606202	2,6-Dinitrotoluene	U	330
56553	Benzo(a)Anthracene	U	330	117840	Di-n-octyl phthalate	U	330
50328	Benzo(a)Pyrene	U	330	206440	Fluoranthene	U	330
205992	Benzo(b)fluoranthene	U	330	86737	Fluorene	U	330
191242	Benzo(g,h,i)Perylene	U	330	118741	Hexachlorobenzene	U	330
207089	Benzo(k)Fluoranthene	U	330	87683	Hexachlorobutadiene	U	330
65850	Benzoic Acid	U	1700	77474	Hexachlorocyclopentadiene	U	330
100516	Benzyl Alcohol	U	330	67721	Hexachloroethane	U	330
111444	bis(-2-Chloroethyl)Ether	U	330	193395	Indeno(1,2,3-cd)Pyrene	U	330
108601	bis(2-Chloroisopropyl)ether	U	330	78591	Isophorone	U	330
117817	Bis(2-Ethylhexyl)Phthalate	U	330	91576	2-Methylnaphthalene	U	330
111911	bis(-2-Chloroethoxy)Methane	U	330	95487	2-Methylphenol	U	330
101553	4-Bromophenyl-phenylether	U	330	108394	3&4-Methylphenol	U	330
85687	Butylbenzylphthalate	U	330	91203	Naphthalene	U	330
106478	4-Chloroaniline	U	330	88744	2-Nitroaniline	U	330
91587	2-Chloronaphthalene	U	330	99092	3-Nitroaniline	U	330
59507	4-Chloro-3-methylphenol	U	330	100016	4-Nitroaniline	U	330
95578	2-Chlorophenol	U	330	98953	Nitrobenzene	U	330
7[redacted]23	4-Chlorophenyl-phenylether	U	330	88755	2-Nitrophenol	U	330
2[redacted]	Chrysene	U	330	100027	4-Nitrophenol	U	330
53703	Dibenzo(a,h)Anthracene	U	330	62759	N-Nitrosodimethylamine	U	330
132649	Dibenzofuran	U	330	86306	N-Nitrosodiphenylamine	U	330
95501	1,2-Dichlorobenzene	U	330	621647	N-Nitroso-Di-n-propylamine	U	330
541731	1,3-Dichlorobenzene	U	330	87865	Pentachlorophenol	U	330
106467	1,4-Dichlorobenzene	U	330	85018	Phenanthrene	U	330
91941	3,3'-Dichlorobenzidine	U	330	108952	Phenol	U	330
120832	2,4-Dichlorophenol	U	330	129000	Pyrene	U	330
84662	Diethylphthalate	U	330	120821	1,2,4-Trichlorobenzene	U	330
105679	2,4-Dimethylphenol	U	330	95954	2,4,5-Trichlorophenol	U	330
131113	Dimethyl Phthalate	U	330	88062	2,4,6-Trichlorophenol	U	330
84742	Di-n-Butylphthalate	U	330	92875	Benzidine	U	330
534521	4,6-Dinitro-2-methylphenol	U	330	122667	1,2-Diphenylhydrazine	U	330

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
Nitrobenzene-d5	58 %	23-120	OK
2-Fluorobiphenyl	75 %	30-115	OK
Terphenyl-d14	87 %	18-137	OK
Phenol-d5	62 %	24-113	OK
2-Fluorophenol	71 %	25-121	OK
2,4,6-Tribromophenol	110 %	19-122	OK

Percent recovery or [redacted] is used for all target compounds.

J - Indicates compound concentration found below MDL

[redacted] Indicates compound analyzed for but not detected.

[redacted] Indicates result is based on a dilution.

B - Indicates compound found in associated blank.

E - Concentration exceeds highest calibration standard.

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

ACCREDITED LABORATORIES, INC.
TCLP SEMIVOLATILES ANALYSIS DATA

CASE NUMBER	8650	MATRIX	Leachate
SAMPLE NUMBER	0007615	DILUTION FACTOR	10
DATA FILE	>F1173	DATE EXTRACTED	07/07/00
CLIENT NAME	RC	DATE ANALYZED	07/07/00
FIELD ID	#1-5 COMP	ANALYZED BY	DANIEL

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
110861	Pyridine	U	.10	5.0
106467	1,4-Dichlorobenzene	U	.10	7.5
95478	2-Methylphenol	U	.10	200.0
108394	3&4-Methylphenol	U	.10	200.0
67721	Hexachloroethane	U	.10	3.0
989103	Nitrobenzene	U	.10	2.0
87683	Hexachlorobutadiene	U	.10	0.5
88062	2,4,6-Trichlorophenol	U	.10	2.0
9109104	2,4,5-Trichlorophenol	U	.50	400.0
121142	2,4-Dinitrotoluene	U	.10	0.13
118741	Hexachlorobenzene	U	.10	0.13
878610	Pentachlorophenol	U	.10	100.0

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
2-Fluorophenol	62 %	21 - 100	OK
Phenol-d5	54 %	10 - 94	OK
Nitrobenzene-d5	54 %	35 - 114	OK
2-Fluorobiphenyl	67 %	43 - 116	OK
2,4,6-Tribromophenol	103 %	10 - 123	OK
Terphenyl-d14	65 %	33 - 141	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Methylphenol = o-cresol
* 3-Methylphenol = m-cresol
* 4-Methylphenol = p-cresol

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

ACCREDITED LABORATORIES, INC.
TCLP SEMIVOLATILES ANALYSIS DATA

[redacted] NUMBER	8650	MATRIX	Leachate
SAMPLE NUMBER	0007617	DILUTION FACTOR	10
DATA FILE	>F1174	DATE EXTRACTED	07/07/00
CLIENT NAME	RC	DATE ANALYZED	07/07/00
FIELD ID	#6-10 COMP	ANALYZED BY	DANIEL

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
110861	Pyridine	U	.10	5.0
106467	1,4-Dichlorobenzene	U	.10	7.5
95478	2-Methylphenol	U	.10	200.0
108394	3&4-Methylphenol	U	.10	200.0
67721	Hexachloroethane	U	.10	3.0
989103	Nitrobenzene	U	.10	2.0
87683	Hexachlorobutadiene	U	.10	0.5
88062	2,4,6-Trichlorophenol	U	.10	2.0
9109104	2,4,5-Trichlorophenol	U	.50	400.0
121142	2,4-Dinitrotoluene	U	.10	0.13
118741	Hexachlorobenzene	U	.10	0.13
878610	Pentachlorophenol	U	.10	100.0

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
2-Fluorophenol	61 %	21 - 100	OK
Phenol-d5	57 %	10 - 94	OK
Nitrobenzene-d5	58 %	35 - 114	OK
2-Fluorobiphenyl	73 %	43 - 116	OK
2,4,6-Tribromophenol	112 %	10 - 123	OK
Terphenyl-d14	69 %	33 - 141	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Methylphenol = o-cresol
* 3-Methylphenol = m-cresol
* 4-Methylphenol = p-cresol

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied

ACCREDITED LABORATORIES, INC.
TCLP SEMIVOLATILES ANALYSIS DATA

CASE NUMBER		MATRIX	Leachate
SAMPLE NUMBER	SBLK05	DILUTION FACTOR	10
DATA FILE	>F1169	DATE EXTRACTED	07/07/00
CLIENT NAME		DATE ANALYZED	07/07/00
FIELD ID		ANALYZED BY	DANIEL

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
110861	Pyridine	U	.10	5.0
106467	1,4-Dichlorobenzene	U	.10	7.5
95478	2-Methylphenol	U	.10	200.0
108394	3&4-Methylphenol	U	.10	200.0
67721	Hexachloroethane	U	.10	3.0
989103	Nitrobenzene	U	.10	2.0
87683	Hexachlorobutadiene	U	.10	0.5
88067	2,4,6-Trichlorophenol	U	.10	2.0
9109104	2,4,5-Trichlorophenol	U	.50	400.0
121142	2,4-Dinitrotoluene	U	.10	0.13
118741	Hexachlorobenzene	U	.10	0.13
878610	Pentachlorophenol	U	.10	100.0

SURROGATE COMPOUNDS	RECOVERY	LIMITS	STATUS
2-Fluorophenol	64 %	21 - 100	OK
Phenol-d5	61 %	10 - 94	OK
Nitrobenzene-d5	61 %	35 - 114	OK
2-Fluorobiphenyl	74 %	43 - 116	OK
2,4,6-Tribromophenol	115 %	10 - 123	OK
Terphenyl-d14	73 %	33 - 141	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

* 2-Methylphenol = o-cresol
* 3-Methylphenol = m-cresol
* 4-Methylphenol = p-cresol

** 3-Methylphenol and 4-Methylphenol can not be separated by the method applied.

ACCREDITED LABORATORIES, INC.
TCLP PESTICIDES ANALYSIS DATA

CASE NUMBER	8650	MATRIX	Leachate
SAMPLE NUMBER	0007615	DILUTION FACTOR	50
DATA FILE	>A1878	DATE EXTRACTED	07/07/00
CLIENT NAME	RC	DATE ANALYZED	07/07/00
FIELD ID	#1-5 COMP	ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
58-89-9	G-BHC (Lindane)	U	.001	0.400
76-44-8	Heptachlor	U	.001	0.008
1024-57-3	Heptachlor Epoxide	U	.001	0.008
72-20-8	Endrin	U	.002	0.02
72-43-5	Methoxychlor	U	.010	10.0
5103-71-9	A-Chlordane	U	.001	0.03
5103-74-2	G-Chlordane	U	.001	0.03
8001-35-2	Toxaphene	U	.050	0.5

SURROGATE COMPOUNDS	RECOVERY	ADVISORY LIMITS	STATUS
DCB	108%	30 - 150	OK
Tetrachloro-m-xylene	84%	30 - 150	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

ACCREDITED LABORATORIES, INC.
TCLP PESTICIDES ANALYSIS DATA

CASE NUMBER	8650	MATRIX	Leachate
SAMPLE NUMBER	0007617	DILUTION FACTOR	50
DATA FILE	>A1879	DATE EXTRACTED	07/07/00
CLIENT NAME	RC	DATE ANALYZED	07/07/00
FIELD ID	#6-10 COMP	ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
58-89-9	G-BHC (Lindane)	U	.001	0.400
76-44-8	Heptachlor	U	.001	0.008
1024-57-3	Heptachlor Epoxide	U	.001	0.008
72-20-8	Endrin	U	.002	0.02
72-43-5	Methoxychlor	U	.010	10.0
5103-71-9	A-Chlordane	U	.001	0.03
5103-74-2	G-Chlordane	U	.001	0.03
8001-35-2	Toxaphene	U	.050	0.5

SURROGATE COMPOUNDS	RECOVERY	ADVISORY LIMITS	STATUS
DCB	108%	30 - 150	OK
Tetrachloro-m-xylene	81%	30 - 150	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

ACCREDITED LABORATORIES, INC.
TCLP PESTICIDES ANALYSIS DATA

CASE NUMBER		MATRIX	Leachate
SAMPLE NUMBER	PBLK84	DILUTION FACTOR	50
DATA FILE	>A1873	DATE EXTRACTED	07/07/00
CLIENT NAME		DATE ANALYZED	07/07/00
FIELD ID		ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
58-89-9	G-BHC (Lindane)	U	.001	0.400
76-44-8	Heptachlor	U	.001	0.008
1024-57-3	Heptachlor Epoxide	U	.001	0.008
72-20-8	Endrin	U	.002	0.02
72-43-5	Methoxychlor	U	.010	10.0
5103-71-9	A-Chlordane	U	.001	0.03
5103-74-2	G-Chlordane	U	.001	0.03
8001-35-2	Toxaphene	U	.050	0.5

SURROGATE COMPOUNDS	RECOVERY	ADVISORY LIMITS	STATUS
DCB	104%	30 - 150	OK
Tetrachloro-m-xylene	85%	30 - 150	OK

U - Indicates compound was analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

ACCREDITED LABORATORIES, INC
TCLP HERBICIDE ANALYSIS DATA

CASE NUMBER	8650	MATRIX	Leachate
SAMPLE NUMBER	0007615	DILUTION FACTOR	1
DATA FILE	>A1887	DATE EXTRACTED	07/07/00
CLIENT NAME	RC	DATE ANALYZED	07/08/00
FIELD ID	#1-5 COMP	ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
94757	2,4'-D	U	.100	10.0
93721	SILVEX	U	.010	1.0

U - Indicates compound was analyzed for but not detected

ACCREDITED LABORATORIES, INC
TCLP HERBICIDE ANALYSIS DATA

CASE NUMBER	8650	MATRIX	Leachate
SAMPLE NUMBER	0007617	DILUTION FACTOR	1
DATA FILE	>A1888	DATE EXTRACTED	07/07/00
CLIENT NAME	RC	DATE ANALYZED	07/08/00
FIELD ID	#6-10 COMP	ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
94757	2,4'-D	U	.100	10.0
93721	SILVEX	U	.010	1.0

U - Indicates compound was analyzed for but not detected

ACCREDITED LABORATORIES, INC
TCLP HERBICIDE ANALYSIS DATA

CASE NUMBER		MATRIX	Leachate
SAMPLE NUMBER	HBLK61	DILUTION FACTOR	1
DATA FILE	>A1882	DATE EXTRACTED	07/07/00
CLIENT NAME		DATE ANALYZED	07/08/00
FIELD ID		ANALYZED BY	CLIFF

CAS No.	Compound	Result (mg/l)	MDL (mg/l)	Regulatory Level (mg/l)
94757	2,4'-D	U	.100	10.0
93721	SILVEX	U	.010	1.0

U - Indicates compound was analyzed for but not detected

ACCREDITED LABORATORIES, INC
PESTICIDE/PCB ORGANIC ANALYSIS DATA

CASE NUMBER	8650	MATRIX	Soil
SAMPLE NUMBER	0007615	DILUTION FACTOR	1
DATA FILE	>A1895	DATE EXTRACTED	07/06/00
CLIENT NAME	RC	DATE ANALYZED	07/10/00
FIELD ID	#1-5 COMP	ANALYZED BY	CLIFF

CAS#	COMPOUND	UG/KG	MDL
319846	A-BHC	1.39	.750
319857	B-BHC	U	.750
58899	G-BHC (Lindane)	U	.750
319868	D-BHC	U	.750
76448	Heptachlor	U	.750
309002	Aldrin	U	.750
1024573	Heptachlor Epoxide	U	.750
959988	Endosulfan I	U	.750
5103719	A-Chlordane	11.0	.750
5103742	G-Chlordane	8.14	.750
60571	Dieldrin	2.57	1.50
72559	4,4'-DDE	63.3	1.50
72208	Endrin	U	1.50
33213659	Endosulfan II	U	1.50
72548	4,4'-DDD	2.45	1.50
7421934	Endrin Aldehyde	U	1.50
1031078	Endosulfan Sulfate	2.22	1.50
50293	4,4'-DDT	185	1.50
53494705	Endrin Ketone	U	1.50
72435	Methoxychlor	U	7.50
8001352	Toxaphene	U	37.5
12674112	Aroclor-1016	U	18.7
11104282	Aroclor-1221	U	18.7
11141165	Aroclor-1232	U	18.7
53469219	Aroclor-1242	166	18.7
12672296	Aroclor-1248	U	18.7
11097691	Aroclor-1254	U	18.7
11096825	Aroclor-1260	U	18.7

Percent Solid of 88.9 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC
PESTICIDE/PCB ORGANIC ANALYSIS DATA

CASE NUMBER	8650	MATRIX	Soil
SAMPLE NUMBER	0007617	DILUTION FACTOR	1
DATA FILE	>A1896	DATE EXTRACTED	07/06/00
CLIENT NAME	RC	DATE ANALYZED	07/10/00
FIELD ID	#6-10 COMP	ANALYZED BY	CLIFF

CAS#	COMPOUND	UG/KG	MDL
319846	A-BHC	.887	.760
319857	B-BHC	U	.760
58899	G-BHC (Lindane)	U	.760
319868	D-BHC	U	.760
76448	Heptachlor	U	.760
309002	Aldrin	U	.760
1024573	Heptachlor Epoxide	U	.760
959988	Endosulfan I	U	.760
5103719	A-Chlordane	6.66	.760
5103742	G-Chlordane	6.21	.760
60571	Dieldrin	1.85	1.52
72559	4,4'-DDE	28.3	1.52
72208	Endrin	U	1.52
33213659	Endosulfan II	U	1.52
72548	4,4'-DDD	14.3	1.52
7421934	Endrin Aldehyde	U	1.52
1031078	Endosulfan Sulfate	U	1.52
50293	4,4'-DDT	66.9	1.52
53494705	Endrin Ketone	U	1.52
72435	Methoxychlor	U	7.60
8001352	Toxaphene	U	38.0
12674112	Aroclor-1016	U	19.0
11104282	Aroclor-1221	U	19.0
11141165	Aroclor-1232	U	19.0
53469219	Aroclor-1242	U	19.0
12672296	Aroclor-1248	U	19.0
11097691	Aroclor-1254	U	19.0
11096825	Aroclor-1260	U	19.0

Percent Solid of 87.7 is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.
R - Result exceeds residential surface soil standards.*
I - Result exceeds industrial surface soil standards.*

* Flags are based on New Jersey Soil Cleanup from Site Remediation News Volume 06 Number 1.

ACCREDITED LABORATORIES, INC
PESTICIDE/PCB ORGANIC ANALYSIS DATA

CASE NUMBER		MATRIX	Soil
SAMPLE NUMBER	PBLK83-F	DILUTION FACTOR	1
DATA FILE	>A1909	DATE EXTRACTED	07/06/00
CLIENT NAME		DATE ANALYZED	07/11/00
FIELD ID		ANALYZED BY	CLIFF

CAS#	COMPOUND	UG/KG	MDL
319846	A-BHC	U	.667
319857	B-BHC	U	.667
58899	G-BHC (Lindane)	U	.667
319868	D-BHC	U	.667
76448	Heptachlor	U	.667
309002	Aldrin	U	.667
1024573	Heptachlor Epoxide	U	.667
959988	Endosulfan I	U	.667
5103719	A-Chlordane	U	.667
5103742	G-Chlordane	U	.667
60571	Dieldrin	U	1.33
72559	4,4'-DDE	U	1.33
72208	Endrin	U	1.33
33213659	Endosulfan II	U	1.33
72548	4,4'-DDD	U	1.33
7421934	Endrin Aldehyde	U	1.33
1031078	Endosulfan Sulfate	U	1.33
50293	4,4'-DDT	U	1.33
53494705	Endrin Ketone	U	1.33
72435	Methoxychlor	U	6.67
8001352	Toxaphene	U	33.3
12674112	Aroclor-1016	U	16.7
11104282	Aroclor-1221	U	16.7
11141165	Aroclor-1232	U	16.7
53469219	Aroclor-1242	U	16.7
12672296	Aroclor-1248	U	16.7
11097691	Aroclor-1254	U	16.7
11096825	Aroclor-1260	U	16.7

Percent Solid of 100. is used for all target compounds.

B - Indicates compound found in associated blank.
J - Indicates compound concentration found below MDL.
U - Indicates compound analyzed for but not detected.
E - Indicates result exceeds highest calibration standard.
D - Indicates result is based on a dilution.

ACCREDITED LABORATORIES, INC.
INORGANIC ANALYSIS DATA SHEET

Case #: 8650
Sample #: 0007615
Field ID: #1-5 COMP
Client Name: RC

Matrix: Soil
Date Received: 07/06/00

CAS No.	Element	Result MG/KG	MDL MG/KG	Dilution Factor	Method	Date Analyzed
7440-36-0	Antimony	ND	7.21	1	P	07/07/00
7440-38-2	Arsenic	3.75	1.44	4	F	07/07/00
7440-39-3	Barium	80.8	2.16	1	P	07/07/00
7440-41-7	Beryllium	1.07	.361	1	P	07/07/00
7440-43-9	Cadmium	1.82	.721	1	P	07/07/00
7440-47-3	Chromium	12.0	2.16	1	P	07/07/00
7440-50-8	Copper	19.9	2.16	1	P	07/07/00
7439-92-1	Lead	77.9	14.4	1	P	07/07/00
7439-97-6	Mercury	.418	.225	1	CV	07/10/00
7440-02-0	Nickel	17.7	2.88	1	P	07/07/00
7782-49-2	Selenium	ND	1.80	5	F	07/10/00
7440-22-4	Silver	.822	.721	1	P	07/07/00
7440-28-0	Thallium	ND	1.80	5	F	07/10/00
7440-62-2	Vanadium	24.1	3.61	1	P	07/07/00
7440-66-6	Zinc	81.5	7.21	1	P	07/07/00

Percent Solid of 88.9 is used for all target elements

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
INORGANIC ANALYSIS DATA SHEET

Case #: 8650
Sample #: 0007617
Field ID: #6-10 COMP
Client Name: RC

Matrix: Soil
Date Received: 07/06/00

CAS No.	Element	Result MG/KG	MDL MG/KG	Dilution Factor	Method	Date Analyzed
7440-36-0	Antimony	ND	7.36	1	P	07/07/00
7440-38-2	Arsenic	4.32	1.48	4	F	07/07/00
7440-39-3	Barium	123	2.21	1	P	07/07/00
7440-41-7	Beryllium	1.28	.368	1	P	07/07/00
7440-43-9	Cadmium	1.72	.736	1	P	07/07/00
7440-47-3	Chromium	12.7	2.21	1	P	07/07/00
7440-50-8	Copper	18.3	2.21	1	P	07/07/00
7439-92-1	Lead	60.0	14.7	1	P	07/07/00
7439-97-6	Mercury	.680	.228	1	CV	07/10/00
7440-02-0	Nickel	14.2	2.94	1	P	07/07/00
7782-49-2	Selenium	ND	1.85	5	F	07/10/00
7440-22-4	Silver	ND	.736	1	P	07/07/00
7440-28-0	Thallium	ND	1.85	5	F	07/10/00
7440-62-2	Vanadium	22.4	3.68	1	P	07/07/00
7440-66-6	Zinc	73.0	7.36	1	P	07/07/00

Percent Solid of 87.7 is used for all target elements

ND - Element analyzed for but not detected.
P - Analyzed by ICP
CV - Analyzed by Cold Vapor
F - Analyzed by GFA
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
INORGANIC ANALYSIS DATA SHEET

Sample #: PBS1695 Matrix: Soil
Field ID: PREPBLANK Date Prepared: 07/07/00

CAS No.	Element	Result MG/KG	MDL MG/KG	Dilution Factor	Method	Date Analyzed
7440-36-0	Antimony	ND	10.0	1	P	07/07/00
7440-38-2	Arsenic	ND	.500	1	F	07/07/00
7440-39-3	Barium	ND	3.00	1	P	07/07/00
7440-41-7	Beryllium	ND	.500	1	P	07/07/00
7440-43-9	Cadmium	ND	1.00	1	P	07/07/00
7440-47-3	Chromium	ND	3.00	1	P	07/07/00
7440-50-8	Copper	ND	3.00	1	P	07/07/00
7439-92-1	Lead	ND	20.0	1	P	07/07/00
7439-97-6	Mercury	ND	.200	1	CV	07/10/00
7440-02-0	Nickel	ND	4.00	1	P	07/07/00
7782-49-2	Selenium	ND	.500	1	F	07/10/00
7440-22-4	Silver	ND	1.00	1	P	07/07/00
7440-28-0	Thallium	ND	.500	1	F	07/10/00
7440-62-2	Vanadium	ND	5.00	1	P	07/07/00
7440-66-6	Zinc	ND	10.0	1	P	07/07/00

Percent Solid of 100. is used for all target elements

ND - Element analyzed for but not detected.
P - Analyzed by ICP
CV - Analyzed by Cold Vapor
F - Analyzed by GFA
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.

REGULATED TCLP METALS

INORGANIC ANALYSIS DATA SHEET

Case #: 8650
Sample #: 0007615
Field ID: #1-5 COMP
Client Name: RC

Matrix: Leachate
Date Received: 07/06/00

CAS No.	Element	Result MG/L	MDL MG/L	Dilution Factor	Regulatory Level	Method	Date Analyzed
7440-38-2	Arsenic	ND	1.00	1	5.00	P	07/07/00
7440-39-3	Barium	.718	.500	1	100.00	P	07/07/00
7440-43-9	Cadmium	ND	.100	1	1.00	P	07/07/00
7440-47-3	Chromium	ND	.100	1	5.00	P	07/07/00
7439-92-1	Lead	ND	1.00	1	5.00	P	07/07/00
7439-97-6	Mercury	ND	.002	2	.20	CV	07/10/00
7782-49-2	Selenium	ND	.500	1	1.00	P	07/07/00
7440-22-4	Silver	ND	.100	1	5.00	P	07/07/00

ND - Element analyzed for but not detected.

P - Analyzed by ICP
CV - Analyzed by Cold Vapor
F - Analyzed by GFA
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
REGULATED TCLP METALS
INORGANIC ANALYSIS DATA SHEET

Case #: 8650
Sample #: 0007617
Field ID: #6-10 COMP
Client Name: RC

Matrix: Leachate
Date Received: 07/06/00

CAS No.	Element	Result MG/L	MDL MG/L	Dilution Factor	Regulatory Level	Method	Date Analyzed
7440-38-2	Arsenic	ND	1.00	1	5.00	P	07/07/00
7440-39-3	Barium	1.04	.500	1	100.00	P	07/07/00
7440-43-9	Cadmium	ND	.100	1	1.00	P	07/07/00
7440-47-3	Chromium	ND	.100	1	5.00	P	07/07/00
7439-92-1	Lead	ND	1.00	1	5.00	P	07/07/00
7439-97-6	Mercury	ND	.002	2	.20	CV	07/10/00
7782-49-2	Selenium	ND	.500	1	1.00	P	07/07/00
7440-22-4	Silver	ND	.100	1	5.00	P	07/07/00

ND - Element analyzed for but not detected.
P - Analyzed by ICP
CV - Analyzed by Cold Vapor
F - Analyzed by GFA
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
REGULATED TCLP METALS
INORGANIC ANALYSIS DATA SHEET

Sample #: PBL016
Field ID: PREPBLANK

Matrix: Leachate
Date Prepared: 07/07/00

CAS No.	Element	Result MG/L	MDL MG/L	Dilution Factor	Regulatory Level	Method	Date Analyzed
7440-38-2	Arsenic	ND	.500	1	5.00	P	07/07/00
7440-39-3	Barium	ND	.250	1	100.00	P	07/07/00
7440-43-9	Cadmium	ND	.050	1	1.00	P	07/07/00
7440-47-3	Chromium	ND	.050	1	5.00	P	07/07/00
7439-92-1	Lead	ND	.500	1	5.00	P	07/07/00
7439-97-6	Mercury	ND	.001	1	.20	CV	07/10/00
7782-49-2	Selenium	ND	.250	1	1.00	P	07/07/00
7440-22-4	Silver	ND	.050	1	5.00	P	07/07/00

ND - Element analyzed for but not detected.
P - Analyzed by ICP
F - Analyzed by GFA
CV - Analyzed by Cold Vapor
A - Analyzed by flame AA

ACCREDITED LABORATORIES, INC.
GENERAL CHEMISTRY ANALYSIS DATA

Case #: 8650
Sample #: 0007615
Client Name: RC
Field Number: #1-5 COMP

Matrix: Soil
Date Received: 07/06/00
% Moisture: 11.1

ANALYTES	RESULTS	MDL	UNITS	DILUTION FACTOR	METHOD BLANK RESULTS	METHOD BLANK MDL	ANALYSIS DATE
Solids, Percent	88.9	0.10	%	1.			07/07/00
Cyanide, Total	1.42	0.83	mg/Kg	1.	ND	0.01	07/06/00
Chromium, Trivalent	12.0	2.16	mg/Kg	1.			07/07/00
Chromium, Hexavalent	ND	2.25	mg/Kg	1.	ND	0.05	07/07/00
Carbon, Total Organic	6860.	116.	mg/Kg	1.	ND	100.	07/11/00

ACCREDITED LABORATORIES, INC.
GENERAL CHEMISTRY ANALYSIS DATA

Case #: 8650
Sample #: 0007617
Client Name: RC
Field Number: #6-10 COMP

Matrix: Soil
Date Received: 07/06/00
% Moisture: 12.3

ANALYTES	RESULTS	MDL	UNITS	DILUTION FACTOR	METHOD BLANK RESULTS	METHOD BLANK MDL	ANALYSIS DATE
Solids, Percent	87.7	0.10	%	1.			07/07/00
Cyanide, Total	1.51	0.91	mg/Kg	1.	ND	0.01	07/06/00
Chromium, Trivalent	12.7	2.21	mg/Kg	1.			07/07/00
Chromium, Hexavalent	ND	2.27	mg/Kg	1.	ND	0.05	07/07/00
Carbon, Total Organic	12200.	115.	mg/Kg	1.	ND	100.	07/11/00

Accredited Laboratories, Inc.
Total Petroleum Hydrocarbon Analysis

Client: RC
Case #: 8650
Analyst: RB

Matrix: Soil
Date Received: 07/06/00
Date Analyzed: 07/06/00

Field #	Sample #	Amount Used (g)	% S	DF	ABS	Result mg/Kg	MDL mg/Kg
#1-5 COMP	0007615	30.66	88.9	1	61	307	22
#6-10 COMP	0007617	30.16	87.7	10	17	882	23

Response Factor = .13725395

% S = Percent Solids
DF = Dilution Factor
ABS = Absorbance

Method Blank: < 20 mg/Kg

RCRA CLOSURE REPORTS

APPENDIX G2

RCRA CLOSURE ACTIVITIES REPORT

GENERAL MOTORS CORPORATION

Linden, NJ

January 1990

CORPORATE ENVIRONMENTAL ENGINEERING INC
PRINCETON, NJ

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Envirotech December 29, 1989 - CEE Vols. 1 through 3
Envirotech December 28, 1989 - CEE Vol. 4

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OWNER'S CERTIFICATION

I have reviewed and am familiar with the RCRA Closure Plan and the RCRA Closure Plan Activities Report for the General Motors Corporation Linden, New Jersey facility.

I believe that all closure procedures have been carried out in accordance with the May 1989 Closure Plan and NJDEP approval letter of August 15, 1989.

Signature

Plant Manager

Position

January 22, 1990

Date

RCRA Closure Plan

Registered Professional Engineer Certification

I hereby certify that all closure procedures have been carried out in accordance with the May 1989 Closure Plan and the conditions of the NJDEP August 15, 1989 approval letter.

New Jersey Licensed Professional Engineer

Kenneth J. Snow, P.E.
Corporate Environmental Engineering Inc

Date Jan 31, 1990

Registration # GE 30433

Seal:

RCRA CLOSURE ACTIVITIES REPORT

General Motors Corporation
1016 West Edgar Road
Linden, NJ 07036
EPA ID Number NJD002186690

January 1990

Submitted By:

Lois (Fortenboher) Knowlson
General Motors Corporation
Linden, NJ
201-474-4803

Prepared By:

Corporate Environmental Engineering Inc
210 Carnegie Center
Princeton, NJ 08540
609-452-8828

1.0 INTRODUCTION

Closure activities as proposed in the May 1989 Closure Plan for the General Motors Corporation Linden, NJ facility (GM) and as approved by the New Jersey Department of Environmental Protection (NJDEP) on August 15, 1989 were implemented during the week of November 27, 1989.

As described in the approved closure plan and documents therein referenced, the closure activities principally included decontamination of the Waste Thinner Tank and soil sampling at Container Storage Area #1. In addition, documentation describing the previous proper closure of Container Storage Area #2 is included as part of this submittal. The existing site is shown on Figure 1. A complete discussion of the background and history of these areas can be found in the May 1989 Closure Plan.

The report provided herein presents a discussion of the field work, results of analysis, and the inclusion of the required certifications that the closure activities were carried out in accordance with the approved closure plan.

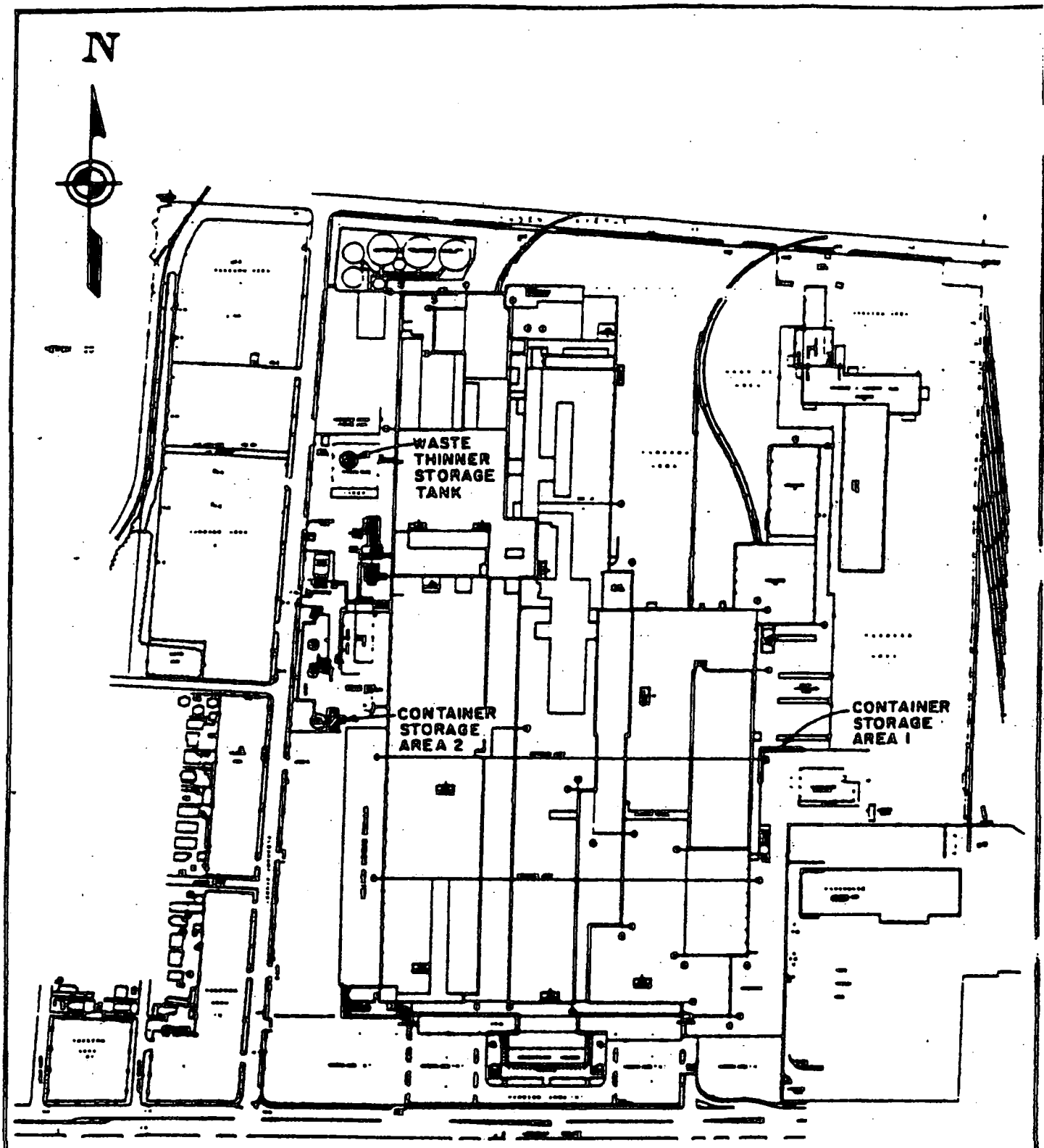
1.1 Container Storage Area #1

As described in the May 1989 Closure Plan, the Container Storage Area #1 was approximately a 20 foot by 20 foot right triangle shaped area, that is currently part of an active traffic sector northwest of the Incinerator Building. The storage area was defined by a chain-link fence on the north and west and the Incinerator Building on the south and east side. The chain-link fence was removed in 1984 and the fence posts cut flush with the pavement surface. The macadam surface was originally installed in 1965 and while no complete resurfacing has taken place, the surface has been patched as necessary.

Based on the existence of the chain-link fence post holes in the surface and the possibility that cracks may have developed in this surface over the years, GM proposed collecting soil samples from beneath this pad to establish clean closure at this location.

1.2 Container Storage Area # 2

Container Storage Area #2, which was constructed in 1980, was a rectangular area, 50 feet by 50 feet, located south of the



SITE PLAN
C-P-C LINDEN

FIGURE 1

A-2684

powerhouse, on the west side of the facility. The storage area was constructed of concrete, poured to a minimum depth of 7 inches, with a 6-inch curb above the surface of the pad along the entire perimeter of the area, with a pitch to a blind sump pit. During the construction of the Westside Building Addition in 1985, the concrete surface of Container Storage Area #2 was demolished and removed from the site. The pad, the soil below the pad and the surrounding area were excavated to a depth of 22 feet below grade surface for the installation of a 10-inch diameter sprinkler system main. Upon completion of the mechanical tie-in for the sprinkler system, the area was back filled with soil and surfaced with macadam.

As discussed in the closure plan the surface of this former area is relatively new and the area back filled with non-native material. A representative of the NJDEP Bureau of Environmental Measurements and Quality Assurance, Ms. Helen DeCerce, confirmed that sampling of Container Storage Area #2 would not be required. No further actions are required as per the August 15, 1989 closure plan approval letter from NJDEP.

1.3 Waste Thinner Storage Tank

The Waste Thinner Storage Tank is located above-ground in the northwest corner of the Paint Mix Building. The tank, a 6000 gallon vertical unit is on a concrete floor that is pitched to the southeast corner of the containment. The tank is also surrounded by a 2 foot-8 inch filled concrete block wall for the required secondary containment. The containment system is coated with 1/4 inch plaster and brush applied epoxy. The tank was originally utilized for the storage of paint related product, but became a waste storage tank in 1979 for the accumulation of F003/F005 waste thinner which was to be used as supplementary fuel in the powerhouse boilers. The practice of burning the thinner was discontinued in January 1986 and all piping and appurtenances for that activity were removed.

As part of the approved closure activities, GM has implemented decontamination of the former Waste Thinner Storage Tank system. Future use of this tank for the storage of paint process materials following decontamination and closure is planned.

2.0 TECHNICAL OVERVIEW OF CLOSURE ACTIVITIES

2.1 Environmental Sampling

Sampling activities at the facility were conducted on November 28-29, 1989. Activities included the collection of soil samples at five locations at the Container Storage Area #1. One background sample was also collected. Rinsate samples from the decontamination procedures at the Waste Storage Tank were also collected. Note that additional discussion of the decontamination activities can be found in Section 2.2.

As was previously discussed, the approximate location of the Container Storage Area #1 was defined by the remnants of the former fence posts. As depicted on Figure 2-Soil Sample Locations-Container Storage Area #1, four sampling locations(2,3,4,5), with the concurrence of the NJDEP representative, were chosen within the triangular area.

Mr. Fred DeClement, a field auditor from the NJDEP Bureau of Environmental Measurements and Quality Assurance was present throughout the soil sampling activities.

Initially a presumed background location was selected at sample location #1, as shown on Figure 2. Based on field observations however, an alternate, location #6, was selected as background and was presumed to represent a non-use area at the facility.

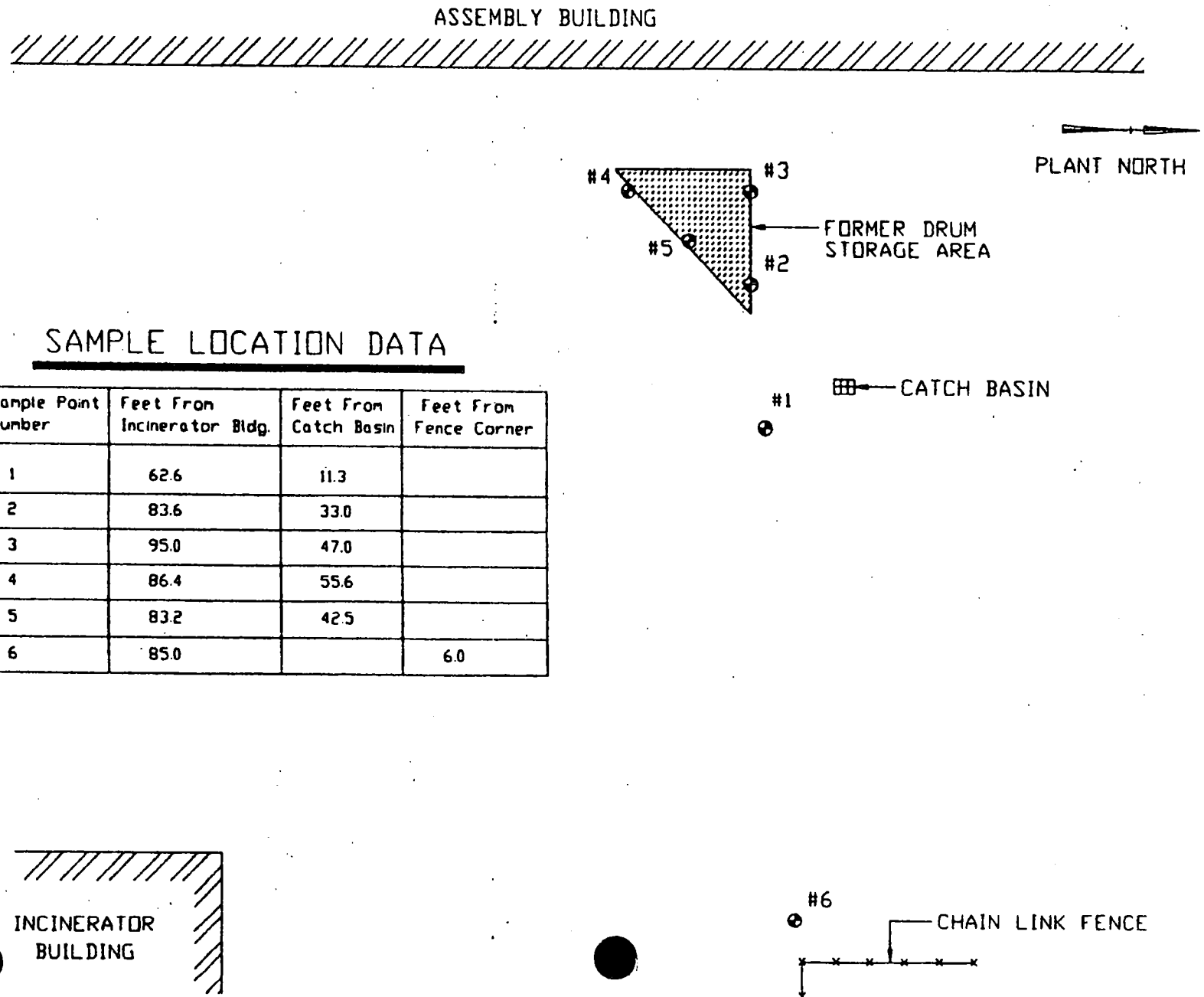
With NJDEP concurrence, a jack hammer was utilized to break up the macadam and underlying concrete. Soil collection at each location was implemented via properly decontaminated hand auger and dedicated stainless steel trowels. Once pavement, concrete and large fill were removed, the hand auger was utilized to penetrate beyond the pavement and concrete to the desired sampling depth. Stainless steel spatulas were used to transfer samples from the auger to the sample containers. Decontamination of field equipment was as described in the closure plan and was performed prior to equipment use at each sample location. All sample bottles were laboratory supplied from I-CHEM Inc.

The closure plan specified TCL Volatile Organics+10 (TCL Volatiles) analysis at the 6 to 12 inch interval only and sample collection for TCL Semi-Volatiles+20 (TCL Semi-Volatiles) and TCL Metals analysis from soil homogenized over the entire 12 inch interval. The sampling interval always began below a

SOIL SAMPLE LOCATIONS - CONTAINER STORAGE AREA #1

CORPORATE ENVIRONMENTAL ENGINEERING Inc.

Figure 2



SAMPLE LOCATION DATA

Sample Point Number	Feet From Incinerator Bldg.	Feet From Catch Basin	Feet From Fence Corner
1	62.6	11.3	
2	83.6	33.0	
3	95.0	47.0	
4	86.4	55.6	
5	83.2	42.5	
6	85.0		6.0

consistently appearing six to eight inch layer of macadam, concrete, cobble and fill. Due to the nature of the material encountered during auguring, field judgements as to what was practical and representative were made with the concurrence of NJDEP in order to meet the closure plan sampling objectives. Boring logs as prepared by Diversified Environmental Resources, Inc., are provided in Appendix A.

Other than sample location #1, all locations appeared to be visually clean with no detectable odor or discoloration of soil. The macadam pad appeared intact with no surface discoloration or cracked areas. Boreholes were monitored during auguring by a HNu photoionization detector. With the concurrence of NJDEP, upon completion of boring and sampling, all boreholes were filled with the cuttings and cemented to the macadam surface.

2.2 Waste Thinner Tank Decontamination

Decontamination procedures as approved by NJDEP were conducted by S&W Waste Inc. of South Kearny, NJ on November 28 and 29, 1989. Procedures included the thorough steam-cleaning of the tank system, including interior and exterior surfaces, valves and appurtenances as well as steam-cleaning of the concrete floor and containment walls in the proximity of the tank. All rinsate was collected via vac truck and was transported and disposed off-site. A copy of the hazardous waste manifest for the rinsate disposal can be found in Appendix B.

The interior of the tank was rinsed three times. All rinsate was collected via vac truck and was transported off-site for proper waste classification and disposal. Samples of the third rinse, rinsate samples #1 and #3 were collected from the accumulated liquid in the tank interior for TCL Volatiles and Semi-Volatiles analysis respectively.

In addition, the interior of the tank was manually scraped to remove loose solids(paint chips, residue, etc..). The tank, upon visual inspection, appeared to be free of residuals except for a one inch wide band of hardened material ringing the tank approximately half way up the vessel.

The exterior areas of the tank, valves, piping and appurtenances, as well as the concrete floor and containment were rinsed twice with all accumulated rinsate collected by a vac truck. Samples of the second rinsate, Sample #4 and #5 were collected for TCL

Volatiles and Semi-Volatiles analysis respectively from a low point in the containment area.

2.3 Quality Assurance/Quality Control Sampling

All environmental samples were collected, stored and shipped as per the closure plan. As described below, blanks and duplicates were collected.

2.3.1 Field Blanks

To monitor the possible contamination due to sampling devices, a field blank was collected by passing analyte free water through the decontaminated sampling equipment and collecting the water in sample containers as per the closure plan.

The field blank was collected during the one day soil sampling event and analyzed for the same parameters as samples collected that day which were TCL Volatiles, Semi-Volatiles and Metals. Note as per the closure plan, a field blank was not required during tank rinsate sample collection since the samples were collected directly with the sample containers.

2.3.2 Trip Blanks

To monitor possible contamination of sample containers, a trip blank was prepared at the laboratory and carried into the field on each day of sampling. The blanks were analyzed as per the closure plan for TCL Volatiles.

2.3.3 Duplicates

Duplicate samples were collected to monitor the performance of laboratory analytical procedures. Duplicate soil samples were collected at sample location #1. In addition, duplicate samples of rinsate, samples #1 and #2 were collected for analysis.

TABLE 1.1

SUMMARY OF AOIs
GM LINDEN, NEW JERSEY

AOI 1	Drum Storage
AOI 2	Area Surrounding AST Farm
AOI 3	Fill, Drum Storage
AOI 4	ELPO ASTs
AOI 5	ASTs
AOI 6	Paint Mix Building
AOI 7	AST Farm
AOI 8	Heating Oil ASTs
AOI 9	AST Farm
AOI 10	Storage Shed
AOI 11	Reclamation Area
AOI 12	Historic Sewers
AOI 13	SWMU-1 Waste Water Treatment Plant (WWTP)
AOI 14	SWMU-3 Roll Off Storage
AOI 15	SWMU-7 Former Drum Storage Area # 2
AOI 16	Former USTs
AOI 17	Container Storage Area
AOI 18	West Brook
AOI 19	Site Wide Groundwater
AOI 20	Bone Yard

TABLE

NJDEP WELL SEARCH - 1 MILE RADIUS SEARCH
GENERAL MOTORS CORPORATION
LINDEN, UNION COUNTY, NEW JERSEY
BELL PROJECT #EOG01-93089-02

Bell Environmental Consultants, Inc.

ID #	WELL OWNER	ADDRESS	TOTAL DEPTH (feet)	LENGTH OF CASING (feet)	STATIC WATER ELEVATION (feet)	USE CODE	SOURCE OF INFORMATION
1a	Merck & Company	E. Lincoln Avenue, Rahway	60	60	10	M	NJDEP AND SITE LIST CASES
1b	Merck & Company	E. Lincoln Avenue, Rahway	54	53.5	8	M	NJDEP AND SITE LIST CASES
1c	Merck & Company	E. Lincoln Avenue, Rahway	32.5	22	8	M	NJDEP AND SITE LIST CASES
1d	Merck & Company	E. Lincoln Avenue, Rahway	25	23	9	M	NJDEP AND SITE LIST CASES
1e	Merck & Company	E. Lincoln Avenue, Rahway	28	25.5	7	M	NJDEP AND SITE LIST CASES
1f	Merck & Company	E. Lincoln Avenue, Rahway	22	20.5	7.5	M	NJDEP AND SITE LIST CASES
1g	Merck & Company	E. Lincoln Avenue, Rahway	24	22	4	M	NJDEP AND SITE LIST CASES
1h	Merck & Company	E. Lincoln Avenue, Rahway	30	29.5	10	M	NJDEP AND SITE LIST CASES
1i	Merck & Company	E. Lincoln Avenue, Rahway	22' 6"	22	8	M	NJDEP AND SITE LIST CASES
1j	Merck & Company	E. Lincoln Avenue, Rahway	34	33	7.5	M	NJDEP AND SITE LIST CASES
1k	Merck & Company	E. Lincoln Avenue, Rahway	28' 6"	28	7.5	M	NJDEP AND SITE LIST CASES
1l	Merck & Company	E. Lincoln Avenue, Rahway	24	22	14	M	NJDEP AND SITE LIST CASES
1m	Merck & Company	E. Lincoln Avenue, Rahway	35	33.5	10	M	NJDEP AND SITE LIST CASES
1n	Merck & Company	E. Lincoln Avenue, Rahway	29	28.5	8	M	NJDEP AND SITE LIST CASES
1o	Merck & Company	E. Lincoln Avenue, Rahway	67.8	66	7.5	M	NJDEP AND SITE LIST CASES
1p	Merck & Company	E. Lincoln Avenue, Rahway	91	60	7.5	M	NJDEP AND SITE LIST CASES
1q	Merck & Company	E. Lincoln Avenue, Rahway	57	55	14	M	NJDEP AND SITE LIST CASES
1r	Merck & Company	E. Lincoln Avenue, Rahway	65	63.5	10	M	NJDEP AND SITE LIST CASES
1s	Merck & Company	E. Lincoln Avenue, Rahway	61	60	8	M	NJDEP AND SITE LIST CASES
1t	Merck & Company	E. Lincoln Avenue, Rahway	15.5	15	7.5	M	NJDEP AND SITE LIST CASES
1u	Merck & Company	E. Lincoln Avenue, Rahway	15	14.5	7.5	M	NJDEP AND SITE LIST CASES
1v	Merck & Company	E. Lincoln Avenue, Rahway	16	15	10	M	NJDEP AND SITE LIST CASES
1w	Merck & Company	E. Lincoln Avenue, Rahway	65	62.5	8	M	NJDEP AND SITE LIST CASES
1x	Merck & Company	E. Lincoln Avenue, Rahway	55.5	53.5	9	M	NJDEP AND SITE LIST CASES
1y	Merck & Company	E. Lincoln Avenue, Rahway	58.5	55.5	7	M	NJDEP AND SITE LIST CASES
1z	Merck & Company	E. Lincoln Avenue, Rahway	48	47	7.5	M	NJDEP AND SITE LIST CASES
1aa	Merck & Company	E. Lincoln Avenue, Rahway	54	52.5	8	M	NJDEP AND SITE LIST CASES
1bb	Merck & Company	E. Lincoln Avenue, Rahway	59	57	4	M	NJDEP AND SITE LIST CASES
1cc	Merck & Company	E. Lincoln Avenue, Rahway	48	22	15	M	NJDEP AND SITE LIST CASES
1dd	Merck & Company	E. Lincoln Avenue, Rahway	50	25	15	M	NJDEP AND SITE LIST CASES
1ee	Merck & Company	E. Lincoln Avenue, Rahway	18.5	5	15	M	NJDEP AND SITE LIST CASES
1ff	Merck & Company	126 E. Lincoln Avenue, Rahway	15	14.5	10	M	NJDEP AND SITE LIST CASES
1gg	Merck & Company	126 E. Lincoln Avenue, Rahway	91	89	8	M	NJDEP AND SITE LIST CASES
1hh	Merck & Company	126 E. Lincoln Avenue, Rahway	68	67	6	M	NJDEP AND SITE LIST CASES
1ii	Merck & Company	126 E. Lincoln Avenue, Rahway	30	27	7.5	M	NJDEP AND SITE LIST CASES
1jj	Merck & Company	126 E. Lincoln Avenue, Rahway	35.5	35	6	M	NJDEP AND SITE LIST CASES
1kk	Merck & Company	126 E. Lincoln Avenue, Rahway	15.5	15	6	M	NJDEP AND SITE LIST CASES
1ll	Merck & Company	126 E. Lincoln Avenue, Rahway	16	14.5	7.5	M	NJDEP AND SITE LIST CASES
1mm	Merck & Company	126 E. Lincoln Avenue, Rahway	17	15.7	7.5	M	NJDEP AND SITE LIST CASES
1nn	Merck & Company	126 E. Lincoln Avenue, Rahway	15	15.5	10	M	NJDEP AND SITE LIST CASES
1oo	Merck & Company	126 E. Lincoln Avenue, Rahway	17	8.5	15	M	NJDEP AND SITE LIST CASES
1pp	Merck & Company	126 E. Lincoln Avenue, Rahway	9	6	N/A	Z	NJDEP AND SITE LIST CASES
1qq	Merck & Company	126 E. Lincoln Avenue, Rahway	9	5.5	N/A	Z	NJDEP AND SITE LIST CASES
2a	Sun Refining & Marketing	Rt. 1 and Stiles Street, Linden	18	1	5.5	M	NJDEP
2b	Sun Refining & Marketing	Rt. 1 and Stiles Street, Linden	18	1	6	M	NJDEP
2c	Sun Refining & Marketing	Rt. 1 and Stiles Street, Linden	18	1	5	M	NJDEP
2d	Mandelbaum, David Esq. (Sunoco)	Rt. 1 and Stiles Street, Linden	18	3	3.7	M	NJDEP
2e	Mandelbaum, David Esq. (Sunoco)	Rt. 1 and Stiles Street, Linden	18	3	3	M	NJDEP
2f	Mandelbaum, David Esq. (Sunoco)	Rt. 1 and Stiles Street, Linden	18	3	6	M	NJDEP
2g	Mandelbaum, David Esq. (Sunoco)	Rt. 1 and Stiles Street, Linden	18	3	5	M	NJDEP

USE CODES

D= DOMESTIC
E= RECOVERY/DECONTAMINATION POLLUTION CONTROL/LEACHATE WITH PUMP CAPACITY
I= INDUSTRIAL
M= MONITORING
T= TEST
Z= PIEZOMETER

TABLE

NJDEP WELL SEARCH - 1 MILE RADIUS SEARCH
GENERAL MOTORS CORPORATION
LINDEN, UNION COUNTY, NEW JERSEY
BELL PROJECT #EOG01-93089-02

Bell Environmental Consultants, Inc.

ID #	WELL OWNER	ADDRESS	TOTAL DEPTH (feet)	LENGTH OF CASING (feet)	STATIC WATER ELEVATION (feet)	USE CODE	SOURCE OF INFORMATION
3b	Chester, Irving	Commerce Road, Linden	15	1.5	3' 3"	M	NJDEP
3c	Chester, Irving	Commerce Road, Linden	13	1' 1"	2' 3"	M	NJDEP
3d	Chester, Irving	Commerce Road, Linden	15	5	8.5	M	NJDEP
3e	Chester, Irving	Commerce Road, Linden	15	5	8.5	M	NJDEP
3f	Chester, Irving	Commerce Road, Linden	15	5	2	M	NJDEP
3g	Chester, Irving	Commerce Road, Linden	15	5	7	M	NJDEP
4a	USX Corporation	1711 W. Elizabeth Avenue, Linden	14	8	N/A	M	NJDEP
4b	USX Corporation	1711 W. Elizabeth Avenue, Linden	14	7	N/A	M	NJDEP
4c	USX Corporation	1711 W. Elizabeth Avenue, Linden	14	7	N/A	M	NJDEP
4d	USX Corporation	1711 W. Elizabeth Avenue, Linden	15.6	8.1	N/A	M	NJDEP
4e	USX Corporation	1711 W Elizabeth Avenue, Linden	16	8.5	8	M	NJDEP
4f	USX Corporation	1711 W. Elizabeth Avenue, Linden	14	8	7	M	NJDEP
4g	USX Corporation	1711 W. Elizabeth Avenue, Linden	14	4	8	M	NJDEP
4h	USX Corporation	1711 W. Elizabeth Avenue, Linden	13	3	5	M	NJDEP
4i	USX Corporation	1711 W. Elizabeth Avenue, Linden	14	4	7	M	NJDEP
4j	USX Corporation	1711 W. Elizabeth Avenue, Linden	14	4	7	M	NJDEP
4k	USX Corporation	1711 W. Elizabeth Avenue, Linden	30	20	24	M	NJDEP
4l	USX Corporation	1711 W. Elizabeth Avenue, Linden	30	20	24	M	NJDEP
4m	USX Corporation	1711 W. Elizabeth Avenue, Linden	15	5	8	M	NJDEP
4n	USX Corporation	1711 W. Elizabeth Avenue, Linden	14	4	7	M	NJDEP
4o	USX Corporation	1711 W. Elizabeth Avenue, Linden	15	5	8	M	NJDEP
5	Automatic Injection Molding	315 Cantor Avenue, Linden	250	28' 9"	34	I	NJDEP
6a	West Blancke Assoc.	1200 W. Blancke Street, Linden	27	15	N/A	M	NJDEP
6b	West Blancke Assoc.	1200 W. Blancke Street, Linden	21	10	N/A	M	NJDEP
6c	West Blancke Assoc.	1200 W. Blancke Street, Linden	21	10	N/A	M	NJDEP
6d	West Blancke Assoc.	1200 W. Blancke Street, Linden	16	5	N/A	M	NJDEP
6e	West Blancke Assoc.	1200 W. Blancke Street, Linden	18.5	8	9'8"	M	NJDEP
7a	American Flange and Manuf.	1100 W. Blancke Street, Linden	19	9' 9"	12	M	NJDEP & SITE LIST CASES
7b	American Flange and Manuf.	1100 W. Blancke Street, Linden	20	9' 9"	9	M	NJDEP & SITE LIST CASES
7c	American Flange and Manuf.	1100 W. Blancke Street, Linden	17	10	7	M	NJDEP & SITE LIST CASES
7d	American Flange and Manuf.	1100 W. Blancke Street, Linden	17	9' 9"	9	M	NJDEP & SITE LIST CASES
7e	American Flange and Manuf.	1100 W. Blancke Street, Linden	17	18	7	M	NJDEP & SITE LIST CASES
7f	American Flange and Manuf.	1100 W. Blancke Street, Linden	17	10	7	M	NJDEP & SITE LIST CASES
7g	American Flange and Manuf.	1100 W. Blancke Street, Linden	16	9	10	M	NJDEP & SITE LIST CASES
7h	American Flange and Manuf.	1100 W. Blancke Street, Linden	16	9	8	M	NJDEP & SITE LIST CASES
7i	American Flange and Manuf.	1100 W. Blancke Street, Linden	20	3.5	8	M	NJDEP & SITE LIST CASES
7j	American Flange and Manuf.	1100 W. Blancke Street, Linden	16.8	4	6' 8"	Z	NJDEP & SITE LIST CASES
7k	American Flange and Manuf.	1100 W. Blancke Street, Linden	7' 11"	5	7' 8"	Z	NJDEP & SITE LIST CASES
7l	American Flange and Manuf.	1100 W. Blancke Street, Linden	15	5	7' 8"	Z	NJDEP & SITE LIST CASES
7m	American Flange and Manuf.	1100 W. Blancke Street, Linden	15	5	8' 3"	Z	NJDEP & SITE LIST CASES
8	Layne New York Company	1250 W. Elizabeth Avenue, Linden	308	36	20	T	NJDEP
9	American Vitamin Products	1600 W. Blancke Street, Linden	18	4.5	8	M	NJDEP
10a	Ancet Realty Corporation	1539 W. Elizabeth Avenue, Linden	10	N/A	2.08	T	NJDEP
10b	Ancet Realty Corporation	1539 W. Elizabeth Avenue, Linden	10	N/A	2.33	T	NJDEP
10c	Ancet Realty Corporation	1539 W. Elizabeth Avenue, Linden	10	N/A	4.33	T	NJDEP
10d	Ancet Realty Corporation	1539 W Elizabeth Avenue, Linden	3	N/A	2.54	E	NJDEP
11a	Martin Burger	1301 W. Elizabeth Avenue, Linden	15	5	N/A	M	NJDEP
11b	Martin Burger	1301 W. Elizabeth Avenue, Linden	14	4	N/A	M	NJDEP
12a	Basic Formulations Inc.	1600 W. Elizabeth Avenue, Linden	17	14:5	N/A	T	NJDEP
12b	Basic Formulations Inc.	1600 W. Elizabeth Avenue, Linden	18	15.5	N/A	T	NJDEP
12c	Basic Formulations, Inc.	1600 W. Elizabeth Avenue, Linden	17	14.5	N/A	T	NJDEP
12d	Basic Formulations, Inc.	1600 W. Elizabeth Avenue, Linden	17	2	N/A	T	NJDEP
12e	Basic Formulations, Inc.	1600 W. Elizabeth Avenue, Linden	17	2	N/A	T	NJDEP
12f	Basic Formulations, Inc.	1600 W Elizabeth Avenue, Linden	17	2	N/A	T	NJDEP
13	Linden Ice Company	18 Donaldson Place Linden	550	40	19	I	NJDEP

USE CODES

D= DOMESTIC
E= RECOVERY/DECONTAMINATION POLLUTION CONTROL/LEACHATE WITH PUMP CAPACITY
I= INDUSTRIAL
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T= TEST
Z= PIEZOMETER

TABLE

NJDEP WELL SEARCH - 1 MILE RADIUS SEARCH
GENERAL MOTORS CORPORATION
LINDEN, UNION COUNTY, NEW JERSEY
BELL PROJECT #EOG01-93089-02

Bell Environmental Consultants, Inc.

ID #	WELL OWNER	ADDRESS	TOTAL DEPTH (feet)	LENGTH OF CASING (feet)	STATIC WATER ELEVATION (feet)	USE CODE	SOURCE OF INFORMATION
14a	A.H.C. Manufacturing Corp.	1400 W. Elizabeth Street, Linden	20	7.5	11	M	NJDEP
14b	A.H.C. Manufacturing Corp.	1400 W. Elizabeth Street, Linden	20	7	9	M	NJDEP
14c	A.H.C. Manufacturing Corp.	1400 W. Elizabeth Street, Linden	20	7	9	M	NJDEP
14d	A.H.C. Manufacturing Corp.	1400 W. Elizabeth Street, Linden	20	7	8	M	NJDEP
14e	A.H.C. Manufacturing Corp.	1400 W. Elizabeth Street, Linden	19	6	7	M	NJDEP
14f	A.H.C. Manufacturing Corp.	1400 W. Elizabeth Street, Linden	19.5	4	8.5	M	NJDEP
14g	A.H.C. Manufacturing Corp.	1400 W. Elizabeth Street, Linden	20	6.5	7.7	M	NJDEP
15	Ideal Planting Company	1570 W. Blancke Street, Linden	240	57	N/A	I	NJDEP
16a	General Motors Corporation	1016 Edgar Road (Route 1), Linden	20.5	10	13	M	NJDEP
16b	General Motors Corporation	1016 Edgar Road (Route 1), Linden	18	8	11	M	NJDEP
16c	General Motors Corporation	1016 Edgar Road (Route 1), Linden	20.5	10	13	M	NJDEP
16d	General Motors Corporation	1016 Edgar Road (Route 1), Linden	18	8	11	M	NJDEP
16e	General Motors Corporation	1016 Edgar Road (Route 1), Linden	20	10	12	M	NJDEP
16f	General Motors Corporation	1016 Edgar Road (Route 1), Linden	20	10	12	M	NJDEP
16g	General Motors Corporation	1016 Edgar Road (Route 1), Linden	20	10	12	M	NJDEP
16h	General Motors Corporation	1016 Edgar Road (Route 1), Linden	50	40	12	M	NJDEP
16i	General Motors Corporation	1016 Edgar Road (Route 1), Linden	50	40	12	M	NJDEP
16j	General Motors Corporation	1016 Edgar Road (Route 1), Linden	22	12	14	M	NJDEP
16k	General Motors Corporation	1016 Edgar Road (Route 1), Linden	20	10	12	M	NJDEP
16l	General Motors Corporation	1016 Edgar Road (Route 1), Linden	20	10	12	M	NJDEP
16m	General Motors Corporation	1016 Edgar Road (Route 1), Linden	20	10	12	M	NJDEP
16n	General Motors Corporation	1016 Edgar Road (Route 1), Linden	45	35	12	M	NJDEP
16o	General Motors Corporation	1016 Edgar Road (Route 1), Linden	43	33	12	M	NJDEP
16p	General Motors Corporation	1016 Edgar Road (Route 1), Linden	20.5	8	11	M	NJDEP
16q	General Motors Corporation	1016 Edgar Road (Route 1), Linden	25	25	11	M	NJDEP
16r	General Motors Corporation	1016 Edgar Road (Route 1), Linden	20	20	8.5	M	NJDEP
16s	General Motors Corporation	1016 Edgar Road (Route 1), Linden	25.5	25.5	9	M	NJDEP
16t	General Motors Corporation	1016 Edgar Road (Route 1), Linden	20	20	10	M	NJDEP
16u	General Motors Corporation	1016 Edgar Road (Route 1), Linden	23	23	12.5	M	NJDEP
16v	General Motors Corporation	1016 Edgar Road (Route 1), Linden	50	30	9	M	NJDEP
16w	General Motors Corporation	1016 Edgar Road (Route 1), Linden	60	40	10	M	NJDEP
16x	General Motors Corporation	1016 Edgar Road (Route 1), Linden	50	30	10	M	NJDEP
16y	General Motors Corporation	1016 Edgar Road (Route 1), Linden	58	38	13	M	NJDEP
17a	Atochem North America, Inc.	5 N. Stiles Street, Linden	23	8	8.77	M	NJDEP
17b	Atochem North America, Inc.	5 N. Stiles Street, Linden	23	8	7.72	M	NJDEP
17c	Atochem North America, Inc.	5 N. Stiles Street, Linden	20	5	7	M	NJDEP
17d	Atochem North America, Inc.	5 N. Stiles Street, Linden	20.5	5.5	7	M	NJDEP
18a	Paterson, Elizabeth	401 Commerce Road, Linden	18	17	N/A	M	NJDEP
18b	Paterson, Elizabeth	401 Commerce Road, Linden	18.5	17	N/A	M	NJDEP
19a	Anchor Motor Freight	1601 W. Edgar Road, Linden	15	5	8	M	NJDEP
19b	Anchor Motor Freight	1601 W. Edgar Road, Linden	15	5	6	M	NJDEP
19c	Anchor Motor Freight	1601 W. Edgar Road, Linden	14.5	4.5	5.5	M	NJDEP
20a	Texas Eastern Gas Pipeline	Lower Rd. and Range Drive, Linden	16	1.55	10.3	M	NJDEP & SITE LIST CASE
20b	Texas Eastern Gas Pipeline	Lower Rd. and Range Drive, Linden	16	2.5	11.2	M	NJDEP & SITE LIST CASE
20c	Texas Eastern Gas Pipeline	Lower Rd. and Range Drive, Linden	16	1.15	N/A	M	NJDEP & SITE LIST CASE
21a	City of Linden	1701-1751 Lower Road, Linden	40	8	N/A	M	NJDEP
21b	City of Linden	1701-1751 Lower Road, Linden	95	38	N/A	M	NJDEP
21c	City of Linden	1701-1751 Lower Road, Linden	85	28.5	N/A	M	NJDEP
21d	City of Linden	1701-1751 Lower Road, Linden	13	3	N/A	M	NJDEP
21e	City of Linden	1701-1751 Lower Road, Linden	85	47	N/A	M	NJDEP
21f	City of Linden	1701-1751 Lower Road, Linden	28	1	N/A	M	NJDEP
21g	City of Linden	1701-1751 Lower Road, Linden	28	8	N/A	M	NJDEP
21h	City of Linden	1701-1751 Lower Road, Linden	27.5	4	N/A	M	NJDEP
21i	City of Linden	1701-1751 Lower Road, Linden	10	3	N/A	M	NJDEP

USE CODES

D= DOMESTIC
E= RECOVERY/DECONTAMINATION POLLUTION CONTROL/LEACHATE WITH PUMP CAPACITY
I= INDUSTRIAL
M= MONITORING
T= TEST
Z= PIEZOMETER

TABLE

NJDEP WELL SEARCH - 1 MILE RADIUS SEARCH
GENERAL MOTORS CORPORATION
LINDEN, UNION COUNTY, NEW JERSEY
BELL PROJECT #EOG01-93089-02

Bell Environmental Consultants, Inc.

ID #	WELL OWNER	ADDRESS	TOTAL DEPTH (feet)	LENGTH OF CASING (feet)	STATIC WATER ELEVATION (feet)	USE CODE	SOURCE OF INFORMATION
22a	Linden Investment Company	1601 Edgar Road, Linden	15	5	N/A	M	NJDEP
22b	Linden Investment Company	1601 Edgar Road, Linden	17	7	N/A	M	NJDEP
22c	Linden Investment Company	1601 Edgar Road, Linden	18	5	N/A	M	NJDEP
22d	Linden Investment Company	1601 Edgar Road, Linden	18	3	N/A	M	NJDEP
22e	Linden Investment Company	1601 Edgar Road, Linden	18	3	N/A	M	NJDEP
23	Hartz-Linden Properties	1600 West Edgar Road, Linden	15	5	8	Z	NJDEP
24	Darby Corporation	1600 Lower Road, Linden	21	6	6	M	NJDEP
25a	Cooks Industrial Lubricants	5 N. Stiles Street, Linden	19	3	3	M	NJDEP AND SITE LIST CASES
25b	Cooks Industrial Lubricants	5 N. Stiles Street, Linden	19	3	3	M	NJDEP AND SITE LIST CASES
25c	Cooks Industrial Lubricants	5 N. Stiles Street, Linden	19	3	3	M	NJDEP AND SITE LIST CASES
25d	Cooks Industrial Lubricants	5 N. Stiles Street, Linden	24	8	16	M	NJDEP AND SITE LIST CASES
25e	Cooks Industrial Lubricants	5 N. Stiles Street, Linden	20	4	11	M	NJDEP AND SITE LIST CASES
25f	Cooks Industrial Lubricants	5 N. Stiles Street, Linden	22	7	8	M	NJDEP AND SITE LIST CASES
25g	Cooks Industrial Lubricants	5 N. Stiles Street, Linden	20	5	7	M	NJDEP AND SITE LIST CASES
26a	Exxon Company, USA	Rt. 1 and Wood Avenue, Linden	12	2	5	M	NJDEP
26b	Exxon Company, USA	Rt. 1 and Wood Avenue, Linden	12	2	5	M	NJDEP
26c	Exxon Company, USA	Rt. 1 and Wood Avenue, Linden	12	2	5	M	NJDEP
26d	Exxon Company, USA	Rt. 1 and Wood Avenue, Linden	12	2	5	M	NJDEP
27a	Leaseway Corporation	1601 W. Edgar Road, Linden	15	5	7	M	NJDEP
27b	Leaseway Corporation	1601 W. Edgar Road, Linden	15	5	7	M	NJDEP
27c	Leaseway Corporation	1601 W. Edgar Road, Linden	15	5	7	M	NJDEP
27d	Leaseway Corporation	1601 W. Edgar Road, Linden	15	5	7	M	NJDEP
28	Walter Milchukcluk	828 Smith Street, Linden	96	40	12	D	NJDEP
29a	Franklin Realty	1301 W. Elizabeth Avenue, Linden	15	4	N/A	M	NJDEP
29b	Franklin Realty	1301 W. Elizabeth Avenue, Linden	18	5	N/A	M	NJDEP
29c	Franklin Realty	1301 W. Elizabeth Avenue, Linden	15	5	N/A	M	NJDEP
30a	Standard T Chemical Corp.	1312 W. Elizabeth Avenue, Linden	16	10	N/A	M	NJDEP
30b	Standard T Chemical Corp.	1312 W. Elizabeth Avenue, Linden	18	8	N/A	M	NJDEP
30c	Standard T Chemical Corp.	1312 W. Elizabeth Avenue, Linden	18.7	8.7	N/A	M	NJDEP
30d	Standard T Chemical Corp.	1312 W. Elizabeth Avenue, Linden	18	8	N/A	M	NJDEP
31a	SRS NJ	12 Sylvan Street, Linden	25	N/A	N/A	M	NJDEP
31b	SRS NJ	12 Slyvan Street, Linden	48	33	N/A	M	NJDEP
32a	Hydro Group	1250 W. Elizabeth Avenue, Linden	17	7	13	M	NJDEP
32b	Hydro Group	1250 W. Elizabeth Avenue, Linden	16	6	11.5	M	NJDEP
32c	Hydro Group	1250 W. Elizabeth Avenue, Linden	20	10	16	M	NJDEP
32d	Hydro Group	1250 W. Elizabeth Avenue, Linden	16	6	9	M	NJDEP
32e	Hydro Group	1250 W. Elizabeth Avenue, Linden	16	6	9	M	NJDEP
32f	Hydro Group	1250 W. Elizabeth Avenue, Linden	17	7	9	M	NJDEP
32g	Hydro Group	1250 W. Elizabeth Avenue, Linden	16	6	9	M	NJDEP
33a	Exxon Company, USA	1100 Rt. 1 and Stiles Street, Linden	16	1	N/A	M	NJDEP
33b	Exxon Company, USA	1100 Rt. 1 and Stiles Street, Linden	8	3	N/A	M	NJDEP
33c	Exxon Company, USA	1100 Rt. 1 and Stiles Street, Linden	10	2	N/A	M	NJDEP
33d	Exxon Company, USA	1100 Rt. 1 and Stiles Street, Linden	14	6	N/A	M	NJDEP
33e	Exxon Company, USA	1100 Rt. 1 and Stiles Street, Linden	10	1	N/A	M	NJDEP
33f	Exxon Company, USA	1100 Rt. 1 and Stiles Street, Linden	16	8	8	M	NJDEP
33g	Exxon Company, USA	1100 Rt. 1 and Stiles Street, Linden	13	2.5	5	M	NJDEP
33h	Exxon Company, USA	1100 Rt. 1 and Stiles Street, Linden	15	2.5	5	M	NJDEP
33i	Exxon Company, USA	1100 Rt. 1 and Stiles Street, Linden	15	2.5	5	M	NJDEP
34a	Safety Cleen Corporation	1200 Sylvan Street, Linden	14	4	8	M	NJDEP
34b	Safety Cleen Corporation	1200 Sylvan Street, Linden	6	3	6	M	NJDEP
34c	Safety Cleen Corporation	1200 Sylvan Street, Linden	6	3	6	M	NJDEP
34d	Safety Cleen Corporation	1200 Sylvan Street, Linden	6	3	6	M	NJDEP
34e	Safety Cleen Corporation	1200 Sylvan Street, Linden	6	3	6	M	NJDEP
34f	Safety Cleen Corporation	1200 Sylvan Street, Linden	45	35	12	M	NJDEP
35	Pacific Airmotive Corporation	Linden Airport, Linden	300	31	5	I	NJDEP AND SITE LIST CASES
38	MBS Partnership	1080 Edward Street, Linden	15	2	5	M	NJDEP

USE CODES

D= DOMESTIC
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T= TEST
Z= PIEZOMETER

TABLE

NJDEP WELL SEARCH - 1 MILE RADIUS SEARCH
GENERAL MOTORS CORPORATION
LINDEN, UNION COUNTY, NEW JERSEY
BELL PROJECT #EOG01-93089-02

Bell Environmental Consultants, Inc.

ID #	WELL OWNER	ADDRESS	TOTAL DEPTH (feet)	LENGTH OF CASING (feet)	STATIC WATER ELEVATION (feet)	USE CODE	SOURCE OF INFORMATION
37a	Therapedic Sleep Products	1701 US Rt. 1, Linden	13	2.5	3.4	M	NJDEP
37b	Therapedic Sleep Products	1701 US Rt. 1, Linden	14	1.5	3.4	M	NJDEP
37c	Therapedic Sleep Products	1701 US Rt. 1, Linden	15	1.5	3.4	M	NJDEP
37d	Therapedic Sleep Products	1701 US Rt. 1, Linden	20	6.5	6	M	NJDEP
37e	Therapedic Sleep Products	1701 US Rt. 1, Linden	20	6.5	6	M	NJDEP
37f	Therapedic Sleep Products	1701 US Rt. 1, Linden	20	6.5	6	M	NJDEP
38a	Solvents Recovery Service, NY	1200 Sylvan Street, Linden	23	3	9	M	NJDEP AND SITE LIST CASES
38b	Solvents Recovery Service, NY	1200 Sylvan Street, Linden	22.5	2.5	8	M	NJDEP AND SITE LIST CASES
39	Delta Knit Finishers	362 Cantor Avenue, Linden	359	41	50	I	NJDEP
40	Orange Plastics	315 Cantor Avenue, Linden	330	51' 9"	70-80	I(?)	NJDEP
41	Gulf/Chevron USA	St. Georges Street, Linden	12	2	N/A	M	NJDEP
42a	Sun Oil Company	St. Georges Street, Linden	18	3	12.16	M	NJDEP
42b	Sun Oil Company	St. Georges Street, Linden	15	1	12.92	M	NJDEP
42c	Sun Oil Company	St. Georges Street, Linden	12	1	11.85	M	NJDEP
42d	Sun Oil Company	St. Georges Street, Linden	15	1	12.51	M	NJDEP
43a	Hoescht Celanese Corporation	1401 W. Blancke Street, Linden	12	2	N/A	M	NJDEP SITE & LIST CASE
43b	Hoescht Celanese Corporation	1401 W. Blancke Street, Linden	13	3	N/A	M	NJDEP SITE & LIST CASE
43c	Hoescht Celanese Corporation	1401 W. Blancke Street, Linden	18	8	N/A	M	NJDEP SITE & LIST CASE
43d	Hoescht Celanese Corporation	1401 W. Blancke Street, Linden	15	5	N/A	M	NJDEP SITE & LIST CASE
43e	Hoescht Celanese Corporation	1401 W. Blancke Street, Linden	14	4	N/A	M	NJDEP SITE & LIST CASE
43f	Hoescht Celanese Corporation	1401 W. Blancke Street, Linden	20	5	N/A	I	NJDEP SITE & LIST CASE
43g	Hoescht Celanese Corporation	1401 W. Blancke Street, Linden	15	5	N/A	M	NJDEP SITE & LIST CASE
44	Apex Rendezvous, Inc.	1135 W. Elizabeth Avenue, Linden	440	50	25	D	NJDEP
45	Rheem Manufacturing Co.	1701 W. Edgar Road, Linden	15	3.5	N/A	M	NJDEP
46a	Seimens Energy & Automation	1600 Rt.1, Linden	30	20	6	M	NJDEP
46b	Seimens Energy & Automation	1600 Rt.1, Linden	45	20	6	M	NJDEP
46c	Seimens Energy & Automation	1600 Rt.1, Linden	30	20	6	M	NJDEP
47	Al Katla	30 West Elm Street Linden	245	40	10	D	NJDEP
48a	AGP/Gentec, Inc.	531 N. Stiles Street, Linden	15	7.5	8	M	NJDEP
48b	AGP/Gentec, Inc.	531 N. Stiles Street, Linden	14.8	4.5	6.5	M	NJDEP
48c	AGP/Gentec, Inc.	531 N. Stiles Street, Linden	15	5	8	M	NJDEP
48d	AGP/Gentec, Inc.	531 N. Stiles Street, Linden	15	5	8.7	M	NJDEP
48e	AGP/Gentec, Inc.	531 N. Stiles Street, Linden	15	5	10	M	NJDEP
48f	AGP/Gentec, Inc.	531 N. Stiles Street, Linden	15.5	5.5	11.2	M	NJDEP
48g	AGP/Gentec, Inc.	531 N. Stiles Street, Linden	14.6	6.8	12.55	M	NJDEP
49	Vincent Pezzuto	108 W. Elizabeth Street, Linden	225	50	30	D	NJDEP
50a	Levine, Bort	1701 W. Edgar Road, Linden	16	8	7.8	M	NJDEP
50b	Levine, Bort	1701 W. Edgar Road, Linden	16	8	8.6	M	NJDEP
50c	Levine, Bort	1701 W. Edgar Road, Linden	16	8	7	M	NJDEP
51a	Platronics, Inc.	301 Commerce Road, Linden	15	14	61"	M	NJDEP SITE & LIST CASE
51b	Platronics, Inc.	301 Commerce Road, Linden	15	14	52"	M	NJDEP SITE & LIST CASE
51c	Platronics, Inc.	301 Commerce Road, Linden	10	4' 9"	6' 3"	M	NJDEP SITE & LIST CASE
51d	Platronics, Inc.	301 Commerce Road, Linden	10	5	6' 9"	M	NJDEP SITE & LIST CASE
52	West Blancke Assoc.	1320 W. Blancke Street, Linden	15	5	8	M	NJDEP
53	Airline Foods Corporation	1130 W. Elizabeth Avenue, Linden	266	42	25	I	NJDEP
54	Cheny & Company	832 St. geprges Avenue, Linden	-	-	-	-	NJDEP SITE LIST CASE ONLY
55	SC Imports	400 Roselle Street, Linden	-	-	-	-	NJDEP SITE LIST CASE ONLY
56	Luongo Brothers Inc.	2 Rosselle Street, Linden	-	-	-	-	NJDEP SITE LIST CASE ONLY
57	American Cyanamid Landfill	Wood Avenue, Linden	-	-	-	-	NJDEP SITE LIST CASE ONLY
58	Solar Compounds Corporation	1201 W. Blanke Street, Linden	-	-	-	-	NJDEP SITE LIST CASE ONLY
59	D. Angelo Metal Products Co. Inc.	360 Dalziel Road, Linden	-	-	-	-	NJDEP SITE LIST CASE ONLY
60	Apex Plating and Polishing Co. Inc.	114 E. Price Street, Linden	-	-	-	-	NJDEP SITE LIST CASE ONLY
61	Hammer Manufactoring, Company, In	417 Commerce Road, Linden	-	-	-	-	NJDEP SITE LIST CASE ONLY
62	Linde Gases of the Mid-Atlantic	South Wood Avenue, Linden	-	-	-	-	NJDEP SITE LIST CASE ONLY
63	Mid Atlantic Container Corporation	1200 Blanke Sreet, Linden	-	-	-	-	NJDEP SITE LIST CASE ONLY

USE CODES

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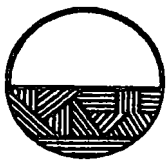

APPENDIX E

CONTOUR MAP REPORTING FORM

CONTOUR MAP REPORTING FORM
Figure 4-3 Deep Overburden Ground Water Contour Map (August 1995)

This reporting form shall accompany each ground water elevation contour map submittal. Use additional sheets as necessary.

1. Did any surveyed well casing elevations change from the previous sampling event? Yes ____ No __X__. If yes, attach new "Well Certification - Form B" and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc.).

2. Are there any monitor wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? Yes __X__ No __. If yes, identify these wells.

   BEC-1D, BEC-2D, BEC-3D, BEC-4D, and BEC-7D

3. Are there any monitor wells present at the site but omitted from the contour map? Yes __X__ No ____. Unless omission of the well(s) has been previously approved by the department, justify the omissions.

   Shallow overburden monitoring wells (BEC-1SR through BEC-13S), and bedrock wells (BEC-1B through BEC-4B) were omitted from the contour map (Figure ____) due to different screened intervals.

4. Are there any monitor wells containing separate phase product during this measuring event? Yes ____ No __X__. Were any of the monitor wells with separate phase product included in the ground water contour map? Yes _____ No _____. If yes, show the formula used to correct the water table elevation.

CONTOUR MAP REPORTING FORM
Figure 4-3 Deep Overburden Ground Water Contour Map (August 1995)

5. Has the ground water flow direction changed more than 45° from the previous ground water contour map? Yes _____ No _____. If yes, discuss the reason for the change.

6. Has ground water mounding and/or depressions been identified in the ground water contour map? Yes _____ No _X_. Unless the ground water mounds and/or depressions are caused by the ground water remediation system, discuss the reasons for this occurrence.

7. Are all the wells used in the contour map screened in the same water-bearing zone? Yes _____ No _X_. If no, justify inclusion of those wells.

8. Were the ground water contours computer generated _____, computer aided _____, or hand-drawn _X_? If computer aided or generated, identify the interpolation method(s) used.

CONTOUR MAP REPORTING FORM
Figure 4-4 Bedrock Ground Water Contour Map (August 1995)

This reporting form shall accompany each ground water elevation contour map submittal. Use additional sheets as necessary.

1. Did any surveyed well casing elevations change from the previous sampling event? Yes _____ No __X__. If yes, attach new "Well Certification - Form B" and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc.).

2. Are there any monitor wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? Yes _____ No _____ N/A __X__ (Bedrock aquifer, open borehole). If yes, identify these wells.

3. Are there any monitor wells present at the site but omitted from the contour map? Yes __X__ No _____. Unless omission of the well(s) has been previously approved by the department, justify the omissions.

   Shallow overburden wells (BEC-1SR through BEC-13S) and deep overburden monitoring wells (BEC-1D through BEC-9D) because the screened intervals differ.

4. Are there any monitor wells containing separate phase product during this measuring event? Yes _____ No __X__. Were any of the monitor wells with separate phase product included in the ground water contour map? Yes _____ No _____. If yes, show the formula used to correct the water table elevation.

CONTOUR MAP REPORTING FORM
Figure 4-4 Bedrock Ground Water Contour Map (August 1995)

5. Has the ground water flow direction changed more than 45° from the previous ground water contour map? Yes _____ No _____. If yes, discuss the reason for the change.

6. Has ground water mounding and/or depressions been identified in the ground water contour map? Yes _____ No __X__. Unless the ground water mounds and/or depressions are caused by the ground water remediation system, discuss the reasons for this occurrence.

7. Are all the wells used in the contour map screened in the same water-bearing zone? Yes _____ No _____. If no, justify inclusion of those wells.

8. Were the ground water contours computer generated _____, computer aided _____, or hand-drawn _____? If computer aided or generated, identify the interpolation method(s) used.

CONTOUR MAP REPORTING FORM
Figure 4-5 Deep Overburden Ground Water Contour Map (March 1996)

This reporting form shall accompany each ground water elevation contour map submittal. Use additional sheets as necessary.

1. Did any surveyed well casing elevations change from the previous sampling event? Yes ____ No __X__. If yes, attach new "Well Certification - Form B" and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc.).

2. Are there any monitor wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? Yes _____ No _____. If yes, identify these wells.

3. Are there any monitor wells present at the site but omitted from the contour map? Yes _____ No ____. Unless omission of the well(s) has been previously approved by the department, justify the omissions.

4. Are there any monitor wells containing separate phase product during this measuring event? Yes _____ No _____. Were any of the monitor wells with separate phase product included in the ground water contour map? Yes _____ No _____. If yes, show the formula used to correct the water table elevation.

CONTOUR MAP REPORTING FORM
Figure 4-5 Deep Overburden Ground Water Contour Map (March 1996)

5. Has the ground water flow direction changed more than 45° from the previous ground water contour map? Yes _____ No _____. If yes, discuss the reason for the change.

6. Has ground water mounding and/or depressions been identified in the ground water contour map? Yes _____ No _____. Unless the ground water mounds and/or depressions are caused by the ground water remediation system, discuss the reasons for this occurrence.

7. Are all the wells used in the contour map screened in the same water-bearing zone? Yes _____ No _____. If no, justify inclusion of those wells.

8. Were the ground water contours computer generated _____, computer aided _____, or hand-drawn _____? If computer aided or generated, identify the interpolation method(s) used.

CONTOUR MAP REPORTING FORM
Figure 4-6 Bedrock Ground Water Contour Map (March 1996)

This reporting form shall accompany each ground water elevation contour map submittal. Use additional sheets as necessary.

1. Did any surveyed well casing elevations change from the previous sampling event? Yes ____ No __X__. If yes, attach new "Well Certification - Form B" and identify the reason for the elevation change (damage to casing, installation of recovery system in monitoring well, etc.).

2. Are there any monitor wells in unconfined aquifers in which the water table elevation is higher than the top of the well screen? Yes _____ No _____. If yes, identify these wells.

3. Are there any monitor wells present at the site but omitted from the contour map? Yes _____ No ____. Unless omission of the well(s) has been previously approved by the department, justify the omissions.

4. Are there any monitor wells containing separate phase product during this measuring event? Yes _____ No _____. Were any of the monitor wells with separate phase product included in the ground water contour map? Yes _____ No _____. If yes, show the formula used to correct the water table elevation.

CONTOUR MAP REPORTING FORM
Figure 4-6 Bedrock Ground Water Contour Map (March 1996)

5. Has the ground water flow direction changed more than 45° from the previous ground water contour map? Yes _____ No _____. If yes, discuss the reason for the change.

6. Has ground water mounding and/or depressions been identified in the ground water contour map? Yes _____ No _____. Unless the ground water mounds and/or depressions are caused by the ground water remediation system, discuss the reasons for this occurrence.

7. Are all the wells used in the contour map screened in the same water-bearing zone? Yes ____ No _____. If no, justify inclusion of those wells.

8. Were the ground water contours computer generated _____, computer aided _____, or hand-drawn _____? If computer aided or generated, identify the interpolation method(s) used.

4.2 Waste Thinner Storage Tank

The analysis of the tank and floor rinsate indicate a number of TCL Volatiles and Semi-Volatile constituents present. In consideration of practical and feasible decontamination procedures that were carried out and the future use for paint related product storage, the results demonstrate that a clean level has been achieved. No further decontamination activities are recommended.

APPENDIX A

Soil Boring Logs

Diversified Environmental Resources Inc.
1440A Pennington Road, Trenton, New Jersey 08618
609-771-3616 Fax 609-771-4276

TEST BORING LOG

GM Linden DRUM STORAGE PAD

BORING No. BH-1

PROJECT Corporate Environmental Soil SAMPLING — SHEET 1 OF 1

CLIENT Corporate Environmental — JOB No. 09-0208

CONTRACTOR DER, INC. — STARTED 11/28/89

DRILLING METHOD Jack Hammer & hand auger — FINISHED 11/28/89

DRILL RIG TYPE — DRILLER STEVE

GROUND ELEV./ DATUM — INSPECTOR

	SAMP	CORE	CSG
TYPE			
DIA.	3"		

Depth (Feet)	Sample Number	Blows Per 6 Inches	P.I.D (ppm)	Unified Soil Classification	GEOLOGIC DESCRIPTION	REMARKS
0.2	BH-1				0-0.3' Asphalt	
0.4					0.3'-0.7' Concrete	
0.6					0.7'-1.0' Loose gray Fill (Sand + gravel)	
0.8						
1.0					1.0'-1.3' Dk brown gravel + sand fill w/ Metal + glass bits	
1.2						
1.4					1.3'-2.0' Reddish brown silty clay with some fill Material — soil oily at 1.3'-2.0'.	COMPOSITE SAMPLE 1.0'-2.0'
1.6			5ppm			OILY 1.4'-2.0'
1.8					Refusal at 2.0'	HNU = 5ppm
2.0						VOA Sample at 1.5'-2.0'
					TOTAL DEPTH: 2.0 Ft.	

Diversified Environmental Resources Inc
1440A Pennington Road, Trenton, New Jersey 08618
609-771-3616 Fax 609-771-4276

TEST BORING LOG

GM Linden DRUM STORAGE PAD

BORING No BH-2

PROJECT Corporate Environmental Soil SAMPLING — SHEET 1 OF 1

CLIENT Corporate Environmental — JOB No. 09-0200

CONTRACTOR DER, INC. — STARTED 11/28/89

DRILLING METHOD Jack Hammer & hand auger — SAMP — CORE — CSG — FINISHED 11/28/89

DRILL RIG TYPE — TYPE — DRILLER STEVE

GROUND ELEV./DATUM — DIA. 3" — INSPECTOR

Depth (Feet)	Sample Number	Blows Per 6 Inches	PID (ppm)	Unified Soil Classification	GEOLOGIC DESCRIPTION	REMARKS
0.2	BH-2				0-0.3' Asphalt	
0.4					0.3'-1.7' Cobble size clasts with finer gravel & sand fill. FILL includes metal & glass bits	HNU=0PPM
0.6						
0.8					Refusal at 1.7'	
1.0						
1.2						Composite sample 0.7'-1.7'
1.4						
1.6						VOA sample 1.1'-1.7'
1.8						
2.0					TOTAL DEPTH: 1.7 ft.	

Diversified Environmental Resources Inc
144 01A Pennington Road, Trenton, New Jersey 08618
609-771-3616 Fax 609-771-4276

TEST BORING LOG

GM Linden DRUM STORAGE PAD

BORING No BH-3

SHEET 1 OF 1

PROJECT Corporate Environmental Soil Sampling

JOB No 09-0208

CLIENT Corporate Environmental

STARTED 11/28/89

[redacted] CONTRACTOR DER, INC.

FINISHED 11/28/89

DRILLING METHOD Jack Hammer & hand auger

DRILLER STEVE

DRILL RIG TYPE

INSPECTOR

GROUND ELEV / DATUM

	SAMP	CORE	CSG
TYPE			
DIA.	3"		

Depth (Feet)	Sample Number	Blows Per 6 Inches	PID (ppm)	Unified Soil Classification	GEOLOGIC DESCRIPTION	REMARKS
0.2					0'-0.3' Asphalt	
					0.3'-0.4' Concrete	
0.4					0.4'-1.4' Cobble size clasts with finer gravel + sand fill. Metal bits present	HNU = 0 ppm
0.6						
0.8						
1.0	BH-3				Refusal : 1.4'	
1.2						composite sample 0.4'-1.4'
1.4						
1.6						VOA sample 0.8'-1.4'
1.8						
2.0						
					TOTAL DEPTH : 1.4 ft.	

Diversified Environmental Resources Inc.
1440A Pennington Road, Trenton, New Jersey 08618
609-771-3616 Fax 609-771-4276

TEST BORING LOG
GM Linden DRUM STORAGE PAD

BORING No BH-4

PROJECT	Corporate Environmental Soil SAMPLING				SHEET 1 OF
CLIENT	Corporate Environmental				JOB No. 89-0208
CONTRACTOR	DER, INC.				STARTED 11/28/89
DRILLING METHOD	Jack Hammer & hand auger	SAMP	CORE	CSG	FINISHED 11/28/89
DRILL RIG TYPE		TYPE			DRILLER STEVE
GROUND ELEV./ DATUM		DIA.	3"		INSPECTOR

Depth (Feet)	Sample Number	Blows Per 6 Inches	PID (ppm)	Unified Soil Classification	GEOLOGIC DESCRIPTION	REMARKS
0.2	BH-4				0.'-0.3' Asphalt 0.3'-0.4' Cobble size clasts 0.4'-1.3' Gravel and sand fill with some silt + glass bits Refusal : 1.3'	HNU= 0ppm COMPOSITE sample 0.4'-1.3' VOA SAMPLE 0.6'-1.2'
0.4						
0.6						
0.8						
1.0						
1.2					TOTAL DEPTH: 1.2 ft.	
1.4						
1.6						
1.8						
2.0						

Diversified Environmental Resources Inc.
1440A Pennington Road, Trenton, New Jersey 08618
609-771-3616 Fax 609-771-4276

TEST BORING LOG
6M & Linden DRUM STORAGE PAD

BORING No BH-5
SHEET 1 OF 1
JOB No. 89-0208
STARTED 11/28/89
FINISHED 11/28/89
DRILLER STEVE
INSPECTOR

PROJECT Corporate Environmental Soil SAMPLING
CLIENT Corporate Environmental
[redacted] CONTRACTOR DER, INC.
DRILLING METHOD Jack Hammer & hand auger
DRILL RIG TYPE
GROUND ELEV./ DATUM

	SAMP	CORE	CSG
TYPE			
DIA.	3"		

Depth (Feet)	Sample Number	Blows Per 6 inches	PID (ppm)	Unified Soil Classification	GEOLOGIC DESCRIPTION	REMARKS
0.2	BH-5				0'-0.3' Asphalt 0.3'-0.4' Cobble size clasts 0.4'-1.3' Gravel and sand Fill with metal + glass bits Refusal : 1.3'	HNU = 0ppm Composite sample 0.4'-1.3' VOA SAMPLE 0.3'-1.3'
0.4						
0.6						
0.8						
1.0						
1.2						
1.4						
1.6						
1.8						
2.0					TOTAL DEPTH : 1.3'	

Diversified Environmental Resources Inc
144 1A Pennington Road, Trenton, New Jersey 08618
609-771 3616 Fax 609-771-4276

TEST BORING LOG

GM Linden DRUM STORAGE PAD

BORING No. BH-6

PROJECT Corporate Environmental Soil SAMPLING

SHEET 1 OF 1

CLIENT Corporate Environmental

JOB No 89-02

CONTRACTOR DER, INC.

STARTED 11/28/89

DRILLING METHOD Jack Hammer & hand auger | SAMP | CORE | CSG

FINISHED 11/28/89

DRILL RIG TYPE | TYPE

DRILLER STEVE

GROUND ELEV./ DATUM | DIA. 3"

INSPECTOR

Depth (Feet)	Sample Number	Blows Per 6 Inches	PID (ppm)	Unified Soil Classification	GEOLOGIC DESCRIPTION	REMARKS
0.2	BH-6				0'-0.3' Asphalt 0.3'-0.5' Cobble size clasts w/ finer gravel + sand fill 0.5'-1.6' Gravel + sand fill with glass + plastic bits. Red clay at 1.6' along with gravel and sand. Refusal: 1.6'	HNV = 0ppm COMPOSITE SAMPLE at 0.6'-1.6' VOA SAMPLE 1.0'-1.6'
0.4						
0.6						
0.8						
1.0						
1.2						
1.4						
1.6					TOTAL DEPTH: 1.6 Ft.	
1.8						
2.0						

APPENDIX B

Hazardous Waste Manifest

HWM-001 (REV. 8/88)

State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. / Manifest Document No.: NJD021861691 / 7183 9
2. Page 1 of 1
Information in the shaded area is not required by Federal law.

3. Generator's Name and Mailing Address
GENERAL MOTORS CORP.
1016 WEST EDGAR ROAD LINDEN, NJ 07036

4. Generator's Phone (201) 474-4303

5. Transporter 1 Company Name / 6. US EPA ID Number
ADGHER INDUSTRIAL VAC SVEVICE INC NJD987077276

7. Transporter 2 Company Name / 8. US EPA ID Number

9. Designated Facility Name and Site Address / 10. US EPA ID Number
SEM WASTE INC.
105 JACOBUS AVE.
SOUTH KEARNY, NJ 07032 NJD991291105

A. State Manifest Document Number: NJA 0771839
B. State Generator's ID: SANE
C. State Trans. ID: NJDEP 5699B
D. Transporter's Phone: 201 862-2277
E. State Trans. ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone (201) 344-4004

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a.	X	WASTE PAINT RELATED MATERIAL RQ (FD03) FLAMABLE LIQUID NA1263 PG II	001	TT	00494	G	D001
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above
a. REACTIVE PAINT WASTE
THINNER 40-95%
PAINTS & PIGMENTS 5-60%
b.

K. Handling Codes for Wastes Listed Above
a.
b.

15. Special Handling Instructions and Additional Information
SEM APPROVAL # 003
VEHICLE I.D.# 20286
AN INTERIM REGISTRATION CARD WHICH VALIDATES THE TRUCKS REGISTRATION IS CARRIED IN VEHICLE IN LIEU OF NJ DEP'S EXHAUSTED YELLOW DECAL. SUPPLY AS PER ROBERT CONFER OF NJ DEP

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: LOIS A. FORTENBOCHER
Signature: Lois A. Fortenbocher
Month Day Year: 11 27 89

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: CARLOS RIVERA
Signature: Carlos Rivera
Month Day Year: 11 28 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year:

19. Discrepancy Indication Space
ACCEPTED AS PER LOAD TICKET FOR 5 DRUMS FLAMMABLE LIQUID

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: BRADLEY A. SIRCUS
Signature:
Month Day Year:

GENERATOR
TRANSPORTER
FACILITY

In case of an emergency or spill immediately call the state the emergency occurred in and the N.J. Dept. of Environmental Protection. (609) 292-5500 (Day) (609) 292-7172 (Night)

APPENDIX C

Laboratory Analytical Data Summaries

ENVIROTECH RESEARCH, INC.

777 New Durham Road
Edison, New Jersey 08817
Tel: (201) 549-3900
Fax: (201) 549-3679

December 29, 1989

Corporate Environmental Eng. Inc
210 Carnegie Center
Princeton, NJ 08540

Attention: Mr. Frank Jankoski

Re: Job No. 6052 - General Motors

Dear Mr. Jankoski:

Enclosed are the results you requested for the following samples taken 11/28/89 at General Motors:

Lab No.	Client ID	Analysis Requested
30353	Sample Point #1	TCL VOA +10, TCL Semivolatiles +20 and TCL Metals
30354	Sample Point #2	TCL VOA +10, TCL Semivolatiles +20 and TCL Metals
30355	Sample Point #3	TCL VOA +10, TCL Semivolatiles +20 and TCL Metals
30356	Sample Point #4	TCL VOA +10, TCL Semivolatiles +20 and TCL Metals
30357	Sample Point #5	TCL VOA +10, TCL Semivolatiles +20 and TCL Metals
30358	Sample Point #6	TCL VOA +10, TCL Semivolatiles +20 and TCL Metals

ENVIROTECH RESEARCH, INC.

Lab No.	Client ID	Analysis Requested
30359	Field Blank	TCL VOA +10, TCL Semivolatiles +20 and TCL Metals
30360	Trip Blank	TCL VOA +10

An invoice for our services is also enclosed. Please call me at 549-3900 if you have any questions.

Very truly yours,

Michael J. Urban
Laboratory Manager

Envirotech Research, Inc.
H S L ANALYSIS DATA

JOB NUMBER	6052	MATRIX	Soil
SAMPLE NUMBER	30353	DILUTION FACTOR	1.00
CLIENT ID	CEE,SPL, PT.#1	QA BATCH	1442
DATA FILE	>30353	DATE ANALYZED	~~12/12/89~~ 12/11/89 JP

COMPOUND	UG/KG	MDL	COMPOUND	UG/KG	MDL
CHLOROMETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
BROMOMETHANE	ND	10	TRICHLOROETHENE	ND	5
VINYL CHLORIDE	ND	10	DIBROMOCHLOROMETHANE	ND	5
CHLOROETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
METHYLENE CHLORIDE	ND	5	BENZENE	ND	5
ACETONE	61	10	TRANS-1,3-DICHLOROPROPENE	ND	5
CARBON DISULFIDE	ND	5	BROMOFORM	ND	5
1,1-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	ND	10
1,1-DICHLOROETHANE	ND	5	2-HEXANONE	ND	10
1,2-DICHLOROETHENE (TOTAL)	ND	5	TETRACHLOROETHENE	ND	5
CHLOROFORM	ND	5	TOLUENE	ND	5
1,2-DICHLOROETHANE	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
2-BUTANONE	ND	10	CHLOROBENZENE	ND	5
1,1,1-TRICHLOROETHANE	ND	5	ETHYLBENZENE	ND	5
CARBON TETRACHLORIDE	ND	5	STYRENE	ND	5
VINYL ACETATE	ND	10	M-XYLENE	ND	5
BROMODICHLOROMETHANE	ND	5	O&P-XYLENE	ND	5
1,2-DICHLOROPROPANE	ND	5		ND	0

SURROGATE COMPOUNDS	% RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	107	70 - 121	OK
Toluene-d8	111	81 - 117	OK
Bromofluorobenzene	105	74 - 121	OK

Percent Solid of 83.8 is used for all Target compounds.

(J) Indicates detected below MDL
(B) Indicates also present in blank
(ND) Indicates compound not detected

Laboratory Name ENVIRO TECH RESEARCH

Case No 6052

Sample Number 30353

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Date Extracted/Prepared: 11/30/89

Date Analyzed: 12/19/89, 12/22/89

Conc/Dil Factor: 30 GMS → 10 MLS

Percent Moisture (Decanted) 16.2

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	3300 U
111-44-4	bis(2-Chloroethyl)Ether	↓
95-57-8	2-Chlorophenol	↓
541-73-1	1, 3-Dichlorobenzene	↓
106-46-7	1, 4-Dichlorobenzene	↓
100-51-6	Benzyl Alcohol	↓
95-50-1	1, 2-Dichlorobenzene	↓
95-48-7	2-Methylphenol	↓
39638-32-9	bis(2-chloroisopropyl)Ether	↓
106-44-5	4-Methylphenol	↓
621-64-7	N-Nitroso-Di-n-Propylamine	↓
67-72-1	Hexachloroethane	↓
98-95-3	Nitrobenzene	↓
78-59-1	Isophorone	↓
88-75-5	2-Nitrophenol	↓
105-67-9	2, 4-Dimethylphenol	↓
65-85-0	Benzoic Acid	16000 U
111-91-1	bis(2-Chloroethoxy)Methane	3300 U
120-83-2	2, 4-Dichlorophenol	↓
120-82-1	1, 2, 4-Trichlorobenzene	↓
91-20-3	Naphthalene	1200 J
106-47-8	4-Chloroaniline	3300 U
87-68-3	Hexachlorobutadiene	↓
59-50-7	4-Chloro-3-Methylphenol	↓
91-57-6	2-Methylnaphthalene	1800 J
77-47-4	Hexachlorocyclopentadiene	3300 U
88-06-2	2, 4, 6-Trichlorophenol	↓
95-95-4	2, 4, 5-Trichlorophenol	↓
91-58-7	2-Chloronaphthalene	↓
88-74-4	2-Nitroaniline	↓
131-11-3	Dimethyl Phthalate	↓
208-96-8	Acenaphthylene	440 J
99-09-2	3-Nitroaniline	3300 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	600 J
51-28-5	2, 4-Dinitrophenol	16000 U
100-02-7	4-Nitrophenol	16000 U
132-64-9	Dibenzofuran	250 J
121-14-2	2, 4-Dinitrotoluene	3300 U
606-20-2	2, 6-Dinitrotoluene	↓
84-66-2	Diethylphthalate	↓
7005-72-3	4-Chlorophenyl-phenylether	↓
86-73-7	Fluorene	2400 J
100-01-6	4-Nitroaniline	3300 U
534-52-1	4, 6-Dinitro-2-Methylphenol	16000 U
86-30-6	N-Nitrosodiphenylamine (1)	3300 U
101-55-3	4-Bromophenyl-phenylether	↓
118-74-1	Hexachlorobenzene	↓
87-86-5	Pentachlorophenol	↓
85-01-8	Phenanthrene	8300
120-12-7	Anthracene	1500 J
84-74-2	Di-n-Butylphthalate	560 J
206-44-0	Fluoranthene	7400
129-00-0	Pyrene	15000
85-68-7	Butylbenzylphthalate	3300 U
91-94-1	3, 3'-Dichlorobenzidine	↓
56-55-3	Benzo(a)Anthracene	4800
117-81-7	bis(2-Ethylhexyl)Phthalate	3300 U
218-01-9	Chrysene	6000
117-84-0	Di-n-Octyl Phthalate	3300 U
205-99-2	Benzo(b)Fluoranthene	6200
207-08-9	Benzo(k)Fluoranthene	3300 U
50-32-8	Benzo(a)Pyrene	3400
193-39-5	Indeno(1, 2, 3-cd)Pyrene	1800 J
53-70-3	Dibenz(a, h)Anthracene	680 J
191-24-2	Benzo(g, h, i)Perylene	1700 J

(1)-Cannot be seperated from diphenylamine

ENVIROTECH RESEARCH, INC.

Corporate Environmental Eng. Inc
210 Carnegie Center
Princeton, NJ 08540
Attention: Mr. Frank Jankoski

Report Date: 12/29/89
Job No.: 6052 - General Motors
N.J. Certified Lab No. 12543

HSL METALS

Parameter	Lab No. 30353 Client ID: Sample Point #1 83.8% Solid Units: mg/kg (Dry Weight)	Detection Limit Units: mg/kg	Method Code[1]
Aluminum	13400	40	P
Antimony	23.2	1.0	F
Arsenic	8.4	1.0	F
Barium	697	40	P
Beryllium	ND	1.0	P
Cadmium	6.7	1.0	P
Calcium	10000	1000	P
Chromium	36.5	2.0	P
Cobalt	ND	10	P
Copper	79.2	5.0	P
Iron	35300	20	P
Lead	1300	10	P
Magnesium	5340	1000	P
Manganese	477	3.0	P
Mercury	0.44	0.1	CV
Nickel	34	8.0	P
Potassium	2000	1000	P
Selenium	ND	1.0	F
Silver	ND	2.0	P
Sodium	ND	1000	P
Thallium	ND	1.0	F
Vanadium	32	10	P
Zinc	778	4.0	P

[1]Method Code: P-ICP, A-Flame AA, F-Furnace AA, CV-Manual Cold Vapor.

Envirotech Research, Inc.
H S L ANALYSIS DATA

JOB NUMBER	6052	MATRIX	Soil
SAMPLE NUMBER	30353A	DILUTION FACTOR	1.00
CLIENT ID	CEE,SPL. PT.#1	QA BATCH	1442
DATA FILE	>RR53A	DATE ANALYZED	12/12/89

COMPOUND	UG/KG	MDL	COMPOUND	UG/KG	MDL
CHLOROMETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
BROMOMETHANE	ND	10	TRICHLOROETHENE	ND	5
VINYL CHLORIDE	ND	10	DIBROMOCHLOROMETHANE	ND	5
CHLOROETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
METHYLENE CHLORIDE	ND	5	BENZENE	ND	5
ACETONE	94	10	TRANS-1,3-DICHLOROPROPENE	ND	5
CARBON DISULFIDE	ND	5	BROMOFORM	ND	5
1,1-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	ND	10
1,1-DICHLOROETHANE	ND	5	2-HEXANONE	ND	10
1,2-DICHLOROETHENE (TOTAL)	ND	5	TETRACHLOROETHENE	ND	5
CHLOROFORM	ND	5	TOLUENE	ND	5
1,2-DICHLOROETHANE	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
2-BUTANONE	7.5 J	10	CHLOROBENZENE	ND	5
1,1,1-TRICHLOROETHANE	ND	5	ETHYLBENZENE	ND	5
CARBON TETRACHLORIDE	ND	5	STYRENE	ND	5
VINYL ACETATE	ND	10	M-XYLENE	ND	5
BROMODICHLOROMETHANE	ND	5	O&P-XYLENE	ND	5
1,2-DICHLOROPROPANE	ND	5		ND	0

SURROGATE COMPOUNDS	% RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	115	70 - 121	OK
Toluene-d8	110	81 - 117	OK
Bromofluorobenzene	114	74 - 121	OK

Percent Solid of 83.6 is used for all Target compounds.

(J) Indicates detected below MDL
(B) Indicates also present in blank
(ND) Indicates compound not detected

Laboratory Name ENVIROTECH LABS

Case No 6052

Sample Number 30353 A

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Date Extracted/Prepared: 11/30/89

Date Analyzed: 12/19/89, 12/22/89

Conc/Dil Factor: 30 GMS → 10 MLS

Percent Moisture (Decanted) 16.4

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	3300 U
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	16000 U
111-91-1	bis(-2-Chloroethoxy)Methane	3300 U
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	1400 J
106-47-8	4-Chloroaniline	3300 U
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	2200 J
77-47-4	Hexachlorocyclopentadiene	3300 U
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	
91-58-7	2-Chloronaphthalene	
88-74-4	2-Nitroaniline	
131-11-3	Dimethyl Phthalate	
208-96-8	Acenaphthylene	500 J
99-09-2	3-Nitroaniline	3300 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	1000 J
51-28-5	2, 4-Dinitrophenol	16000 U
100-02-7	4-Nitrophenol	16000 U
132-64-9	Dibenzofuran	310 J
121-14-2	2, 4-Dinitrotoluene	3300 U
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	2900 J
100-01-6	4-Nitroaniline	3300 U
534-52-1	4, 6-Dinitro-2-Methylphenol	16000 U
86-30-6	N-Nitrosodiphenylamine (1)	3300 U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	
85-01-8	Phenanthrene	10000
120-12-7	Anthracene	1800 J
84-74-2	Di-n-Butylphthalate	510 JB
206-44-0	Fluoranthene	4800
129-00-0	Pyrene	12000
85-68-7	Butylbenzylphthalate	3300 U
91-94-1	3, 3'-Dichlorobenzidine	
56-55-3	Benzo(a)Anthracene	3200 J
117-81-7	bis(2-Ethylhexyl)Phthalate	1200 J
218-01-9	Chrysene	4300
117-84-0	Di-n-Octyl Phthalate	3300 U
205-99-2	Benzo(b)Fluoranthene	3700
207-08-9	Benzo(k)Fluoranthene	3300 U
50-32-8	Benzo(a)Pyrene	2500 J
193-39-5	Indeno(1, 2, 3-cd)Pyrene	1400 J
53-70-3	Dibenz(a, h)Anthracene	460 J
191-24-2	Benzo(g, h, i)Perylene	1400 J

(1)-Cannot be separated from diphenylamine

ENVIROTECH RESEARCH, INC.

Corporate Environmental Eng. Inc
210 Carnegie Center
Princeton, NJ 08540
Attention: Mr. Frank Jankoski

Report Date: 12/29/89
Job No.: 6052 - General Motors
N.J. Certified Lab No. 12543

HSL METALS

Lab No. 30353A
Client ID: Sample Point #1
83.6% Solid

Parameter	Units: mg/kg (Dry Weight)	Detection Limit Units: mg/kg	Method Code[1]
Aluminum	10700	40	P
Antimony	6.9	1.0	F
Arsenic	4.4	1.0	F
Barium	707	40	P
Beryllium	ND	1.0	P
Cadmium	5.5	1.0	P
Calcium	6600	1000	P
Chromium	27.8	2.0	P
Cobalt	ND	10	P
Copper	81.3	5.0	P
Iron	25400	20	P
Lead	1290	10	P
Magnesium	3800	1000	P
Manganese	457	3.0	P
Mercury	0.41	0.1	CV
Nickel	30	8.0	P
Potassium	1100	1000	P
Selenium	ND	1.0	F
Silver	ND	2.0	P
Sodium	ND	1000	P
Thallium	ND	1.0	F
Vanadium	25	10	P
Zinc	703	4.0	P

[1]Method Code: P-ICP, A-Flame AA, F-Furnace AA, CV-Manual Cold Vapor.

Envirotech Research, Inc.
H S L ANALYSIS DATA

JOB NUMBER	6052	MATRIX	Soil
SAMPLE NUMBER	30354	DILUTION FACTOR	1.00
CLIENT ID	CEE,SPL. PT.#2	QA BATCH	1442
DATA FILE	>RR354	DATE ANALYZED	12/12/89

COMPOUND	UG/KG	MDL	COMPOUND	UG/KG	MDL
CHLOROMETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
BROMOMETHANE	ND	10	TRICHLOROETHENE	ND	5
VINYL CHLORIDE	ND	10	DIBROMOCHLOROMETHANE	ND	5
CHLOROETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
METHYLENE CHLORIDE	ND	5	BENZENE	ND	5
ACETONE	59	10	TRANS-1,3-DICHLOROPROPENE	ND	5
CARBON DISULFIDE	ND	5	BROMOFORM	ND	5
1,1-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	ND	10
1,1-DICHLOROETHANE	ND	5	2-HEXANONE	ND	10
1,2-DICHLOROETHENE (TOTAL)	ND	5	TETRACHLOROETHENE	ND	5
CHLOROFORM	ND	5	TOLUENE	ND	5
1,2-DICHLOROETHANE	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
2-BUTANONE	ND	10	CHLOROBENZENE	ND	5
1,1,1-TRICHLOROETHANE	ND	5	ETHYLBENZENE	ND	5
CARBON TETRACHLORIDE	ND	5	STYRENE	ND	5
VINYL ACETATE	ND	10	M-XYLENE	ND	5
BROMODICHLOROMETHANE	ND	5	O&P-XYLENE	ND	5
1,2-DICHLOROPROPANE	ND	5		ND	0

SURROGATE COMPOUNDS	% RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	119	70 - 121	OK
Toluene-d8	108	81 - 117	OK
Bromofluorobenzene	107	74 - 121	OK

Percent Solid of 78.9 is used for all Target compounds.

(J) Indicates detected below MDL
(B) Indicates also present in blank
(ND) Indicates compound not detected

Laboratory Name ENVIROTECH RESEARCH

Case No 6052

Sample Number 30354

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Date Extracted/Prepared: 11/30/89

Date Analyzed: 12/19/89, 12/22/89

Conc/Dil Factor: 30 GMS → 10 MLS

Percent Moisture (Decanted) 21.1

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	3300 U
111-44-4	bis(-2-Chloroethyl)Ether	↓
95-57-8	2-Chlorophenol	↓
541-73-1	1, 3-Dichlorobenzene	↓
106-46-7	1, 4-Dichlorobenzene	↓
100-51-6	Benzyl Alcohol	↓
95-50-1	1, 2-Dichlorobenzene	↓
95-48-7	2-Methylphenol	↓
39638-32-9	bis(2-chloroisopropyl)Ether	↓
106-44-5	4-Methylphenol	↓
621-64-7	N-Nitroso-Di-n-Propylamine	↓
67-72-1	Hexachloroethane	↓
98-95-3	Nitrobenzene	↓
78-59-1	Isophorone	↓
88-75-5	2-Nitrophenol	↓
105-67-9	2, 4-Dimethylphenol	↓
65-85-0	Benzoic Acid	16000 U
111-91-1	bis(-2-Chloroethoxy)Methane	3300 U
120-83-2	2, 4-Dichlorophenol	↓
120-82-1	1, 2, 4-Trichlorobenzene	↓
91-20-3	Naphthalene	790 J
106-47-8	4-Chloroaniline	3300 U
87-68-3	Hexachlorobutadiene	↓
59-50-7	4-Chloro-3-Methylphenol	↓
91-57-6	2-Methylnaphthalene	680 J
77-47-4	Hexachlorocyclopentadiene	3300 U
88-06-2	2, 4, 6-Trichlorophenol	↓
95-95-4	2, 4, 5-Trichlorophenol	↓
91-58-7	2-Chloronaphthalene	↓
88-74-4	2-Nitroaniline	↓
131-11-3	Dimethyl Phthalate	↓
208-96-8	Acenaphthylene	2400 J
99-09-2	3-Nitroaniline	3300 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	770 J
51-28-5	2, 4-Dinitrophenol	16000 U
100-02-7	4-Nitrophenol	16000 U
132-64-9	Dibenzofuran	430 J
121-14-2	2, 4-Dinitrotoluene	3300 U
606-20-2	2, 6-Dinitrotoluene	↓
84-66-2	Diethylphthalate	↓
7005-72-3	4-Chlorophenyl-phenylether	↓
86-73-7	Fluorene	920 J
100-01-6	4-Nitroaniline	3300 U
534-52-1	4, 6-Dinitro-2-Methylphenol	16000 U
86-30-6	N-Nitrosodiphenylamine (1)	3300 U
101-55-3	4-Bromophenyl-phenylether	↓
118-74-1	Hexachlorobenzene	↓
87-86-5	Pentachlorophenol	↓
85-01-8	Phenanthrene	7000
120-12-7	Anthracene	3600
84-74-2	Di-n-Butylphthalate	1200 J
206-44-0	Fluoranthene	22000
129-00-0	Pyrene	33000
85-68-7	Butylbenzylphthalate	3300 U
91-94-1	3, 3'-Dichlorobenzidine	↓
56-55-3	Benzo(a)Anthracene	13000
117-81-7	bis(2-Ethylhexyl)Phthalate	3300 U
218-01-9	Chrysene	13000
117-84-0	Di-n-Octyl Phthalate	3300 U
205-99-2	Benzo(b)Fluoranthene	24000
207-08-9	Benzo(k)Fluoranthene	3300 U
50-32-8	Benzo(a)Pyrene	15000
193-39-5	Indeno(1, 2, 3-cd)Pyrene	9200
53-70-3	Dibenzo(a, h)Anthracene	2800 J
191-24-2	Benzo(g, h, i)Perylene	7700

(1)-Cannot be seperated from diphenylamine

ENVIROTECH RESEARCH, INC.

Corporate Environmental Eng. Inc
210 Carnegie Center
Princeton, NJ 08540
Attention: Mr. Frank Jankoski

Report Date: 12/29/89
Job No.: 6052 - General Motors
N.J. Certified Lab No. 12543

HSL METALS

Parameter	Lab No. 30354 Client ID: Sample Point #2 78.9% Solid Units: mg/kg (Dry Weight)	Detection Limit Units: mg/kg	Method Code[1]
Aluminum	7740	40	P
Antimony	71.2	1.0	F
Arsenic	20.5	1.0	F
Barium	796	40	P
Beryllium	ND	1.0	P
Cadmium	5.1	1.0	P
Calcium	11700	1000	P
Chromium	25.9	2.0	P
Cobalt	ND	10	P
Copper	166	5.0	P
Iron	31800	20	P
Lead	6430	10	P
Magnesium	4100	1000	P
Manganese	420	3.0	P
Mercury	0.32	0.1	CV
Nickel	26	8.0	P
Potassium	ND	1000	P
Selenium	ND	1.0	F
Silver	ND	2.0	P
Sodium	ND	1000	P
Thallium	ND	1.0	F
Vanadium	24	10	P
Zinc	1340	4.0	P

[1]Method Code: P-ICP, A-Flame AA, F-Furnace AA, CV-Manual Cold Vapor.

Envirotech Research, Inc.
H S L ANALYSIS DATA

JOB NUMBER	6052	MATRIX	Soil
SAMPLE NUMBER	30355	DILUTION FACTOR	1.00
CLIENT ID	CEE.SPL. PT.#3	QA BATCH	1442
DATA FILE	>RR355	DATE ANALYZED	12/12/89

COMPOUND	UG/KG	MDL	COMPOUND	UG/KG	MDL
CHLOROMETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
BROMOMETHANE	ND	10	TRICHLOROETHENE	ND	5
VINYL CHLORIDE	ND	10	DIBROMOCHLOROMETHANE	ND	5
CHLOROETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
METHYLENE CHLORIDE	ND	5	BENZENE	ND	5
ACETONE	100	10	TRANS-1,3-DICHLOROPROPENE	ND	5
CARBON DISULFIDE	ND	5	BROMOFORM	ND	5
1,1-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	ND	10
1,1-DICHLOROETHANE	ND	5	2-HEXANONE	ND	10
1,2-DICHLOROETHENE (TOTAL)	ND	5	TETRACHLOROETHENE	ND	5
CHLOROFORM	ND	5	TOLUENE	ND	5
1,2-DICHLOROETHANE	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
2-BUTANONE	ND	10	CHLOROBENZENE	ND	5
1,1,1-TRICHLOROETHANE	ND	5	ETHYLBENZENE	ND	5
CARBON TETRACHLORIDE	ND	5	STYRENE	ND	5
VINYL ACETATE	ND	10	M-XYLENE	ND	5
BROMODICHLOROMETHANE	ND	5	O&P-XYLENE	ND	5
1,2-DICHLOROPROPANE	ND	5		ND	0

SURROGATE COMPOUNDS	% RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	112	70 - 121	OK
Toluene-d8	110	81 - 117	OK
Bromofluorobenzene	99.8	74 - 121	OK

Percent Solid of 84.7 is used for all Target compounds.

(J) Indicates detected below MDL
(B) Indicates also present in blank
(ND) Indicates compound not detected

Laboratory Name ENVIROTECH RESEARCH

Case No 6052

Sample Number 30355

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Date Extracted/Prepared: 11/30/89

Date Analyzed: 12/20/89, 12/22/89

Conc/Dil Factor: 30 GMS → 10 MLS

Percent Moisture (Decanted) 15.3

GPC Cleanup ☐Yes ☒No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	330 U
111-44-4	bis(2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-Chloroisopropyl)Ether	
106-44-5	4-Methylphenol	720 J
621-64-7	N-Nitroso-Di-n-Propylamine	330 U
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	410 J
111-91-1	bis(2-Chloroethoxy)Methane	330 U
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	1300 J
106-47-8	4-Chloroaniline	330 U
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	1000 J
77-47-4	Hexachlorocyclopentadiene	330 U
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	
91-58-7	2-Chloronaphthalene	
88-74-4	2-Nitroaniline	
131-11-3	Dimethyl Phthalate	
208-96-8	Acenaphthylene	2400 J
99-09-2	3-Nitroaniline	330 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	1000 J
51-28-5	2, 4-Dinitrophenol	16000 U
100-02-7	4-Nitrophenol	6600 U
132-64-9	Dibenzofuran	580 J
121-14-2	2, 4-Dinitrotoluene	3300 U
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	1800 J
100-01-6	4-Nitroaniline	330 U
534-52-1	4, 6-Dinitro-2-Methylphenol	16000 U
86-30-6	N-Nitrosodiphenylamine (1)	330 U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	
85-01-8	Phenanthrene	7500
120-12-7	Anthracene	3400
84-74-2	Di-n-Butylphthalate	1500 J
206-44-0	Fluoranthene	24000
129-00-0	Pyrene	25000
85-68-7	Butylbenzylphthalate	330 U
91-94-1	3, 3'-Dichlorobenzidine	
56-55-3	Benzo(a)Anthracene	12000
117-81-7	bis(2-Ethylhexyl)Phthalate	3300 U
218-01-9	Chrysene	13000
117-84-0	Di-n-Octyl Phthalate	3300 U
205-99-2	Benzo(b)Fluoranthene	25000
207-08-9	Benzo(k)Fluoranthene	3300 U
50-32-8	Benzo(a)Pyrene	14000
193-39-5	Indeno(1, 2, 3-cd)Pyrene	6000
53-70-3	Dibenz(a, h)Anthracene	2200 J
191-24-2	Benzo(g, h, i)Perylene	4400

(1)-Cannot be separated from diphenylamine

ENVIROTECH RESEARCH, INC.

Corporate Environmental Eng. Inc
210 Carnegie Center
Princeton, NJ 08540
Attention: Mr. Frank Jankoski

Report Date: 12/29/89
Job No.: 6052 - General Motors
N.J. Certified Lab No. 12543

HSL METALS

Parameter	Lab No. 30355 Client ID: Sample Point #3 84.7% Solid Units: mg/kg (Dry Weight)	Detection Limit Units: mg/kg	Method Code[1]
Aluminum	11100	40	P
Antimony	15.1	1.0	F
Arsenic	6.4	1.0	F
Barium	1640	40	P
Beryllium	ND	1.0	P
Cadmium	6.9	1.0	P
Calcium	14400	1000	P
Chromium	30.7	2.0	P
Cobalt	ND	10	P
Copper	184	5.0	P
Iron	32300	20	P
Lead	2340	10	P
Magnesium	6000	1000	P
Manganese	442	3.0	P
Mercury	0.15	0.1	CV
Nickel	36	8.0	P
Potassium	ND	1000	P
Selenium	ND	1.0	F
Silver	ND	2.0	P
Sodium	1600	1000	P
Thallium	ND	1.0	F
Vanadium	32	10	P
Zinc	5210	4.0	P

[1]Method Code: P-ICP, A-Flame AA, F-Furnace AA, CV-Manual Cold Vapor.

Envirotech Research, Inc.
H S L ANALYSIS DATA

JOB NUMBER	6052	MATRIX	Soil
SAMPLE NUMBER	30356	DILUTION FACTOR	1.00
CLIENT ID	CEE,SPL. PT.#4	QA BATCH	1442
DATA FILE	>RR356	DATE ANALYZED	12/12/89

COMPOUND	UG/KG	MDL	COMPOUND	UG/KG	MDL
CHLOROMETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
BROMOMETHANE	ND	10	TRICHLOROETHENE	ND	5
VINYL CHLORIDE	ND	10	DIBROMOCHLOROMETHANE	ND	5
CHLOROETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
METHYLENE CHLORIDE	ND	5	BENZENE	ND	5
ACETONE	52	10	TRANS-1,3-DICHLOROPROPENE	ND	5
CARBON DISULFIDE	ND	5	BROMOFORM	ND	5
1,1-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	ND	10
1,1-DICHLOROETHANE	ND	5	2-HEXANONE	ND	10
1,2-DICHLOROETHENE (TOTAL)	ND	5	TETRACHLOROETHENE	ND	5
CHLOROFORM	ND	5	TOLUENE	ND	5
1,2-DICHLOROETHANE	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
2-BUTANONE	ND	10	CHLOROBENZENE	ND	5
1,1,1-TRICHLOROETHANE	ND	5	ETHYLBENZENE	ND	5
CARBON TETRACHLORIDE	ND	5	STYRENE	ND	5
VINYL ACETATE	ND	10	M-XYLENE	ND	5
BROMODICHLOROMETHANE	ND	5	O&P-XYLENE	ND	5
1,2-DICHLOROPROPANE	ND	5		ND	0

SURROGATE COMPOUNDS	% RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	108	70 - 121	OK
Toluene-d8	108	81 - 117	OK
Bromofluorobenzene	80.2	74 - 121	OK

Percent Solid of 91.7 is used for all Target compounds.

(J) Indicates detected below MDL
(B) Indicates also present in blank
(ND) Indicates compound not detected

Laboratory Name ENVIROTECH RESEARCH

Case No 6052

Sample Number 30356

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Date Extracted/Prepared: 11/30/89

Date Analyzed: 12/19/89, 12/22/89

Conc/Dil Factor: 30 GMS → 10 MLS

Percent Moisture (Decanted) 8.3

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	3300 U
111-44-4	bis(2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1,3-Dichlorobenzene	
106-46-7	1,4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1,2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2,4-Dimethylphenol	
65-85-0	Benzoic Acid	140 J
111-91-1	bis(2-Chloroethoxy)Methane	3300 U
120-83-2	2,4-Dichlorophenol	
120-82-1	1,2,4-Trichlorobenzene	
91-20-3	Naphthalene	560 J
106-47-8	4-Chloroaniline	3300 U
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	300 J
77-47-4	Hexachlorocyclopentadiene	3300 U
88-06-2	2,4,6-Trichlorophenol	
95-95-4	2,4,5-Trichlorophenol	
91-58-7	2-Chloronaphthalene	
88-74-4	2-Nitroaniline	
131-11-3	Dimethyl Phthalate	
208-96-8	Acenaphthylene	320 J
99-09-2	3-Nitroaniline	3300 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	520 J
51-28-5	2,4-Dinitrophenol	16000 U
100-02-7	4-Nitrophenol	6600 U
132-64-9	Dibenzofuran	260 J
121-14-2	2,4-Dinitrotoluene	3300 U
606-20-2	2,6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	670 J
100-01-6	4-Nitroaniline	3300 U
534-52-1	4,6-Dinitro-2-Methylphenol	16000 U
86-30-6	N-Nitrosodiphenylamine (1)	3300 U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	
85-01-8	Phenanthrene	3100 J
120-12-7	Anthracene	900 J
84-74-2	Di-n-Butylphthalate	680 J
206-44-0	Fluoranthene	5400
129-00-0	Pyrene	7500
85-68-7	Butylbenzylphthalate	3300 U
91-94-1	3,3'-Dichlorobenzidine	
56-55-3	Benzo(a)Anthracene	2900 J
117-81-7	bis(2-Ethylhexyl)Phthalate	3300 U
218-01-9	Chrysene	3600
117-84-0	Di-n-Octyl Phthalate	3300 U
205-99-2	Benzo(b)Fluoranthene	5900
207-08-9	Benzo(k)Fluoranthene	3300 U
50-32-8	Benzo(a)Pyrene	3100 J
193-39-5	Indeno(1,2,3-cd)Pyrene	1900 J
53-70-3	Dibenz(a,h)Anthracene	3300 U
191-24-2	Benzo(g,h,i)Perylene	1800 J

(1)-Cannot be separated from diphenylamine

ENVIROTECH RESEARCH, INC.

Corporate Environmental Eng. Inc
210 Carnegie Center
Princeton, NJ 08540
Attention: Mr. Frank Jankoski

Report Date: 12/29/89
Job No.: 6052 - General Motors
N.J. Certified Lab No. 12543

HSL METALS

Lab No. 30356
Client ID: Sample Point #4
91.7% Solid

Parameter	Units: mg/kg (Dry Weight)	Detection Limit Units: mg/kg	Method Code[1]
Aluminum	5680	40	P
Antimony	9.1	1.0	F
Arsenic	6.7	1.0	F
Barium	828	40	P
Beryllium	ND	1.0	P
Cadmium	5.7	1.0	P
Calcium	9600	1000	P
Chromium	21.2	2.0	P
Cobalt	ND	10	P
Copper	191	5.0	P
Iron	22300	20	P
Lead	1110	10	P
Magnesium	3300	1000	P
Manganese	362	3.0	P
Mercury	0.34	0.1	CV
Nickel	26	8.0	P
Potassium	ND	1000	P
Selenium	ND	1.0	F
Silver	ND	2.0	P
Sodium	ND	1000	P
Thallium	ND	1.0	F
Vanadium	23	10	P
Zinc	929	4.0	P

[1]Method Code: P-ICP, A-Flame AA, F-Furnace AA, CV-Manual Cold Vapor.

Envirotech Research, Inc.
H S L ANALYSIS DATA

JOB NUMBER	6052	MATRIX	Soil
SAMPLE NUMBER	30357	DILUTION FACTOR	1.00
CLIENT ID	CEE.SPL. PT.#5	QA BATCH	1442
DATA FILE	>RR357	DATE ANALYZED	12/12/89

COMPOUND	UG/KG	MDL	COMPOUND	UG/KG	MDL
CHLOROMETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
BROMOMETHANE	ND	10	TRICHLOROETHENE	ND	5
VINYL CHLORIDE	ND	10	DIBROMOCHLOROMETHANE	ND	5
CHLOROETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
METHYLENE CHLORIDE	ND	5	BENZENE	ND	5
ACETONE	100	10	TRANS-1,3-DICHLOROPROPENE	ND	5
CARBON DISULFIDE	ND	5	BROMOFORM	ND	5
1,1-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	ND	10
1,1-DICHLOROETHANE	ND	5	2-HEXANONE	ND	10
1,2-DICHLOROETHENE (TOTAL)	ND	5	TETRACHLOROETHENE	ND	5
CHLOROFORM	ND	5	TOLUENE	ND	5
1,2-DICHLOROETHANE	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
2-BUTANONE	ND	10	CHLOROBENZENE	ND	5
1,1,1-TRICHLOROETHANE	ND	5	ETHYLBENZENE	ND	5
CARBON TETRACHLORIDE	ND	5	STYRENE	ND	5
VINYL ACETATE	ND	10	M-XYLENE	ND	5
BROMODICHLOROMETHANE	ND	5	O&P-XYLENE	ND	5
1,2-DICHLOROPROPANE	ND	5		ND	0

SURROGATE COMPOUNDS	% RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	110	70 - 121	OK
Toluene-d8	110	81 - 117	OK
Bromofluorobenzene	100	74 - 121	OK

Percent Solid of 85.3 is used for all Target compounds.

(J) Indicates detected below MDL
(B) Indicates also present in blank
(ND) Indicates compound not detected

Laboratory Name FLUID TECH RESEARCH

Case No 6052

Sample Number 30357

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Date Extracted/Prepared: 11/30/89

Date Analyzed: 12/20/89, 12/22/89

Conc/Dil Factor: 30 GMS → 10 MLS

Percent Moisture (Decanted) 14.7

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	3300 U
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	250 J
621-64-7	N-Nitroso-Di-n-Propylamine	3300 U
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	16000 U
111-91-1	bis(-2-Chloroethoxy)Methane	3300 U
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	8600
106-47-8	4-Chloroaniline	3300 U
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	4000
77-47-4	Hexachlorocyclopentadiene	3300 U
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	
91-58-7	2-Chloronaphthalene	
88-74-4	2-Nitroaniline	
131-11-3	Dimethyl Phthalate	
208-96-8	Acenaphthylene	3300
99-09-2	3-Nitroaniline	3300 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	8200
51-28-5	2, 4-Dinitrophenol	16000 U
100-02-7	4-Nitrophenol	6600 U
132-64-9	Dibenzofuran	4000
121-14-2	2, 4-Dinitrotoluene	3300 U
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	8800
100-01-6	4-Nitroaniline	3300 U
534-52-1	4, 6-Dinitro-2-Methylphenol	16000 U
86-30-6	N-Nitrosodiphenylamine (1)	3300 U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	
85-01-8	Phenanthrene	31000
120-12-7	Anthracene	9300
84-74-2	Di-n-Butylphthalate	2300 J
206-44-0	Fluoranthene	38000
129-00-0	Pyrene	38000
85-68-7	Butylbenzylphthalate	3300 U
91-94-1	3, 3'-Dichlorobenzidine	
56-55-3	Benzo(a)Anthracene	14000
117-81-7	bis(2-Ethylhexyl)Phthalate	3300 U
218-01-9	Chrysene	22000
117-84-0	Di-n-Octyl Phthalate	3300 U
205-99-2	Benzo(b)Fluoranthene	36000
207-08-9	Benzo(k)Fluoranthene	3300 U
50-32-8	Benzo(a)Pyrene	21000
193-39-5	Indeno(1, 2, 3-cd)Pyrene	7400
53-70-3	Dibenzo(a, h)Anthracene	2900 J
191-24-2	Benzo(g, h, i)Perylene	5200

(1)-Cannot be separated from diphenylamine

ENVIROTECH RESEARCH, INC.

Corporate Environmental Eng. Inc
210 Carnegie Center
Princeton, NJ 08540
Attention: Mr. Frank Jankoski

Report Date: 12/29/89
Job No.: 6052 - General Motors
N.J. Certified Lab No. 12543

HSL METALS

Lab No. 30357
Client ID: Sample Point #5
85.3% Solid

Parameter	Units: mg/kg (Dry Weight)	Detection Limit Units: mg/kg	Method Code[1]
Aluminum	9040	40	P
Antimony	49.3	1.0	F
Arsenic	8.2	1.0	F
Barium	1940	40	P
Beryllium	ND	1.0	P
Cadmium	12.7	1.0	P
Calcium	22000	1000	P
Chromium	42.2	2.0	P
Cobalt	ND	10	P
Copper	391	5.0	P
Iron	36600	20	P
Lead	8300	10	P
Magnesium	7300	1000	P
Manganese	539	3.0	P
Mercury	0.53	0.1	CV
Nickel	46	8.0	P
Potassium	ND	1000	P
Selenium	ND	1.0	F
Silver	ND	2.0	P
Sodium	ND	1000	P
Thallium	ND	1.0	F
Vanadium	30	10	P
Zinc	2550	4.0	P

[1]Method Code: P-ICP, A-Flame AA, F-Furnace AA, CV-Manual Cold Vapor.

Envirotech Research, Inc.
H S L ANALYSIS DATA

JOB NUMBER	6052	MATRIX	Soil
SAMPLE NUMBER	30358	DILUTION FACTOR	1.00
CLIENT ID	CEE,SPL, PT.#6	QA BATCH	1442
DATA FILE	>RR358	DATE ANALYZED	12/12/89

COMPOUND	UG/KG	MDL	COMPOUND	UG/KG	MDL
CHLOROMETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
BROMOMETHANE	ND	10	TRICHLOROETHENE	ND	5
VINYL CHLORIDE	ND	10	DIBROMOCHLOROMETHANE	ND	5
CHLOROETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
METHYLENE CHLORIDE	ND	5	BENZENE	ND	5
ACETONE	ND	10	TRANS-1,3-DICHLOROPROPENE	ND	5
CARBON DISULFIDE	ND	5	BROMOFORM	ND	5
1,1-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	ND	10
1,1-DICHLOROETHANE	ND	5	2-HEXANONE	ND	10
1,2-DICHLOROETHENE (TOTAL)	ND	5	TETRACHLOROETHENE	ND	5
CHLOROFORM	ND	5	TOLUENE	ND	5
1,2-DICHLOROETHANE	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
2-BUTANONE	ND	10	CHLOROBENZENE	ND	5
1,1,1-TRICHLOROETHANE	ND	5	ETHYLBENZENE	ND	5
CARBON TETRACHLORIDE	ND	5	STYRENE	ND	5
VINYL ACETATE	ND	10	M-XYLENE	ND	5
BROMODICHLOROMETHANE	ND	5	O&P-XYLENE	ND	5
1,2-DICHLOROPROPANE	ND	5		ND	0

SURROGATE COMPOUNDS	% RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	119	70 - 121	OK
Toluene-d8	129	81 - 117	OUT
Bromofluorobenzene	68.0	74 - 121	OUT

Percent Solid of 90.3 is used for all Target compounds.

(J) Indicates detected below MDL
(B) Indicates also present in blank
(ND) Indicates compound not detected

Laboratory Name ENVIROTECH RESEARCH

Case No 6052

Sample Number 30358

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Date Extracted/Prepared: 11/30/89

Date Analyzed: 12/20/89, 12/22/89

Conc/Dil Factor: 30 GMS → 10 MLS.

Percent Moisture (Decanted) 9.7

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☐Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	3300 U
111-44-4	bis(2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	16000 U
111-91-1	bis(-2-Chloroethoxy)Methane	3300 U
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	96 J
77-47-4	Hexachlorocyclopentadiene	3300 U
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	
91-58-7	2-Chloronaphthalene	
88-74-4	2-Nitroaniline	
131-11-3	Dimethyl Phthalate	
208-96-8	Acenaphthylene	110 J
99-09-2	3-Nitroaniline	3300 U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	160 J
51-28-5	2, 4-Dinitrophenol	16000 U
100-02-7	4-Nitrophenol	16000 U
132-64-9	Dibenzofuran	120 J
121-14-2	2, 4-Dinitrotoluene	3300 U
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	180 J
100-01-6	4-Nitroaniline	3300 U
534-52-1	4, 6-Dinitro-2-Methylphenol	16000 U
86-30-6	N-Nitrosodiphenylamine (1)	3300 U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	
85-01-8	Phenanthrene	1800 J
120-12-7	Anthracene	810 J
84-74-2	Di-n-Butylphthalate	3300 U
206-44-0	Fluoranthene	5200
129-00-0	Pyrene	5600
85-68-7	Butylbenzylphthalate	3300 U
91-94-1	3, 3'-Dichlorobenzidine	
56-55-3	Benzo(a)Anthracene	2700 J
117-81-7	bis(2-Ethylhexyl)Phthalate	4900
218-01-9	Chrysene	3200 J
117-84-0	Di-n-Octyl Phthalate	3300 U
205-99-2	Benzo(b)Fluoranthene	5900
207-08-9	Benzo(k)Fluoranthene	3300 U
50-32-8	Benzo(a)Pyrene	2400 J
193-39-5	Indeno(1, 2, 3-cd)Pyrene	1100 J
53-70-3	Dibenz(a, h)Anthracene	3300 U
191-24-2	Benzo(g, h, i)Perylene	920 J

(1)-Cannot be separated from diphenylamine

ENVIROTECH RESEARCH, INC.

Corporate Environmental Eng. Inc
210 Carnegie Center
Princeton, NJ 08540
Attention: Mr. Frank Jankoski

Report Date: 12/29/89
Job No.: 6052 - General Motors
N.J. Certified Lab No. 12543

HSL METALS

Parameter	Lab No. 30358 Client ID: Sample Point #6 90.3% Solid Units: mg/kg (Dry Weight)	Detection Limit Units: mg/kg	Method Code[1]
Aluminum	11100	40	P
Antimony	18.5	1.0	F
Arsenic	7.1	1.0	F
Barium	539	40	P
Beryllium	ND	1.0	P
Cadmium	4.2	1.0	P
Calcium	13600	1000	P
Chromium	30.8	2.0	P
Cobalt	11.7	10	P
Copper	102	5.0	P
Iron	29600	20	P
Lead	1530	10	P
Magnesium	7700	1000	P
Manganese	416	3.0	P
Mercury	ND	0.1	CV
Nickel	28	8.0	P
Potassium	1100	1000	P
Selenium	ND	1.0	F
Silver	ND	2.0	P
Sodium	ND	1000	P
Thallium	ND	1.0	F
Vanadium	53	10	P
Zinc	320	4.0	P

[1]Method Code: P-ICP, A-Flame AA, F-Furnace AA, CV-Manual Cold Vapor.

Envirotech Research, Inc.
H S L ANALYSIS DATA

JOB NUMBER	6052	MATRIX	Water
SAMPLE NUMBER	30359	DILUTION FACTOR	1.00
CLIENT ID	CEE,FB	QA BATCH	1443
DATA FILE	>30359	DATE ANALYZED	12/04/89

COMPOUND	UG/L	MDL	COMPOUND	UG/L	MDL
CHLOROMETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
BROMOMETHANE	ND	10	TRICHLOROETHENE	ND	5
VINYL CHLORIDE	ND	10	DIBROMOCHLOROMETHANE	ND	5
CHLOROETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
METHYLENE CHLORIDE	ND	5	BENZENE	ND	5
ACETONE	210	10	TRANS-1,3-DICHLOROPROPENE	ND	5
CARBON DISULFIDE	ND	5	BROMOFORM	ND	5
1,1-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	ND	10
1,1-DICHLOROETHANE	ND	5	2-HEXANONE	ND	10
1,2-DICHLOROETHENE (TOTAL)	ND	5	TETRACHLOROETHENE	ND	5
CHLOROFORM	ND	5	TOLUENE	ND	5
1,2-DICHLOROETHANE	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
2-BUTANONE	ND	10	CHLOROBENZENE	ND	5
1,1,1-TRICHLOROETHANE	ND	5	ETHYLBENZENE	ND	5
CARBON TETRACHLORIDE	ND	5	STYRENE	ND	5
VINYL ACETATE	ND	10	M-XYLENE	ND	5
BROMODICHLOROMETHANE	ND	5	O&P-XYLENE	ND	5
1,2-DICHLOROPROPANE	ND	5		ND	8

SURROGATE COMPOUNDS	% RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	105	76 - 114	OK
Toluene-d8	102	88 - 110	OK
Bromofluorobenzene	97.4	86 - 115	OK

(J) Indicates detected below MDL
(B) Indicates also present in blank
(ND) Indicates compound not detected

Laboratory Name ENVIROTECH RESEARCH

Case No 6052

Sample Number 30359

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Date Extracted/Prepared: 11/30/89

Date Analyzed: 12/13/89, 12/18/89

Conc/Dil Factor: 930 mLs → 2 mLs

Percent Moisture (Decanted) ——

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☑Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/L or ug/Kg (Circle One)
108-95-2	Phenol	10U
111-44-4	bis(-2-ChloroethylEther	
95-57-8	2-Chlorophenol	
541-73-1	1 3-Dichlorobenzene	
106-46-7	1. 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	1.6 J
95-50-1	1. 2-Dichlorobenzene	10U
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropylEther	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2. 4-Dimethylphenol	
65-85-0	Benzoic Acid	50U
111-91-1	bis(-2-ChloroethoxyMethane	10U
120-83-2	2. 4-Dichlorophenol	
120-82-1	1. 2. 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2. 4. 6-Trichlorophenol	
95-95-4	2. 4. 5-Trichlorophenol	
91-58-7	2-Chloronaphthalene	
88-74-4	2-Nitroaniline	
131-11-3	Dimethyl Phthalate	
208-96-8	Acenaphthylene	
99-09-2	3-Nitroaniline	

CAS Number		ug/L or ug/Kg (Circle One)
83-32-9	Acenaphthene	10U
51-28-5	2. 4-Dinitrophenol	50U
100-02-7	4-Nitrophenol	20U
132-64-9	Dibenzofuran	10U
121-14-2	2. 4-Dinitrotoluene	
606-20-2	2. 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	
534-52-1	4. 6-Dinitro-2-Methylphenol	50U
86-30-6	N-Nitrosodiphenylamine (1)	10U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	
85-01-8	Phenanthrene	
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	
91-94-1	3. 3'-Dichlorobenzidine	
56-55-3	BenzoaAnthracene	
117-81-7	bis(2-EthylhexylPhthalate	
218-01-9	Chrysene	
117-84-0	Di-n-Octyl Phthalate	
205-99-2	BenzobFluoranthene	
207-08-9	BenzokFluoranthene	
50-32-8	BenzoaPyrene	
193-39-5	Indeno 1. 2. 3-cdPyrene	
53-70-3	Dibenzo. hAnthracene	
191-24-2	Benzog h iPerylene	

(1)-Cannot be separated from diphenylamine

ENVIROTECH RESEARCH, INC.

Corporate Environmental Eng. Inc
210 Carnegie Center
Princeton, NJ 08540
Attention: Mr. Frank Jankoski

Report Date: 12/29/89
Job No.: 6052 - General Motors
N.J. Certified Lab No. 12543

HSL METALS

Parameter	Lab No. 30359 Client ID: Field Blank Units: ug/l	Detection Limit Units: ug/l	Method Code[1]
Aluminum	ND	200	P
Antimony	ND	5.0	F
Arsenic	ND	5.0	F
Barium	ND	200	P
Beryllium	ND	5.0	P
Cadmium	ND	5.0	P
Calcium	6900	5000	P
Chromium	ND	10	P
Cobalt	ND	50	P
Copper	ND	25	P
Iron	310	100	P
Lead	13	5.0	F
Magnesium	ND	5000	P
Manganese	ND	15	P
Mercury	ND	0.2	CV
Nickel	ND	40	P
Potassium	ND	5000	P
Selenium	6.1	5.0	F
Silver	ND	10	P
Sodium	6900	5000	P
Thallium	ND	5.0	F
Vanadium	ND	50	P
Zinc	85	20	P

[1]Method Code: P-ICP, A-Flame AA, F-Furnace AA, CV-Manual Cold Vapor.

Envirotech Research, Inc.
H S L ANALYSIS DATA

JOB NUMBER	6052	MATRIX	Water
SAMPLE NUMBER	30360	DILUTION FACTOR	1.00
CLIENT ID	CEE,TB	QA BATCH	1443
DATA FILE	>30360	DATE ANALYZED	12/04/89

COMPOUND	UG/L	MDL	COMPOUND	UG/L	MDL
CHLOROMETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
BROMOMETHANE	ND	10	TRICHLOROETHENE	ND	5
VINYL CHLORIDE	ND	10	DIBROMOCHLOROMETHANE	ND	5
CHLOROETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
METHYLENE CHLORIDE	ND	5	BENZENE	ND	5
ACETONE	ND	10	TRANS-1,3-DICHLOROPROPENE	ND	5
CARBON DISULFIDE	ND	5	BROMOFORM	ND	5
1,1-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	ND	10
1,1-DICHLOROETHANE	ND	5	2-HEXANONE	ND	10
1,2-DICHLOROETHENE (TOTAL)	ND	5	TETRACHLOROETHENE	ND	5
CHLOROFORM	ND	5	TOLUENE	ND	5
1,2-DICHLOROETHANE	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
2-BUTANONE	ND	10	CHLOROBENZENE	ND	5
1,1,1-TRICHLOROETHANE	ND	5	ETHYLBENZENE	ND	5
CARBON TETRACHLORIDE	ND	5	STYRENE	ND	5
VINYL ACETATE	ND	10	M-XYLENE	ND	5
BROMODICHLOROMETHANE	ND	5	O&P-XYLENE	ND	5
1,2-DICHLOROPROPANE	ND	5			

SURROGATE COMPOUNDS	% RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	99.2	76 - 114	OK
Toluene-d8	103	88 - 110	OK
Bromofluorobenzene	109	86 - 115	OK

(J) Indicates detected below MDL
(B) Indicates also present in blank
(ND) Indicates compound not detected

ENVIROTECH RESEARCH, INC.

777 New Durham Road
Edison, New Jersey 08817
Tel: (201) 549-3900
Fax: (201) 549-3679

December 28, 1989

Corporate Environmental Eng. Inc
210 Carnegie Center
Princeton, NJ 08540

Attention: Mr. Frank Jankoski

Re: Job No. 6057 - General Motors

Dear Mr. Jankoski:

Enclosed are the results you requested for the following samples taken 11/29/89 at General Motors:

Lab No.	Client ID	Analysis Requested
30386	Sample #1	TCL VOA +10
30387	Sample #2	TCL VOA +10
30388	Sample #3	TCL Semivolatiles +20
30389	Sample #4	TCL VOA +10
30390	Sample #5	TCL Semivolatiles +20
30391	Trip Blank	TCL VOA +10

An invoice for our services is also enclosed. Please call me at 549-3900 if you have any questions.

Very truly yours,

Michael J. Urban
Laboratory Manager

Envirotech Research, Inc.
H S L ANALYSIS DATA

JOB NUMBER	6057	MATRIX	Water
SAMPLE NUMBER	30386	DILUTION FACTOR	25.00
CLIENT ID	CEE.SPL.#1	QA BATCH	1443
DATA FILE	>00386	DATE ANALYZED	12/05/89

COMPOUND	UG/L	MDL	COMPOUND	UG/L	MDL
CHLOROMETHANE	ND	250	CIS-1,3-DICHLOROPROPENE	ND	120
BROMOMETHANE	ND	250	TRICHLOROETHENE	ND	120
VINYL CHLORIDE	ND	250	DIBROMOCHLOROMETHANE	ND	120
CHLOROETHANE	ND	250	1,1,2-TRICHLOROETHANE	ND	120
METHYLENE CHLORIDE	ND	120	BENZENE	ND	120
ACETONE	6900	250	TRANS-1,3-DICHLOROPROPENE	ND	120
CARBON DISULFIDE	ND	120	BROMOFORM	ND	120
1,1-DICHLOROETHENE	ND	120	4-METHYL-2-PENTANONE	5100	250
1,1-DICHLOROETHANE	ND	120	2-HEXANONE	ND	250
1,2-DICHLOROETHENE (TOTAL)	ND	120	TETRACHLOROETHENE	ND	120
CHLOROFORM	ND	120	TOLUENE	64 J	120
1,2-DICHLOROETHANE	ND	120	1,1,2,2-TETRACHLOROETHANE	ND	120
2-BUTANONE	ND	250	CHLOROBENZENE	ND	120
1,1,1-TRICHLOROETHANE	ND	120	ETHYLBENZENE	380	120
CARBON TETRACHLORIDE	ND	120	STYRENE	ND	120
VINYL ACETATE	ND	250	M-XYLENE	970	120
BROMODICHLOROMETHANE	ND	120	O&P-XYLENE	930	120
1,2-DICHLOROPROPANE	ND	120			

Total Xylenes 1900

SURROGATE COMPOUNDS	% RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	105	76 - 114	OK
Toluene-d8	101	88 - 110	OK
Bromofluorobenzene	105	86 - 115	OK

(J) Indicates detected below MDL
(B) Indicates also present in blank
(ND) Indicates compound not detected

Envirotech Research, Inc.
H S L ANALYSIS DATA

JOB NUMBER	6057	MATRIX	Water
SAMPLE NUMBER	30387	DILUTION FACTOR	25.00
CLIENT ID	CEE.SPL.#2	QA BATCH	1443
DATA FILE	>D0387	DATE ANALYZED	12/04/89

COMPOUND	UG/L	MDL	COMPOUND	UG/L	MDL
CHLOROMETHANE	ND	250	CIS-1,3-DICHLOROPROPENE	ND	120
BROMOMETHANE	ND	250	TRICHLOROETHENE	ND	120
VINYL CHLORIDE	ND	250	DIBROMOCHLOROMETHANE	ND	120
CHLOROETHANE	ND	250	1,1,2-TRICHLOROETHANE	ND	120
METHYLENE CHLORIDE	ND	120	BENZENE	ND	120
ACETONE	4500	250	TRANS-1,3-DICHLOROPROPENE	ND	120
CARBON DISULFIDE	ND	120	BROMOFORM	ND	120
1,1-DICHLOROETHENE	ND	120	4-METHYL-2-PENTANONE	5200	250
1,1-DICHLOROETHANE	ND	120	2-HEXANONE	ND	250
1,2-DICHLOROETHENE (TOTAL)	ND	120	TETRACHLOROETHENE	ND	120
CHLOROFORM	ND	120	TOLUENE	80 J	120
1,2-DICHLOROETHANE	ND	120	1,1,2,2-TETRACHLOROETHANE	ND	120
2-BUTANONE	ND	250	CHLOROBENZENE	ND	120
1,1,1-TRICHLOROETHANE	ND	120	ETHYLBENZENE	400	120
CARBON TETRACHLORIDE	ND	120	STYRENE	ND	120
VINYL ACETATE	ND	250	M-XYLENE	1100	120
BROMODICHLOROMETHANE	ND	120	O&P-XYLENE	1000	120
1,2-DICHLOROPROPANE	ND	120			
			Total Xylenes	2100	

SURROGATE COMPOUNDS	% RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	103	76 - 114	OK
Toluene-d8	101	88 - 110	OK
Bromofluorobenzene	95.5	86 - 115	OK

(J) Indicates detected below MDL
(B) Indicates also present in blank
(ND) Indicates compound not detected

Laboratory Name ENVIROTECH RESEARCH

Case No 6057

Sample Number 30388

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Date Extracted/Prepared: 11/30/89

Date Analyzed: 12/5/89, 12/13/89

Conc/Dil Factor: 850 → 2mL F.V.

Percent Moisture (Decanted) ——

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☑Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/L or ug/Kg (Circle One)
108-95-2	Phenol	14
111-44-4	bis(-2-Chloroethyl)Ether	10U
95-57-8	2-Chlorophenol	"
541-73-1	1, 3-Dichlorobenzene	"
106-46-7	1, 4-Dichlorobenzene	"
100-51-6	Benzyl Alcohol	20
95-50-1	1, 2-Dichlorobenzene	10U
95-48-7	2-Methylphenol	1.2 J
39638-32-9	bis(2-chloroisopropyl)Ether	10U
106-44-5	4-Methylphenol	4.8 J
621-64-7	N-Nitroso-Di-n-Propylamine	10U
67-72-1	Hexachloroethane	"
98-95-3	Nitrobenzene	"
78-59-1	Isophorone	"
88-75-5	2-Nitrophenol	"
105-67-9	2, 4-Dimethylphenol	11
65-85-0	Benzoic Acid	420
111-91-1	bis(-2-Chloroethoxy)Methane	10U
120-83-2	2, 4-Dichlorophenol	"
120-82-1	1, 2, 4-Trichlorobenzene	"
91-20-3	Naphthalene	"
106-47-8	4-Chloroaniline	"
87-68-3	Hexachlorobutadiene	"
59-50-7	4-Chloro-3-Methylphenol	"
91-57-6	2-Methylnaphthalene	1.1 J
77-47-4	Hexachlorocyclopentadiene	10U
88-06-2	2, 4, 6-Trichlorophenol	"
95-95-4	2, 4, 5-Trichlorophenol	"
91-58-7	2-Chloronaphthalene	"
88-74-4	2-Nitroaniline	"
131-11-3	Dimethyl Phthalate	"
208-96-8	Acenaphthylene	"
99-09-2	3-Nitroaniline	50U

CAS Number		ug/L or ug/Kg (Circle One)
83-32-9	Acenaphthene	10U
51-28-5	2, 4-Dinitrophenol	50U
100-02-7	4-Nitrophenol	20U
132-64-9	Dibenzofuran	10U
121-14-2	2, 4-Dinitrotoluene	"
606-20-2	2, 6-Dinitrotoluene	"
84-66-2	Diethylphthalate	"
7005-72-3	4-Chlorophenyl-phenylether	"
86-73-7	Fluorene	"
100-01-6	4-Nitroaniline	20U
534-52-1	4, 6-Dinitro-2-Methylphenol	20U
86-30-6	N-Nitrosodiphenylamine (1)	1.6 J
101-55-3	4-Bromophenyl-phenylether	10U
118-74-1	Hexachlorobenzene	"
87-86-5	Pentachlorophenol	"
85-01-8	Phenanthrene	"
120-12-7	Anthracene	"
84-74-2	Di-n-Butylphthalate	"
206-44-0	Fluoranthene	"
129-00-0	Pyrene	"
85-68-7	Butylbenzylphthalate	"
91-94-1	3, 3'-Dichlorobenzidine	"
56-55-3	Benzo(a)Anthracene	"
117-81-7	bis(2-Ethylhexyl)Phthalate	"
218-01-9	Chrysene	"
117-84-0	Di-n-Octyl Phthalate	"
205-99-2	Benzo(b)Fluoranthene	"
207-08-9	Benzo(k)Fluoranthene	"
50-32-8	Benzo(a)Pyrene	"
193-39-5	Indeno(1, 2, 3-cd)Pyrene	"
53-70-3	Dibenz(a, h)Anthracene	"
191-24-2	Benzo(g, h, i)Perylene	"

(1)-Cannot be separated from diphenylamine

Envirotech Research, Inc.
H S L ANALYSIS DATA

JOB NUMBER	6057	MATRIX	Water
SAMPLE NUMBER	30389	DILUTION FACTOR	1.00
CLIENT ID	CEE,SPL.#4	QA BATCH	1443
DATA FILE	>30389	DATE ANALYZED	12/04/89

COMPOUND	UG/L	MDL	COMPOUND	UG/L	MDL
CHLOROMETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
BROMOMETHANE	ND	10	TRICHLOROETHENE	ND	5
VINYL CHLORIDE	ND	10	DIBROMOCHLOROMETHANE	ND	5
CHLOROETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
METHYLENE CHLORIDE	ND	5	BENZENE	ND	5
* ACETONE	2200 ~~1400~~	10	TRANS-1,3-DICHLOROPROPENE	ND	5
CARBON DISULFIDE	ND	5	BROMOFORM	ND	5
1,1-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	360	10
1,1-DICHLOROETHANE	ND	5	2-HEXANONE	ND	10
1,2-DICHLOROETHENE (TOTAL)	ND	5	TETRACHLOROETHENE	ND	5
CHLOROFORM	3.2 J	5	TOLUENE	3.3 J	5
1,2-DICHLOROETHANE	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
2-BUTANONE	38	10	CHLOROBENZENE	ND	5
1,1,1-TRICHLOROETHANE	ND	5	ETHYLBENZENE	19	5
CARBON TETRACHLORIDE	ND	5	STYRENE	ND	5
VINYL ACETATE	ND	10	M-XYLENE	210	5
BROMODICHLOROMETHANE	ND	5	O&P-XYLENE	200	5
1,2-DICHLOROPROPANE	ND	5			
			Total Xylenes	410	5

SURROGATE COMPOUNDS	% RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	99.1	76 - 114	OK
Toluene-d8	105	88 - 110	OK
Bromofluorobenzene	111	86 - 115	OK

(J) Indicates detected below MDL
(B) Indicates also present in blank
(ND) Indicates compound not detected

* from 1:10 dilution

Laboratory Name ENVIROTECH RESEARCH

Case No 6057

Sample Number
30390

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Date Extracted/Prepared: 11/30/89

Date Analyzed: 12/13/89

Conc/Dil Factor: 860 – 2mL F.V.4 (10x dil)

Percent Moisture (Decanted) ——

GPC Cleanup ☐Yes ☑No

Separatory Funnel Extraction ☑Yes

Continuous Liquid - Liquid Extraction ☐Yes

CAS Number		ug/l or ug/Kg (Circle One)
108-95-2	Phenol	18 J
111-44-4	bis(-2-Chloroethyl)Ether	100u
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	340
95-50-1	1, 2-Dichlorobenzene	100u
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
7-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	2400
111-91-1	bis(-2-Chloroethoxy)Methane	100u
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	
91-58-7	2-Chloronaphthalene	
88-74-4	2-Nitroaniline	
131-11-3	Dimethyl Phthalate	
208-96-8	Acenaphthylene	
99-09-2	3-Nitroaniline	

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	100u
51-28-5	2, 4-Dinitrophenol	500u
100-02-7	4-Nitrophenol	200u
132-64-9	Dibenzofuran	100u
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	
534-52-1	4, 6-Dinitro-2-Methylphenol	500u
86-30-6	N-Nitrosodiphenylamine (1)	100u
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	
85-01-8	Phenanthrene	
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	62 J
91-94-1	3, 3'-Dichlorobenzidine	100u
56-55-3	Benzo(a)Anthracene	
117-81-7	bis(2-Ethylhexyl)Phthalate	
218-01-9	Chrysene	
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

Envirotech Research, Inc.
H S L ANALYSIS DATA

JOB NUMBER	6057	MATRIX	Water
SAMPLE NUMBER	30391	DILUTION FACTOR	1.00
CLIENT ID	CEE,TB	QA BATCH	1443
DATA FILE	>30391	DATE ANALYZED	12/04/89

COMPOUND	UG/L	MDL	COMPOUND	UG/L	MDL
CHLOROMETHANE	ND	10	CIS-1,3-DICHLOROPROPENE	ND	5
BROMOMETHANE	ND	10	TRICHLOROETHENE	ND	5
VINYL CHLORIDE	ND	10	DIBROMOCHLOROMETHANE	ND	5
CHLOROETHANE	ND	10	1,1,2-TRICHLOROETHANE	ND	5
METHYLENE CHLORIDE	ND	5	BENZENE	ND	5
ACETONE	ND	10	TRANS-1,3-DICHLOROPROPENE	ND	5
CARBON DISULFIDE	ND	5	BROMOFORM	ND	5
1,1-DICHLOROETHENE	ND	5	4-METHYL-2-PENTANONE	ND	10
1,1-DICHLOROETHANE	ND	5	2-HEXANONE	ND	10
1,2-DICHLOROETHENE (TOTAL)	ND	5	TETRACHLOROETHENE	ND	5
CHLOROFORM	ND	5	TOLUENE	ND	5
1,2-DICHLOROETHANE	ND	5	1,1,2,2-TETRACHLOROETHANE	ND	5
2-BUTANONE	ND	10	CHLOROBENZENE	ND	5
1,1,1-TRICHLOROETHANE	ND	5	ETHYLBENZENE	ND	5
CARBON TETRACHLORIDE	ND	5	STYRENE	ND	5
VINYL ACETATE	ND	10	M-XYLENE	ND	5
BROMODICHLOROMETHANE	ND	5	O&P-XYLENE	ND	5
1,2-DICHLOROPROPANE	ND	5			

SURROGATE COMPOUNDS	% RECOVERY	LIMITS	STATUS
1,2-Dichloroethane-d4	102	76 - 114	OK
Toluene-d8	103	88 - 110	OK
Bromofluorobenzene	111	86 - 115	OK

(J) Indicates detected below MDL
(B) Indicates also present in blank
(ND) Indicates compound not detected

1/1

CORPORATE ENVIRONMENTAL ENGINEERING INC
NAME OF CLIENT (FOR REPORT AND BILLING)
210 CARNEGIE CENTER
ADDRESS
PRINCETON NJ 08540
CITY STATE ZIP
FRANK S JANKOSKI
ATTENTION
201-369-6183
PHONE

CHAIN-OF-CUSTODY RECORD

ENVIROTECH JOB NO. 6052 (6057)
GENERAL MOTORS LINDEN
PROJECT NAME RCRA CLOSURE

ENVIROTECH RESEARCH, INC.
777 NEW DURHAM ROAD
EDISON, N.J. 08817
(201) 549-3900

DATE SMPLD.	TIME SMPLD.	SMPLD. BY	MATRIX	PRES.	NO. OF CONT.	SAMPLE LOCATION/DESCRIPTION	ANALYSIS REQUESTED	ENVIROTECH SAMPLE NUMBER
11/29/89	1:35pm	FJ/SW	AQU.	NONE	2	TANK RINSATE 2 X 40ml / SAMPLE No 1 = CONTAINERS No: 1&2	TCL VOLATILES +10	30386
11/29/89	1:35pm	FJ/SW	AQU.	NONE	2	TANK RINSATE 2 X 40ml / SAMPLE No 2 CONTAINER No. 3&4	TCL VOLATILES +10	30387
11/29/89	1:35	FJ/SW	AQU	NONE	3	TANK RINSATE 3 X 1 LITER / SAMPLE No 3 CONTAINER # 5,6,7	TCL SEMI VOLATILES +20	30388
11/29/89	1:53	FJ/SW	AQU	NONE	4	FLOOR RINSATE 4 X 40ml / SAMPLE # 4 CONTAINER # 5,9,10,11	TCL VOLATILES +10	30389
11/29/89	1:53	FJ/SW	AQU	NONE	1	FLOOR RINSATE 1 LITER / SAMPLE # 5 CONTAINER #12	TCL SEMI VOLATILES +20	30390
11/29/89	NA	NA	AQU	NONE	2	TRIP BLANK	TCL VOLATILES +10	30391

TOTAL NO. OF CONTAINERS: 14

SPECIAL INSTRUCTIONS: Analysis As Per Requirements of NJDEP For RCRA Closure / FILTER FOR ALL PARAMETERS.

1. RELINQUISHED BY:	DATE/TIME	1. RECEIVED BY:	3. RELINQUISHED BY:	DATE/TIME	3. RECEIVED BY:
F Jankoski	11/29/89 2:45pm			-	
2. RELINQUISHED BY:	DATE/TIME	2. RECEIVED BY:	4. RELINQUISHED BY:	DATE/TIME	4. RECEIVED BY:
	-			-	

Total 30 Containers

1/2

CORPORATE ENVIRONMENTAL ENGINEERING INC
NAME OF CLIENT (FOR REPORT AND BILLING)
210 CARNEGIE CENTER
ADDRESS
PRINCETON NJ 08540
CITY STATE ZIP
FRANK JANKOSKI
ATTENTION
201-369-6183
PHONE

CHAIN-OF-CUSTODY RECORD

ENVIROTECH JOB NO. 6052
General Motors - Linden NJ
PROJECT NAME RCRA CLOSURE

ENVIROTECH RESEARCH, INC.
777 NEW DURHAM ROAD
EDISON, N.J. 08817
(201) 549-3900

DATE SMPLD.	TIME SMPLD.	SMPLD. BY	MATRIX	PRES.	NO. OF CONT.	SAMPLE LOCATION/DESCRIPTION	ANALYSIS REQUESTED	ENVIROTECH SAMPLE NUMBER
11/28/89	10:10a	FJ/SK	Soil		2	Sample Point #1 Containers 1 & 2	TCL Vol's +10	
	10:17		Soil		2	Sample Point #1 Container 3 & 4	TCL Sem Vol's +20 TCL Metals	
	1:20p		Soil		2	Sample Point #2 Containers 5 & 6	TCL Vol's +10	
	1:20p		Soil		2	Sample Point #2 Container 7 & 8	TCL Semi Vols +20 TCL Metals	
	1:40pm		Soil		2	Sample Point #3 Containers 9 & 10	TCL Vols +10	
	1:40p		Soil		2	Sample Point #3 Container 11 & 12	TCL Sem Vols +20, TCL Metals	
	2:20pm		Soil		2	Sample Point #4 Container 13 & 14	TCL Vols +10	
	2:20p		Soil		2	Sample Point #4 Container 15 & 16	TCL Sem Vols +20, TCL Metals	
	2:00p		Soil		2	Sample Point #5 Container 17 & 18	TCL Vols +10	
	2:00p		Soil		2	Sample Point #5 Container 19 & 20	TCL Sem Vols +20, TCL Metals	

TOTAL NO. OF CONTAINERS: 20

SPECIAL INSTRUCTIONS: ANALYSIS MUST MEET NJDEP RCRA CLOSURE REQUIREMENTS

1. RELINQUISHED BY:	DATE/TIME	1. RECEIVED BY:	3. RELINQUISHED BY:	DATE/TIME	3. RECEIVED BY:
Frank S Jankoski	11/28/89 - 4:50pm	[signature]		-	
2. RELINQUISHED BY:	DATE/TIME	2. RECEIVED BY:	4. RELINQUISHED BY:	DATE/TIME	4. RECEIVED BY:
	-			-	

1/2

CORPORATE ENVIRONMENTAL ENGINEERING INC
NAME OF CLIENT (FOR REPORT AND BILLING)
210 CARNEGIE CENTER
ADDRESS
PRINCETON NJ 08540
CITY STATE ZIP
FRANK S JANKOSKI
ATTENTION
201-369-6183
PHONE

CHAIN-OF-CUSTODY RECORD

ENVIROTECH JOB NO. 6052
GENERAL MOTORS - LINDEN RCRA CLOSURE
PROJECT NAME

ENVIROTECH RESEARCH, INC.
777 NEW DURHAM ROAD
EDISON, N.J. 08817
(201) 549-3900

DATE SMPLD.	TIME SMPLD.	SMPLD. BY	MATRIX	PRES.	NO. OF CONT.	SAMPLE LOCATION/DESCRIPTION	ANALYSIS REQUESTED	ENVIROTECH SAMPLE NUMBER
11/25/89	12:45p	FJ/SK	Soil		2	Sample Point #6 Container 21022	TCL Vols +10	
11/28/89	12:45p	"	Soil		2	Sample Point #6 Container 21024	TCL Semi Vols +20, TCL Metals	
11/28/89	1:00p	"	Aque.		2	Field Blank Containers 25026	TCL Vols +10	
11/28/89	1:00p	"	Aqu.		1	Field Blank Container 27	TCL Semi Vols +20	
11/28/89	1:00p	"	Aqu		1	Field Blank Container 28	TCL Metals	
		ENVIRO TECH	Aqu		2	TRIP BLANK	TCL Vols +10	

TOTAL NO. OF CONTAINERS: 10

SPECIAL INSTRUCTIONS: ANALYSIS MUST MEET NJDEP RCRA STORAGE PERMIT CLOSURE REQUIREMENTS

1. RELINQUISHED BY:	DATE/TIME	1. RECEIVED BY:	3. RELINQUISHED BY:	DATE/TIME	3. RECEIVED BY:
Frank S Jankoski	11/28/89 - 4:50p			-	
2. RELINQUISHED BY:	DATE/TIME	2. RECEIVED BY:	4. RELINQUISHED BY:	DATE/TIME	4. RECEIVED BY:
	-			-	

APPENDIX D

Library Search Compound Results

ENVIROTECH RESEARCH, INC.

777 New Durham Road
Edison, New Jersey 08817
Tel: (201) 549-3900
Fax: (201) 549-3679

December 29, 1989

Corporate Environmental Eng. Inc
210 Carnegie Center
Princeton, NJ 08540

Attention: Mr. Frank Jankoski

Re: Job No. 6052 - General Motors

Dear Mr. Jankoski:

Enclosed are the results you requested for the following samples taken 11/28/89 at General Motors:

Lab No.	Client ID	Analysis Requested
30353	Sample Point #1	TCL VOA +10, TCL Semivolatiles +20 and TCL Metals
30354	Sample Point #2	TCL VOA +10, TCL Semivolatiles +20 and TCL Metals
30355	Sample Point #3	TCL VOA +10, TCL Semivolatiles +20 and TCL Metals
30356	Sample Point #4	TCL VOA +10, TCL Semivolatiles +20 and TCL Metals
30357	Sample Point #5	TCL VOA +10, TCL Semivolatiles +20 and TCL Metals
30358	Sample Point #6	TCL VOA +10, TCL Semivolatiles +20 and TCL Metals

ENVIROTECH RESEARCH, INC.

Lab No.	Client ID	Analysis Requested
30359	Field Blank	TCL VOA +10, TCL Semivolatiles +20 and TCL Metals
30360	Trip Blank	TCL VOA +10

An invoice for our services is also enclosed. Please call me at 549-3900 if you have any questions.

Very truly yours,

Michael J. Urban
Laboratory Manager

Laboratory Name: ENVIROTECH RESEARCH

Case No: Job 6052

Sample Number: 30353

Organics Analysis Data Sheet

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	C_9H_{16} Hydrocarbon	VOC	26.13	28
2.	—	" "	VOC	26.32	17
3.	—	Ethylmethylcyclohexane isomer	VOC	27.47	12
4.	—	" "	VOC	30.10	36
5.	—	$C_{10}H_{20}$ Hydrocarbon	VOC	31.89	55
6.	135988	Benzene, (1-methylpropyl)-	VOC	33.63	12
7.	91178	Decahydronaphthalene	VOC	36.04	29
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Laboratory Name: ENVIROTECH RESEARCH

Case No: 6052

Sample Number: 30353

Organics Analysis Data Sheet

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		$C_{10}H_{22}$ ALKANE	BNA	10.85	4,000
2.		$C_{10}H_{20}$ UNSATURATED HYDROCARBON		11.37	5,200
3.	17302282	2,6-DIMETHYL-NONANE		13.09	9,900
4.		METHYLPROPYL-CYCLOHEXANE ISOMER		13.30	4,400
5.		$C_{11}H_{24}$ ALKANE		13.46	4,400
6.		$C_{11}H_{22}$ UNSATURATED HYDROCARBON		14.04	4,400
7.	90120	1-METHYL-NAPHTHALENE		19.18	3,200
8.		DIMETHYL-NAPHTHALENE ISOMER		20.88	3,600
9.		" " "		21.14	4,400
10.		$C_{15}H_{12}$ PAH		28.46	3,600
11.		" "		28.54	3,600
12.		UNKNOWN		28.81	5,200
13.		$C_{15}H_{12}$ PAH		28.87	3,800
14.		UNKNOWN		29.27	3,200
15.		"		29.64	4,000
16.		DIMETHYL-PHENANTHRENE ISOMER		30.04	3,200
17.		" " "		30.28	3,600
18.		UNKNOWN		30.35	4,400
19.		"		31.04	12,000
20.		$C_{17}H_{12}$ PAH	↓	32.48	12,000
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Laboratory Name: ENVIROTECH RESEARCH

Case No: JOB 6052

Sample Number: 30353 A

Organics Analysis Data Sheet

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	C_9H_{18} Hydrocarbon	VOC	26.07	23
2.	—	C_9H_{18} Hydrocarbon	VOC	26.29	26
3.	—	Ethylmethylcyclohexane isomer	VOC	27.40	13
4.	—	"	VOC	30.08	40
5.	—	$C_{10}H_{22}$ Hydrocarbon	VOC	31.90	45
6.	B5988	Benzene, (1-methylpropyl)-	VOC	33.54	36
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Laboratory Name: ENVIROTECH RESEARCH

Case No: 6052

Sample Number: 30353 A

Organics Analysis Data Sheet

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		$C_{10}H_{20}$ UNSATURATED HYDROCARBON	BNA	11.37	5,200
2.	17302182	2,6-DIMETHYL- NONANE		13.09	10,000
3.		UNKNOWN ALKANE		13.46	4,000
4.		TETRAMETHYL- BENZENE ISOMER		15.22	3,200
5.	90120	1-METHYL- NAPHTHALENE		19.19	4,000
6.		DIMETHYL- NAPHTHALENE ISOMER		20.87	4,800
7.		" " "		21.14	6,000
8.		" " "		21.49	3,600
9.		$C_{15}H_{12}$ PAH		28.46	4,800
10.		" "		28.55	4,800
11.		UNKNOWN		28.81	6,400
12.		$C_{15}H_{12}$ PAH		28.88	3,200
13.	612942	2-PHENYL- NAPHTHALENE		29.44	2,800
14.		DIMETHYL- PHENANTHRENE ISOMER		30.04	2,800
15.		" " "		30.29	4,800
16.		UNKNOWN		30.36	4,400
17.		DIMETHYL- PHENANTHRENE ISOMER		30.46	3,200
18.		UNKNOWN		31.05	14,000
19.		"		31.78	6,400
20.		$C_{17}H_{12}$ PAH	↓	32.49	8,400
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Laboratory Name: ENVIROTECH RESEARCH

Case No: JOB 6052

Sample Number: 30354

Organics Analysis Data Sheet

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	C_9H_{16} Hydrocarbon	VOC	26.18	18
2.	—	C_9H_{18} Hydrocarbon	VOC	30.08	28
3.	—	$C_{10}H_{20}$ Hydrocarbon	VOC	31.86	57
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Laboratory Name: ENVIROTECH RESEARCH

Case No: 6052

Sample Number: 30354

Organics Analysis Data Sheet

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. 17302282	2,6-DIMETHYL-NONANE	BNA	13.08	5,900
2. 1120214	UNDECANE		14.83	2,500
3.	UNKNOWN ALKANE / COELUTING C4 SUBSTITUTED BENZENE		15.21	2,100
4.	C15H10 PAH		28.79	5,500
5.	UNKNOWN		29.64	2,100
6.	DIMETHYL-PHENANTHRENE ISOMER / COELUTING UNKNOWN(S)		30.03	3,000
7.	COELUTING UNKNOWNS		30.34	3,000
8.	UNKNOWN PAH		30.45	3,000
9.	UNKNOWN		31.06	24,000
10. 243425	BENZO[b]NAPHTHO[2,3-d]FURAN		31.78	5,100
11.	C17H12 PAH		32.14	5,100
12.	" "		32.48	16,000
13.	" "		32.69	5,500
14.	" "		32.79	4,200
15.	UNKNOWN ALKANE		33.04	5,100
16.	C18H10 PAH		34.54	5,500
17.	C18H12 PAH		35.54	4,200
18.	C19H14 PAH		36.48	4,600
19.	UNKNOWN		36.75	4,200
20.	C20H12 PAH		39.20	16,000
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Laboratory Name: ENVIROTECH RESEARCH

Case No: JOB 6052

Sample Number: 30355

Organics Analysis Data Sheet

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	C_9H_{16} Hydrocarbon	VOC	24.09	7.8
2.	3073663	Cyclohexane, 1,1,2-trimethyl-	VOC	26.06	28
3.	—	C_9H_{16} Hydrocarbon	VOC	26.29	6.8
4.	—	C_9H_{14} Hydrocarbon	VOC	27.40	12
5.	—	" "	VOC	30.06	17
6.	—	$C_{10}H_{20}$ Hydrocarbon	VOC	31.94	15
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Laboratory Name: ENVIROTECH RESEARCH

Case No: 6052

Sample Number: 30355

Organics Analysis Data Sheet

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		$C_{15}H_{10}$ PAH	BNA	28.77	9,800
2.		$C_{15}H_{32}$ ALKANE		29.48	3,900
3.		DIMETHYL- ATHENANTHRENE ISOMER		30.26	3,100
4.		UNKNOWN		31.03	8,300
5.		$C_{17}H_{12}$ PAH		32.13	3,900
6.		" "		32.46	9,800
7.		" "		32.66	5,900
8.		" "		32.77	3,900
9.		UNKNOWN ALKANE		33.02	5,900
10.		" "		34.12	4,300
11.		COELUTING $C_{18}H_{10}$/$C_{18}H_{12}$ PAH'S		34.52	5,900
12.		$C_{18}H_{12}$ PAH		35.52	7,100
13.		$C_{19}H_{14}$ PAH		36.46	5,900
14.		UNKNOWN		36.74	6,300
15.		"		36.89	6,300
16.		$C_{20}H_{14}$ PAH / COELUTING ALKANE		37.12	5,900
17.		$C_{20}H_{12}$ PAH		38.70	8,700
18.		UNKNOWN ALKANE		39.05	7,500
19.		$C_{20}H_{12}$ PAH		39.23	13,000
20.		$C_{21}H_{14}$ PAH / COELUTING ALKANE	↓	40.13	5,900
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Laboratory Name: ENVIROTECH RESEARCH

Case No: JOB 6052

Sample Number
30356

Organics Analysis Data Sheet

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	$C_{10}H_{16}$ Hydrocarbon	VOC	25.73	14.
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Laboratory Name: ENVIROTECH RESEARCH

Case No: 6052

Sample Number: 30356

Organics Analysis Data Sheet

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/KG)
1.		UNKNOWN	BNA	28.76	2,200
2.		UNKNOWN ALKANE		29.47	2,200
3.		DIMETHYL-PHENANTHRENE ISOMER		30.25	2,200
4.		UNKNOWN		31.00	1,600
5.	3674735	2,3,5-TRIMETHYL-PHENANTHRENE		31.71	2,500
6.		UNKNOWN ALKANE		32.32	1,800
7.		$C_{17}H_{12}$ PAH		32.45	2,500
8.		" "		33.03	3,300
9.		UNKNOWN		33.42	1,800
10.		METHYL BENZO[b]NAPHTHO[2,3-d]THIOPHENE / UNKNOWN ALKANE + PHTHALATE ESTER		35.73	3,300
11.		UNKNOWN ALKANE / COELUTING UNKNOWN		36.45	3,300
12.		" "		37.14	2,500
13.		" "		38.07	7,300
14.		$C_{20}H_{12}$ PAH / COELUTING UNKNOWN		38.71	5,800
15.		UNKNOWN ALKANE / COELUTING UNKNOWN		39.07	6,900
16.		UNKNOWN		39.99	5,500
17.		"		40.81	6,900
18.		"		41.68	12,000
19.		"		42.89	11,000
20.		"	↓	44.47	10,000
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Laboratory Name: ENVIROTECH RESEARCH

Case No: JOB 6057

Sample Number: 30357

Organics Analysis Data Sheet

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	$C_{10}H_{16}$ Hydrocarbon	VOC	25.69	12
2.	3073663	Cyclohexane, 1,1,3-trimethyl-	VOC	26.06	23
3.	—	C_9H_{18} Hydrocarbon	VOC	26.32	116
4.	—	Ethylmethylcyclohexane isomer	VOC	27.43	14
5.	—	"	VOC	30.07	32
6.	—	$C_{10}H_{20}$ Hydrocarbon	VOC	31.93	27
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Laboratory Name: ENVIROTECH RESEARCH

Case No: 6052

Sample Number: 30357

Organics Analysis Data Sheet

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	90120	1-METHYL-NAPHTHALENE	BNA	19.15	5,500
2.		C14H30 ALKANE		20.61	6,300
3.		C17H36 ALKANE		25.39	4,700
4.		UNKNOWN ALKANE		25.48	5,500
5.		C19H40 ALKANE		25.18	5,500
6.		C15H12 PAH		28.51	5,100
7.		C15H10 PAH		28.77	14,000
8.		UNKNOWN ALKANE		29.49	6,300
9.		DIMETHYL-PHENANTHRENE ISOMER		30.26	4,700
10.		C17H12 PAH		32.13	6,600
11.		" "		32.47	14,000
12.		" "		32.68	7,800
13.		UNKNOWN ALKANE		33.03	6,600
14.	205436	BENZO[b]NAPHTHO[1,2-d]THIOPHENE		34.39	5,900
15.		OVERLYING C18H10/C18H12 PAH'S		34.52	7,500
16.		METHYL-BENZ[a]ANTHRACENE ISOMER		36.48	7,500
17.		UNKNOWN		36.75	7,800
18.		"		36.89	7,000
19.		C20H12 PAH		38.71	11,000
20.		" "		39.23	23,000
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Laboratory Name: ENVIROTECH RESEARCH

Case No: JOB 6052

Sample Number: 30358

Organics Analysis Data Sheet

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	NONE FOUND	VOC	—	—
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Laboratory Name: ENVIROTECH RESEARCH

Case No: 6052

Sample Number: 30358

Organics Analysis Data Sheet

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.		UNKNOWN ALKANE	BNA	25.38	2,600
2.		" "	|	25.48	3,000
3.		" "	|	28.17	2,600
4.		$C_{15}H_{10}$ PAH	|	28.75	1,500
5.		$C_{15}H_{32}$ ALKANE	|	29.46	2,600
6.		UNKNOWN ALKANE	|	31.87	1,800
7.		" "	|	33.00	2,600
8.		" "	|	34.09	1,800
9.		COELUTING $C_{15}H_{10}$ / $C_{15}H_{12}$ PAH's	|	35.49	1,500
10.		UNKNOWN ALKANE	|	36.13	1,800
11.		UNKNOWN ALKANE/COELUTING UNKNOWN	|	36.71	2,600
12.		UNKNOWN ALKANE	|	37.10	2,600
13.		" "	|	38.04	4,800
14.		$C_{20}H_{12}$ PAH	|	38.65	4,400
15.		UNKNOWN ALKANE	|	39.02	4,800
16.		$C_{20}H_{12}$ PAH	|	39.14	6,300
17.		UNKNOWN ALKANE	|	40.12	3,700
18.		" "	|	41.35	4,400
19.		" "	|	42.79	6,300
20.		UNKNOWN	↓	44.32	3,700
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Laboratory Name: ENVIROTECH RESEARCH

Case No: Job 6052

Sample Number: 30359

Organics Analysis Data Sheet

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	NONE FOUND	VOC	—	—
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Laboratory Name: ENVIROTECH RESEARCH

Case No: JOB 6052

Sample Number: 30360

Organics Analysis Data Sheet

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	NONE FOUND	VOC	—	—
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ENVIROTECH RESEARCH, INC.

777 New Durham Road
Edison, New Jersey 08817
Tel: (201) 549-3900
Fax: (201) 549-3679

December 28, 1989

Corporate Environmental Eng. Inc
210 Carnegie Center
Princeton, NJ 08540

Attention: Mr. Frank Jankoski

Re: Job No. 6057 - General Motors

Dear Mr. Jankoski:

Enclosed are the results you requested for the following samples taken 11/29/89 at General Motors:

Lab No.	Client ID	Analysis Requested
30386	Sample #1	TCL VOA +10
30387	Sample #2	TCL VOA +10
30388	Sample #3	TCL Semivolatiles +20
30389	Sample #4	TCL VOA +10
30390	Sample #5	TCL Semivolatiles +20
30391	Trip Blank	TCL VOA +10

An invoice for our services is also enclosed. Please call me at 549-3900 if you have any questions.

Very truly yours,

Michael J. Urban
Laboratory Manager

Laboratory Name: ENVIROTECH RESEARCH

Case No: JOB 6057

Sample Number: 3038C

Organics Analysis Data Sheet

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	UNKNOWN (Acetate)	VOC	23.20	330
2.	98828	Ethylmethylbenzene isomer	VOC	35.97	330
3.	"	"	VOC	26.65	200
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Laboratory Name: ENVIROTECH RESEARCH

Case No: JOB 6057

Sample Number
30387

Organics Analysis Data Sheet

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	UNKNOWN (Acetate)	VOC	23.17	11
2.	98828	Ethylmethylbenzene isomer	VOC	35.36	11
3.	"	" "	VOC	36.58	7.5
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Laboratory Name: ENVIROTECH RESEARCH

Case No: 6057

Sample Number: 30388

Organics Analysis Data Sheet

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	111762	2-BUTOXY-ETHANOL	BNA	10.58	420
2.	5131668	1-BUTOXY-2-PROPANOL		11.64	1,800
3.	999655	1-(1-METHYLPROPOXY)-BUTANE		11.91	120
4.	104767	2-ETHYL-1-HEXANOL		13.65	94
5.	98862	1-PHENYL-ETHANONE		14.63	850
6.	617947	DIMETHYL-BENZENEMETHANOL (ISOMER)		15.06	160
7.	—	" " "		15.12	870
8.	536505	.α.,4-DIMETHYL-BENZENEMETHANOL		16.58	35
9.	122009	1-(4-METHYLPHENYL)-ETHANONE		16.88	52
10.	—	UNKNOWN		22.12	160
11.	—	"		26.97	33
12.	—	"		35.67	490
13.	—	"		36.92	160
14.	—	"		37.39	470
15.	—	"		38.54	170
16.	—	"		39.01	560
17.	—	"		39.07	35
18.	—	"		40.22	42
19.	—	"		40.65	82
20.	—	"		40.88	40
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Laboratory Name: ENVIROTECH RESEARCH

Case No: JOB6057

Sample Number: 30389

Organics Analysis Data Sheet

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	71363	1. BUTANOL	VOC	15.06	8.9
2.	—	UNKNOWN (Acetate)	VOC	23.18	11.
3.	98828	Ethylmethyl benzene isomer	VOC	35.37	92.
4.	"	" " "	VOC	36.52	60.
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Laboratory Name: ENVIROTECH RESEARCH

Case No: 6057

Sample Number: 30390

Organics Analysis Data Sheet

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	108101	4-METHYL-2-PENTANONE	BNA	5.10	160
2.	111762	2-BUTOXY-ETHANOL		10.06	490
3.	5131668	1-BUTOXY-2-PROPANOL		11.06	4,600
4.	142621	HEXANOIC ACID		12.49	160
5.	617947	α,α-DIMETHYL-BENZENEMETHANOL		14.54	4,000
6.	112345	2-(2-BUTOXYETHOXY)-ETHANOL		16.74	4,300
7.	112050	NONANOIC ACID		18.37	400
8.	85449	PHTHALIC ANHYDRIDE		19.16	160
9.	—	UNKNOWN		21.66	4,200
10.	143226	2-[2-(2-BUTOXYETHOXY)ETHOXY]-ETHANOL		21.81	510
11.	—	UNKNOWN		26.42	190
12.	—	"		32.30	440
13.	—	"		33.93	190
14.	—	"		34.53	230
15.	—	"		36.40	2,800
16.	—	"		36.87	5,300
17.	—	"		37.57	330
18.	—	"		37.97	4,300
19.	—	"		38.37	4,800
20.	—	"		38.43	160
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Laboratory Name: ENVIROTECH RESEARCH

Case No: JOB 6057

Sample Number
30391

Organics Analysis Data Sheet

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	—	NONE FOUND	VOC	—	—
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
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29.					
30.					

FENCELINE SOIL SAMPLING PLAN
GENERAL MOTORS CORPORATION
1016 WEST EDGAR ROAD
LINDEN, NEW JERSEY
EPA ID NUMBER NJD-002-186-690

NOVEMBER, 1991

PREPARED FOR
GENERAL MOTORS CORPORATION
LINDEN, NEW JERSEY

PREPARED BY
CORPORATE ENVIRONMENTAL ENGINEERING INC
FLEMINGTON, NEW JERSEY

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Appendix A Soil Quality Assurance Quality Control Plan
Appendix B Part A Permit
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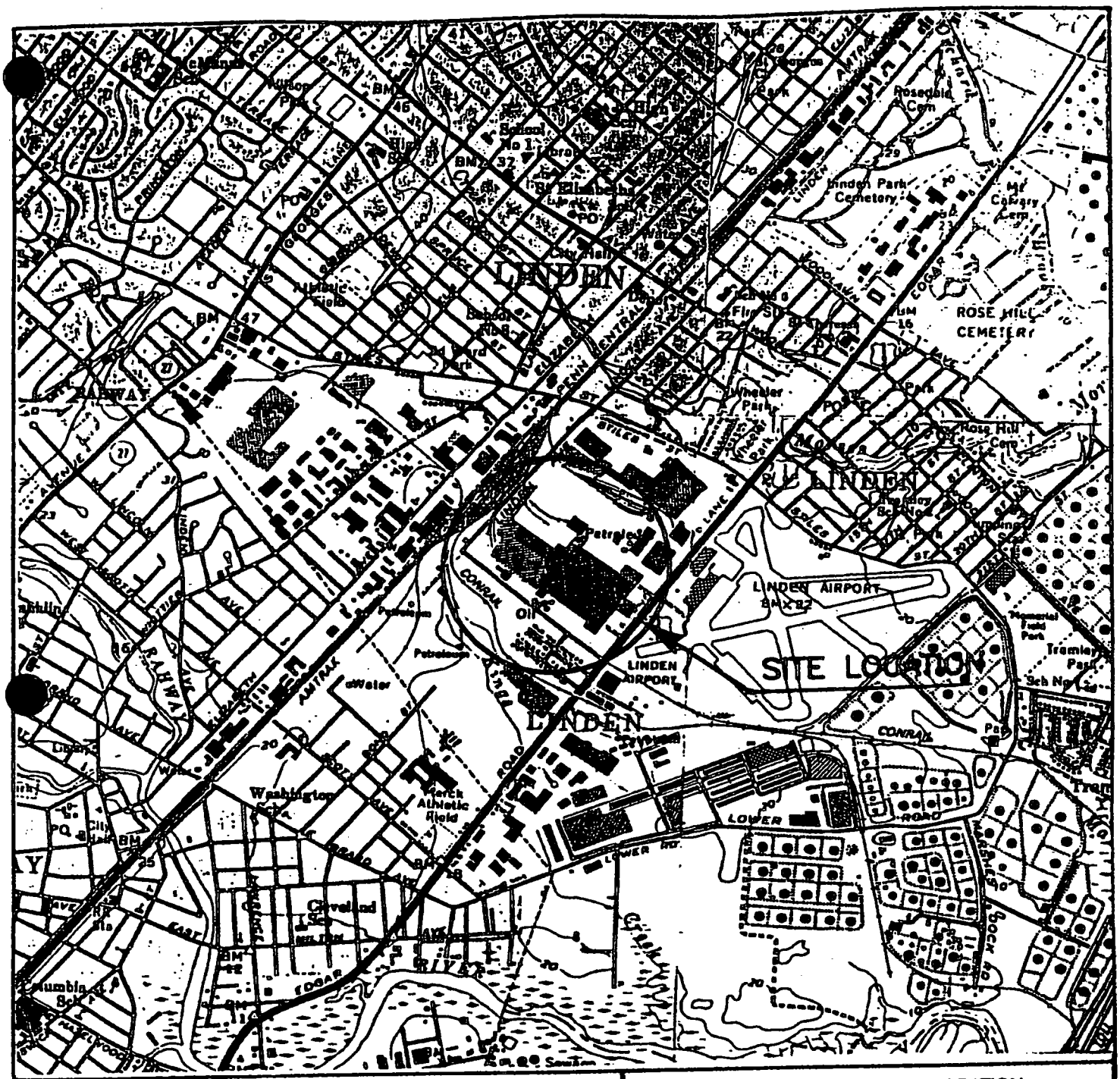
1.0 INTRODUCTION

Pursuant to the U.S. EPA Standards for Owners and Operators of Hazardous Waste Treatment, Storage and Disposal Facilities (40 CFR, Part 265, Subpart G) and the New Jersey Administrative Code (NJAC) 7:26 - 9.8, General Motors Corporation, Linden, New Jersey (G.M., Linden) developed a facility Closure Plan for three regulated storage units in November 1988. The plan was approved by the New Jersey Department of Environmental Protection and Energy (NJDEPE) on August 15, 1989, implemented, and the results submitted to the NJDEPE in January 1990. The NJDEPE's August 15, 1989 approval required investigations at only two storage units. In April 1991 the NJDEPE Bureau of Hazardous Waste Engineering informed General Motors that additional soil sampling was necessary at the former Container Storage Area #1 while the other unit undergoing closure, the Waste Thinner Storage Tank was considered closed. NJDEPE oversight of the additional sampling was transferred to the Bureau of Metro Enforcement in February 1991.

During a July 18, 1991 meeting, the NJDEPE agreed to General Motors conducting two episodes of additional sampling: one sampling event is for RCRA Container Storage Area #1, the second sampling event is to assess conditions at the fenceline of G.M.-Linden if deemed necessary by the results of the sampling of Container Storage Area #1 as discussed in the November 1991 Supplemental Sampling Plan.

This sampling plan addresses the NJDEPE's desire for fenceline sampling and is to be implemented only if sampling nearby Container Storage Area #1 identifies conditions which may be representative of pervasive conditions at the facility or region. This sampling plan would attempt to characterize any such pervasive conditions.



QUADRANGLE MAP (TOPOGRAPHIC) Perth Amboy, Arthur Kill Roselle, Elizabeth

SCALE: 1 = 24000

DATE: 4-25-91

DRAWN BY: WLH

APPROVED BY: JS

SHEET No. Figure 1

N

GENERAL MOTORS CORPORATION
WEST EDGAR ROAD,
LINDEN, NW JERSEY

CEE

CORPORATE ENVIRONMENTAL ENGINEERING INC
LIBERTY COURT, SUITE 1000
260 HIGHWAY 202 & 31
FLEMINGTON, N.J. 08822

2.0 BACKGROUND - CONTAINER STORAGE AREA #1

2.1 Historical Information

Container Storage Area #1 was one of three units included on a 1980 Part A permit application (Appendix B). Container Storage Area #1 is a paved 20 x 20 right triangle storage pad defined by chain link fence posts cut flush to the current pavement. During active use it had a maximum storage capacity of about 45 drums. The pad is in a currently active traffic area adjacent to G.M. Linden's solid waste handling operations. The macadam surface was originally installed in 1965 and although complete resurfacing has not occurred, patching has occurred as necessary. Paving was found to be 3 to 6 inches thick during the previous closure sampling in the vicinity of the pad. Waste has not been stored on this storage pad since 1984.

2.2 Wastes Stored

The 1980 Part A permit application indicates that waste codes D001 and F017 were stored in drums on Container Storage Area #1. F017 became a non-source specific waste regulating "paint residues or sludges from industrial painting in the mechanical and electrical products industry" on July 16, 1980 (Federal Register Vol. 45, No. 138, pages 47832-47834). The basis for listing was the presence of cadmium, chromium, lead, cyanides, toluene and tetrachloroethylene in the waste. F017 was temporarily suspended on January 16, 1981 (Federal Register Vol. 46, No. 11, page 4614), and has never been re-instated. The text of the suspension states that F017 was, in fact, "delisted" from its "interim final" status which was initiated on July 16, 1980. These situations are presented in Appendix C.

2.3 Constituents of Concern

A comparison of G.M. Linden's records with the regulatory definition of D001, conducted by CEE, indicates that this facility's D001 wastes should consist of only volatile organic compounds. It is not likely the D001 wastes stored in this area included spent solvents and the like since G.M. Linden separately stores, generates and disposes of wastes such as F003 and F005. Volatile organics are the only constituents of concern associated with D001 waste.

As previously stated, F017 is a former hazardous waste code based on the presence of cadmium, chromium, lead, cyanides, toluene and tetrachloroethylene in the waste. These six constituents would represent the only potential for concern associated with this waste for the closure of Container Storage Area #1.

3.0 ENVIRONMENTAL CHARACTERISTICS

The G.M. Linden facility is an area of heavy industrial use with nearby land use including petroleum refining and an air transportation terminal. The USDA Soil Conservation Service maps G.M. Linden, and portions of the adjacent area, in a large unit officially designated as Urban Land. The Urban Land unit is nearly level with only 10% undisturbed soil and greater than 90% surface coverage by asphalt, concrete, buildings and other impervious surfaces. According to the USDA mapping, "the undisturbed soils are commonly similar to soils in surrounding or nearby mapping unit[s]." The following is a brief discussion of the nearby mapping units.

The Linden Airport is located adjacent to G.M. Linden on the opposite side of Route 1. The terminal building and nearby paved parking are designated Urban Land, while the remainder of Linden Airport belongs to the Udorthents, Loamy Unit. The USDA description of Udorthents, Loamy includes "urban land, filled land, sanitary landfill and udorthents over tidal marsh in the easternmost portion of the county." A large portion of the oil refinery adjacent to Linden Airport bares this same designation.

Another nearby unit primarily assigned to the Exxon oil refinery is Udorthents, Organic Substratum which consists of "sanitary landfill, areas of undisturbed tidal marsh, udorthents-loamy and urban land". The Newark Airport, Port Authority and oil refineries are assigned this unit designation. The soils are generally highly varied fill materials over tidal marsh.

A unit of Udorthents, Waste Substratum is identified one half mile south of Linden Airport, and about one mile from G.M., Linden. It is bounded to the north and east by the Exxon oil refinery and to the south and west by Kings Creek and the Rahway River. According to the USDA "this unit consists of areas that have been used for disposing of refuse. It is a combination of highly variable fill material and refuse which consists of brick, glass, cement, wood, wire, asphalt, plastic containers, cans and other material objects."

Nearby units of undisturbed or non-fill designations are generally associated with surface water, discussed below, or an historic cemetery about 1 mile northeast of G. M., Linden.

While G.M., Linden's designation is Urban Land, it is apparent from the USDA mapping that impervious surface coverage takes precedent over the distinguishing elements of adjacent soil units in the delineation of the Urban Land unit. Given this, it is likely that the varied fill defined adjacent to G.M., Linden continues under G.M. Linden. This conclusion is supported by the debris, including glass, metal and plastic fragments, encountered during the initial sampling.

Bedrock is about 30 - 40 feet below grade and bedrock surface slopes northwest in a buried-valley below G.M. Linden (Nemickas, 1974). G.M. Linden is near the bottom of the Arthur kill watershed. It is approximately 30 feet above mean sea level. There are two nearby streams: Kings Creek is less than half of a mile to the south and flows to the Rahway River, and Morses Creek is less than half a mile to the north and flows to the Morses River. Both rivers discharge to the Arthur Kill, approximately 3 miles east of G.M., Linden.

4.0 PREVIOUS SAMPLING AND DISCUSSION

Soil samples for the closure of Container Storage Area #1 were collected November 28, 1989. In accordance with the NJDEPE approved Closure Plan, the samples were analyzed for Target Compound List (TCL) metals, volatile organic compounds (VOC) +10 and semi-volatile organic compounds (SV) +20. The sampling was audited by NJDEPE Bureau of Environmental Measurement and Quality Assurance (BEMQA) field auditor Fred DeClement. No deficiencies were noted during the audit according to Mr. DeClement's November 30, 1989 memorandum. BEMQA also reviewed the laboratory's Quality Assurance/Quality Control data and accepted the sampling results. A soil analytical summary is presented in Table 4.0.

4.1 Volatile Organic Compounds

All target sample results were not detected (N.D.) for all VOC except acetone which was detected in five of the six soil samples and the Field Blank, but not the laboratory prepared Trip Blank. The acetone ranged from 52 micrograms/kilograms (ug/kg) to 100 ug/kg in the soil samples and occurred at 210 ug/kg in the field blank. Acetone was used to decontaminate field equipment during the sampling which is believed to be the source of this result. Further, these results do not represent an environmental concern since acetone is listed as Hazardous Waste U002 in NJAC 7:26 - 8.15 solely for the characteristic of ignitability which would not be displayed by the levels of acetone identified in the soils sampled.

4.2 Metals

Metal results are compared to the NJDEPE guidance for Priority Pollutant Metals since the NJDEPE has not established guidance for all TCL metals. Seven metals were detected above these current NJDEPE guidelines, and above site background as defined by BH1 and BH6. Antimony, barium, cadmium, lead and zinc were ubiquitous and require further delineation around the former storage pad. Arsenic and copper were also detected above NJDEPE guidelines but below levels requiring further investigation.

4.3 Semi-Volatiles

Total SV contents varied from 21.6 mg/kg in BH6 to 230.9 mg/kg in BH5 (Table 4.3). The SV's identified consisted mostly of polycyclic aromatic hydrocarbons (PAH) which Hawley's Condensed Chemical Dictionary indicates are commonly found in coal tars. Various materials similar to coal tars are used in the manufacturing and installation of asphaltic paving, such as that which constitutes Container Storage Area #1, the surrounding area, and major portions of the USDA Urban Land unit. No apparent connection to hazardous waste storage operations at Container Storage Area #1 has been found for these SV's.

General Motors - Linden Plant
Soil Analytical Summary
Table 4.0

NJDEPE Guidance Value*	Parameter	BH1	BH1D	BH2	BH3	BH4	BH5	BH6	Field Blank	Trip Blank
10	Antimony	23	7	71	15	9	49	19	ND	NA
20	Arsenic	8	4	21	6	7	8	7	ND	NA
400	Barium	697	707	796	1,640	828	1,940	539	ND	NA
1	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	NA
3	Cadmium	7	6	5	7	6	13	4	ND	NA
100	Chromium	37	28	26	31	21	42	31	ND	NA
170	Copper	80	81	166	184	191	391	102	ND	NA
500	Lead	1,300	1,290	6,430	2,340	1,110	8,300	1,530	0.013	NA
100	Nickel	34	30	26	36	26	46	28	ND	NA
1	Mercury	0.44	0.41	0.32	0.15	0.34	0.53	ND	ND	NA
4	Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND
100	Vanadium	32	25	24	32	23	30	53	ND	NA
350	Zinc	778	703	1,340	5,210	929	2,550	320	0.085	NA
**	SV	51.1	34.8	147.5	134.3	22.4	230.9	21.6	ND	NA
**	Acetone	0.06	0.09	0.06	0.1	0.05	0.1	ND	0.021	ND

Samples Collected
November 28-29, 1989

ND - Not Detected
NA - Not Analyzed
* - Based on commonly used NJDEPE soil evaluation criteria. Earliest reference found is the NJDEPE's Bureau of Industrial Site Evaluation, June, 1986 list of Action Levels in use.
Units - milligrams per kilogram (mg/kg)
SV - Semi-Volatiles
VOC - Volatile Organic Compounds
D - Duplicate Analysis
** - Guidance values determined on a case by case basis.

General Motors - Linden Plant
Summary of Target Semi-Volatiles
Table 4.3

Location	BH1	BH1*	BH2	BH3	BH4	BH5	BH6
Benzo(a)Anthracene	4.8	J	13	12	J	14	J
Chrysene	6	4.3	13	3.6	3.6	22	J
Benzo(b)Flouranthene	6.2	3.7	24	25	5.9	36	5.9
Benzo(a)Pyrene	3.4	J	15	14	J	21	J
Indeno(1,2,3-c,d) Pyrene	J	J	9.2	6	J	7.4	J
Phenanthrene	8.3	10	7	7.5	J	3.1	J
Antracene	J	J	3.6	3.4	J	9.3	J
Fluoranthene	7.4	4.8	22	24	5.4	38	5.2
Pyrene	15	12	33	25	7.5	38	5.6
Benzo(g,h,i) Perylene	J	J	7.7	4.4	J	5.2	J
Naphthalene	J	J	J	J	J	8.6	ND
2 Methylnaphthalene	J	J	J	J	J	4	J
Acenaphthylene	J	J	J	J	J	3.3	J
Acenaphthene	J	J	J	J	J	8.2	J
Dibenzofuran	J	J	J	J	J	4	J
Fluorene	J	J	J	J	J	8.8	J
Bis(2-Ethylhexyl) Phthalate	ND	J	ND	ND	ND	ND	4.9

Soil Samples Collected
November 28-29, 1989

Key:
J - Detected below method detection limit
ND - Not Detected
Units - milligram/kilogram (mg/kg)
* - Duplicate Analysis

5.0 PROPOSED SAMPLING - CONTAINER STORAGE AREA #1

The proposed sampling is the identical sampling and analysis proposed in "RCRA Closure Plan - Supplemental soil sampling at Container Storage Area #1." The distinguishing element is that all parameters analyzed will be reported as opposed to the limited closure specific reporting discussed in the RCRA Closure Plan.

The proposed sampling is based on discussions with the NJDEPE at the June 18, 1991 meeting. G.M. Linden's November 1988 Closure Plan, which was approved by the NJDEPE and the results scrutinized and accepted by the NJDEPE, included full TCL metals, VOC+10 and SV+20. The proposed sampling plan is based on locations, depths and parameters suggested by the NJDEPE on June 18, 1991. One randomly selected off pad location will be advanced by continuous split spoon to the water table for the purpose of logging site geology.

Constituents to be analyzed and their applicability to closure are presented in Table 5.0. Although antimony, barium, cadmium, lead, zinc, VOC+10 and SV+20 are proposed, only the cadmium, lead and VOC are applicable to the closure requirements for Container Storage Area #1. The remaining proposed sampling is for other purposes as discussed in Section 6, herein. Sample locations GMR1 through 4 will be considered local background for RCRA closure parameters and compared with GMR5 and 6 and samples previously collected within the defined limits of Container Storage Area #1.

Two separate reports will be prepared from this one sampling event. One report will include only cadmium, lead and VOC+10 results and addresses closure activities. The second report will evaluate all parameters analyzed and the necessity for the sampling proposed in Section 6.0. Limiting the scope of the closure sampling to lead, cadmium and VOC is consistent with discussions at the July 18, 1991 meeting and closure requirements under RCRA.

No VOC were detected, excluding the acetone attributable to sampling activities. However, as per discussions with NJDEPE on July 18, 1991, VOC samples will be collected at all locations 18-24 inches below the bottom of the asphalt.

Antimony, barium, cadmium, lead and zinc will be sampled 6-12 inches and 18-24 inches below the bottom of the asphalt in all locations.

SV will be sampled at all locations 6-12 and 18-24 inches below the bottom of the asphalt.

5.1 Collection and Analysis

Samples will be collected and preserved in accordance with NJDEPE protocol as outlined in Appendix A. All samples will be analyzed by the most current methods of SW846 by Envirotech Research, Edison, New Jersey, (Certified Laboratory Number 12543). Analytical results will be submitted in accordance with the requirements of SW846, latest edition as requested in the NJDEPE's August 15, 1989 correspondence.

5.2 Schedule

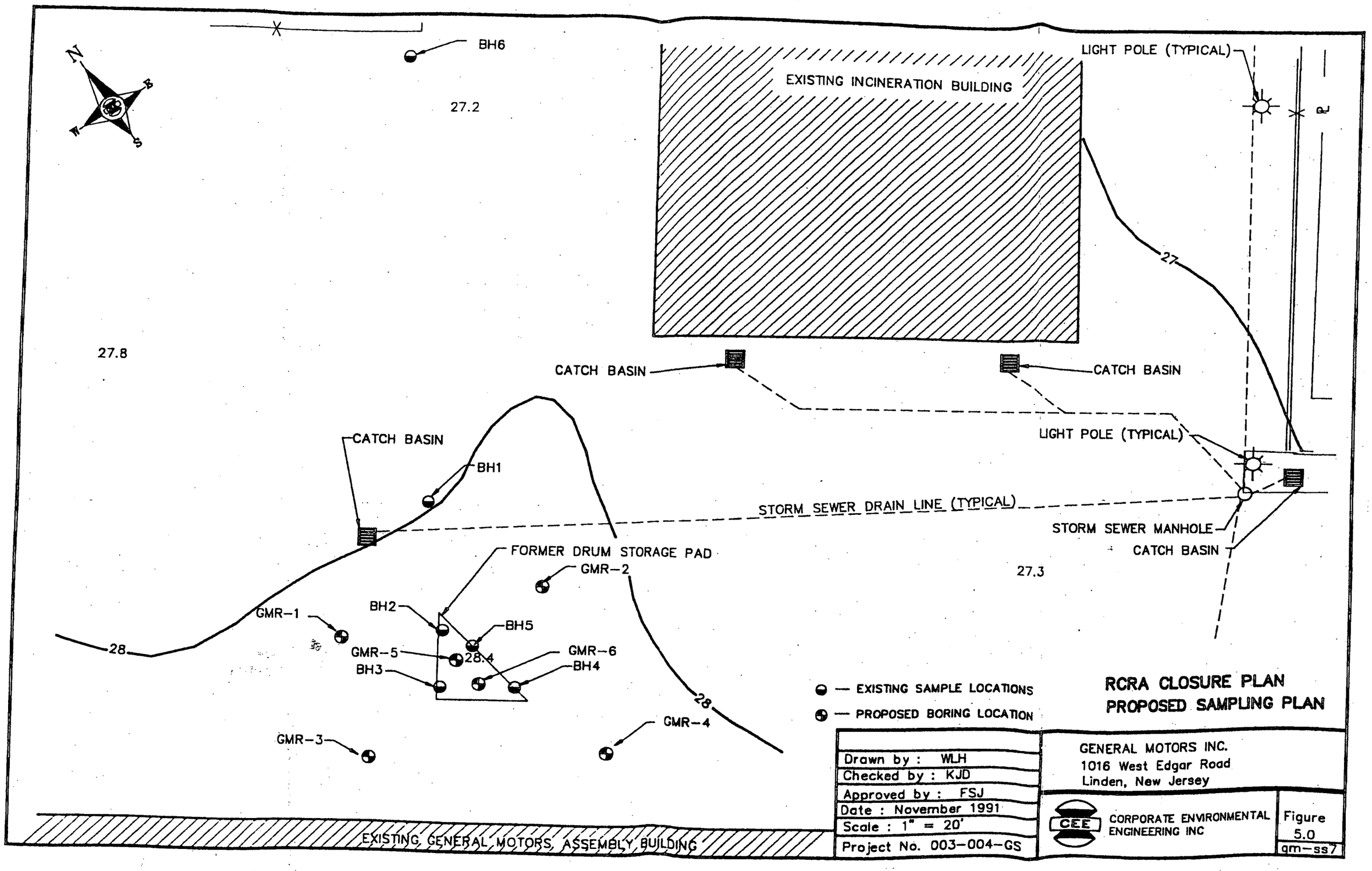
The proposed sampling of Container Storage Area #1 will be implemented within 30 days of receipt of written approval of the RCRA Supplemental Sampling Plan by NJDEPE. The results of the proposed sampling will be submitted to the NJDEPE within 100 days of receipt of written approval by NJDEPE.

General Motors - Linden Plant
RCRA Closure - Storage Pad
Proposed Sampling, August 1991
Table 5.0

Analysis	Sampling Interval 6 to 12 inches Below Paving	Sampling Interval 18 to 24 inches Below Paving	Required for Closure
Antimony	X	X	
Barium	X	X	
Cadmium	X	X	X
Lead	X	X	X
Zinc	X	X	
VOC+10	Complete*	X	X
SV+20	X	X	

Depth intervals applicable to all sampling locations.

VOC+10 - Volatile Organic Compounds plus library search of next 10 compounds.
SV+20 - Semi-Volatile Organic Compounds plus library search of next 20 compounds.
* - Previously implemented sampling, approved by NJDEPE, included full TCL analysis in this interval.



RCRA CLOSURE PLAN
PROPOSED SAMPLING PLAN

Drawn by : WLH	GENERAL MOTORS INC.
Checked by : KJD	1016 West Edgar Road
Approved by : FSJ	Linden, New Jersey
Date : November 1991	CORPORATE ENVIRONMENTAL ENGINEERING INC
Scale : 1" = 20'	Figure 5.0
Project No. 003-004-GS	gm-ss7

6.0 PROPOSED SAMPLING - FENCELINE

The proposed fenceline sampling is based on discussions with the NJDEPE at the June 18, 1991 meeting. The fenceline sampling is not based on identified areas of environmental concern, prior discharges or any other bias. Accordingly, samples which are not based on prior bias should be used for general site description and establishment of background conditions. The eight soil sampling locations, GMS1 through 8, were chosen on a spatial basis to equally distribute sampling along G.M.-Linden's perimeter (Drawing 1). Full TCL parameters are proposed for a broad description of the soils. One randomly selected location will be advanced by continuous split spoon to the water table for the purpose of logging site geology.

The analytical results of sample locations GMR1 through 4 will be considered local background and compared with GMR5 and 6 and samples previously collected within the defined limits of Container Storage Area #1. If the comparison of local background conditions to Container Storage Area #1 conditions indicate an impact attributable to Container Storage Area #1, then the fenceline sampling will not be implemented and remedial actions will be considered within the vicinity of Container Storage Area #1.

If the local background conditions and Container Storage Area #1 conditions suggest pervasive conditions of environmental concern, then the fenceline sampling may be implemented to determine the pervasiveness of the soil condition(s) in question. The fenceline sampling may be curtailed to include only parameters identified at levels of environmental concern, since the fenceline sampling's purpose is to characterize the pervasive conditions that might be identified at Container Storage Area #1.

The following sampling is proposed for soil sampling locations GMS1 through 8. TCL-VOC +10 is proposed for two randomly selected locations at 18 - 24 inches below the bottom of the asphalt. Full TCL metal analysis is proposed for all locations at 6 to 12 inches below the bottom of the asphalt. TCL-SV +20 is proposed for all locations at 6 to 12 inches below the bottom of the asphalt.

6.1 Collection and Analysis

Samples will be collected and preserved in accordance with NJDEPE protocol as outlined in Appendix A. All samples will be analyzed by the most current methods of SW846 by Envirotech Research, Edison, New Jersey, (Certified Laboratory Number 12543). Analytical results will be submitted in accordance with the requirements of SW846, latest edition as requested in the NJDEPE's August 15, 1989 correspondence.

6.2 Schedule

The sampling proposed at Container Storage Area #1 will be implemented within 30 days of receipt of written approval of the RCRA Supplemental Sampling Plan by NJDEPE. The results will be submitted to the NJDEPE within 100 days of receipt of written approval by NJDEPE. G.M. Linden will assess the validity of conducting the fenceline sampling concurrent with the submission of the RCRA Sampling results.

7.0 REFERENCES

Nemickas, B., 1974. Bedrock Topography and Thickness of Pleistocene Deposits in Union County and Adjacent Areas, New Jersey: U.S. Geological Survey, Map I-795 (2 maps).

USDA Soil Conservation Service. Soil Survey of Union County, New Jersey, Maps 6, 7, 9 and 10. Final survey currently being compiled.

APPENDIX A

SOIL QUALITY ASSURANCE QUALITY CONTROL PLAN

Quality Assurance Quality Control Plan for Ground Water and Aqueous Materials

---

I. GROUND WATER

A. Objective and Site Specific QA/QC Plan

1.0 Sampling Methods

1.1 Sample Preparation
1.2 Sample Handling and Labeling
1.3 Sample Filtration and Preservation

2.0 Sampling Equipment

2.1 Sample Containers
2.2 Equipment Decontamination

3.0 Quality Assurance

3.1 Chain of Custody
3.2 Quality Assurance Samples
3.2.1 Trip and Field Blanks
3.2.2 Duplicate Samples

4.0 Laboratory Methodology

4.1 Laboratory Deliverables

I. GROUND WATER AND AQUEOUS SAMPLING

A. QUALITY ASSURANCE/QUALITY CONTROL PLAN

The objective of this QA/QC Plan is to outline a Ground Water and Aqueous Sampling and analysis Program (SSAP) which ensures the reliability of data collected and analyzed during remedial investigations performed by CEE personnel.

1.0 Ground Water Sampling Methods

Samples are collected at the well locations or surface water locations as described in the sampling plan set forth in this document. Procedural changes dictated by field conditions are fully documented in the field notes and in the report of results.

Accurate field notes are maintained on field data sheets or in a bound filed notebook. Information recorded includes but is not limited to:

a. Well Number and/or sample location sketch;
b. Aqueous sample description;
c. Sample time;
d. Sample date;
e. Depth to ground water;
f. Depth to bottom of well;
g. Height of water column;
h. Volume of water purged from well;
i. General comments, including any modification or deviation from the Site Sample and Analysis Plan (SSAP).

1.1 Sample Preparation

All aqueous samples are transferred immediately after collection into sample bottles selected by parameter as listed in section 2.1 of this plan. Samples collected for Volatile Organic Analysis in addition to other parameters are placed in collection vials first as required by the NJDEP. The remaining portion of the sample is then placed in the appropriate containers.

1.2 Sample Handling and Labeling

Disposable gloves are utilized during sample collection to reduce the potential for crossed contamination between samples and as Personal Protective Equipment (PPE) in accordance with OSHA requirements set forth in 29 CFR 1910.120. Disposable gloves are changed between sample locations if they come in contact with the aqueous sampling medium.

All samples are packed on ice immediately following collection and will be kept cool until delivery to the laboratory. All samples are labeled with the following information:

a. sample number;
b. date and time of collection;
c. site name;
d. sample depth;
e. sample collector's initials;
f. analysis requested.

1.3 Sample Filtration and Preservation

Samples analyzed for metals are field filtered and preserved immediately after sample collection in accordance with EPA criteria as listed below.

a. filtering through a cleaned dedicated 0.45 micron filter or similar dedicated disposable 0.45 micron filter,

b. adjust pH of sample to < 2.0 with nitric acid.

2.0 Ground Water Sampling Equipment

In general, the following equipment is used for obtaining ground water samples from monitor wells and for the measurement and purging of wells prior to sampling.

a. Teflon, bottom loading, single check valve bailers equipped with dedicated stainless steel or Teflon leaders,
b. Field Filtering Equipment, etc.
c. M-Scopes,
d. Portable pumps and piping.

Additional aqueous sampling equipment for specific surface water or other aqueous sampling equipment varies according to task and is outlined within the SSAP.

2.1 Sample Containers

Sample bottles used for CEE projects are prepared in accordance with NJDEP criterion for the respective sample parameters by the contract laboratory as listed within the NJDEP Field Sampling Procedures Manual, Section IV, Table 4. and in accordance with EPA criterion for Metals, Volatile Organics and Base Neutral Extractables listed within "Standard Methods for the Examination of Water and Wastewater", latest edition, APHA; "EPA Manual of Methods for Chemical Analysis of Water and Wastes", 1972 as amended; "EPA Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods" (SW-846), or other methods approved by EPA.

The type and size of sample containers required for ground water and aqueous sampling include:

a. Petroleum hydrocarbons - 500 ml glass jars with Teflon liner closures;

b. Volatile Organic Compounds - 40 ml glass vials with Teflon septa and plastic closures;

c. Base Neutral/Acid Extractable Organic Compounds - 500 ml glass jars with Teflon lined closure;

d. PCB & Pesticides - 500 ml glass jars with Teflon lined closure;

e. Priority Pollutant Metals - 500 ml glass or plastic jars with Teflon lined closure;

2.2 Equipment Decontamination

All equipment which comes into contact with the aqueous samples is cleaned prior to use in the following manner:

a. detergent wash;(Alconox)
b. tap water rinse;
c. distilled/deionized water rinse;
d. 10% nitric acid rinse[1];
e. distilled/deionized water rinse;
f. methanol or acetone rinse;
g. air dry;
h. distilled/deionized water rinse.

Field equipment which is re-used on the project site is decontaminated in accordance with the methods described above.

---

[1] 10% Nitric Acid (HNO_3) rinse only applies to sampling equipment used on samples to be analyzed for metals.

3.0 Quality Assurance

3.1 Chain of Custody

Chain of custody is maintained for all samples. Chain of custody originates with the collection of the samples and is maintained until the samples are relinquished to the laboratory. The chain of custody form details the sampler's name and organization, the site location, sample designation, the time and date of sample collection, sample depth, sample analysis and all custody changes with their appropriate signatures.

Request for analysis forms are implemented prior to the submission of samples to the designated laboratory if additional conditions other than those specified on the chain of custody apply. They detail; the site name, sample designation, date of sampling, date of request, priority, and analytic parameters.

3.2 Quality Assurance Samples

3.2.1 Trip and Field Blanks

In order to place control on sample handling and to determine if contamination may have occurred to samples in transit or in the laboratory, trip blanks are supplied by the analytical laboratory when required under the sampling protocols for Volatile Organics of the regulatory agency. Trip blanks consist of a set of 40 ml sample containers filled with laboratory demonstrated, analyte-free water. The sample containers themselves are not opened in the field. Rather, they travel with the sample collector and are analyzed in the same manner as the Volatile Organic samples acquired that day.

Trip blank results are evaluated when the analytical data returns. Corrections in field procedures are made according to various trends found in the data. Trip blank results are also used in the data validation process.

Field blanks are prepared on every day samples are collected in most cases. Deviations may occur concerning the frequency of field blank collection based upon the number of sample and sampling days and the protocols of the governing regulatory agency. Distilled/deionized analyte-free water provided by the laboratory is poured over sample equipment into laboratory prepared bottles. Field blanks were analyzed for the most comprehensive analysis required for samples collected on that day.

3.2.2 Duplicate Samples

Duplicate samples are collected at randomly selected locations at a frequency of approximately 5% for analysis of the corresponding sample parameters for quality

assurance purposes as required by the NJDEP under special conditions. If duplicate samples are to be utilized during a project, it is so noted in the Soil Sampling and Analysis Plan.

4.0 Analytical Methodology

Soil, solid and semi-solid sample methodologies vary on a case by case basis. Therefore, specific analytical parameters for each case are indicated within the SSAP Sample Summary Table(s). All laboratory analyses are conducted in accordance with "Standard Methods for the Examination of Water and Wastewater", latest edition, APHA; "EPA Manual of Methods for Chemical Analysis of Water and Wastes", 1972 as amended; "EPA Test Methods for the Evaluation of Solid Waste", "Physical/Chemical Methods (SW-846)" 3rd edition, or other methods approved by EPA.

In general, the following sample parameters are utilized to determine the type of contamination during remedial site investigations.

a. Volatile Organic Compounds - U.S. EPA Method 624 + 15
b. Volatile Organic Compounds - U.S. EPA Method 8240
c. Volatile Organic Compounds - U.S. EPA Method 601
d. Volatile Organic Aromatic Compounds - U.S. EPA Method 601
e. Semi-Volatile Organic Compounds - U.S. EPA Method 625 + 15
f. Semi-Volatile Organic Compounds - U.S. EPA Method 8250
g. PCB's & Pesticides - U.S. EPA Method 608
h. Petroleum Hydrocarbons by IR - Method 401.8
i. Priority Pollutant Metals - SW 846 - 3rd Edition

4.1 Laboratory Deliverables

Laboratory deliverables vary with the requirements of the regulatory agency having jurisdiction over the project. The following general laboratory deliverables are provided.

Deliverables	Project Type
Tier II	NJDEP - Environmental Cleanup Responsibility Act
80% Tier II 20% Tier I	NJDEP - Bureau of Case Management
Tier II	NJDEP BUST - Modified BUST Format for DICAR

APPENDIX B

PART A PERMIT

(Fill—in areas are spaced for elite type, i.e., 12 characters/inch).

Form Approved OMB No. 158-R0175

EPA

NJD002186630

GENERAL MOTORS CORP
1016 WEST EDGAR RD
LINDEN, NJ 07036

1016 WEST EDGAR RD
LINDEN, NJ 07036

I. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold—faced terms.

SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X	
B. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X	
C. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X		X
D. Is or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X	
E. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	
F. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
G. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
H. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
I. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

II. NAME OF FACILITY

GMC GM ASSEMBLY DIVISION LINDEN PLANT

III. FACILITY CONTACT

A. NAME & TITLE (last, first, & title)	B. PHONE (area code & no.)
MUNDTH GERALD PLANT ENGINEER	201 474 4070

IV. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX

B. CITY OR TOWN | C. STATE | D. ZIP CODE

V. FACILITY LOCATION

UNION

EPA Form 3510-1 (6-80)

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST	B. SECOND
3711 (specify) AUTOMOBILE ASSEMBLY	(specify)
C. THIRD	**D. FOURTH**
(specify)	(specify)

VIII. OPERATOR INFORMATION

A. NAME

GMC GM ASSEMBLY DIVISION LINDEN PLANT

B. Is this name listed in Item VIII-A also the owner? ☒ YES ☐ NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)

F = FEDERAL, S = STATE, P = PRIVATE, M = PUBLIC (other than federal or state), O = OTHER (specify)

P (specify)

D. PHONE (area code & no.) 201 474 4000

E. STREET OR P.O. BOX

1016 WEST EDGAR ROAD

F. CITY OR TOWN	G. STATE	H. ZIP CODE
LINDEN	NJ	07036

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☒ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water) N NA	D. PSD (Air Emissions from Proposed Sources) P NA
B. UIC (Underground Injection of Fluids) U NA	E. OTHER (specify) (specify) SEE ATTACHED LIST
C. RCRA (Hazardous Wastes) R NA	E. OTHER (specify) (specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

GENERAL MOTORS AUTOMOBILES ARE ASSEMBLED AT THIS FACILITY PREFABRICATED PARTS ARE SHIPPED TO THIS FACILITY FROM VARIOUS SUPPLIERS AND ASSEMBLED INTO AUTOMOBILES

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
P. J. Coletta - GM Assembly Division Vice-President and General Manager	P J Coletta	11/17/8[illegible]

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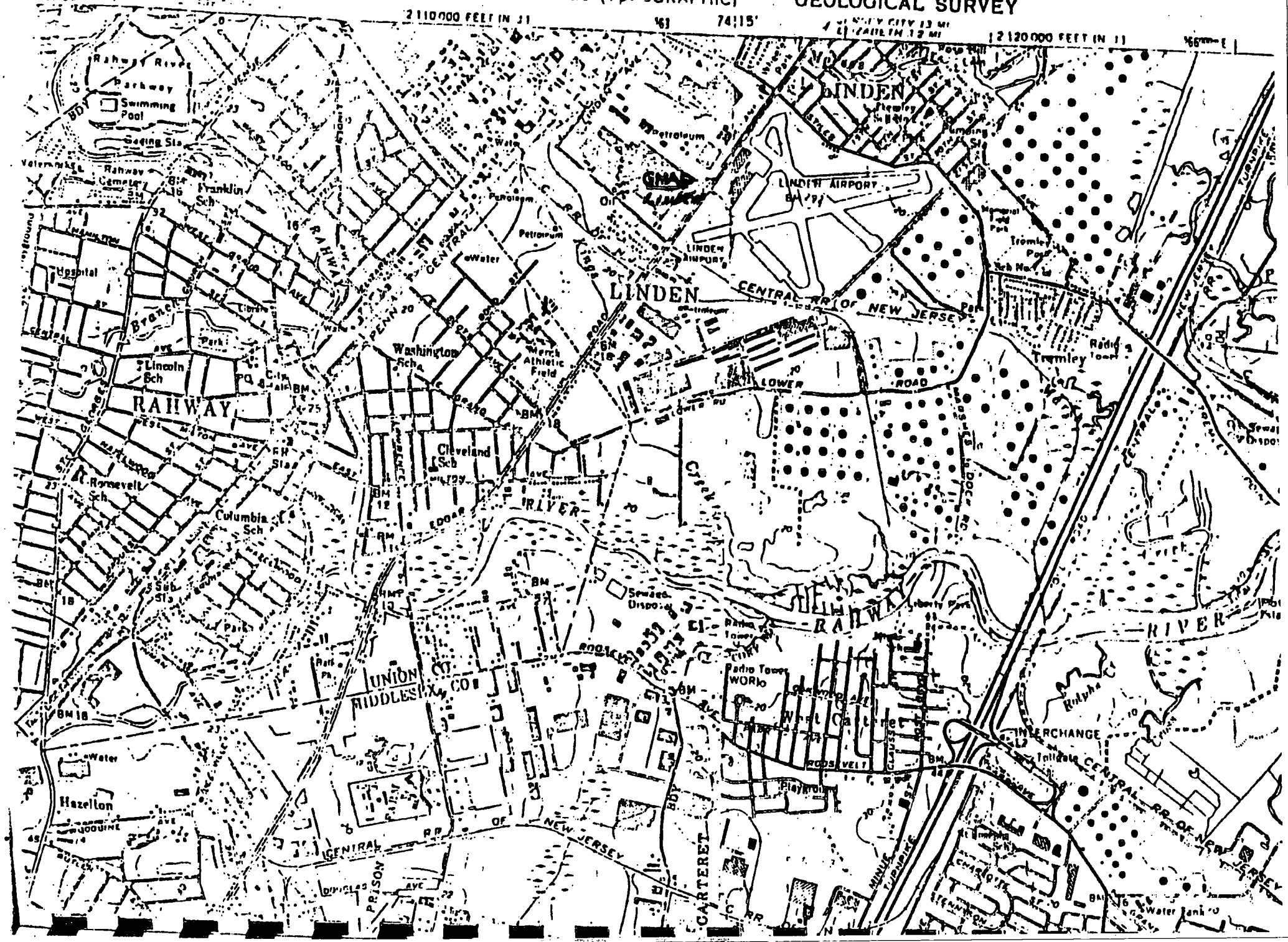
EPA Form 7510-1 (8-80) REVERSE

PERTH AMBOY QUADRANGLE
NEW JERSEY–NEW YORK
7.5 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



Form Approved. OMB No. [illegible]

U.S. ENVIRONMENTAL PROTECTION AGENCY

EPA HAZARDOUS WASTE PERMIT APPLICATION

Consolidated Permits Program

(Complete if Applying Under Section 3005 of RCRA)

FORM 3510-3 (6-80)

I. EPA I.D. NUMBER

F N J D 0 1 0 2 1 8 6 [illegible] 0

FOR OFFICIAL USE ONLY

APPLICATION APPROVED | DATE RECEIVED | COMMENTS

I. TYPE OF PERMIT APPLICATION

Mark "X" in the box in the proper response to the question whether this is the first application you are submitting for your facility or a subsequent application. If this is a revised application, enter the EPA I.D. Number in item I-B.

A. FIRST APPLICATION (For existing facility, see instructions for when interim status is obtained. For new facility, see instructions for when permit is required.)

X EXISTING FACILITY (See instructions for definition of "existing facility")

Complete item I-C if you checked "existing facility"

C. EXISTING FACILITY

Enter the date (yr., mo., & day) the facility began operation or the date construction commenced

3 7 0 5 1 5

NEW FACILITY (See instructions for definition of "new facility")

For new facility, enter the date (yr., mo., & day) you began or expect to begin operation

B. REVISED APPLICATION

Complete item I-C if you checked "revised application"

C. FACILITY HAS INTERIM STATUS

D. FACILITY HAS A RCRA PERMIT

II. PROCESSES — CODES AND DESIGN CAPACITIES

A. PROCESS CODE — Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the codes in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided on the form (item II-C).

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.

1. AMOUNT — Enter the amount.

2. UNIT OF MEASURE — For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D80	GALLONS OR LITERS
LANDFILL	D81	ACRE-FEET (the volume that would cover one acre to a depth of one foot), HECTARE-METER (the volume that would cover one hectare to a depth of one meter), or CUBIC METERS
LAND APPLICATION	D82	ACRES OR HECTARES
OCEAN DISPOSAL	D83	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D84	GALLONS OR LITERS

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR OR GALLONS PER HOUR OR LITERS PER HOUR
OTHER (specify for physical, chemical, thermal or biological treatment not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided. Item II-C.)	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
ACRE-FEET	A
HECTARE-METER	H
GALLONS PER DAY	V
LITERS PER DAY	D
TONS PER HOUR	W
METRIC TONS PER HOUR	M
GALLONS PER HOUR	E
LITERS PER HOUR	R
ACRES	J
HECTARES	B

EXAMPLE FOR COMPLETING ITEM II (shown in lines X-1 and X-2 below). A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 2,000 gallons. Each tank is used about 10 times a year to store waste before it is disposed of on-site. The facility also has a permit to burn 30 gallons per hour in an incinerator.

LINE NO.	B. PROCESS DESIGN CAPACITY (1. AMOUNT)	B. (2. UNIT OF MEASURE)	C. PROCESS CODE	D. PROCESS DESCRIPTION (If a code is not entered in D, describe the process here.)
X-1	2,000	G	S02	
X-2	30	E	T03	
1	6000	G	S02	
2	15000	G	S01	
3				
4				
5				
6				
7				
8				
9				
10				

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(continued from the front)

III. PROCESSES (continued)

C. USE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER — Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III-C to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III-C to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the remaining space next to the last code you enter; and (3) Use Page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION — If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number are described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in lines numbered X-1, X-2, X-3 and X-4 below) — A facility will treat and dispose of an estimated 300 pounds of spent solvents from other industries and 200 pounds of its own waste. The facility will treat the mixture of solvents in an incinerator and then dispose of the residue in a landfill. The other wastes are corrosive and can be treated and there will be no residue. Treatment of the corrosive wastes will be in a tank unit.

LINE NO.	A. EPA HAZARDOUS WASTE NO. (Enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (Enter code)	D. PROCESSES 1. PROCESS CODES (Enter code)	D. PROCESSES 2. PROCESS DESCRIPTION (If a code is not entered in D(1))
X-1	[redacted]	300	P	T03	
X-2	D002	200	P	T01	
X-3	D001	100	P	T01	
X-4	D002			000	included with above

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)

W	N	J	D	0	0	2	1	8	6	9	0		1

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W	DUP	2	DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (If a code is not entered in D(1))
1	F017	400	T	S01	
2	F003	100	T	S02	
3	F005				INCLUDED WITH ABOVE
4	D001	50	T	S01	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

Continued from the front.

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

I. EPA I.D. NO. (enter from page 1)														
F	N	J	D	0	0	2	1	8	6	6	9	0	0/4	6

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

VI. PHOTOGRAPHS

All existing facilities must include photographs *(aerial or ground-level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail)*.

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE (degrees, minutes, & seconds)	LONGITUDE (degrees, minutes, & seconds)
40 37 6 N	74 15 25 W

VIII. FACILITY OWNER

☒ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. (area code & no.)
E	

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE
F	G		

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

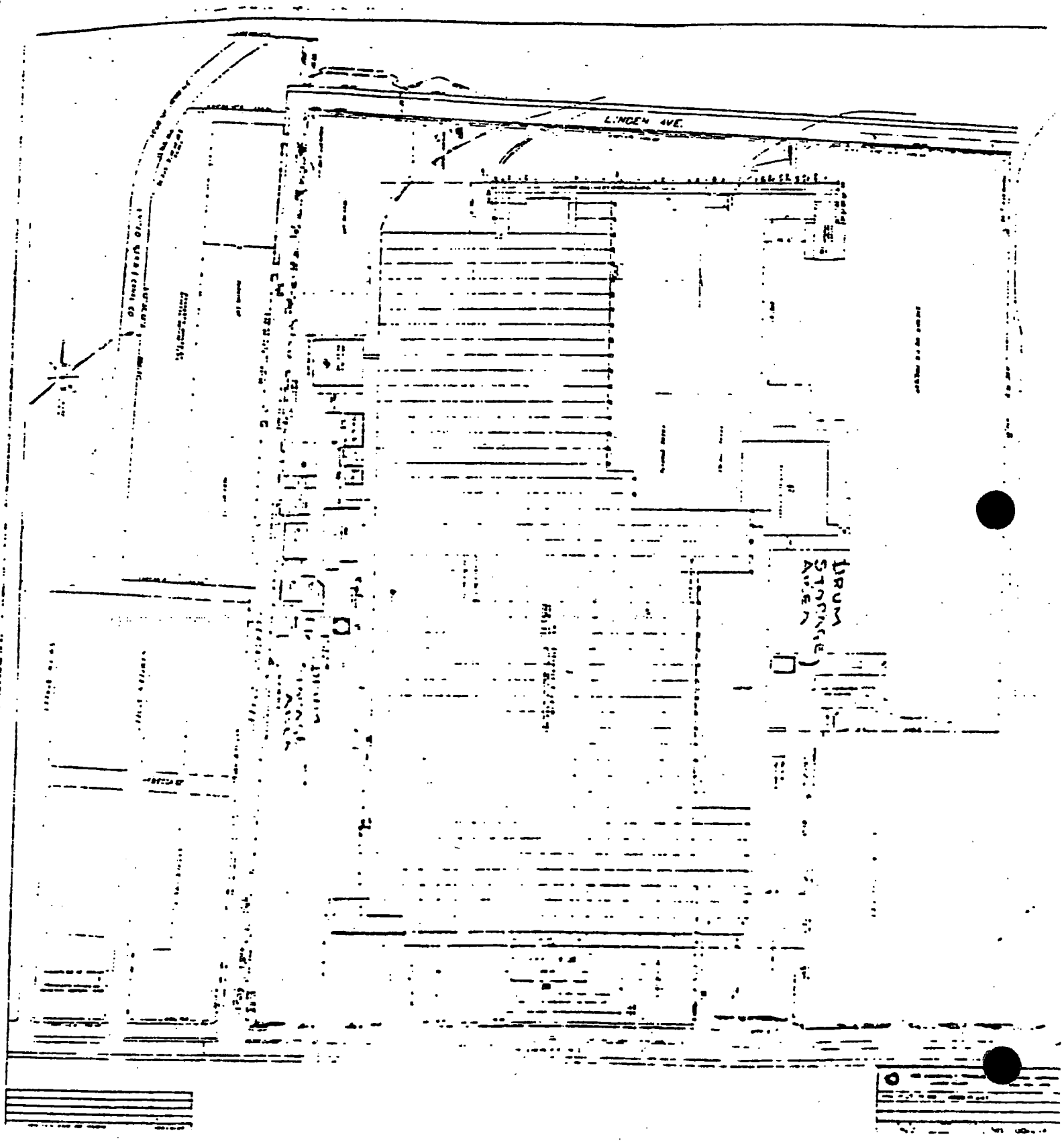
A. NAME (print or type)	B. SIGNATURE	C. DATE SIGNED
P. J. Coletta - GM Assembly Division Vice-President and General Manager	P. J. Coletta	11/17/80

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)	B. SIGNATURE	C. DATE SIGNED

CONTINUE ON PAGE 5


LINDEN AVE.

FORM 1 GENERAL

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

F

LABEL ITEMS

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, a it in the designated space. Review the info ation carefully; if any of it is incorrect, c through it and enter the correct data in appropriate fill-in area below. Also, if any the preprinted data is absent *(the area to left of the label space lists the informat that should appear)*, please provide it in proper fill-in area(s) below. If the label complete and correct, you need not compl items I, III, V, and VI *(except VI-B wh must be completed regardless)*. Complete items if no label has been provided. Refer the instructions for detailed item desc tions and for the legal authorizations un which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTAC
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)				B. Does or will this facility *(either existing or proposed)* include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)			
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)				D. Is this a proposed facility *(other than those described in A or B above)* which will result in a discharge to waters of the U.S.? (FORM 2D)			
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)				F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)			
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)				H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)			
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)				J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)			

III. NAME OF FACILITY

C 1 SKIP

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)* | B. PHONE *(area code & no.)*

C 2

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX

C 3

B. CITY OR TOWN | C. STATE | D. ZIP CODE

C 4

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

C 5

B. COUNTY NAME

C. CITY OR TOWN | D. STATE | E. ZIP CODE | F. COUNTY CODE *(if known)*

C 6

EPA Form 3510-1 (5-80)

CONTINUE IN REVERSE

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST — (specify)

B. SECOND — C 7 — (specify)

C. THIRD — C 7 — (specify)

D. FOURTH — C 7 — (specify)

VIII. OPERATOR INFORMATION

A. NAME — C 8

B. Is the name listed in Item VIII-A also the owner? ☐ YES ☐ NO (60)

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)
F = FEDERAL
S = STATE
P = PRIVATE
M = PUBLIC (other than federal or state)
O = OTHER (specify)
(specify)

D. PHONE (area code & no.) — C A

E. STREET OR P.O. BOX

F. CITY OR TOWN — C 8

G. STATE

H. ZIP CODE

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☐ NO (82)

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water) — C T I 9 N

D. PSD (Air Emissions from Proposed Sources) — C T I 9 P

B. UIC (Underground Injection of Fluids) — C T I 9 U

E. OTHER (specify) — C T I 9 — (specify)

C. RCRA (Hazardous Wastes) — C T I 9 R

E. OTHER (specify) — C T I 9 — (specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED

COMMENTS FOR OFFICIAL USE ONLY

C

FORM 3 RCRA **EPA**

U.S. ENVIRONMENTAL PROTECTION AGENCY

HAZARDOUS WASTE PERMIT APPLICATION

Consolidated Permits Program

(This information is required under Section 3005 of RCRA.)

I. EPA I.D. NUMBER

F

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below *(mark one box only)* to indicate whether this is the first application you are submitting for your facility or revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility EPA I.D. Number in Item I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

☐ 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

☐ 2. NEW FACILITY *(Complete item below.)*

8 | YR. | MO. | DAY | FOR EXISTING FACILITIES, PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*

| YR. | MO. | DAY | FOR NEW FACILITIES, PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION *(place an "X" below and complete Item I above)*

☐ 1. FACILITY HAS INTERIM STATUS

☐ 2. FACILITY HAS A RCRA PERMIT

III. PROCESSES – CODES AND DESIGN CAPACITIES

A. PROCESS CODE — Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the form *(Item III-C)*.

B. PROCESS DESIGN CAPACITY — For each code entered in column A enter the capacity of the process.
1. AMOUNT — Enter the amount.
2. UNIT OF MEASURE — For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER *(barrel, drum, etc.)*	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D79	GALLONS OR LITERS
LANDFILL	D80	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D81	ACRES OR HECTARES
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER *(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)*	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G	LITERS PER DAY	V	ACRE-FEET	A
LITERS	L	TONS PER HOUR	D	HECTARE-METER	F
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

EXAMPLE FOR COMPLETING ITEM III *(shown in line numbers X-1 and X-2 below)*: A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

C | DUP | 1

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT	2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY
X-1	S 0 2	600	G		5				
X-2	T 0 3	20	E		6				
1					7				
2					8				
3					9				
4					10				

III. PROCESSES (continued)

SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04") FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER — Enter the four—digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four—digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non—listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate [illegible] are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:
   For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.
   For non—listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non—listed hazardous wastes that possess that characteristic or toxic contaminant.
   Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non—listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARD. WASTE NO (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K054	900	P	T03 D80	
X-2	D002	400	P	T03 D80	
X-3	D001	100	P	T03 D80	
X-4	D002				included with above

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

I. EPA I.D. NUMBER (enter from page 1)

FOR OFFICIAL USE ONLY

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (If a code is not entered in D(1))
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

IV. DESCRIPTION OF HAZARDOUS WASTES *(continued)*

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

EPA I.D. NO. *(enter from page 1)*

F														T/A	C 6

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail).*

VI. PHOTOGRAPHS

All existing facilities must include photographs *(aerial or ground—level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail).*

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE *(degrees, minutes, & seconds)*	LONGITUDE *(degrees, minutes, & seconds)*

VIII. FACILITY OWNER

☐ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. *(area code & no.)*
E	

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE
F	G		

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED

V. FACILITY DRAWING *(see page 4)*

APPENDIX C

FEDERAL REGISTER REGARDING F017

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 261

[SWH-FRL 1627-3]

Hazardous Waste Management System; Identification and Listing of Hazardous Waste

AGENCY: U.S. Environmental Protection Agency.

ACTION: Final rule and temporary suspension of interim final rule.

SUMMARY: In response to public comment, the Environmental Protection Agency (EPA) today is finalizing the listings of thirteen hazardous wastes from specific sources that were proposed or promulgated in interim final form in the Federal Register on July 16, 1980 (45 FR 47832–47836). In addition EPA is deleting two wastes from its interim final hazardous waste list, and is deferring action on and suspending the effectiveness of nine wastes listed in interim final form on July 16, 1980, as well as deferring action on one waste that was proposed on that date.

EPA is also amending Appendix VII of this Part by finalizing the toxic constituents of concern for each listed waste promulgated today.

DATES: Effective dates: Waste listings promulgated in interim final form on July 16, 1980, which are finalized today, become effective on January 16, 1981. Waste listings which were proposed on July 16, 1980, and which are finalized today, become effective on July 16, 1981

See supplementary information for further details.

ADDRESSES: The public docket for this regulation is located in Room 2711, U.S. Environmental Protection Agency, 401 M Street SW., Washington, D.C. 20460, and is available for viewing from 9:00 a.m. to 4:00 p.m., Monday through Friday, excluding holidays.

FOR FURTHER INFORMATION CONTACT: Dr. Judith S. Bellin, Office of Solid Waste (WH-565), U.S. Environmental Protection Agency, 401 M Street SW., Washington, D.C. 20460, (202) 755-9110

SUPPLEMENTARY INFORMATION: Before discussing the substance of today's action, the Agency wishes to state clearly the regulatory obligations which result from it.

I. Compliance Dates for Regulatory Obligations

A. Notification

1. Finalized Waste Listings Promulgated in Interim Final Form on July 16, 1980.

Persons who generate, transport, treat, store, or dispose of any hazardous waste listed in interim final form on July 16, 1980 which waste listing is now being finalized, are not required to notify EPA as a result of today's action Wastes in this category are hazardous wastes K071, K073, K083, K084, K085, K086, and K087. We do not consider today's action to be a revision of the Section 3001 regulations within the meaning of Section 3010(b). All such persons, of course, should have already notified EPA by or before October 16, 1980.

2. Finalized Waste Listings Which Were Proposed on July 16, 1980.

Persons who generate, transport, treat, store, or dispose of wastes which were proposed for listing on July 16, 1980 which are being finalized today—hazardous wastes K101–K106—are not required to notify so long as they previously have notified the Agency that they handle a hazardous waste and have received an I.D. number. Persons who have not previously notified EPA and who generate or handle these wastes must now notify EPA of their activities under Section 3010 no later than April 16, 1981. Notification instructions are set forth in 45 FR 12746 (February 26, 1980).[1]

B. Other Compliance Dates

Beginning on January 16, 1981, persons handling wastes listed in final form in § 261.32, which listings were promulgated in interim final form on July 16, 1980, must comply with all applicable standards for hazardous waste generators, transporters, and owners or operators of hazardous waste management facilities set forth in 40 CFR Parts 262 through 266 and 122 through 124.

Beginning on July 16, 1981, persons handling wastes listed in final form in § 261.32 which were proposed for inclusion on July 16, 1980, must comply with all applicable standards for hazardous waste generators, transporters, and owners or operators of hazardous waste management facilities set forth in 40 CFR Parts 262 through 266 and 122 through 124.

The owners or operators of all existing hazardous waste management facilities which treat, store or dispose of wastes listed in these regulations which were proposed for inclusion on July 16, 1980, and who wish to qualify for interim status under Section 3005(e) of RCRA, must file a notification by April 16, 1981 unless they have notified previously (as described in A. 2. above), and must file a permit application by July 16, 1981 (see 40 CFR 122.23(a) (1) and (2)).

Owners or operators of facilities who have qualified for interim status and wish to manage wastes listed in the final regulations which were proposed for listing on July 16, 1980 must submit an amended permit application by July 16, 1981 (see 40 CFR 122.23(c)(1)). Owners or operators of facilities with interim status who do not comply with these requirements are precluded from managing these wastes after July 16, 1981.

Table I summarizes the Agency's action on each waste stream discussed in the July 16 Federal Register notice, and gives the effective date of each final regulation.

[1] Our authority for this action is the recent amendment to Section 3010(a) of RCRA contained in the Solid Waste Disposal Act Amendments of 1980 (Pub. L. 96-482 (October 21, 1980)) which amendment leaves the requirement for notification following revision of the Section 3001 regulations to the discretion of the Administrator

Table I.—*Summary of the Agency's Disposition of Each Waste Stream Listed in Interim Final Form or Proposed for Listing on July 16, 1980*

EPA hazardous waste No.	Hazardous waste	Effective date and disposition
	§ 261.31 Hazardous Waste From Nonspecific Sources	
F017	Paint residues or sludges from industrial painting in the mechanical and electrical products industry.	Suspended temporarily
F018	Wastewater treatment sludge from industrial painting in the mechanical and electrical products industry	Suspended temporarily

II. Finalization of §§ 261.31 and Hazardous Waste Lists

On July 16, 1980, EPA amende Subpart D of Part 261 by adding wastes to EPA's hazardous was (§§ 261.31 and 261.32, 45 FR 47 47834). These lists were publish interim final form to allow the p opportunity to comment on add data the Agency had collected o wastes since the close of the ini public comment period on the p Subtitle C regulations (43 FR 58 58959, December 18, 1978).

At the same time, the Agency proposed for comment seven ad hazardous waste listings (45 FR 47836, July 16, 1980). All of thes were identified by the Agency course of developing the propos technical data to support the 1980, interim final hazardous

The Agency received

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 261

[FRL 1539-3]

Hazardous Waste Management System: Identification and Listing of Hazardous Waste

AGENCY: Environmental Protection Agency.

ACTION: Interim final rule.

SUMMARY: The Environmental Protection Agency (EPA) today is amending [illegible] part D of this Part to add eighteen wastes to the final list of [illegible] wastes which the Agency promulgated on May 19, 1980, under Section 3001 of the Resource Conservation and Recovery Act of 1976, as amended (RCRA). The effect of adding these wastes to the hazardous waste list will be to make them subject to the management standards issued by EPA under Sections 3002 through 3006 and 3010 of RCRA (40 CFR Parts 122 through 124 and 262 through 265 and 45 FR 12746).

Additionally, EPA is amending Appendix VII to this Part ("Basis for Listing Hazardous Waste") to include the toxic constituents for which these wastes are being listed and is revising Appendix VIII ("Hazardous Constituents") to add three toxic constituents and to delete one.

DATES: Effective Date: These regulations become effective on January 16, 1981.

Comment Date: EPA will accept public comments on these amendments until September 15, 1980.

Compliance Dates: Persons handling wastes listed in these regulations must notify EPA of their activities under Section 3010 of RCRA no later than October 14, 1980. They may, if they desire, include these wastes in the August 18, 1980, notification triggered by the May 19, 1980, publication of EPA's initial hazardous waste list. Notification instructions are set forth in 45 FR 12746 (February 26, 1980).

Beginning on January 16, 1981, persons handling wastes listed in these regulations must comply with all [illegible] [illegible] promulgated [illegible] generators, transporters and owners and operators of hazardous waste management facilities set forth in 40 CFR Parts 122 through 124 and 262 through 265 (45 FR 33123 (May 19, 1980)).

All existing hazardous waste management facilities (as defined in 40 CFR 122.3) which treat, store or dispose of wastes listed in these regulations and wish to qualify for interim status under Section 3005(e) of RCRA must file a notification by October 14, 1980 and a permit application by January 16, 1981. Facilities which have already qualified for interim status will not be able to handle the wastes listed in these regulations after January 16, 1981 unless they file a notification by October 14, 1980 and submit an amended permit application (see 40 CFR 122.23(c)(1)).

ADDRESSES: Comments should be sent to Docket Clerk (Docket No. 3001), Office of Solid Waste (WH-562), U.S. Environmental Protection Agency, 401 M Street SW., Washington, D.C. 20460.

Public Docket. The public docket for this regulation is located in Room 2711, U.S. Environmental Protection Agency, 401 M Street, SW., Washington, D.C., and is available for viewing from 9 a.m. to 4 p.m. Monday through Friday, excluding holidays. The docket contains background documents which explain the basis for listing these wastes as hazardous.

Copies of the Regulations: Single copies of this regulation will be available approximately thirty (30) days after date of publication (August 15, 1980) from Ed Cox, Solid Waste Information, U.S. Environmental Protection Agency, 26 W. Saint Clair Street, Cincinnati, Ohio 45268, (513) 684-5362. Single copies of EPA's notification instructions and the May 19, 1980, regulations are also available from Mr. Cox.

FOR FURTHER INFORMATION CONTACT: For general information, contact Matthew A. Straus, Office of Solid Waste, U.S. Environmental Protection Agency, 401 M Street, SW., Washington, D.C. 20460, (202) 755-9187. For information on implementation contact:

Region I, Dennis Huebner, Chief, Radiation, Waste Management Branch, John F. Kennedy Building, Boston, Massachusetts 02203, (617) 223-5777.

Region II, Dr. Ernest Regna, Chief, Solid Waste Branch, 26 Federal Plaza, New York, New York 10007, (212) 264-0504/5.

Region III, Robert L. Allen, Chief, Hazardous Materials Branch, 6th & Walnut Streets, Philadelphia, Pennsylvania 19106, (215) [illegible]

Region IV, James Scarbrough, Chief, Residuals Management Branch, 345 Courtland Street, NE., Atlanta, Georgia 30365, (404) 881-3016.

Region V, Karl J. Klepitsch, Jr., Chief, Waste Management Branch, 230 South Dearborn Street, Chicago, Illinois 60604, (312) 886-6148.

Region VI, R. Stan Jorgensen, Chief, Solid Waste Branch, 1201 Elm Street, First International Building, Dallas, Texas 75270, (214) 767-2645.

Region VII, Robert L. Morby, Chief, Hazardous Materials Branch, 324 E. 11th Street, Kansas City, Missouri 64106, (816) 374-3307.

Region VIII, Lawrence P. Gazda, Chief, Waste Management Branch, 1860 Lincoln Street, Denver, Colorado 80203, (303) 837-2221.

Region IX, Arnold R. Den, Chief, Hazardous Materials Branch, 215 Fremont Street, San Francisco, California 94105, (415) 556-[illegible]

Region X, Kenneth D. Feigner, Chief, Waste Management Branch, 1200 Sixth Avenue, Seattle, Washington 98101, (206) 442-1260.

SUPPLEMENTARY INFORMATION:

Additional Listings. On May 19, 1980, as part of its final and interim final regulations implementing Section 3001 of RCRA, EPA published a list of hazardous wastes (Subpart D of this Part), which included 85 process wastes and 381 commercial chemical products (45 FR 33123–33127). In the preamble to that regulation (45 FR 33087), we stated that we intended to amend this list in June to add twenty-five wastes which we had proposed for listing on December 18, 1978 (43 FR 58957–58959) or August 22, 1979 (44 FR 49403–49404), but for which final listing decisions could not be made, and final background documents could not be prepared, in time for the May promulgation (Appendix A, 45 FR 33117–33118).

Eighteen of these wastes are being added to EPA's hazardous waste list today. Included in this supplemental list are wastes from industrial painting and wastes from the production of paint, ink, organic chemicals, inorganic chemicals, veterinary pharmaceuticals, iron and steel, aluminum and ferroalloys. EPA has evaluated all of these wastes against the criteria for listing toxic wastes contained in § 261.11(a)(3) and has determined that they pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, disposed of or otherwise managed.[1]

[illegible] action on six of the wastes listed in Appendix A for the following reasons:

- *Woven fabric dyeing and finishing wastewater treatment sludges.* After further review, we have decided that we have insufficient information on which to go forward with this listing at this time. In addition, waste extraction data submitted by the textiles industry indicates that toxic constituents present in the waste do not migrate from the waste in significant concentrations. Moreover, the toxic constituent of concern (chromium) believed to be present in these wastes is no longer used in the production process in significant quantities.
- *Arsenic bearing sludges from the purification process in the production of antimony oxide.* These [illegible] no longer generated.
- *Wastewater treatment sludge from the diaphragm cell process using graphite anodes in the production of chlorine, wastewater treatment sludge from the production of titanium dioxide pigment using chromium bearing ores by the sulfate process; and antimony-bearing wastewater treatment sludge from the production of antimony oxide.* After further review, we have decided that we have insufficient information on the concentrations and migratory potential of the hazardous constituents of these wastes to list these wastes at this time. The Agency intends, however, to study these wastes further to determine whether they should be listed.
- *Lead-bearing wastewater treatment sludge from gray iron foundries.* We are deferring a final listing decision on this waste pending completion of EPA's ongoing study of wastes generated by the gray iron foundry industry.

In addition to deleting certain wastes, our final support work indicated that we should make additions to the list. Therefore, elsewhere in today's Federal Register, we are proposing to add seven wastes to the hazardous waste list.

Appendix VII. When EPA lists a waste as hazardous because of its toxicity, we identify in Appendix VII to this Part, the toxic constituent which led EPA to list it. Appendix VII is, therefore, being amended to include the toxic constituents of concern for the eighteen wastes promulgated today.

Appendix VIII. EPA's criteria for listing toxic waste [illegible] provide that a waste will be listed if it contains any of [illegible] constituents [illegible] designated in Appendix VIII of this Part unless, after consideration of certain specified factors, the Agency concludes that the wastes does not meet the statutory definition of hazardous waste (see § 261.11(a)(3)). Appendix VIII is a list of toxic constituents which have been shown in reputable scientific studies to have toxic, carcinogenic, mutagenic or teratogenic effects on humans or other life forms.

In developing the supplemental list of wastes published today, the Agency has identified three additional toxicants which have been shown in reputable scientific studies to be of regulatory concern to the Agency and which should, therefore, be included in Appendix VIII. These constituents—aniline, diphenylamine and phenylenediamine—are all [illegible] in distillation bottoms from aniline production and [illegible] [illegible] [illegible] teratogens. A [illegible] the adverse health effects of these compounds [illegible] background document for distillation bottoms from aniline production.

Additionally, one of the toxic constituents currently listed in Appendix VIII—chlorotoluene—is being deleted from Appendix VIII. After further investigation, the Agency has decided that this compound is of low regulatory concern due to its low chronic toxicity and its lack of genetic activity.

Interim Final Provisions. EPA is publishing this list of hazardous wastes and the amendments to Appendices VII and VIII as interim final regulations. This means that, although these regulations are promulgated for purposes of the 90-day notification requirement under Section 3010(a), the six month effective date under Section 3010(b) and the 90-day petition deadline under Section 7006, the public will have an additional opportunity to comment on them prior to publication in final form. EPA has substantially upgraded and revised the background documents for these wastes since they were proposed in December, 1978 and August 1979, and therefore [illegible] additional opportunity to comment is appropriate.

Environmental, Economic, [illegible] Regulatory Impacts

In accordance with Executive Order 12044, as amended by Executive Order [illegible] and Executive Order 12291, [illegible] prepared an Economic Impact Analysis and a Regulatory Analysis of the hazardous waste program. The Agency has also voluntarily prepared an Environmental Impact Statement on the program under the National Environmental Policy Act, 42 U.S.C. [illegible] et seq.

Copies of these documents, [illegible] Reports Impact Analysis and [illegible] Resources Impact Analysis for the hazardous waste regulations [illegible] viewed in all EPA Regional Offices, Libraries, and at EPA headquarters library, Room 2604, 401 M Street, Washington, D.C. 20460.

Dated: July 7, 1980.

Douglas M. Costle,

Administrator.

Title 40 of the Code of Federal Regulations is amended as follows:

1. In § 261.31, add the following waste streams.

§ 261.31 Hazardous waste from nonspecific sources.

Industry	EPA hazardous waste No.	Hazardous waste
Generic	F017	Paint residues or sludges from industrial painting in the mechanical and electrical products industry
	F018	Wastewater treatment sludge from industrial painting in the mechanical and electrical products industry

2. In § 261.32, add the following waste streams:

§ 261.32 Hazardous waste from specific sources.

Industry	EPA hazardous waste No.	Hazardous waste
[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]
	[illegible]	[illegible]
Paint manufacturing	K078	Solvent cleaning wastes from equipment and tank cleaning from paint manufacturing
	K079	Water or caustic cleaning wastes from equipment and tank cleaning from paint manufacturing
	K081	Wastewater treatment sludges from paint manufacturing
	K082	Emission control dust or sludge from paint manufacturing
Organic Chemicals	K083	Distillation bottoms from aniline production
	K085	Distillation or fractionating column bottoms from the production of chlorobenzenes

[1] One waste, solvent cleaning wastes from equipment and tank cleaning from paint manufacturing, is also being listed because it exhibits EPA's ignitability characteristic. See § 261.21(a)(1). Two wastes, Numbers 10 and 11 in Appendix A, 45 FR 33118 have been combined into one listing.

further review, we have decided that we have insufficient information on which to go forward with this listing at this time. In addition, waste extraction data submitted by the textiles industry indicates that toxic constituents present in the waste do not migrate from the waste in significant concentration. Moreover, the toxic constituent of concern (chromium) believed to be present in these wastes is no longer used in the production process in significant quantities.

• *Arsenic-bearing sludges from the purification process in the production of antimony oxide.* These wastes are no longer generated.

• *Wastewater treatment sludge from the diaphragm cell process using graphite anodes in the production of chlorine; wastewater treatment sludge from the production of titanium dioxide pigment using chromium-bearing ores by the sulfate process; and antimony-bearing wastewater treatment sludge from the production of antimony oxide.* After further review, we have decided that we have insufficient information on the concentrations and migratory potential of the hazardous constituents of these wastes to list these wastes at this time. The Agency intends, however, to study these wastes further to determine whether they should be listed.

• *Lead-bearing wastewater treatment sludge from gray iron foundries.* We are deferring a final listing decision on this waste pending completion of EPA's ongoing study of wastes generated by the gray iron foundry industry.

In addition to deleting certain wastes, our final support work indicated that we should make additions to the list. Therefore, elsewhere in today's Federal Register, we are proposing to add seven wastes to the hazardous waste list.

Appendix VII. When EPA lists a waste as hazardous because of its toxicity, we identify, in Appendix VII to this Part, the toxic constituent which led EPA to list it. Appendix VII is, therefore, being amended to include the toxic constituents of concern for the eighteen wastes promulgated today.

Appendix VIII. EPA's criteria for listing toxic waste (T) provide that a waste will be listed if it contains any of a number of toxic constituents designated in Appendix VIII of this Part, unless, after consideration of certain specified factors, the Agency concludes [illegible]

In developing the supplemental list of wastes published today, the Agency has identified three additional toxicants which have been shown in reputable scientific studies to be of regulatory concern to the Agency and which should, therefore, be included in Appendix VIII. These constituent aniline, diphenylamine and phenylenediamine—are all contained in distillation bottoms from aniline production and have been shown to be either toxic or experimental carcinogens or teratogens. Additional information on the adverse health effects of these compounds is contained in the listing background document for distillation bottoms from aniline production.

Additionally, one of the toxic constituents currently listed in Appendix VIII—chlorotoluene—is being deleted from Appendix VIII. After further investigation, the Agency has decided that this compound is of low regulatory concern due to its low chronic toxicity and its lack of genetic activity.

Interim Final Provisions. EPA is publishing this list of hazardous wastes and the amendments to Appendices VII and VIII as interim final regulations. This means that, although these regulations are promulgated for purposes of the 60-day notification requirement under Section 3010(a), the six month effective date under Section 3010(b) and the 90-day petition deadline under Section 7006, the public will have an additional opportunity to comment on them prior to publication in "final" final form. EPA has substantially updated and revised the background documents for these wastes since they were proposed in December 1978 and August 1979, and therefore feels that additional opportunity for comment is appropriate.

Environmental, Economic, and Regulatory Impacts

In accordance with Executive Order 11821, as amended by Executive Order 11949, and Executive Order 12044, EPA has prepared an Economic Impact Analysis and a Regulatory Analysis of the hazardous waste program. The Agency has also voluntarily prepared an Environmental Impact Statement of this program under the National Environmental Policy Act, 42 U.S.C. 4321 *et seq.*

Copies of these documents and EPA's Reports Impact Analysis and Operations Resources Impact Analysis for all of the hazardous waste regulations may be viewed in all EPA Regional Office Libraries, and at EPA headquarters library, Room 2404, 401 M Street SW., Washington, D.C. 20460.

Dated July 7, 1980.

Douglas M. Costle,

Administrator.

Title 40 of the Code of Federal Regulations is amended as follows.

1. In § 261.31, add the following waste streams:

§ 261.31 Hazardous waste from nonspecific sources.

Industry	EPA hazardous waste No.	Hazardous waste	Hazard code
Generic	F017	Paint residues or sludges from industrial painting in the mechanical and electrical products industry	(T)
	F018	Wastewater treatment sludge from industrial painting in the mechanical and electrical products industry	(T)

2. In § 261.32, add the following waste streams:

§ 261.32 Hazardous waste from specific sources.

Industry	EPA hazardous waste No.	Hazardous waste	Hazard code
Inorganic Chemicals	K071	Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used.	(T)
	K073	Chlorinated hydrocarbon wastes from the purification step of the diaphragm cell process using graphite anodes in chlorine production.	(T)
	K074	Wastewater treatment sludges from the production of TiO_2 pigment using chromium bearing ores by the chloride	(T)

Industry	EPA hazardous waste No.	Hazardous waste	Hazard code
Ink Formulation	K086	Solvent washes and sludges, caustic washes and sludges or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead	(T)
Veterinary Pharmaceuticals	K084	Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds	(T)
Coking	K087	Decanter tank tar sludge from coking operations	(T)
Primary Aluminum	K088	Spent potliners from primary aluminum reduction	(T)
Ferroalloys	K090	Emission control dust or sludge from ferrochromium silicon production	(T)
	K091	Emission control dust or sludge from ferrochromium production	(T)
	K092	Emission control dust or sludge from ferromanganese production	(T)

3. In Appendix VII (Basis for Listing Hazardous Waste) add the following after F018:

EPA hazardous waste number	Hazardous constituents for which listed
F017	Cadmium, chromium, lead, cyanides, toluene, tetrachloroethylene
F018	Cadmium, chromium, lead, cyanide, toluene, tetrachloroethylene

4. In Appendix VII (Basis for Listing Hazardous Waste) add the following after K069:

EPA hazardous waste number	Hazardous constituents for which listed
K071	Mercury
K073	Chloroform, carbon tetrachloride, lead, chloroethane, trichloroethene, tetrachloroethylene, trichloroethylene, 1,1,2,2-tetrachloroethane
K076	Chromium
K078	Chromium, lead
K079	Lead, mercury, benzene, carbon tetrachloride, methylene, chloride, tetrachloroethylene, naphthalene, diethyl phthalate, di-n-butylphthalate, toluene
K081	Chromium, lead, mercury, nickel, methylene chloride, toluene
K083	Antimony, cadmium, chromium, lead, nickel, silver, cyanides, phenol, mercury, pentachlorophenol, vinyl chloride, 3,3'-dichlorobenzidene, naphthalene, diethylhexylphthalate, di-n-butylphthalate, benzene, toluene, carbon tetrachloride, methylene chloride, trichloroethylene
K083	Aniline, nitrobenzene, diphenylamine, phenylenediamine
K084	Arsenic
K086	Benzene, monochlorobenzene, dichlorobenzenes, trichlorobenzenes, tetrachlorobenzene, pentachlorobenzene, hexachlorobenzene, benzyl chloride
K088	Chromium, lead
K087	Phenol, naphthalene
K088	Cyanide (complexed)
K090	Chromium
K091	Chromium, lead
K092	Chromium, lead

5. In Appendix VIII (Hazardous Constituents) add the following constituents alphabetically:

— aniline
— diphenylamine
— phenylenediamine

6. In Appendix VIII (Hazardous Constituents) delete:

— chlorotoluene, N.O.S.

[FR Doc. 80-21169 Filed 7-15-80; 8:45 am]
BILLING CODE 6560-01-M

RCRA CLOSURE PLAN - SUPPLEMENTAL SOIL SAMPLING AT CONTAINER STORAGE AREA #1 GENERAL MOTORS CORPORATION 1016 WEST EDGAR ROAD LINDEN, NEW JERSEY EPA ID NUMBER NJD-002-186-690

NOVEMBER, 1991

PREPARED FOR
GENERAL MOTORS CORPORATION
LINDEN, NEW JERSEY

PREPARED BY
CORPORATE ENVIRONMENTAL ENGINEERING INC
FLEMINGTON, NEW JERSEY

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Appendix B Part A Permit
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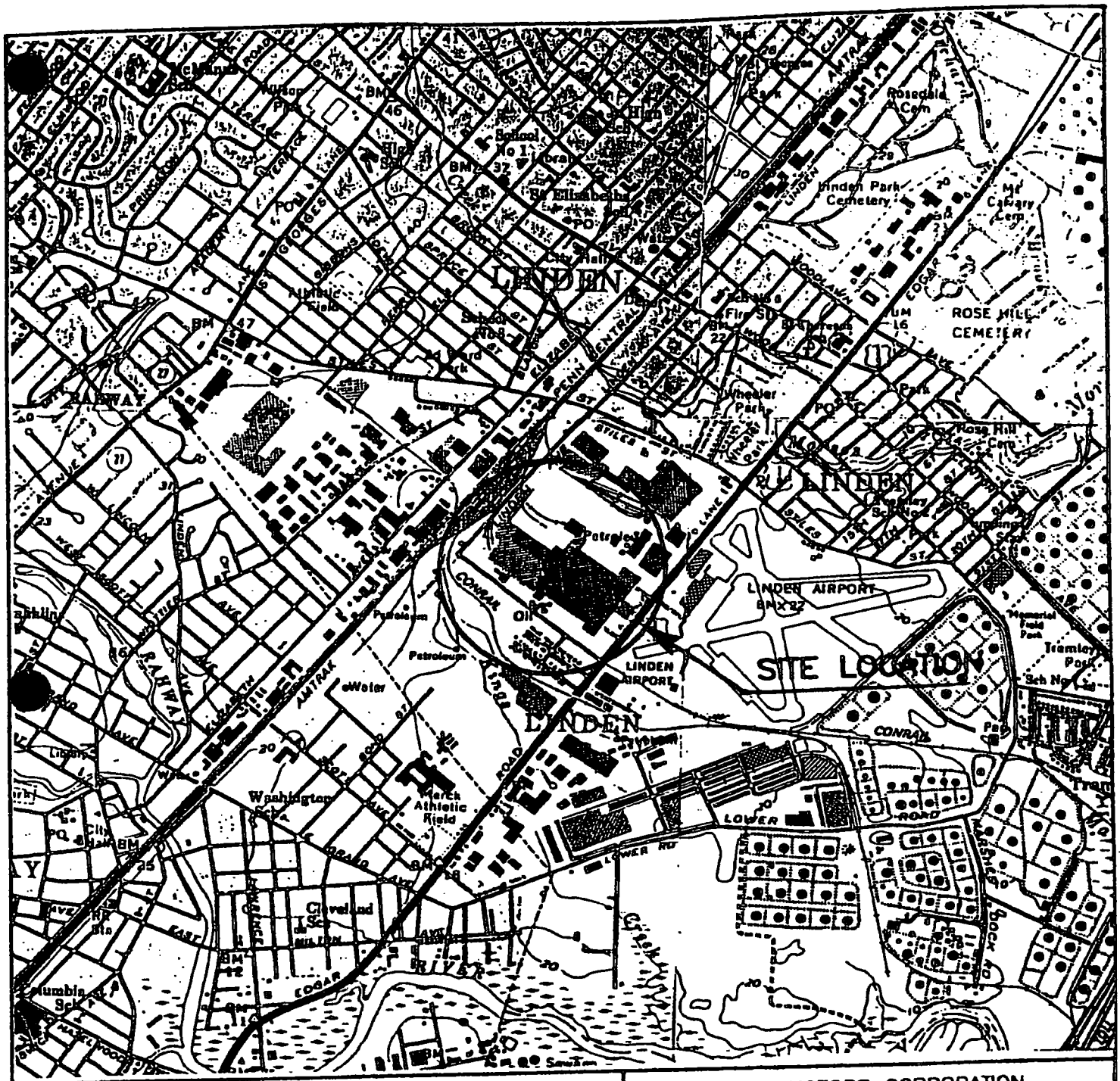
1.0 INTRODUCTION

Pursuant to the U.S. EPA Standards for Owners and Operators of Hazardous Waste Treatment Storage and Disposal Facilities (40 CFR, Part 265, Subpart G) and the New Jersey Administrative Code (NJAC) 7:26 - 9.8, General Motors Corporation, Linden, New Jersey (G.M., Linden) developed a facility Closure Plan for three regulated storage units in November 1988. The plan was approved by the New Jersey Department of Environmental Protection and Energy (NJDEPE) on August 15, 1989, implemented, and the results submitted to the NJDEPE in January 1990. The NJDEPE's August 15, 1989 approval required investigations at only two storage units. In April 1991 the NJDEPE Bureau of Hazardous Waste Engineering informed General Motors that additional soil sampling was necessary at the former Container Storage Area #1 while the other unit undergoing closure, the Waste Thinner Storage Tank, was considered closed. NJDEPE oversite of the additional sampling was transferred to the Bureau of Metro Enforcement in February 1991.

This current plan addresses the NJDEPE's request for additional sampling. This plan is designed specifically to fulfill the requirements of N.J.A.C. 7:26 - 9.8 to achieve Clean Closure of Container Storage Area #1.



QUADRANGLE MAP (TOPOGRAPHIC) Perth Amboy, Arthur Kill Roselle, Elizabeth

SCALE: 1 = 24000

DATE: 4-25-91

DRAWN BY: WLH

APPROVED BY: JS

SHEET No. Figure 1

N

GENERAL MOTORS CORPORATION
WEST EDGAR ROAD,
LINDEN, NW JERSEY

CEE

CORPORATE ENVIRONMENTAL ENGINEERING INC
LIBERTY COURT, SUITE 1000
260 HIGHWAY 202 & 31
FLEMINGTON, N.J. 08822

2.0 BACKGROUND

2.1 Historical Information

Container Storage Area #1 was one of three units included on a 1980 Part A permit application. (Appendix B.) Container Storage Area #1 is a paved 20 x 20 right triangle area defined by chain link fence posts cut flush to the current pavement. During active use it had a maximum storage capacity of about 45 drums. The pad is in a currently active traffic area adjacent to G.M. Linden's solid waste handling operations. The macadam surface was originally installed in 1965 and although complete resurfacing has not occurred, patching has occurred as necessary. Paving was found to be 3 to 6 inches thick during the previous closure soil sampling in the vicinity of the pad. Waste has not been stored on this storage pad since 1984.

2.2 Wastes Stored

The 1980 RCRA Part A permit indicates that D001 and F017 wastes were permitted for storage in drums on Container Storage Area #1. F017 became a non-source specific waste regulating "paint residues or sludges from industrial painting in the mechanical and electrical products industry" on July 16, 1980 (Federal Register Vol. 45, No. 138, pages 47832-47834). The basis for listing was the presence of cadmium, chromium, lead, cyanides, toluene and tetrachloroethylene in the waste. F017 was temporarily suspended on January 16, 1981 (Federal Register Vol. 46, No. 11, page 4614), and has never been re-instated. The text of the suspension states that F017 was, in fact, "delisted" from its "interim final" status which was initiated on July 16, 1980. These situations are presented in Appendix C.

2.3 Constituents of Concern

A comparison of G.M. Linden's records with the regulatory definition of D001, conducted by CEE, indicates that this facility's D001 wastes should consist of only volatile organic compounds. It is not likely the D001 wastes stored in this area contained spent solvents and the like since G.M. Linden separately stores, generates and disposes of wastes such as F003 and F005. Volatile organics are the only constituents of concern associated with D001 waste.

As previously stated, F017 is a former hazardous waste code based on the presence of cadmium, chromium, lead, cyanides, toluene and tetrachloroethylene in the waste. These six constituents would represent the only potential for concern associated with this waste for the closure of Container Storage Area #1.

3.0 ENVIRONMENTAL CHARACTERISTICS

The G.M. Linden facility is an area of heavy industrial use with nearby land use including petroleum refining and an air transportation terminal. The USDA Soil Conservation Service maps G.M. Linden, and portions of the adjacent area, in a large unit officially designated as Urban Land. The Urban Land unit is nearly level with only 10% undisturbed soil and greater than 90% surface coverage by asphalt, concrete, buildings and other impervious surfaces. According to the USDA mapping, "the undisturbed soils are commonly similar to soils in surrounding or nearby mapping unit[s]." The following is a brief discussion of the nearby mapping units.

The Linden Airport is located adjacent to G.M. Linden on the opposite side of Route 1. The terminal building and nearby paved parking are designated Urban Land, while the remainder of Linden Airport belongs to the Udorthents, Loamy unit. The USDA description of Udorthents, Loamy includes "urban land, filled land, sanitary landfill and udorthents over tidal marsh in the easternmost portion of the county." A large portion of the oil refinery adjacent to Linden Airport bares this same designation.

Another nearby unit primarily assigned to the Exxon oil refinery is Udorthents, Organic Substratum which consists of "sanitary landfill, areas of undisturbed tidal marsh, udorthents-loamy and urban land". The Newark Airport, Port Authority and oil refineries are assigned this unit designation. The soils are generally highly varied fill materials over tidal marsh.

A unit of Udorthents, Waste Substratum is identified one half mile south of Linden Airport, and about one mile from G.M., Linden. It is bounded to the north and east by the Exxon oil refinery and to the south and west by Kings Creek and the Rahway River. According to the USDA "this unit consists of areas that have been used for disposing of refuse. It is a combination of highly variable fill material and refuse which consists of brick, glass, cement, wood, wire, asphalt, plastic containers, cans and other material objects."

Nearby units of undisturbed or non-fill designations are generally associated with surface water, discussed below, or an historic cemetery about 1 mile northeast of G. M., Linden.

While G.M., Linden's designation is Urban Land, it is apparent from the USDA mapping that impervious surface coverage takes precedent over the distinguishing elements of adjacent soil units in the delineation of the Urban Land unit. Given this, it is likely that the varied fill defined adjacent to G.M., Linden continues under G.M. Linden. This conclusion is supported by the debris, including glass, metal and plastic fragments, encountered during the initial sampling.

Bedrock is about 30 - 40 feet below grade and bedrock surface slopes northwest in a buried-valley below G.M. Linden (Nemickas, 1974). G.M. Linden is near the bottom of the Arthur Kill watershed. It is approximately 30 feet above mean sea level. There are two nearby streams: Kings Creek is less than half of a mile to the south and flows to the Rahway River, and Morses Creek is less than half a mile to the north and flows to the Morses River. Both rivers discharge to the Arthur Kill, approximately 3 miles east of G.M., Linden.

4.0 PREVIOUS SAMPLING AND DISCUSSION

Soil samples for the closure of Container Storage Area #1 were collected November 28, 1989. In accordance with the NJDEPE approved Closure Plan, the samples were analyzed for Target Compound List (TCL) metals, volatile organic compounds (VOC) +10 and semi-volatile organic compounds (SV) +20. The sampling was audited by NJDEPE Bureau of Environmental Measurement and Quality Assurance (BEMQA) field auditor Fred DeClement. No deficiencies were noted during the audit according to Mr. DeClement's November 30, 1989 memorandum. BEMQA also reviewed the laboratory's Quality Assurance/Quality Control data and accepted the sampling results. RCRA closure specific results are summarized in Table 4.0.

4.1 Volatile Organic Compounds

All target sample results were not detected (N.D.) for all VOC except acetone which was detected in five of the six soil samples and the Field Blank, but not the laboratory prepared Trip Blank. The acetone ranged from 52 micrograms/kilograms (ug/kg) to 100 ug/kg in the soil samples and 210 ug/kg in the field blank. Acetone was used to decontaminate field equipment during the sampling which is believed to be the source of this result.

Further, these results do not represent an environmental concern since acetone is listed as Hazardous Waste U002 in NJAC 7:26 - 8.15 solely for the characteristic of ignitability, which would not be displayed by the levels of acetone identified in the soils sampled. These results do not require action relative to closure at this unit since acetone is not a constituent of F017 and the levels of acetone identified do not represent an environmental concern associated with D001 wastes.

4.2 Metals

Metal results are compared to NJDEPE guidance for Priority Pollutant Metals since the NJDEPE has not established guidance for all TCL metals. Cadmium, chromium and lead are the only metals associated with the RCRA wastes stored in this storage area. Other metals were detected at levels above those found at off-pad locations BH1 and BH6, but are not associated with wastes stored at Container Storage Area #1. The potential source, or impact, of metals other than cadmium, chromium and lead will not be discussed herein since these are not Closure related issues.

Cadmium was detected at all six soil sample locations. The off-pad levels were 6.7 milligrams/kilogram (mg/kg) and 4.2 mg/kg in samples BH-1 and BH-6, respectively. Three storage area samples fell in this general range while sample location BH-5 yielded the highest result of 12.7 mg/kg cadmium. The NJDEPE guidance value for cadmium is 3 mg/kg, further sampling is proposed to determine if cadmium represents an environmental concern in this area.

Chromium results ranged from 42 mg/kg at location BH-5, to 21 mg/kg at location BH-4. All levels are below the NJDEPE 100 mg/kg guide line and do not represent an environmental concern. No further investigation of chromium is warranted.

Off-pad lead sampling yielded 1530 mg/kg and 1300 mg/kg lead, while the storage area lead samples yielded 6430 mg/kg, 2340 mg/kg, 1110 mg/kg and 8300 mg/kg. The two highest results occurred at locations BH-5 and BH-2 which are nearest to each other at the former pad boundary. The NJDEPE guidance value for lead is 500 mg/kg, further sampling is proposed to determine if lead represents an environmental concern in this area.

4.3 Semi-Volatiles

SV were detected in the initial closure soil sampling. However, SV are not related to RCRA wastes stored at this unit as discussed in Section 2.0. SV are not an issue for the closure of Container Storage Area #1.

General Motors - Linden Plant
Soil Analytical Summary
Table 4.0

NJDEPE Guidance Value*	Parameter	BH1	BH1D	BH2	BH3	BH4	BH5	BH6	Field Blank	Trip Blank
10	Antimony	23	7	71	15	9	49	19	ND	NA
20	Arsenic	8	4	21	6	7	8	7	ND	NA
400	Barium	697	707	796	1,640	828	1,940	539	ND	NA
1	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	NA
3	Cadmium	7	6	5	7	6	13	4	ND	NA
100	Chromium	37	28	26	31	21	42	31	ND	NA
170	Copper	80	81	166	184	191	391	102	ND	NA
500	Lead	1,300	1,290	6,430	2,340	1,110	8,300	1,530	0.013	NA
100	Nickel	34	30	26	36	26	46	28	ND	NA
1	Mercury	0.44	0.41	0.32	0.15	0.34	0.53	ND	ND	NA
4	Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND
100	Vanadium	32	25	24	32	23	30	53	ND	NA
350	Zinc	778	703	1,340	5,210	929	2,550	320	0.085	NA
**	SV	51.1	34.8	147.5	134.3	22.4	230.9	21.6	ND	NA
**	Acetone	0.06	0.09	0.06	0.1	0.05	0.1	ND	0.021	ND

Samples Collected
November 28-29, 1989

ND - Not Detected
NA - Not Analyzed
* - Based on commonly used NJDEPE soil evaluation criteria. Earliest reference found is the NJDEPE's Bureau of Industrial Site Evaluation, June, 1986 list of Action Levels in use.
Units - milligrams per kilogram (mg/kg)
SV - Semi-Volatiles
VOC - Volatile Organic Compounds
D - Duplicate Analysis
** - Guidance values determined on a case by case basis.

5.0 PROPOSED SAMPLING

The proposed sampling is based on discussions with the NJDEPE at the June 18, 1991 meeting. G.M. Linden's November 1988 Closure Plan, which was approved by the NJDEPE and the results scrutinized and accepted by the NJDEPE, included full TCL metals, VOC+10 and SV+20. The proposed sampling plan is based on locations, depths and parameters suggested by the NJDEPE on June 18, 1991. One randomly selected off-pad location will be advanced by continuous split spoon to the water table for the purpose of logging site geology.

Constituents to be analyzed and their applicability to closure are presented in Table 5.0. Although antimony, barium, cadmium, lead, zinc, VOC+10 and SV+20 are proposed, only the cadmium, lead and VOC are applicable to the closure requirements for Container Storage Area #1. All other sampling results are for other purposes as per the separate "Fenceline Soil Sampling Plan". Sample locations GMR1 through 4 will be considered local background for RCRA closure parameters and compared with GMR5 and 6 and samples previously collected within the defined limits of Container Storage Area #1.

Two separate reports will be prepared from this one sampling event. One report will address only cadmium, lead and VOC+10 and will be used for closure acceptance. The second report will include all parameters analyzed and is for a separate and distinct investigation, as discussed in the "Fenceline Soil Sampling Plan", divorced from closure activities. Limiting the scope of the closure sampling to lead, cadmium and VOC is consistent with discussions at the July 18, 1991 meeting and closure requirements under RCRA.

No VOC were detected excluding the acetone attributable to sampling activities. However, as per discussions with NJDEPE on July 18, 1991, VOC sampling will be conducted at all locations 18-24 inches below the bottom of the asphalt.

Based on the initial soil sampling, antimony, barium, cadmium, lead and zinc will be sampled 6-12 inches and 18-24 inches below the bottom of the asphalt in all locations. However, the only metals of concern for closure are lead, cadmium and chromium, all of which are associated with F017. Chromium was not found to be an environmental concern during the first round of sampling and additional analyses are not warranted. Lead and cadmium are the only metals associated with Container Storage Area #1 warranting further investigation.

SV will be sampled at all locations 6-12 and 18-24 inches below the bottom of the asphalt. However, SV are not associated with Container Storage Area #1. No further SV sampling is warranted for closure of this unit.

5.1 Collection and Analysis

Samples will be collected and preserved in accordance with NJDEPE protocol as outlined in Appendix A. All samples will be analyzed by the most current methods of SW846 by Envirotech Research, New Jersey, (Certified Laboratory Number 12543). Analytical results will be submitted in accordance with the requirements of SW846, latest edition as requested in the NJDEPE's August 15, 1989 correspondence.

5.2 Schedule

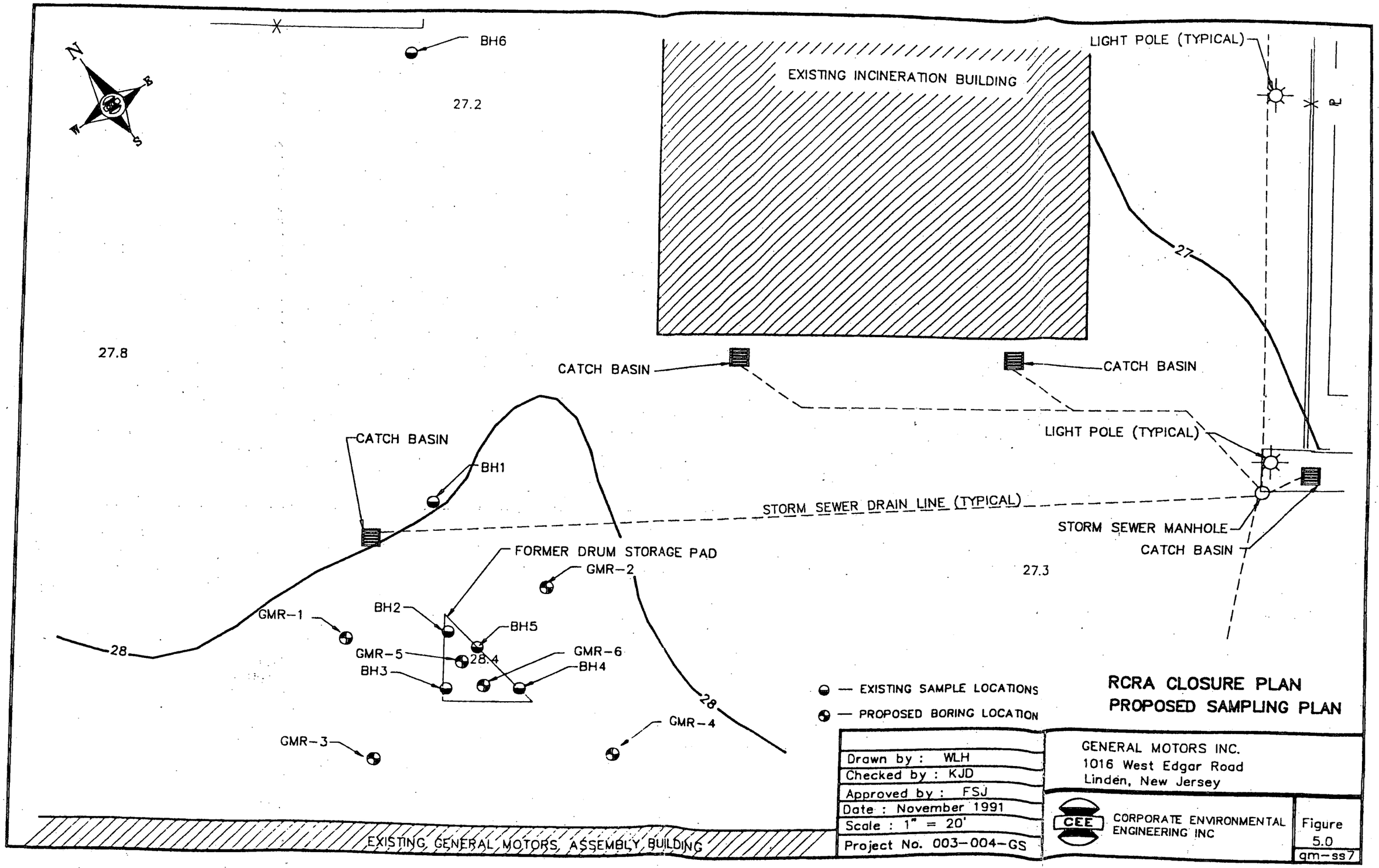
The proposed sampling will be implemented within 30 days of receipt of written approval of this plan by NJDEPE. The results of the proposed sampling will be submitted to the NJDEPE within 100 days of receipt of written approval by NJDEPE.

General Motors - Linden Plant
RCRA Closure - Storage Pad
Proposed Sampling, August 1991
Table 5.0

Analysis	Sampling Interval 6 to 12 inches Below Paving	Sampling Interval 18 to 24 inches Below Paving	Required for Closure
Antimony	X	X	
Barium	X	X	
Cadmium	X	X	X
Lead	X	X	X
Zinc	X	X	
VOC+10	Complete*	X	X
SV+20	X	X	

Depth intervals applicable to all sampling locations.

VOC+10 - Volatile Organic Compounds plus library search of next 10 compounds.
SV+20 - Semi-Volatile Organic Compounds plus library search of next 20 compounds.
* - Previously implemented sampling, approved by NJDEPE, included full TCL analysis in this interval.



RCRA CLOSURE PLAN
PROPOSED SAMPLING PLAN

Drawn by : WLH	GENERAL MOTORS INC.
Checked by : KJD	1016 West Edgar Road
Approved by : FSJ	Linden, New Jersey
Date : November 1991	CEE CORPORATE ENVIRONMENTAL ENGINEERING INC
Scale : 1" = 20'	Figure 5.0
Project No. 003-004-GS	gm-ss7

6.0 REFERENCES

Nemickas, B., 1974. Bedrock Topography and Thickness of Pleistocene Deposits in Union County and Adjacent Areas, New Jersey: U.S. Geological Survey, Map I-795 (2 maps).

USDA Soil Conservation Service. Soil Survey of Union County, New Jersey, Maps 6, 7, 9 and 10. Final survey currently being compiled.

APPENDIX A

SOIL QUALITY ASSURANCE QUALITY CONTROL PLAN

Quality Assurance Quality Control Plan
for Ground Water and Aqueous Materials

I. GROUND WATER

A. Objective and Site Specific QA/QC Plan

1.0 Sampling Methods

1.1 Sample Preparation
1.2 Sample Handling and Labeling
1.3 Sample Filtration and Preservation

2.0 Sampling Equipment

2.1 Sample Containers
2.2 Equipment Decontamination

3.0 Quality Assurance

3.1 Chain of Custody
3.2 Quality Assurance Samples
3.2.1 Trip and Field Blanks
3.2.2 Duplicate Samples

4.0 Laboratory Methodology

4.1 Laboratory Deliverables

I. GROUND WATER AND AQUEOUS SAMPLING

A. QUALITY ASSURANCE/QUALITY CONTROL PLAN

The objective of this QA/QC Plan is to outline a Ground Water and Aqueous Sampling and analysis Program (SSAP) which ensures the reliability of data collected and analyzed during remedial investigations performed by CEE personnel.

1.0 Ground Water Sampling Methods

Samples are collected at the well locations or surface water locations as described in the sampling plan set forth in this document. Procedural changes dictated by field conditions are fully documented in the field notes and in the report of results.

Accurate field notes are maintained on field data sheets or in a bound filed notebook. Information recorded includes but is not limited to:

a. Well Number and/or sample location sketch;
b. Aqueous sample description;
c. Sample time;
d. Sample date;
e. Depth to ground water;
f. Depth to bottom of well;
g. Height of water column;
h. Volume of water purged from well;
i. General comments, including any modification or deviation from the Site Sample and Analysis Plan (SSAP).

1.1 Sample Preparation

All aqueous samples are transferred immediately after collection into sample bottles selected by parameter as listed in section 2.1 of this plan. Samples collected for Volatile Organic Analysis in addition to other parameters are placed in collection vials first as required by the NJDEP. The remaining portion of the sample is then placed in the appropriate containers.

1.2 Sample Handling and Labeling

Disposable gloves are utilized during sample collection to reduce the potential for crossed contamination between samples and as Personal Protective Equipment (PPE) in accordance with OSHA requirements set forth in 29 CFR 1910.120. Disposable gloves are changed between sample locations if they come in contact with the aqueous sampling medium.

All samples are packed on ice immediately following collection and will be kept cool until delivery to the laboratory. All samples are labeled with the following information:

a. sample number;
b. date and time of collection;
c. site name;
d. sample depth;
e. sample collector's initials;
f. analysis requested.

1.3 Sample Filtration and Preservation

Samples analyzed for metals are field filtered and preserved immediately after sample collection in accordance with EPA criteria as listed below.

a. filtering through a cleaned dedicated 0.45 micron filter or similar dedicated disposable 0.45 micron filter,

b. adjust pH of sample to < 2.0 with nitric acid.

2.0 Ground Water Sampling Equipment

In general, the following equipment is used for obtaining ground water samples from monitor wells and for the measurement and purging of wells prior to sampling.

a. Teflon, bottom loading, single check valve bailers equipped with dedicated stainless steel or Teflon leaders,
b. Field Filtering Equipment, etc.
c. M-Scopes,
d. Portable pumps and piping.

Additional aqueous sampling equipment for specific surface water or other aqueous sampling equipment varies according to task and is outlined within the SSAP.

2.1 Sample Containers

Sample bottles used for CEE projects are prepared in accordance with NJDEP criterion for the respective sample parameters by the contract laboratory as listed within the NJDEP Field Sampling Procedures Manual, Section IV, Table 4. and in accordance with EPA criterion for Metals, Volatile Organics and Base Neutral Extractables listed within "Standard Methods for the Examination of Water and Wastewater", latest edition, APHA; "EPA Manual of Methods for Chemical Analysis of Water and Wastes", 1972 as amended; "EPA Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods" (SW-846), or other methods approved by EPA.

The type and size of sample containers required for ground water and aqueous sampling include:

a. Petroleum hydrocarbons - 500 ml glass jars with Teflon liner closures;

b. Volatile Organic Compounds - 40 ml glass vials with Teflon septa and plastic closures;

c. Base Neutral/Acid Extractable Organic Compounds - 500 ml glass jars with Teflon lined closure;

d. PCB & Pesticides - 500 ml glass jars with Teflon lined closure;

e. Priority Pollutant Metals - 500 ml glass or plastic jars with Teflon lined closure;

2.2 Equipment Decontamination

All equipment which comes into contact with the aqueous samples is cleaned prior to use in the following manner:

a. detergent wash;(Alconox)
b. tap water rinse;
c. distilled/deionized water rinse;
d. 10% nitric acid rinse[1];
e. distilled/deionized water rinse;
f. methanol or acetone rinse;
g. air dry;
h. distilled/deionized water rinse.

Field equipment which is re-used on the project site is decontaminated in accordance with the methods described above.

---

[1] 10% Nitric Acid (HNO_3) rinse only applies to sampling equipment used on samples to be analyzed for metals.

3.0 Quality Assurance

3.1 Chain of Custody

Chain of custody is maintained for all samples. Chain of custody originates with the collection of the samples and is maintained until the samples are relinquished to the laboratory. The chain of custody form details the sampler's name and organization, the site location, sample designation, the time and date of sample collection, sample depth, sample analysis and all custody changes with their appropriate signatures.

Request for analysis forms are implemented prior to the submission of samples to the designated laboratory if additional conditions other than those specified on the chain of custody apply. They detail; the site name, sample designation, date of sampling, date of request, priority, and analytic parameters.

3.2 Quality Assurance Samples

3.2.1 Trip and Field Blanks

In order to place control on sample handling and to determine if contamination may have occurred to samples in transit or in the laboratory, trip blanks are supplied by the analytical laboratory when required under the sampling protocols for Volatile Organics of the regulatory agency. Trip blanks consist of a set of 40 ml sample containers filled with laboratory demonstrated, analyte-free water. The sample containers themselves are not opened in the field. Rather, they travel with the sample collector and are analyzed in the same manner as the Volatile Organic samples acquired that day.

Trip blank results are evaluated when the analytical data returns. Corrections in field procedures are made according to various trends found in the data. Trip blank results are also used in the data validation process.

Field blanks are prepared on every day samples are collected in most cases. Deviations may occur concerning the frequency of field blank collection based upon the number of sample and sampling days and the protocols of the governing regulatory agency. Distilled/deionized analyte-free water provided by the laboratory is poured over sample equipment into laboratory prepared bottles. Field blanks were analyzed for the most comprehensive analysis required for samples collected on that day.

3.2.2 Duplicate Samples

Duplicate samples are collected at randomly selected locations at a frequency of approximately 5% for analysis of the corresponding sample parameters for quality

assurance purposes as required by the NJDEP under special conditions. If duplicate samples are to be utilized during a project, it is so noted in the Soil Sampling and Analysis Plan.

4.0 Analytical Methodology

Soil, solid and semi-solid sample methodologies vary on a case by case basis. Therefore, specific analytical parameters for each case are indicated within the SSAP Sample Summary Table(s). All laboratory analyses are conducted in accordance with "Standard Methods for the Examination of Water and Wastewater", latest edition, APHA; "EPA Manual of Methods for Chemical Analysis of Water and Wastes", 1972 as amended; "EPA Test Methods for the Evaluation of Solid Waste", "Physical/Chemical Methods (SW-846)" 3rd edition, or other methods approved by EPA.

In general, the following sample parameters are utilized to determine the type of contamination during remedial site investigations.

a.	Volatile Organic Compounds	- U.S. EPA Method 624 + 15
b.	Volatile Organic Compounds	- U.S. EPA Method 8240
c.	Volatile Organic Compounds	- U.S. EPA Method 601
d.	Volatile Organic Aromatic Compounds	- U.S. EPA Method 601
e.	Semi-Volatile Organic Compounds	- U.S. EPA Method 625 + 15
f.	Semi-Volatile Organic Compounds	- U.S. EPA Method 8250
g.	PCB's & Pesticides	- U.S. EPA Method 608
h.	Petroleum Hydrocarbons by IR	- Method 401.8
i.	Priority Pollutant Metals	- SW 846 - 3rd Edition

4.1 Laboratory Deliverables

Laboratory deliverables vary with the requirements of the regulatory agency having jurisdiction over the project. The following general laboratory deliverables are provided.

Deliverables	Project Type
Tier II	NJDEP - Environmental Cleanup Responsibility Act
80% Tier II 20% Tier I	NJDEP - Bureau of Case Management
Tier II	NJDEP BUST - Modified BUST Format for DICAR

APPENDIX B

PART A PERMIT

(Fill—in areas are spaced for elite type, i.e., 12 characters/inch).

Form Approved OMB No. 158-R017F

EPA

NJD002186630

~~GENERAL MOTORS CORP~~
1016 WEST EDGAR RD
LINDEN, NJ 07036

1016 WEST EDGAR RD
LINDEN, NJ 07036

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X	
B. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X	
C. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X		X
D. Is or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X	
E. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	
F. Does or will this facility (either alone or with other facilities) discharge treated or untreated wastewaters to waters of the U.S.? (FORM 2D)		X	
G. Do you or will you inject at this facility industrial or municipal effluents below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

GMC GM ASSEMBLY DIVISION LINDEN PLANT

IV. FACILITY CONTACT

A. NAME & TITLE (last, first, & title)	B. PHONE (area code & no.)
MUNDTH GERALD PLANT ENGINEER	201 474 4070

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX

B. CITY OR TOWN | C. STATE | D. ZIP CODE

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

B. COUNTY NAME

C. CITY OR TOWN | D. STATE | E. ZIP CODE | F. COUNTY CODE (if known)

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CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST: 3711 (specify) AUTOMOBILE ASSEMBLY

B. SECOND: (specify)

C. THIRD: (specify)

D. FOURTH: (specify)

VIII. OPERATOR INFORMATION

A. NAME: GMC GM ASSEMBLY DIVISION LINDEN PLANT

B. Is the name listed in Item VIII-A also the owner? ☒ YES ☐ NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)
F = FEDERAL, S = STATE, P = PRIVATE, M = PUBLIC (other than federal or state), O = OTHER (specify)
P (specify)

D. PHONE (area code & no.): A 201 474 4000

E. STREET OR P.O. BOX: 016 WEST EDGAR ROAD

F. CITY OR TOWN: LINDEN

G. STATE: NJ

H. ZIP CODE: 07036

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☒ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water): N NA

D. PSD (Air Emissions from Proposed Sources): P NA

B. UIC (Underground Injection of Fluids): U NA

E. OTHER (specify): (specify) SEE ATTACHED LIST

C. RCRA (Hazardous Wastes): R NA

E. OTHER (specify): (specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

GENERAL MOTORS AUTOMOBILES ARE ASSEMBLED AT THIS FACILITY PREFABRICATED PARTS ARE SHIPPED TO THIS FACILITY FROM VARIOUS SUPPLIERS AND ASSEMBLED INTO AUTOMOBILES

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
P. J. Coletta - GM Assembly Division Vice-President and General Manager	P J Coletta	11/17/80

COMMENTS FOR OFFICIAL USE ONLY

Form 7510-1 (8-80) REVERSE

PERTH AMBOY QUADRANGLE
NEW JERSEY–NEW YORK
7.5 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

FORM 3510-3 (6-80)

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

HAZARDOUS WASTE PERMIT APPLICATION

Consolidated Permits Program

Form Approved. OMB No. 158-S80004

I. EPA I.D. NUMBER

F N J D 0 0 2 1 8 6 [redacted] 0

FOR OFFICIAL USE ONLY

APPLICATION APPROVED | DATE RECEIVED | COMMENTS

I. TYPE OF PERMIT APPLICATION

Mark "X" in the box in the proper box to indicate whether this is the first application you are submitting for your facility or a revised application. If this is a revised application, enter the EPA I.D. Number in box 2 above.

A. FIRST APPLICATION (Mark "X" in the box in the proper box to indicate whether this is the first application you are submitting for your facility or a revised application. If this is a revised application, enter the EPA I.D. Number in box 2 above.)

X

B. REVISED APPLICATION (Mark "X" in the box in the proper box to indicate whether this is the first application you are submitting for your facility or a revised application. If this is a revised application, enter the EPA I.D. Number in box 2 above.)

1 3 7 0 5 1 5

1. FOR EXISTING FACILITY (Mark "X" in the box in the proper box to indicate whether this is the first application you are submitting for your facility or a revised application. If this is a revised application, enter the EPA I.D. Number in box 2 above.)

2. FOR NEW FACILITY (Mark "X" in the box in the proper box to indicate whether this is the first application you are submitting for your facility or a revised application. If this is a revised application, enter the EPA I.D. Number in box 2 above.)

II. PROCESSES – CODES AND DESIGN CAPACITIES

A. PROCESS CODE – Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the codes in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided on the form (Item III-C).

B. PROCESS DESIGN CAPACITY – For each code entered in column A enter the capacity of the process.

1. AMOUNT – Enter the amount.

2. UNIT OF MEASURE – For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS
WASTE PILE	S02	GALLONS OR LITERS
SURFACE IMPOUNDMENT	S03	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D80	GALLONS OR LITERS
LANDFILL	D81	GALLONS OR LITERS OR ACRE-FEET
LAND APPLICATION	D82	GALLONS OR LITERS OR ACRES
OCEAN DISPOSAL	D83	GALLONS PER DAY OR GALLONS PER HOUR
SURFACE IMPOUNDMENT	D84	GALLONS OR LITERS

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR OR GALLONS PER HOUR OR LITERS PER HOUR
OTHER (Specify) (for physical, chemical, thermal or biological treatment not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided on the form (Item III-C))	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	M
ACRE-FEET	A
HECTARE-METER	H
ACRES	B
HECTARES	E
LITERS PER DAY	V
TONS PER HOUR	D
METRIC TONS PER HOUR	W
GALLONS PER HOUR	U
LITERS PER HOUR	H

EXAMPLE FOR COMPLETING ITEM II (shown in lines numbered X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 1000 gallons. The facility has been used for storing and treating 1,200 gallons per day.

LINE NO.	A. PROCESS CODE	B. PROCESS DESIGN CAPACITY (1) AMOUNT	(2) UNIT OF MEASURE	C. PROCESS CODE (FOR OFFICIAL USE ONLY)
X-1	S02	6000	G	
X-2	S01	15000	G	
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

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Continued from the front.

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

V. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER — Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled or processed that characteristic or contaminant.

C. UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III-D to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III-D to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: If four spaces are provided for entering process codes and more are needed: (1) Enter the first three as described above. (2) Enter "000" in the next item. (3) Complete Item IV-D(1). (4) On page 3, Item IV-D, add an additional line number and the additional code(s).

2. PROCESS DESCRIPTION — If a code is not listed for a process that will be used, describe the process in the space provided on the form.

ITEM: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number should be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes that will be used to treat, store, and/or dispose of the waste.
2. In column A on the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in lines IV-D(1) and IV-D(2) below) — A facility will treat and dispose of an estimated 300 pounds of wastes which contain toxaphene. The facility will treat these wastes in an incinerator (code T03) and then dispose of the residue in a landfill (code D80). The other wastes are corrosive and will be treated and there will be no residuals. The facility will treat these wastes in tanks (code T01) and then discharge them to a lagoon (code D80).

A. EPA HAZARDOUS WASTE NO. (Enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (Enter code)	D. PROCESSES 1. PROCESS CODES (Enter)	D. PROCESSES 2. PROCESS DESCRIPTION (If a code is not entered in D(1))
1				
2				
3				
4				
D 0 1 2	300	P	T 0 3	
D 0 1 3	100	P	T 0 1	
D 0 1 2				included with above

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)

W N J D 0 0 2 1 8 6 6 9 0 | 1

FOR OFFICIAL USE ONLY

W | DUP | 2 | DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (If a code is not entered in D(1))
1	F017	400	T	S01	
2	F003	100	T	S02	
3	F005				INCLUDED WITH ABOVE
4	D001	50	T	S01	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

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CONTINUE ON REVERSE

ontinued from the front.

V. DESCRIPTION OF HAZARDOUS WASTES *(continued)*

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

EPA I.D. NO. *(enter from page 1)*

N	J	D	0	0	2	1	8	6	6	9	0		6

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail).*

VI. PHOTOGRAPHS

All existing facilities must include photographs *(aerial or ground—level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail).*

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE *(degrees, minutes, & seconds)*	LONGITUDE *(degrees, minutes, & seconds)*
40 37 6 N	74 15 25 W

VIII. FACILITY OWNER

☒ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. *(area code & no.)*
E	

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE
F	G		

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

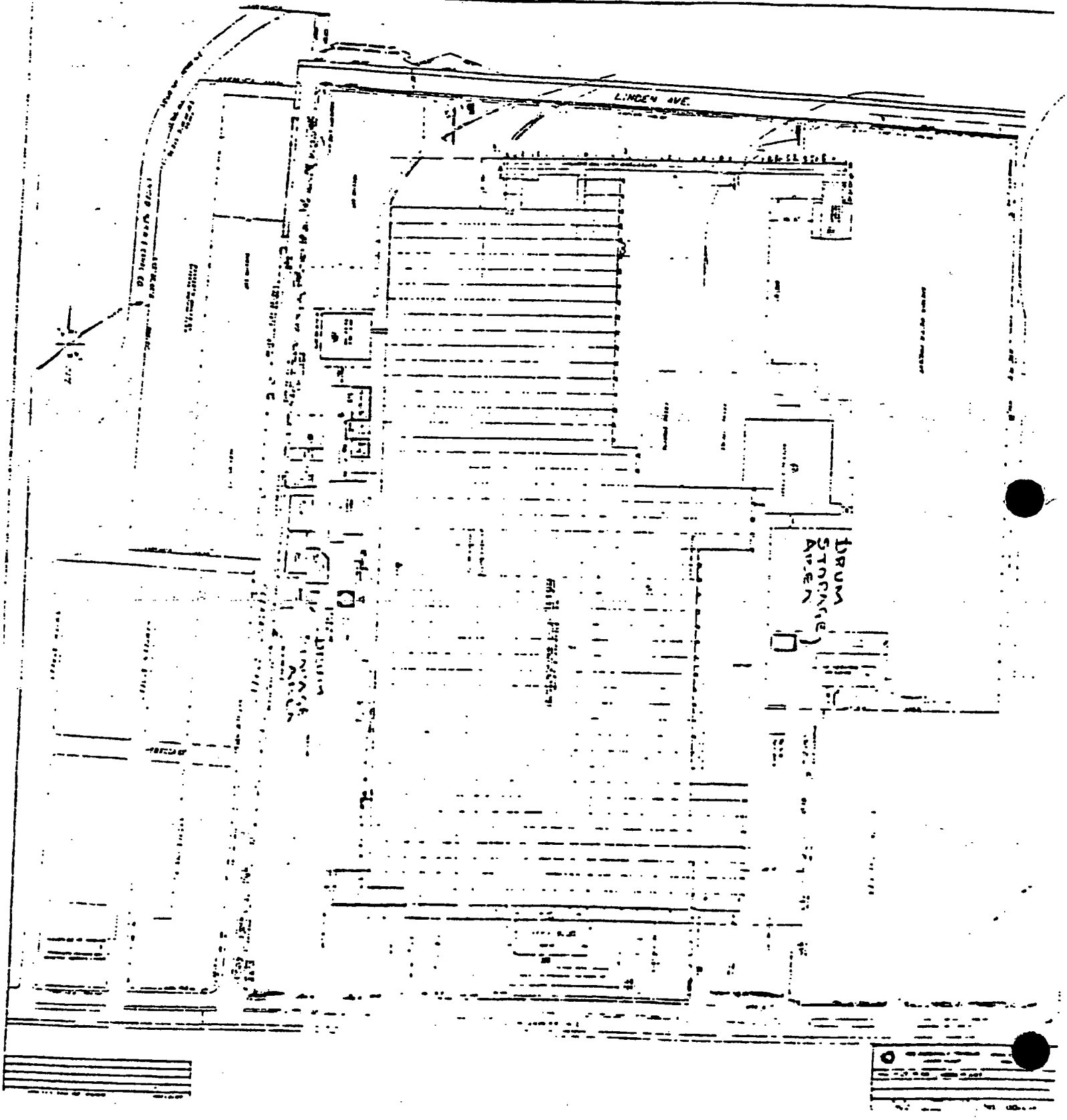
A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED
. J. Coletta - GM Assembly Division ice-President and General Manager	[signature]	11/17/80

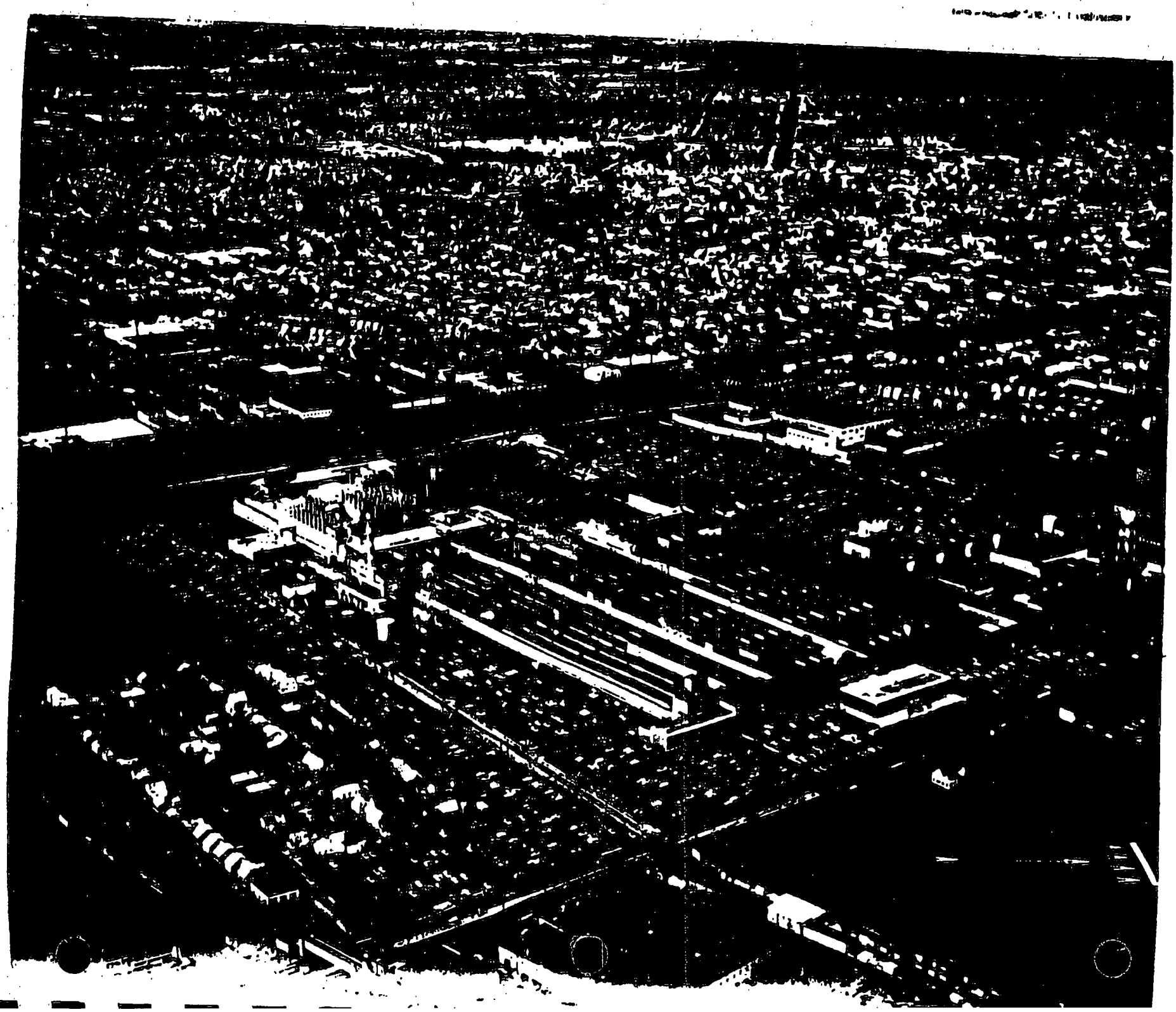
X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED

CONTINUE ON PAGE 5


LINDEN AVE.
DRUM STORAGE AREA



FORM 1 GENERAL

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permit Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

F

LABEL ITEMS

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACH
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)				B. Does or will this facility *(either existing or proposed)* include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)			
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)				D. Is this a proposed facility *(other than those described in A or B above)* which will result in a discharge to waters of the U.S.? (FORM 2D)			
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)				F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)			
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)				H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)			
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)				J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)			

III. NAME OF FACILITY

C 1 SKIP

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*

B. PHONE *(area code & no.)*

C 2

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX

C 3

B. CITY OR TOWN

C. STATE

D. ZIP CODE

C 4

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

C 5

B. COUNTY NAME

C. CITY OR TOWN

D. STATE

E. ZIP CODE

F. COUNTY CODE *(if known)*

C 6

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST	B. SECOND
C 7 (specify)	C 7 (specify)
C. THIRD	**D. FOURTH**
C 7 (specify)	C 7 (specify)

VIII. OPERATOR INFORMATION

A. NAME — C 8

B. Is the name listed in Item VIII-A also the owner? ☐ YES ☐ NO (55)

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)
F = FEDERAL; S = STATE; P = PRIVATE; M = PUBLIC (other than federal or state); O = OTHER (specify) (specify)

D. PHONE (area code & no.) — C A

E. STREET OR P.O. BOX

F. CITY OR TOWN — C B

G. STATE

H. ZIP CODE

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☐ NO (62)

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)	D. PSD (Air Emissions from Proposed Sources)
C T I 9 N	C T I 9 P
B. UIC (Underground Injection of Fluids)	**E. OTHER (specify)**
C T I 9 U	C T I 9 (specify)
C. RCRA (Hazardous Wastes)	**E. OTHER (specify)**
C T I 9 R	C T I 9 (specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED

COMMENTS FOR OFFICIAL USE ONLY

C

FORM 3 RCRA

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

HAZARDOUS WASTE PERMIT APPLICATION

Consolidated Permits Program

(This information is required under Section 3005 of RCRA.)

I. EPA I.D. NUMBER

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below *(mark one box only)* to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

☐ 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

FOR EXISTING FACILITIES, PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*

YR. | MO. | DAY

☐ 2. NEW FACILITY *(Complete item below.)*

FOR NEW FACILITIES PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

YR. | MO. | DAY

B. REVISED APPLICATION *(place an "X" below and complete Item I above)*

☐ 1. FACILITY HAS INTERIM STATUS

☐ 2. FACILITY HAS A RCRA PERMIT

III. PROCESSES — CODES AND DESIGN CAPACITIES

A. **PROCESS CODE** — Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the form *(Item III-C)*.

B. **PROCESS DESIGN CAPACITY** — For each code entered in column A enter the capacity of the process.

1. AMOUNT — Enter the amount.
2. UNIT OF MEASURE — For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER *(barrel, drum, etc.)*	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D79	GALLONS OR LITERS
LANDFILL	D80	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D81	ACRES OR HECTARES
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR OR GALLONS PER HOUR OR LITERS PER HOUR
OTHER *(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)*	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
GALLONS PER DAY	U
LITERS PER DAY	V
TONS PER HOUR	D
METRIC TONS PER HOUR	W
GALLONS PER HOUR	E
LITERS PER HOUR	H
ACRE-FEET	A
HECTARE-METER	F
ACRES	B
HECTARES	Q

EXAMPLE FOR COMPLETING ITEM III *(shown in line numbers X-1 and X-2 below)*: A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

C DUP C

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY
X-1	S02	600	G		5				
X-2	T03	20	E		6				
1					7				
2					8				
3					9				
4					10				

III. PROCESSES (continued)

(SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04") FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER — Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:
   For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.
   For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.
   Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (If a code is not entered in D(1))
X-1	K054	900	P	T03 D80	
X-2	D002	400	P	T03 D80	
X-3	D001	100	P	T03 D80	
X-4	D002				included with above

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1): W

FOR OFFICIAL USE ONLY: W — DUP — DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES: 1. PROCESS CODES (enter)	D. PROCESSES: 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

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CONTINUE ON REVERSE

IV. DESCRIPTION OF HAZARDOUS WASTES *(continued)*

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

EPA I.D. NO. *(enter from page 1)*

F													T/A	C
														6

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail).*

VI. PHOTOGRAPHS

All existing facilities must include photographs *(aerial or ground—level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail).*

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE *(degrees, minutes, & seconds)*	LONGITUDE *(degrees, minutes, & seconds)*

VIII. FACILITY OWNER

[ ] A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. *(area code & no.)*
E	

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE
F	G		

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED

CONTINUE ON PAGE 5

V. FACILITY DRAWING *(see page 4)*

EPA Form 3510-3 (6-80)

APPENDIX C

FEDERAL REGISTER REGARDING F017

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 261

[SWH-FRL 1627-3]

Hazardous Waste Management System; Identification and Listing of Hazardous Waste

AGENCY: U.S. Environmental Protection Agency.

ACTION: Final rule and temporary suspension of interim final rule.

SUMMARY: In response to public comment, the Environmental Protection Agency (EPA) today is finalizing the listings of thirteen hazardous wastes from specific sources that were proposed or promulgated in interim final form in the Federal Register on July 16, 1980 (45 FR 47832–47836). In addition EPA is deleting two wastes from its interim final hazardous waste list, and is deferring action on and suspending the effectiveness of nine wastes listed in interim final form on July 16, 1980, as well as deferring action on one waste that was proposed on that date.

EPA is also amending Appendix VII of this Part by finalizing the toxic constituents of concern for each listed waste promulgated today.

DATES: Effective dates: Waste listings promulgated in interim final form on July 16, 1980, which are finalized today, become effective on January 16, 1981. Waste listings which were proposed on July 16, 1980, and which are finalized today, become effective on July 16, 1981

See supplementary information for further details.

ADDRESSES: The public docket for this regulation is located in Room 3711, U.S. Environmental Protection Agency, 401 M Street SW., Washington, D.C. 20460, and is available for viewing from 8:00 a.m. to 4:00 p.m., Monday through Friday, excluding holidays.

FOR FURTHER INFORMATION CONTACT: Dr. Judith S. Bellin, Office of Solid Waste (WH-565), U.S. Environmental Protection Agency, 401 M Street SW., Washington, D.C. 20460, (202) 755-9187

SUPPLEMENTARY INFORMATION: Before discussing the substance of today's action, the Agency wishes to state clearly the regulatory obligations which result from it.

I. Compliance Dates for Regulatory Obligations

A. Notification

1. Finalized Waste Listings Promulgated in Interim Final Form on July 16, 1980.

Persons who generate, transport, treat, store, or dispose of any hazardous waste listed in interim final form on July 16, 1980 which waste listing is now being finalized, are not required to notify EPA as a result of today's action Wastes in this category are hazardous wastes K071, K073, K083, K084, K085, K086, and K087. We do not consider today's action to be a revision of the Section 3001 regulations within the meaning of Section 3010(b). All such persons, of course, should have already notified EPA by or before October 10, 1980.

2. Finalized Waste Listings Which Were Proposed on July 16, 1980.

Persons who generate, transport, treat, store, or dispose of wastes which were proposed for listing on July 16, 1980 which are being finalized today—hazardous wastes K101–K106—are not required to notify so long as they previously have notified the Agency that they handle a hazardous waste and have received an I.D. number. Persons who have not previously notified EPA and who generate or handle these wastes must now notify EPA of their activities under Section 3010 no later than April 16, 1981. Notification instructions are set forth in 45 FR 12746 (February 26, 1980).[1]

B. Other Compliance Dates

Beginning on January 16, 1981, persons handling wastes listed in final form in § 261.32, which listings were promulgated in interim form, on July 16, 1980, must comply with all applicable standards for hazardous waste generators, transporters, and owners or operators of hazardous waste management facilities set forth in 40 CFR Parts 262 through 265 and 122 through 124.

Beginning on July 16, 1981, persons handling wastes listed in final form in § 261.32 which were proposed for inclusion on July 16, 1980, must comply with all applicable standards for hazardous waste generators, transporters, and owners or operators of hazardous waste management facilities set forth in 40 CFR Parts 262 through 265 and 122 through 124.

The owners or operators of all existing hazardous waste management facilities which treat, store or dispose of wastes listed in these regulations which were proposed for inclusion on July 16, 1980, and who wish to qualify for interim status under Section 3005(e) of RCRA, must file a notification by April 16, 1981 unless they have notified previously (as described in A. 2. above), and must file a permit application by July 16, 1981 (see 40 CFR 122.23(e) (1) and (2)).

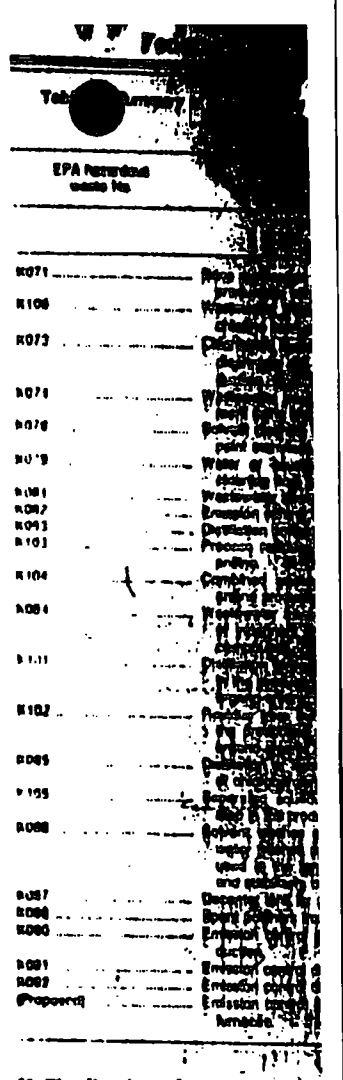
Owners or operators of facilities who have qualified for interim status and wish to manage wastes listed in the final regulations which were proposed for listing on July 16, 1980 must submit an amended permit application by July 16, 1981 (see 40 CFR 122.23(c)(1)). Owners or operators of facilities with interim status who do not comply with these requirements are precluded from managing these wastes after July 16, 1981.

Table I summarizes the Agency's action on each waste stream discussed in the July 16 Federal Register notice, and gives the effective date of each final regulation.

[1] Our authority for this action is the recent amendment to Section 3010(a) of RCRA contained in the Solid Waste Disposal Act Amendments of 1980 (Pub. L. 96-482 [October 21, 1980]) which amendment leaves the requirement for notification following revision of the Section 3001 regulations to the discretion of the Administrator

Table I.—*Summary of the Agency's Disposition of Each Waste Stream Listed in Interim Final Form or Proposed for Listing on July 16, 1980*

EPA hazardous waste No.	Hazardous waste	Effective date and disposition
	§ 261.31 Hazardous Waste From Nonspecific Sources	
F017	Paint residues or sludges from industrial painting in the mechanical and electrical products industry.	Suspended temporarily.
F018	Wastewater treatment sludge from industrial painting in the mechanical and electrical products industry	Suspended temporarily.



II. Finalization of §§ 261.31 and Hazardous Waste Lists

On July 16, 1980, EPA amende Subpart D of Part 261 by adding wastes to EPA's hazardous was (§§ 261.31 and 261.32, 45 FR 47 47834). These lists were publish interim final form to allow the p opportunity to comment on addi data the Agency had collected o wastes since the close of the ini public comment period on the p Subtitle C regulations (43 FR 58959, December 18, 1978).

At the same time, the Agency proposed for comment seven ad hazardous waste listings (45 FR 47836, July 16, 1980). All of these were identified by the Agency in course of developing the technical data to support the 1980, interim final hazardou

The Agency received

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 261

[FRL 1539-3]

Hazardous Waste Management System: Identification and Listing of Hazardous Waste

AGENCY: Environmental Protection Agency

ACTION: Interim final rule

SUMMARY: The Environmental Protection Agency (EPA) today is amending Subpart D of this Part to add eighteen [illegible] to the final list of [illegible] wastes which the Agency promulgated on May 19, 1980, under Section 3001 of the Resource Conservation and Recovery Act of 1976, as amended (RCRA). The effect of adding these wastes to the hazardous waste list will be to make them subject to the management standards issued by EPA under Sections 3002 through 3006 and 3010 of RCRA (40 CFR Parts 122 through 124 and 262 through 265 and 45 FR 12746).

Additionally, EPA is amending Appendix VII to this Part ("Basis for Listing Hazardous Waste") to include the toxic constituents for which these wastes are being listed and is revising Appendix VIII ("Hazardous Constituents") to add three toxic constituents and to delete one.

DATES: Effective Date: These regulations become effective on January 16, 1981.

Comment Date: EPA will accept public comments on these amendments until September 15, 1980.

Compliance Dates: Persons handling wastes listed in these regulations must notify EPA of their activities under Section 3010 of RCRA no later than October 14, 1980. They may, if they desire, include these wastes in the August 18, 1980, notification triggered by the May 19, 1980, publication of EPA's initial hazardous waste list. Notification instructions are set forth in 45 FR 12746 (February 26, 1980).

Beginning on January 16, 1981, persons handling wastes listed in these regulations must comply with all [illegible] for hazardous [illegible] generators [illegible] and owners and operators of hazardous waste management facilities set forth in 40 CFR Parts 122 through 124 and 262 through 265 (45 FR 33123 (May 19, 1980)).

All existing hazardous waste management facilities (as defined in 40 CFR 122.3) which treat, store or dispose of wastes listed in these regulations and wish to qualify for interim status under Section 3005(e) of RCRA must file a notification by October 14, 1980 and a permit application by January 16, 1981. Facilities which have already qualified for interim status will not be able to handle the wastes listed in these regulations after January 16, 1981 unless they file a notification by October 14, 1980 and submit an amended permit application (see 40 CFR 122.23(c)(1)).

ADDRESSES: Comments should be sent to Docket Clerk [Docket No. 3001], Office of Solid Waste (WH-562), U.S. Environmental Protection Agency, 401 M Street SW., Washington, D.C. 20460.

Public Docket. The public docket for this regulation is located in Room 2711, U.S. Environmental Protection Agency, 401 M Street SW., Washington, D.C., and is available for viewing from 9 a.m. to 4 p.m. Monday through Friday, excluding holidays. The docket contains background documents which explain the basis for listing these wastes as hazardous.

Copies of the Regulations: Single copies of this regulation will be available approximately thirty (30) days after date of publication (August 15, 1980) from Ed Cox, Solid Waste Information, U.S. Environmental Protection Agency, 26 W. Saint Clair Street, Cincinnati, Ohio 45268, (513) 684-5362. Single copies of EPA's notification instructions and the May 19, 1980, regulations are also available from Mr. Cox.

FOR FURTHER INFORMATION CONTACT: For general information, contact Matthew A. Straus, Office of Solid Waste, U.S. Environmental Protection Agency, 401 M Street, SW., Washington, D.C. 20460, (202) 755-9187. For information on implementation contact:

Region I, Dennis Huebner, Chief, Radiation, Waste Management Branch, John F. Kennedy Building, Boston, Massachusetts 02203, (617) 223-5777.

Region II, Dr. Ernest Regna, Chief, Solid Waste Branch, 26 Federal Plaza, New York, New York 10007, (212) 264-0504/5.

Region III, Robert L. Allen, Chief, Hazardous Materials Branch, 6th & Walnut Streets, Philadelphia, Pennsylvania 19106, (215) 597-[illegible]

Region IV, James Scarbrough, Chief, Residuals Management Branch, 345 Courtland Street, NE., Atlanta, Georgia 30365, (404) 881-3016.

Region V, Karl J. Klepitsch, Jr., Chief, Waste Management Branch, 230 South Dearborn Street, Chicago, Illinois, 60604, (312) 886-6148.

Region VI, R. Stan Jorgensen, Chief, Solid Waste Branch, 1201 Elm Street, First International Building, Dallas, Texas 75270, (214) 767-2645.

Region VII, Robert L. Morby, Chief, Hazardous Materials Branch, 324 E. 11th Street, Kansas City, Missouri 64106, (816) 374-3307.

Region VIII, Lawrence P. Gazda, Chief, Waste Management Branch, 1860 Lincoln Street, Denver, Colorado 80203, (303) 837-2221.

Region IX, Arnold R. Den, Chief, Hazardous Materials Branch, 215 Fremont Street, San Francisco, California 94105, (415) 556-[illegible]

Region X, Kenneth D. Feigner, Chief, Waste Management Branch, 1200 Sixth Avenue, Seattle, Washington 981[illegible], (206) 442-1260.

SUPPLEMENTARY INFORMATION:

Additional Listings. On May 19, 1980, as part of its final and interim final regulations implementing Section 3001 of RCRA, EPA published a list of hazardous wastes (Subpart D of this Part), which included 85 process wastes and 381 commercial chemical products (45 FR 33123–33127). In the preamble to that regulation (45 FR 33087), we stated that we intended to amend this list in June to add twenty-five wastes which we had proposed for listing on December 18, 1978 (43 FR 58957–58959) or August 22, 1979 (44 FR 49403–49404), but for which final listing decisions could not be made, and final background documents could not be prepared, in time for the May promulgation (Appendix A, 45 FR 33117–33118).

Eighteen of these wastes are being added to EPA's hazardous waste list today. Included in this supplemental list are wastes from industrial painting and wastes from the production of paint, ink, organic chemicals, inorganic chemicals, veterinary pharmaceuticals, iron and steel, aluminum and ferroalloys. EPA has evaluated all of these wastes against the criteria for listing toxic wastes contained in § 261.11(a)(3) and has determined that they pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, disposed of, or otherwise managed.[1]

[illegible] action on six of the wastes listed in Appendix A for the following reasons:

• *Woven fabric dyeing and finishing wastewater treatment sludges.* After further review, we have decided that we have insufficient information on which to go forward with this listing at this time. In addition, waste extraction data submitted by the textiles industry indicates that toxic constituents present in the waste do not migrate from the waste in significant concentrations. Moreover, the toxic constituent of concern (chromium) believed to be present in these wastes is no longer used in the production process in significant quantities.

• *Arsenic-bearing sludges from the purification process [illegible] antimony oxide.* [illegible] longer generated.

• *Wastewater treatment sludge from the diaphragm cell process using graphite anodes in the production of chlorine; wastewater treatment sludge from the production of titanium dioxide pigment using chromium bearing ores by the sulfate process; and antimony-bearing wastewater treatment sludge from the production of antimony oxide.* After further review, we have decided that we have insufficient information on the concentrations and migratory potential of the hazardous constituents of these wastes to list these wastes at this time. The Agency intends, however, to study these wastes further to determine whether they should be listed.

• *Lead-bearing wastewater treatment sludge from gray iron foundries.* We are deferring a final listing decision on this waste pending completion of EPA's ongoing study of wastes generated by the gray iron foundry industry.

In addition to deleting certain wastes, our final support work indicated that we should make additions to the list. Therefore, elsewhere in today's Federal Register, we are proposing to add seven wastes to the hazardous waste list.

Appendix VII. When EPA lists a waste as hazardous because of its toxicity, we identify, in Appendix VII to this Part, the toxic constituent which led EPA to list it. Appendix VII is, therefore, being amended to include the toxic constituents of concern for the eighteen wastes promulgated today.

Appendix VIII. EPA's criteria for listing toxic waste [illegible] provide that a waste will be listed if it contains any [illegible] designated in Appendix VIII of this Part unless, after consideration of certain specified factors, the Agency concludes that the waste does not meet the statutory definition of hazardous waste (see § 261.11(a)(3)). Appendix VIII is a list of toxic constituents which have been shown in reputable scientific studies to have toxic, carcinogenic, mutagenic or teratogenic effects on humans or other life forms.

In developing the supplemental list of wastes published today, the Agency has identified three additional toxicants which have been shown in reputable scientific studies to be of regulatory concern to the Agency and which should, therefore, be included in Appendix VIII. These constituents—aniline, diphenylamine and phenylenediamine—are [illegible] distillation bottoms from aniline production [illegible] toxic [illegible] teratogenic. Additional [illegible] the adverse health effects of these [illegible] background document for distillation bottoms from aniline production.

Additionally, one of the toxic constituents currently listed in Appendix VIII—chlorotoluene—is being deleted from Appendix VIII. After further investigation, the Agency has decided that this compound is of low regulatory concern due to its low chronic toxicity and its lack of genetic activity.

Interim Final Provisions. EPA is publishing this list of hazardous wastes and the amendments to Appendices VII and VIII as interim final regulations. This means that, although these regulations are promulgated for purposes of the 90-day notification requirement under Section 3010(a), the six month effective date under Section 3010(b) and the 90 day petition deadline under Section 7006, the public will have an additional opportunity to c[illegible] on them prior to publication in final form. EPA has substantially upgraded and revised the background documents for these wastes which were proposed in December 1978 and August 1979, and therefore [illegible] additional opportunity to com[illegible] appropriate.

Environmental, Economic, and Regulatory Impacts

In accordance with Executive [illegible] as amended by Executive [illegible] and Executive Order 1[illegible] [illegible] prepared an Economic Im[illegible] Analysis and a Regulatory An[illegible] the hazardous waste program. [illegible] Agency has also voluntarily p[illegible] Environmental Impact Statem[illegible] program under the National Environmental Policy Act, 42 [illegible] *et seq.*

Copies of these documents [illegible] Reports Impact Analysis and [illegible] Resources Impact Analysis for [illegible] hazardous waste regulations [illegible] viewed in all EPA Regional Of[illegible] Libraries, and at EPA headqua[illegible] library, Room 2404, 401 M Stre[illegible] Washington, D.C. 20460.

Dated: July 7, 1980.

Douglas M. Costle,

Administrator.

Title 40 of the Code of Feder[illegible] Regulations is amended as foll[illegible]

1. In § 261.31, add the followi[illegible] streams:

§ 261.31 Hazardous waste from nonspecific sources.

Industry	EPA hazardous waste No.	Hazardous waste
Generic	F017	Paint residues or sludges from industrial painting in the mechanical and electrical products industry
	F018	Wastewater treatment sludge from industrial painting in the mechanical and electrical products industry

2. In § 261.32, add the following waste streams:

§ 261.32 Hazardous waste from specific sources.

Industry	EPA hazardous waste No.	Hazardous waste
[illegible]	[illegible]	[illegible] in the mercury cell process [illegible]
	[illegible]	Chlorinated hydrocarbons waste from the purification step of the diaphragm cell process using graphite anodes in chlorine production
	[illegible]	Wastewater treatment sludges from the production of TiO2 pigment using chromium bearing ores by the chloride process
Paint Manufacturing	[illegible]	Solvent cleaning wastes from equipment and tank cleaning from paint manufacturing
	[illegible]	Water or caustic cleaning wastes from equipment and tank cleaning from paint manufacturing
	K081	Wastewater treatment sludges from paint manufacturing
	K082	Emission control dust or sludge from paint manufacturing
Organic Chemicals	K083	Distillation bottoms from aniline production
	K085	Distillation or fractionating column bottoms from the production of chlorobenzenes

[1] One waste, solvent cleaning wastes from equipment and tank cleaning from paint manufacturing, is also being listed because it exhibits EPA's ignitability characteristic. See § 261.21(a)(1). Two wastes, Numbers 10 and 11 in Appendix A, 45 FR 33118, have been combined into one listing.

further review, we have decided that we have insufficient information on which to go forward with this listing at this time. In addition, waste extraction data submitted by the textiles industry indicates that toxic constituents present in the waste do not migrate from the waste in significant concentration. Moreover, the toxic constituent of concern (chromium) believed to be present in these wastes is no longer used in the production process in significant quantities.

• *Arsenic-bearing sludges from the purification process in the production of antimony oxide.* These wastes are no longer generated.

• *Wastewater treatment sludge from the diaphragm cell process using graphite anodes in the production of chlorine; wastewater treatment sludge from the production of titanium dioxide pigment using chromium-bearing ores by the sulfate process; and antimony-bearing wastewater treatment sludge from the production of antimony oxide.* After further review, we have decided that we have insufficient information on the concentrations and migratory potential of the hazardous constituents of these wastes to list these wastes at this time. The Agency intends, however, to study these wastes further to determine whether they should be listed.

• *Lead-bearing wastewater treatment sludge from gray iron foundries.* We are deferring a final listing decision on this waste pending completion of EPA's ongoing study of wastes generated by the gray iron foundry industry.

In addition to deleting certain wastes, our final support work indicated that we should make additions to the list. Therefore, elsewhere in today's Federal Register, we are proposing to add seven wastes to the hazardous waste list.

Appendix VII. When EPA lists a waste as hazardous because of its toxicity, we identify, in Appendix VII to this Part, the toxic constituent which led EPA to list it. Appendix VII is, therefore, being amended to include the toxic constituents of concern for the eighteen wastes promulgated today.

Appendix VIII. EPA's criteria for listing toxic waste (T) provide that a waste will be listed if it contains any of a number of toxic constituents designated in Appendix VIII of this Part, unless, after consideration of certain specified factors, the Agency concludes

In developing the supplemental list of wastes published today, the Agency has identified three additional toxicants which have been shown in reputable scientific studies to be of regulatory concern to the Agency and which should, therefore, be included in Appendix VIII. These constituents—aniline, diphenylamine and phenylenediamine—are all contained in distillation bottoms from aniline production and have been shown to be either toxic or experimental carcinogens or teratogens. Additional information on the adverse health effects of these compounds is contained in the listing background document for distillation bottoms from aniline production.

Additionally, one of the toxic constituents currently listed in Appendix VIII—chlorotoluene—is being deleted from Appendix VIII. After further investigation, the Agency has decided that this compound is of low regulatory concern due to its low chronic toxicity and its lack of genetic activity.

Interim Final Provisions. EPA is publishing this list of hazardous wastes and the amendments to Appendices VII and VIII as interim final regulations. This means that, although these regulations are promulgated for purposes of the 90-day notification requirement under Section 3010(a), the six month effective date under Section 3010(b) and the 90-day petition deadline under Section 7006, the public will have an additional opportunity to comment on them prior to publication in "final" final form. EPA has substantially upgraded and revised the background documents for these wastes since they were proposed in December 1978 and August 1979, and therefore feels that additional opportunity for comment is appropriate.

Environmental, Economic, and Regulatory Impacts

In accordance with Executive Order 11821, as amended by Executive Order 11949, and Executive Order 12044, EPA has prepared an Economic Impact Analysis and a Regulatory Analysis of the hazardous waste program. The Agency has also voluntarily prepared an Environmental Impact Statement of this program under the National Environmental Policy Act, 42 U.S.C. 4321 *et seq.*

Copies of these documents, and EPA's Reports Impact Analysis and Operations Resources Impact Analysis for all of the hazardous waste regulations may be viewed in all EPA Regional Office Libraries, and at EPA headquarters library, Room 2404, 401 M Street, SW., Washington, D.C. 20460.

Dated: July 7, 1980.

Douglas M. Costle,

Administrator.

Title 40 of the Code of Federal Regulations is amended as follows.

1. In § 261.31, add the following waste streams:

§ 261.31 Hazardous waste from nonspecific sources.

Industry	EPA hazardous waste No.	Hazardous waste	Hazard code
Generic	F017	Paint residues or sludges from industrial painting in the mechanical and electrical products industry	(T)
	F018	Wastewater treatment sludge from industrial painting in the mechanical and electrical products industry	(T)

2. In § 261.32, add the following waste streams:

§ 261.32 Hazardous waste from specific sources.

Industry	EPA hazardous waste No.	Hazardous waste	Hazard code
Inorganic Chemicals	K071	Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used	(T)
	K072	Chlorinated hydrocarbon wastes from the purification step of the diaphragm cell process using graphite anodes in chlorine production	(T)
	K074	Wastewater treatment sludges from the production of TiO$_2$ pigment using chromium bearing ores by the chloride [illegible]	(T)

Industry	EPA hazardous waste No.	Hazardous waste	Hazard code
Ink Formulation	K086	Solvent washes and sludges, caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead	(T)
Veterinary Pharmaceuticals	K084	Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds	(T)
Coking	K087	Decanter tank tar sludge from coking operations	(T)
Primary Aluminum	K088	Spent potliners from primary aluminum reduction	(T)
Ferroalloys	K090	Emission control dust or sludge from ferrochromium-silicon production	(T)
	K091	Emission control dust or sludge from ferrochromium production	(T)
	K092	Emission control dust or sludge from ferromanganese production	(T)

3. In Appendix VII (Basis for Listing Hazardous Waste) add the following after F018:

EPA hazardous waste number	Hazardous constituents for which listed
F017	Cadmium, chromium, lead, cyanides, toluene, tetrachloroethylene
F018	Cadmium, chromium, lead, cyanide, toluene, tetrachloroethylene.

4. In Appendix VII (Basis for Listing Hazardous Waste) add the following after K086:

EPA hazardous waste number	Hazardous constituents for which listed
K071	Mercury
K073	Chloroform, carbon tetrachloride, hexachloroethane, trichloroethylene, tetrachloroethylene, dichloromethylene, 1,1,2,2-tetrachloroethane
K074	Chromium
K076	Chromium, lead
K077	Lead, mercury, benzene, carbon tetrachloride, methylene chloride, tetrachloroethylene, naphthalene, diethylphthalate, di-n-butylphthalate, toluene
K081	Chromium, lead, mercury, nickel, methylene chloride, benzene.

EPA hazardous waste number	Hazardous constituents for which listed
K082	Antimony, cadmium, chromium, lead, nickel, silver, cyanides, phenol, mercury, pentachlorophenol, vinyl chloride, 3,3'-dichlorobenzidine, naphthalene, di(2-ethylhexyl)phthalate, di-n-butylphthalate, benzene, toluene, carbon tetrachloride, methylene chloride, trichloroethylene
K083	Arsenic, nitrobenzene, diphenylamine, phenylenediamine.
K084	Arsenic.
K085	Benzene, monochlorobenzene, dichlorobenzenes, trichlorobenzenes, tetrachlorobenzene, pentachlorobenzene, hexachlorobenzene, benzyl chloride
K086	Chromium, lead.
K087	Phenol, naphthalene
K088	Cyanide (complexes).
K090	Chromium.
K091	Chromium, lead.
K092	Chromium, lead

5. In Appendix VIII (Hazardous Constituents) add the following constituents alphabetically:

— aniline
— diphenylamine
— phenylenediamine

6. In Appendix VIII (Hazardous Constituents) delete:

— chlorotoluene, N.O.S.

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BILLING CODE 6560-01-M

RCRA CLOSURE REPORT
SUPPLEMENTAL SOIL SAMPLING
AT CONTAINER STORAGE AREA #1
GENERAL MOTORS CORPORATION
1016 WEST EDGAR ROAD
LINDEN, NEW JERSEY
EPA ID NUMBER NJD-002-186-690
VOLUME I

JUNE 1992

PREPARED FOR
GENERAL MOTORS CORPORATION
LINDEN, NEW JERSEY

PREPARED BY
CORPORATE ENVIRONMENTAL ENGINEERING INC
FLEMINGTON, NEW JERSEY

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OWNER'S CERTIFICATION

I certify under penalty of law that the hazardous waste management unit/facility has been closed in accordance with the November 1991 Closure Plan, the NJDEPE approval letter of February 18, 1992 and subsequent revisions by the NJDEPE represented the March 17, 1992 correspondence between General Motors and the NJDEPE. I am aware that there are significant civil and criminal penalties, including fines and imprisonment, for knowingly submitting false information.

This certification is made on behalf of General Motors Corporation.

Richard A. Monkaba
Plant Manager
Truck & Bus - Linden

8/5/92
Date

I certify under penalty of law that I have personally examined and am familiar with the Closure Plan, and that based upon my inquiry of those individuals immediately responsible for drafting and implementing the Plan, I believe that the hazardous waste management unit/facility has been closed in accordance with the specifications in the November 1991 Closure Plan, the NJDEPE approval letter of February 18, 1992 and subsequent revisions by the NJDEPE represented the March 17, 1992 correspondence between General Motors and the NJDEPE. I am aware that there are significant civil and criminal penalties, including fines and imprisonment for knowingly submitting false information.

This certification is made on behalf of General Motors Corporation.

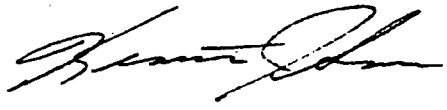
Guy D. Briggs
Vice President and
Group Director of Operations

8-11-92
Date

REGISTERED PROFESSIONAL ENGINEERING CERTIFICATION

I hearby certify under penalty of law that I have personally examined and am familiar with the closure plan, and that based upon my inquiry of those individuals immediately responsible for drafting and implementing the plan, I believe that the hazardous waste management unit/facility has been closed in accordance with the specifications in the closure plan, approved by the Department on February 18, 1992 and as subsequently amended on March 17, 1992. I am aware that there are significant civil and criminal penalties, including fines and imprisonment, for submitting false information.

New Jersey Professional Engineer



Kenneth J. Snow
Corporate Environmental Engineering Inc

Date 7/15/92

Registration # GE 30433

Seal:

1.0 INTRODUCTION

Pursuant to the U.S. EPA Standards for Owners and Operators of Hazardous Waste Treatment Storage and Disposal Facilities (40 CFR, Part 265, Subpart G) and the New Jersey Administrative Code (NJAC) 7:26 - 9.8, General Motors Corporation, Linden, New Jersey (GM-Linden) developed a facility Closure Plan for three regulated storage units in November 1988. The plan was approved by the New Jersey Department of Environmental Protection and Energy (NJDEPE) on August 15, 1989, implemented, and the results submitted to the NJDEPE in January 1990. The NJDEPE's August 15, 1989 approval required additional activities at only two storage units. NJDEPE oversight of the additional sampling was transferred to the Bureau of Metro Enforcement in February 1991. In April 1991 the NJDEPE Bureau of Hazardous Waste Engineering informed General Motors that additional soil sampling was necessary at the former Container Storage Area #1 while the other unit undergoing closure, the Waste Thinner Storage Tank, was considered closed.

The November 1991 "RCRA Closure Plan - Supplemental Soil Sampling at Container Storage Area #1" was approved by NJDEPE without modification on February 18, 1992. However, the NJDEPE subsequently requested modifications as discussed in GM-Linden's March 17, 1992 correspondence. The field activities were conducted in accordance with the sampling plan as modified by the NJDEPE. These activities were conducted specifically to fulfill the requirements of N.J.A.C. 7:26 - 9.8 to achieve Clean Closure of Container Storage Area #1.

2.0 BACKGROUND

2.1 Historical Information

Container Storage Area #1 was one of three units included on a 1980 Part A permit application (see the November 1991 Sampling Plan). Container Storage Area #1 is a paved 20' x 20' right triangle area defined by chain link fence posts cut flush to the current pavement. During active use it had a maximum storage capacity of about 45 drums. The pad is located in an area which, during normal operations, is an active traffic area adjacent to GM-Linden's solid waste handling operations. The macadam surface was originally installed in 1965 and although complete resurfacing has not occurred, patching has occurred as necessary. Paving was found to be 3 to 6 inches thick during the previous closure soil sampling in the vicinity of the pad. Waste has not been stored on this storage pad since 1984.

2.2 Wastes Stored

The 1980 RCRA Part A permit indicates that D001 and F017 wastes were permitted for storage in drums on Container Storage Area #1. F017 became a non-source specific waste regulating "paint residues or sludges from industrial painting in the mechanical and electrical products industry" on July 16, 1980 (Federal Register Vol. 45, No. 138, pages 47832-47834). F017 was temporarily suspended on January 16, 1981 (Federal Register Vol. 46, No. 11, page 4614), and has never been re-instated. The text of the suspension states that F017 was, in fact, "de-listed" from its "interim final" status which was initiated on July 16, 1980. These situations are presented in the November 1991 Sampling Plan.

2.3 Constituents of Concern

A comparison of GM-Linden's records with the regulatory definition of D001, conducted by Corporate Environmental Engineering Inc (CEE), indicates that this facility's D001 wastes should consist of only volatile organic compounds. It is not likely the D001 wastes stored in this area contained spent solvents and the like since GM-Linden separately stores, generates and disposes of wastes such as F003 and F005. Volatile organics are the only constituents of concern associated with D001 waste.

2.4 Previous Soil Sampling Results

A summary of the previous sampling results is presented in Tables 2.4.1 and 2.4.2. The results are compared to the proposed cleanup standards at N.J.A.C. 7:26D-1 et seq.. These standards were proposed by NJDEPE in January 1992 for application to all environmental cleanups in New Jersey including those conducted pursuant to federal programs. Values for comparison are drawn from Table 7-1 for surface soils since this is a non-residential property, and Table 3-1 for subsurface soils. The only constituent attributable to the storage pad which does not meet the compliance requirements of N.J.A.C. 7:26D-3.3 is total lead.

2.5 Proposed Sampling Analysis

The sampling proposed in the "RCRA Closure Plan - Supplemental Soil Sampling at Container Storage Area #1" (November 1991) is presented in Table 2.5. Sampling analysis locations and depths were developed in accordance with guidance provided by the NJDEPE at a July 18,1991 meeting. Additionally, the proposed sampling was based on a comparison of the previous soil sampling results (Tables 2.4.1 and 2.4.2) with soil evaluation criteria commonly used at the time (see table 4.0 in Sampling Plan). The proposed sampling was approved without modification by the NJDEPE on February 18, 1992. However, the NJDEPE subsequently requested modifications as discussed in GM Linden's March 17, 1992 correspondence. Both correspondence are presented in Appendix B.

GM-Linden
RCRA Closure - Container Storage Area #1
Previous Soil Sampling Summary
Table 2.4.1

Proposed NJDEPE Cleanup Standard	Sample Location	BH1	BH1[D]	BH2	BH3	BH4	BH5	BH6	Field Blank	Trip Blank
Surface	Interval	Less Than Two Feet							-	-
340	Antimony	23	7	71	15	9	49	19	ND	NA
20	Arsenic	8	4	21	6	7	8	7	ND	NA
26,000	Barium	697	707	796	1,640	828	1,940	539	ND	NA
2	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	NA
100	Cadmium	7	6	5	7	6	13	4	ND	NA
NSD	Chromium	37	28	26	31	21	42	31	ND	NA
600	Copper	80	81	166	184	191	391	102	ND	NA
600	Lead	1,300	1,290	6,430	2,340	1,110	8,300	1,530	0.013	NA
2,400	Nickel	34	30	26	36	26	46	28	ND	NA
260	Mercury	0.44	0.41	0.32	0.15	0.34	0.53	ND	ND	NA
1,000	Selenium	ND	ND	ND	ND	ND	ND	ND	ND	NA
2,000	Silver	ND	ND	ND	ND	ND	ND	ND	ND	NA
2	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	NA
7,000	Vanadium	32	25	24	32	23	30	53	ND	NA
1,500	Zinc	778	703	1,340	5,210	929	2,550	320	0.085	NA
**	SV	51.1	34.8	147.5	134.3	22.4	230.9	21.6	ND	NA
1,000	Acetone	0.06	0.09	0.06	0.1	0.05	0.1	ND	0.021	ND

Samples Collected
November 28-29, 1989

ND - Not Detected
NA - Not Analyzed
Units - Milligrams per Kilogram (mg/kg)
SV - Semi-Volatiles
VOC - Volatile Organic Compounds
D - Duplicate Analysis
NSD - No Standard Developed
* - Based on proposed cleanup standards at N.J.A.C. 7:26D-1 et. seq. - Surface soil values are from Table 7-1 and subsurface soil values are from Table 3-1, therein.
** - Cleanup standard determined on chemical specific basis - (See Table 2.4.2)

GM-Linden
RCRA Closure - Container Storage Area #1
Previous Soil Sampling Summary
Table 2.4.2

Proposed NJDEPE Cleanup Standard*		Sample Location	BH1	BH1[D]	BH2	BH3	BH4	BH5	BH6
Surface	Sub-Surface	Interval	Less Than Two Feet						
2.5	500	Benzo(a)Anthracene	4.8	J	13	12	J	14	J
2.5	500	Chrysene	6	4.3	13	3.6	3.6	22	J
2.5	500	Benzo(b)Flouranthene	6.2	3.7	24	25	5.9	36	5.9
0.66	100	Benzo(a)Pyrene	3.4	J	15	14	J	21	J
2.5	500	Indeno(1,2,3-c,d) Pyrene	J	J	9.2	6	J	7.4	J
NSD	NSD	Phenanthrene	8.3	10	7	7.5	J	3.1	J
10,000	500	Antracene	J	J	3.6	3.4	J	9.3	J
10,000	500	Fluoranthene	7.4	4.8	22	24	5.4	38	5.2
10,000	500	Pyrene	15	12	33	25	7.5	38	5.6
2.5	500	Benzo(g,h,i) Perylene	J	J	7.7	4.4	J	5.2	J
4,200	100	Naphthalene	J	J	J	J	J	8.6	ND
NSD	NSD	2 Methylnaphthalene	J	J	J	J	J	4	J
NSD	NSD	Acenaphthalene	J	J	J	J	J	3.3	J
10,000	100	Acenaphthene	J	J	J	J	J	8.2	J
NSD	NSD	Dibenzofuran	J	J	J	J	J	4	J
10,000	100	Fluorene	J	J	J	J	J	8.8	J
210	100	Bis(2-Ethylhexyl) Phthalate	ND	J	ND	ND	ND	ND	4.9

D - Duplicate Analysis
Units - milligram/kilogram (mg/kg)
ND - Not Detected
J - Below Detection Limits
NSD - No Standard Developed
* - Based on proposed cleanup standards at N.J.A.C. 7:26D-1 et. seq. - Surface soil values are from Table 7-1 and subsurface soil values are from Table 3-1, therein.

Samples Collected
November 28-29, 1989

GM-Linden
RCRA Closure - Container Storage Area #1
Proposed Sampling, November, 1991
Table 2.5

Analysis	Sampling Interval 6 to 12 inches Below Paving	Sampling Interval 18 to 24 inches Below Paving	Required for Closure
Antimony	X	X	
Barium	X	X	
Cadmium	X	X	X
Lead	X	X	X
Zinc	X	X	
VOC+10	Complete*	X	X
SV+20	X	X	

VOC+10 - Volatile Organic Compounds plus library search of next 10 compounds.
SV+20 - Semi-Volatile Organic Compounds plus library search of next 20 compounds.
* - Previously implemented sampling, approved by NJDEPE, included full TCL analysis in this interval.
- Shading indicates proposed analyses which were deleted by the NJDEPE prior to sample collection.
- Depth intervals applicable to all sampling locations.

3.0 ENVIRONMENTAL CHARACTERISTICS

The GM-Linden facility is in an area of heavy industrial use with nearby land use including petroleum refining and an air transportation terminal. The USDA Soil Conservation Service maps GM-Linden, and portions of the adjacent area, in a large unit officially designated as Urban Land. The Urban Land unit is nearly level with only 10% undisturbed soil and greater than 90% surface coverage by asphalt, concrete, buildings and other impervious surfaces. According to the USDA mapping, "the undisturbed soils are commonly similar to soils in surrounding or nearby mapping unit[s]." The following is a brief discussion of the nearby mapping units.

The Linden Airport is located adjacent to GM-Linden on the opposite side of Route 1. The terminal building and nearby paved parking are designated Urban Land, while the remainder of Linden Airport belongs to the Udorthents, Loamy unit. The USDA description of Udorthents, Loamy includes "urban land, filled land, sanitary landfill and udorthents over tidal marsh in the eastern-most portion of the county." A large portion of the oil refinery adjacent to Linden Airport bares this same designation.

Another nearby unit primarily assigned to the Exxon oil refinery is Udorthents, Organic Substratum which consists of "sanitary landfill, areas of undisturbed tidal marsh, udorthents-loamy and urban land". The Newark Airport, Port Authority and oil refineries are assigned this unit designation. The soils are generally highly varied fill materials over tidal marsh.

A unit of Udorthents, Waste Substratum is identified one half mile south of Linden Airport, and about one mile from GM-Linden. It is bounded to the north and east by the Exxon oil refinery and to the south and west by Kings Creek and the Rahway River. According to the USDA "this unit consists of areas that have been used for disposing of refuse. It is a combination of highly variable fill material and refuse which consists of brick, glass, cement, wood, wire, asphalt, plastic containers, cans and other material objects."

Nearby units of undisturbed or non-fill designations are generally associated with surface water, discussed below, or an historic cemetery about 1 mile northeast of G. M., Linden.

While GM-Linden's designation is Urban Land, it is apparent from the USDA mapping that impervious surface coverage takes precedent over the distinguishing elements of adjacent soil units in the delineation of the Urban Land unit. Given this, it is likely that the varied fill defined adjacent to GM-Linden continues under GM-Linden. This conclusion is supported by the debris, including glass, metal and plastic fragments, encountered during the initial sampling.

Bedrock is about 30 - 40 feet below grade and bedrock surface slopes northwest in a buried-valley below GM-Linden (Nemickas, 1974). GM-Linden is near the bottom of the Arthur Kill watershed. It is approximately 30 feet above mean sea level. There are two nearby streams: Kings Creek is less than half of a mile to the south and flows to the Rahway River, and Morses Creek is less than half of a mile to the north and flows to the Morses River. Both rivers discharge to the Arthur Kill, approximately 3 miles east of GM-Linden.

4.0 FIELD ACTIVITIES

4.1 Soil Boring Program

On March 18, 1992 six (6) soil borings were installed at Container Storage Area No. 1 by hollow stem auger and split spoon. Previous and current sampling locations are presented in Figure 1. The GM Linden Site Plan is represented on Drawing 1. Analytical soil samples were collected directly from split spoons which were steam cleaned and decontaminated according to NJDEPE protocol prior to each use. Field blanks were collected by passing laboratory prepared water over a decontaminated split spoon and trowel used in sample collection. All samples were collected in accordance with NJDEPE methodologies (Appendix A). Soil samples for chemical analysis were collected based on visual, olfactory, HNu data and the goal of obtaining soil representative of the interval proposed in the Sampling Plan.

The sampling plan intervals were based on the bottom of the asphalt at the request of the NJDEPE. However, the asphalt and subgrade varied in thickness over the area to be sampled, so an alternate approach to yield more constant depths was used for sample collection. Since recovery was about 50% for most spoons, one sample was collected from the upper and one from the lower half of the soil recovered. The upper sample was labeled "A" and the lower sample was labeled "B". An eight inch hollow stem auger was advanced to one foot below grade in each location and a spoon was driven from 1 to 3 feet below grade. The possible need for such minor alterations to the proposed sampling intervals due to field conditions was previously discussed with the NJDEPE. GMR-2 was advanced by continuous split spoon to 17 feet with saturation occurring at about 15 feet. Boring logs are presented in Appendix C.

4.1.1 Boring GMR-1 Installation

GMR-1 encountered asphalt to approximately 6 inches below grade followed by a small amount of subgrade. The spoon contained only brown to tan clay and sand. This is the only boring to encounter soils of this color. This boring had a slight odor, and HNu readings of the split spoon peaked at 2 units. Samples GMR-1A (native sand and trace black subgrade) and GMR-1B (native sand) were collected.

4.1.2 Boring GMR-2 Installation

This was the first boring installed. Asphalt was encountered to about 0.8 feet below grade. Fine black silty granules with fragments of metal, glass, plastic, rubber, wood and a fibrous material persisted to about 2.5 feet below grade. The fragments also included various intact items such as screws, nuts, bolts, nails, paper clips and washers. When the auger was advanced through this layer a fibrous mat, with a petroleum product odor was unearthed. Similar rubbish was found in all other borings except GMR-1 which contained a thinner layer of tan sand below the asphalt. No odor was encountered in GMR-2 below this fill material.

After collection of all analytical soil samples, GMR-2 was advanced by continuous split spoon, followed by auger, to a depth of 17 feet below grade. Reddish brown silty clay with trace subrounded and reddish brown mudstone granules were encountered from 2.5 to approximately 6 feet below grade. At the base of this horizon was a thin layer (less than 1 inch) of black organic material. From about 6 feet below grade to 8 feet below grade was a layer of greenish gray clay with olive yellow and reddish brown mottles.

From 8 to 17 feet below grade the soil was dominated by reddish brown silt, sand and clay. The soil became damp at about 10 feet below grade in fine reddish brown silty sand and saturated at about 15.0 feet below grade in reddish brown silty sand with trace granules and pebbles. These strata interchanged with silty clay strata from 10 to 17 feet below grade.

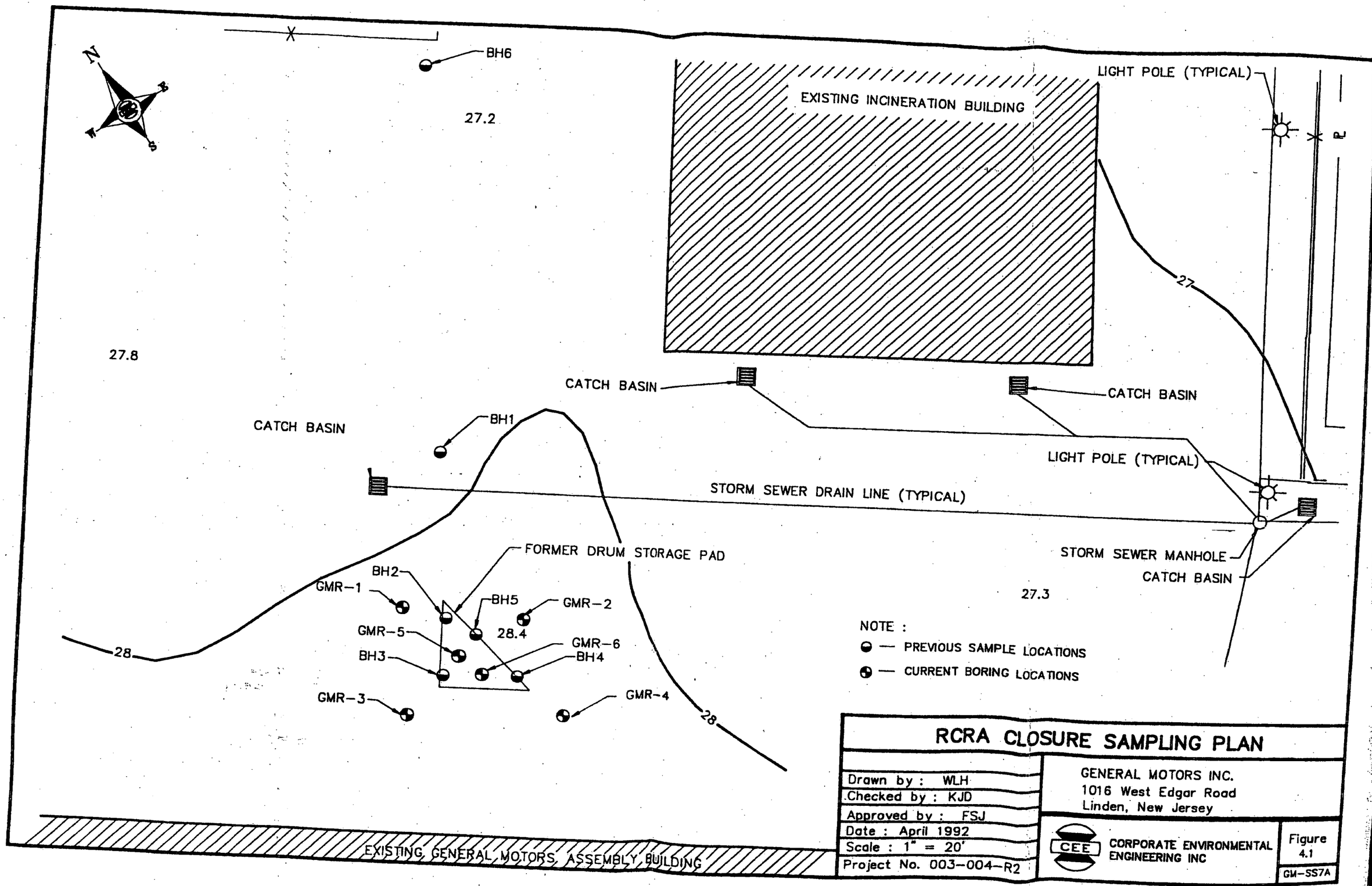
Samples GMR-2A (black fill) and GMR-2B (reddish brown clay) were collected from the 1 to 3 feet below grade spoon. HNu readings peaked at 10 units in this interval. Sample GMR-2B, like other "B" samples were marked by black streaks caused by the overlying black fill. Only minor efforts to remove these streaks were made so to disturb the VOC sample as little as possible. Where possible, VOC samples of clay were collected intact directly from the spoon.

4.1.3 Boring GMR-3 Installation

This boring encountered asphalt to about 0.8 feet below grade followed by mixed reddish brown native soils and black fill. Wood, plastic, glass fragments and a metal coil (perhaps a spring) were recovered in the spoon. No odor was encountered and HNu readings peaked at 3 units. Samples GMR-3A (black fill with reddish brown clay) and GMR-3B (mixed red and black soils) were collected from this boring.

4.1.4 Boring GMR-4 Installation

This boring encountered asphalt to about 0.5 feet below grade and fine black fill to about 1 foot below grade. The spoon from 1 to 3 feet below grade encountered reddish brown clay and fine sand and silt. A large piece of wood was also recovered. The spoon had an odor and HNu readings of up to 110 units. Samples GMR-4A (reddish brown native material) and GMR-4B (reddish brown native material) were collected from the spoon.



RCRA CLOSURE SAMPLING PLAN

Drawn by : WLH	GENERAL MOTORS INC.
Checked by : KJD	1016 West Edgar Road
Approved by : FSJ	Linden, New Jersey
Date : April 1992	CEE CORPORATE ENVIRONMENTAL ENGINEERING INC
Scale : 1" = 20'	Figure 4.1
Project No. 003-004-R2	GM-SS7A

5.0 CONCLUSIONS AND RECOMMENDATIONS

Container Storage Area #1 has not impacted the subgrade conditions in the area of the storage pad. The only constituent attributable to Container Storage Area #1 present at significant levels is lead. However, the sampling indicates that the lead is associated with a strata of fill used as asphalt subgrade. The lead is present on-site for reasons unrelated to Container Storage Area #1.

The lead is fully isolated from exposure pathways by the asphaltic pavement above and the clay strata below. First groundwater is encountered approximately 15 feet below grade and is separated from the lead by about 13 feet of clay and silt. Since no exposure pathway exists for the lead identified, and the lead is unrelated to Container Storage Area #1, closure of Container Storage Area #1 should be granted.

6.0 REFERENCES

Nemickas, B., 1974. Bedrock Topography and Thickness of Pleistocene Deposits in Union County and Adjacent Areas, New Jersey: U.S. Geological Survey, Map I-795 (2 maps).

USDA Soil Conservation Service. Soil Survey of Union County, New Jersey, Maps 6, 7, 9 and 10. Final survey currently being compiled.

APPENDIX A

SOIL QUALITY ASSURANCE QUALITY CONTROL PLAN

Quality Assurance Quality Control Plan for Soil, Solid and Semi-Solid Materials

I SOIL

A. Objective and Site Specific QA/QC Plan

1.0 Sampling Methods

1.1 Sample Preparation
1.2 Sampling Handling and Labeling

2.0 Sampling Equipment

2.1 Grab Samples
2.2 Hand Auger Soil Borings
2.3 Powered Soil Borings
2.4 Sample Containers
2.5 Equipment Decontamination

3.0 Quality Assurance

3.1 Chain of Custody
3.2 Quality Assurance Samples
3.2.1 Field Blanks
3.2.2 Duplicate Samples

4.0 Laboratory Methodology

4.1 Laboratory Deliverables

I. SOIL SAMPLE COLLECTION

A. QUALITY ASSURANCE/QUALITY CONTROL PLAN

The objective of this QA/QC Plan is to outline a Soil Sampling and Analysis Program (SSAP) which ensures the reliability of data collected and analyzed during remedial investigations.

1.0 Soil Sampling Methods

Samples are collected at the locations and depths as described in the soil sampling plan set forth in this document. Procedural changes dictated by field conditions are fully documented in the field notes and in the report of results.

Accurate field notes are maintained on field data sheets or in a bound filed notebook. Information recorded includes but is not limited to:

a. Sample location sketch;
b. Soil sample description;
c. General comments, including any modification or deviation from the Site Sample and Analysis Plan (SSAP).

1.1 Sample Preparation

All soil samples are transferred immediately after collection into sample bottles selected by parameter as listed in Section 2.4 of this plan. Samples collected for Volatile Organic analysis in addition to other parameters are placed in collection vials first as required by the NJDEPE. The remaining portion of the sample is then placed in the appropriate containers.

1.2 Sample Handling and Labeling

Disposable gloves are utilized during sample collection to reduce the potential for cross contamination between samples and as Personal Protective Equipment (PPE) in accordance with OSHA requirements set forth in 29 CFR 1910.120. Disposable gloves are changed between sample locations if they come in contact with soil.

All samples are packed on ice immediately following collection and will be kept cool until delivery to the laboratory. Samples to be analyzed for volatile organic compounds in addition to other compounds will be placed in their appropriate containers first. Thereafter, the remaining portion of the samples to be analyzed for other organic or inorganic parameters are placed in their appropriate containers.

All samples are labeled with the following information:

a. Sample number;
b. Date and time of collection;
c. Site name;
d. Sample depth;
e. Sample collector's initials;
f. Analysis requested

2.0 Soil Sampling Equipment

2.1 Grab Samples

Equipment utilized during grab sampling or post excavation soil sampling events included: stainless steel trowels, scoops and spatulas for sample collection. Dedicated equipment is prepared and decontaminated specifically for the project prior to use in the field as set forth in section 2.5 of this Quality Assurance Quality Control Plan.

2.2 Hand Auger Soil Borings

Equipment utilized during the installation of hand augered soil borings for soil sampling events included stainless steel augers to obtain samples from the appropriate depth. Stainless steel trowels, scoops and spatulas are utilized to transfer samples from the auger to sample containers. Dedicated equipment is prepared and decontaminated specifically for the project prior to use in the field as set forth in section 2.5 of this Quality Assurance Quality Control Plan. If field conditions mandate the re-use of augers, they are decontaminated in the field utilizing the methods described herein.

2.3 Powered Soil Borings

Equipment utilized during the installation of soil borings at depth or in conditions where hand augering is not possible include mobile or portable drill rigs and split spoon sampling techniques. Stainless steel trowels, scoops and spatulas are utilized to transfer samples from the auger to sample containers. Split spoon samplers are decontaminated in the field prior to each use utilizing the methods set forth in section 2.5 of this Quality Assurance Quality Control Plan. Dedicated trowels, spoons and spatulas are prepared and decontaminated specifically for the project prior to use in the field. Augers are decontaminated between borings by steam cleaning where required by the regulatory agency. Otherwise, augers are cleaned of all loose soil prior to relocating to a new boring location.

2.4 Sample Containers

Sample bottles used for CEE projects are prepared in accordance with NJDEPE criterion for the respective sample parameters by the contract laboratory as listed within the NJDEPE Field Sampling Procedures Manual, Section IV, Table 4.

The type and size of sample containers required for soil sampling include:

a. Petroleum hydrocarbons - 300 ml glass jars with Teflon liner closures;

b. Volatile Organic Compounds - 40 ml or 100 ml glass vials with Teflon septa and plastic closures;

c. Base Neutral/Acid Extractable Organic Compounds - 300 ml glass jars with Teflon lined closure;

d. PCB & Pesticides - 300 ml glass jars with Teflon lined closure;

2.5 Equipment Decontamination

All Equipment which come into contact with the soil samples is cleaned prior to use in the following manner:

a. detergent wash; (Alconox)
b. tap water rinse;
c. distilled/deionized water rinse;
d. 10% nitric acid rinse[1];
e. distilled/deionized water rinse;
f. methanol or acetone rinse;
g. air dry;
h. distilled/deionized water rinse.

Field equipment which is re-used on the project site is decontaminated in accordance with the methods described above.

---

1 10% Nitric Acid (HNO_3) rinse only applies to sampling equipment used on samples to be analyzed for metals.

3.0 Quality Assurance

3.1 Chain of Custody

Chain of custody is maintained for all samples. Chain of custody originates with the collection of the samples and is maintained until the samples are relinquished to the laboratory. The chain of custody form details the sampler's name and organization, the site location, sample designation, the time and date of sample, depth, sample analysis and all custody changes with their appropriate signatures.

Request for analysis forms are implemented prior to the submission of samples to the designated laboratory if additional conditions other than those specified on the chain of custody apply. They detail; the site name, sample designation, date of sampling, date of request, priority, and analytic parameters.

3.2 Quality Assurance Samples

3.2.1 Field Blanks

Field Blanks are prepared on every day samples are collected in most cases. Deviations may occur concerning the frequency of field blank collection based upon the number of sample and sampling days and the protocols of the governing regulatory agency. Distilled/deionized analyte-free water provided by the laboratory is poured over sample equipment into laboratory prepared bottles. Field blanks were analyzed for the most comprehensive analysis required for samples collected on that day.

3.2.2 Duplicate Samples

Duplicate samples are collected at randomly selected locations at a frequency of approximately 5% for analysis of the corresponding sample parameters for quality assurance purposes as required by the NJDEPE under special conditions. If duplicate samples are to be utilized during a project, it is so noted in the Soil Sampling and Analysis Plan.

4.0 Analytical Methodology

Soil, solid and semi-solid sample methodologies vary on a case by case basis. Therefore, specific analytical parameters for each case are indicated within the SSAP Sample Summary Table(s). In general, the following sample parameters are utilized to determine the type and extent of contamination during Remedial site soil investigations.

a. Volatile Organic Compounds - U.S.EPA Method 624 +15
b. Volatile Organic Compounds - U.S.EPA Method 8240
c. Volatile Organic Chlorinated Compounds - U.S.EPA Method 601
d. Volatile Organic Aromatic Compounds - U.S.EPA Method 601
e. Semi-Volatile Organic Compounds - U.S.EPA Method 625 +15
f. Semi-Volatile Organic Compounds - U.S.EPA Method 8250
g. PCB's & Pesticides - U.S.EPA Method 608
h. Petroleum Hydrocarbons by IR - Soxhlet Extraction & Method 401.8
i. Priority Pollutant Metals - SW 846 - 3rd Edition

4.1 Laboratory Deliverables

Laboratory deliverables vary with the requirements of the regulatory agency having jurisdiction over the project. The following general laboratory deliverables are provided.

Deliverables	Project Type
Tier II	NJDEPE - Environmental Cleanup Responsibility Act
80% Tier II 20% Tier I	NJDEPE - Bureau of Case Management
Tier II	NJDEPE BUST - Modified BUST Format for DICAR

APPENDIX B

NJDEPE FEBRUARY 18, 1992 CORRESPONDENCE AND GM MARCH 17, 1992 CORRESPONDENCE

State of New Jersey
Department of Environmental Protection and Energy
Division of Responsible Party Site Remediation
Metro Regional Office
2 Babcock Place
West Orange, NJ 07052
Tel. # 201-669-3960
Fax. # 201-669-3987

Scott A. Weiner
Commissioner

Karl J. Delaney
Director

February 18, 1992

General Motors Corporation
1016 West Edgar Road
Linden, New Jersey 07036
EPA I.D. # NJD 002186690

Att: Lois Arnowlson

Re: Closure of Container Storage Area #1 and Fenceline Soil Sampling Plan

Dear Mr. Arnowlson:

Both plans dated November 1991 and received by the Department in February 1992, are acceptable as to sampling protocols, the fence line soil borings should be modified slightly as to location and no modification to the plan need be submitted. The following borings should be moved inward toward the plant GMS 1, GMS 2, GMS 3, GMS 4 and GMS 8. The following shall remain in their positions GMS 5, GMS 6 and GMS 7.

The Department requests that a two (2) week notice be given before site work is to be done. If there are any questions concerning the above, please call Arnold Schiff at (201) 669-3960.

Very truly yours,

Arnold Schiff

Arnold Schiff
Principal Environmental Specialist

RECEIVED
MAR 02 1992
CORPORATE ENVIRONMENTAL ENGINEERING INC

Truck & Bus Group
Linden Assembly
General Motors Corporation
1016 West Edgar Road
Linden, New Jersey 07036-0805

March 17, 1992

FAXED DOCUMENT

Mr. Arnold Schiff
State of New Jersey
Department of Environmental Protection & Energy
Division of Responsible Party Site Remediation
2 Babcock Place
West Orange, NJ 07052

RE: General Motors Corporation - Linden
Container Storage Area #1 Closure
Supplemental Soil Sampling

Dear Mr. Schiff:

This letter serves to confirm your recent telephone conversations with Messrs. Frank Jankoski and Ken Drake of Corporate Environmental Engineering, Incorporated regarding the above-referenced sampling. As per your conversations during the week of March 2, 1992 and March 16, 1992, the NJDEPE has proposed changes to the November 1991 "RCRA Closure Plan - Supplemental Soil Sampling at Container Storage Area #1" and will not require the sampling proposed in the November 1991 "Fenceline Soil Sampling Plan".

The sampling analysis required by the NJDEPE at Container Storage Area #1 will test for the presence of cadmium, lead and TCL Volatile Organic Compounds +10, only. General Motors will collect soil samples for these analyses from the locations and depths proposed in the November 1991 RCRA Closure Plan and as approved by the NJDEPE. The sampling proposed in the "Fenceline Soil Sampling Plan" will not be conducted.

The drilling and sample collection for Container Storage Area #1 will take place on Wednesday, March 18, 1992, beginning at 8:00 am. If you have any questions regarding this activity, please call me at 908-474-4803.

Sincerely,

Lois A. Knowlson

Lois A. Knowlson
Senior Environmental Engineer

cc: Mr. F. Jankoski - CEE

APPENDIX C

BORING LOGS

CORPORATE ENVIRONMENTAL ENGINEERING INC
BORING LOG SHEET

PROJECT: GENERAL MOTORS CORP.
PROJECT #: 003/006/R2
LOGGED BY: CRONIN & DRAKE
DATE: 3/18/92
COMMENTS: RCRA CLOSURE

BORING #: GMR-1
PERMIT #:
BORING DIA: 2"
BORING DEPTH: 3'
DEPTH TO WATER: 15'
SURFACE ELEV: UNKNOWN

DRILLING CO. KEYTECH
DRILLER: ROB, AL, & JACK
RIG: --
METHOD: AUGER/SPOON

DEPTH	H-NU ppm	BORING LITHOLOGY	BLOW COUNTS	PERCENT RECOVERY	DESCRIPTIVE INTERVAL	LITHOLOGICAL DESCRIPTIONS AND COMMENTS
0					0-0.5'	Asphalt
2					0.5-3'	7.5YR4/6 Strong brown silty clay with very fine sand chaning to silty, clayey medium sand with trace quartz pebbles. Slightly moist; odor.
4	2		12,14,8,5	50		Sample No. GMR-1A, 1.0'-2.0'
6						Sample No. GMR-1B, 2.0'-3.0'
8						
10						
12						
14						
16						

CORPORATE ENVIRONMENTAL
ENGINEERING INC
BORING LOG SHEET

PROJECT: GENERAL MOTORS CORP.
PROJECT #: 003/006/R2
LOGGED BY: CRONIN & DRAKE
DATE: 3/18/92
COMMENTS: RCRA CLOSURE

BORING #: GMR-2
PERMIT #:
BORING DIA: 8"
BORING DEPTH: 17'
DEPTH TO WATER: 15'
SURFACE ELEV: UNKNOWN

DRILLING CO. KEYTECH
DRILLER: ROB, AL, & JACK
RIG: --
METHOD: AUGER/SPOON

DEPTH	H-NU ppm	BORING LITHOLOGY	BLOW COUNTS	PERCENT RECOVERY	DESCRIPTIVE INTERVAL	LITHOLOGICAL DESCRIPTIONS AND COMMENTS
0					0-0.8'	Asphalt
					0.8-2.5'	7.5YR2/0 Black, medium to very coarse silty sand with fragments of glass, metal, wood, and fibrous material. Slightly moist; odor. Sample No. GMR-2A, 1.0'-2.0' Sample No. GMR-2B,2.0'-3.0'
2						
	10		12,10,17,10	50	2.5-6.0'	2.5YR4/4 Reddish-brown, silty clay with trace sub-rounded, reddish brown mudstone granules; layer of black organic material at base. Moist, no odor.
4						
	2		6,5,8,8	90		
6					6.0-8.0'	5G6/1 Greenish-gray clay with some 5Y6/6 Olive yellow mottles and trace reddish brown mottles. Moist; no odor.
	2		9,7,5,6	50		
8					8.0-9.0'	Redish-brown, silty, medium to coarse sand with 15% sub-rounded granules/pebbles of quartz, grey sandstone, and reddish brown mudstone. Slightly moist; no odor.
	0		2,7,12,12	75		
10					9.0-16'	Reddish-brown, very fine to fine silty sand. Slightly moist 9.0'-10.0', damp 10.0'-15.0'; saturated 15.0'-16.0'. No odor.
	0		6,8,6,9	25		
12						
	0		6,7,8,6	100		
14						
	0		---	100		
16					16-17'	Reddish-brown, silty medium sand with trace granules/pebbles. Saturated; no odor.
17	0		7,9,8,12	100		

CORPORATE ENVIRONMENTAL
ENGINEERING INC
BORING LOG SHEET

PROJECT: GENERAL MOTOR CORP.
PROJECT #: 003/006/R2
LOGGED BY: KEN DRAKE
DATE: 3/18/92
COMMENTS: RCRA CLOSURE

BORING #: GMR-3
PERMIT #:
BORING DIA: 2"
BORING DEPTH: 3'
DEPTH TO WATER: 15'
SURFACE ELEV: UNKNOWN

DRILLING CO. KEYTECH
DRILLER: ROB, AL, & JACK
RIG: --
METHOD: AUGER/SPOON

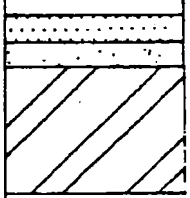
DEPTH	H-NU ppm	BORING LITHOLOGY	BLOW COUNTS	PERCENT RECOVERY	DESCRIPTIVE INTERVAL	LITHOLOGICAL DESCRIPTIONS AND COMMENTS
0					0-0.8' 0.8'-3'	Asphalt Mixed black fine sandy fill and reddish-brown fine sand and clay. Fragments of wood, glass, plastic and a metal coil spring. Moist. No odor.
2	3		8,9,8,10	50		Sample No. GMR-3A, 1.0'-2.0' Sample No. GMR-3B, 2.0'-3.0'
4						
6						
8						
10						
12						
14						
16						

CORPORATE ENVIRONMENTAL
ENGINEERING INC
BORING LOG SHEET

PROJECT: GENERAL MOTOR CORP.
PROJECT #: 003/006/R2
LOGGED BY: KEN DRAKE
DATE: 3/18/92
COMMENTS: RCRA CLOSURE

BORING #: GMR–4
PERMIT #:
BORING DIA: 2"
BORING DEPTH: 3'
DEPTH TO WATER: 15'
SURFACE ELEV: UNKNOWN

DRILLING CO. KEYTECH
DRILLER: ROB, AL, & JACK
RIG: ––
METHOD: AUGER/SPOON

DEPTH	H–NU ppm	BORING LITHOLOGY	BLOW COUNTS	PERCENT RECOVERY	DESCRIPTIVE INTERVAL	LITHOLOGICAL DESCRIPTIONS AND COMMENTS
0					0–0.5' 0.5–1'	Asphalt Fine black sandy fill
2	110		8,9,9,10	75	1–3'	Reddish–brown clay and fine sand and silt. Large piece of wood. Odor.
4						Sample No. GMR–4A, 1.0'–2.0' Sample No. GMR–4B, 2.0'–3.0'
6						
8						
10						
12						
14						
16						

CORPORATE ENVIRONMENTAL ENGINEERING INC
BORING LOG SHEET

PROJECT: GENERAL MOTOR CORP.
PROJECT #: 003/006/R2
LOGGED BY: KEN DRAKE
DATE: 3/18/92
COMMENTS: RCRA CLOSURE

BORING #: GMR-5
PERMIT #:
BORING DIA: 2"
BORING DEPTH: 3'
DEPTH TO WATER: 15'
SURFACE ELEV: UNKNOWN

DRILLING CO. KEYTECH
DRILLER: ROB, AL, & JACK
RIG: --
METHOD: AUGER/SPOON

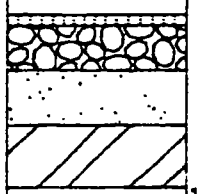
DEPTH	H-NU ppm	BORING LITHOLOGY	BLOW COUNTS	PERCENT RECOVERY	DESCRIPTIVE INTERVAL	LITHOLOGICAL DESCRIPTIONS AND COMMENTS
0					0-0.2'	Asphalt
					0.2-1'	Large angular gravel, up to 3" across
					1-2'	Fine black sand with fibrous material, glass and plastic fragments. Odor
2					2-3'	Reddish-brown clay. Odor.
	100		14,12,9,11	50		Sample No. GMR-5A, 1.0'-2.0'
						Sample No. GMR-5B, 2.0'-3.0'
4						
6						
8						
10						
12						
14						
16						

CORPORATE ENVIRONMENTAL
ENGINEERING INC
BORING LOG SHEET

PROJECT: GENERAL MOTOR CORP.
PROJECT #: 003/006/R2
LOGGED BY: KEN DRAKE
DATE: 3/18/92
COMMENTS: RCRA CLOSURE

BORING #: GMR-6
PERMIT #:
BORING DIA: 2"
BORING DEPTH: 3'
DEPTH TO WATER: 15'
SURFACE ELEV: UNKNOWN

DRILLING CO. KEYTECH
DRILLER: ROB, AL, & JACK
RIG: --
METHOD: AUGER/SPOON

DEPTH	H-NU ppm	BORING LITHOLOGY	BLOW COUNTS	PERCENT RECOVERY	DESCRIPTIVE INTERVAL	LITHOLOGICAL DESCRIPTIONS AND COMMENTS
0					0-0.2' 0.2-1' 1-2'	Asphalt Large angular gravel, up to 3" across. Fine black sand with metal, glass, plastic and fibrous fragments.
2					2-3'	Reddish-brown clay.
	0		11,16,14,11	50		Sample No. GMR-6A, 1.0'-2.0' Sample No. GMR-6B, 2.0'-3.0'
4						
6						
8						
10						
12						
14						
16						

DRAWING 1

RCRA CLOSURE SITE PLAN

43-089-011

RCRA CLOSURE PLAN - SUPPLEMENTAL SOIL SAMPLING AT CONTAINER STORAGE AREA #1 GENERAL MOTORS CORPORATION 1016 WEST EDGAR ROAD LINDEN, NEW JERSEY EPA ID NUMBER NJD-002-186-690

NOVEMBER, 1991

PREPARED FOR
GENERAL MOTORS CORPORATION
LINDEN, NEW JERSEY

PREPARED BY
CORPORATE ENVIRONMENTAL ENGINEERING INC
FLEMINGTON, NEW JERSEY

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Figure 1.0	Site Location Map
Figure 5.0	Proposed Sampling Plan

DRAWINGS

Drawing 1	RCRA Closure Site Plan

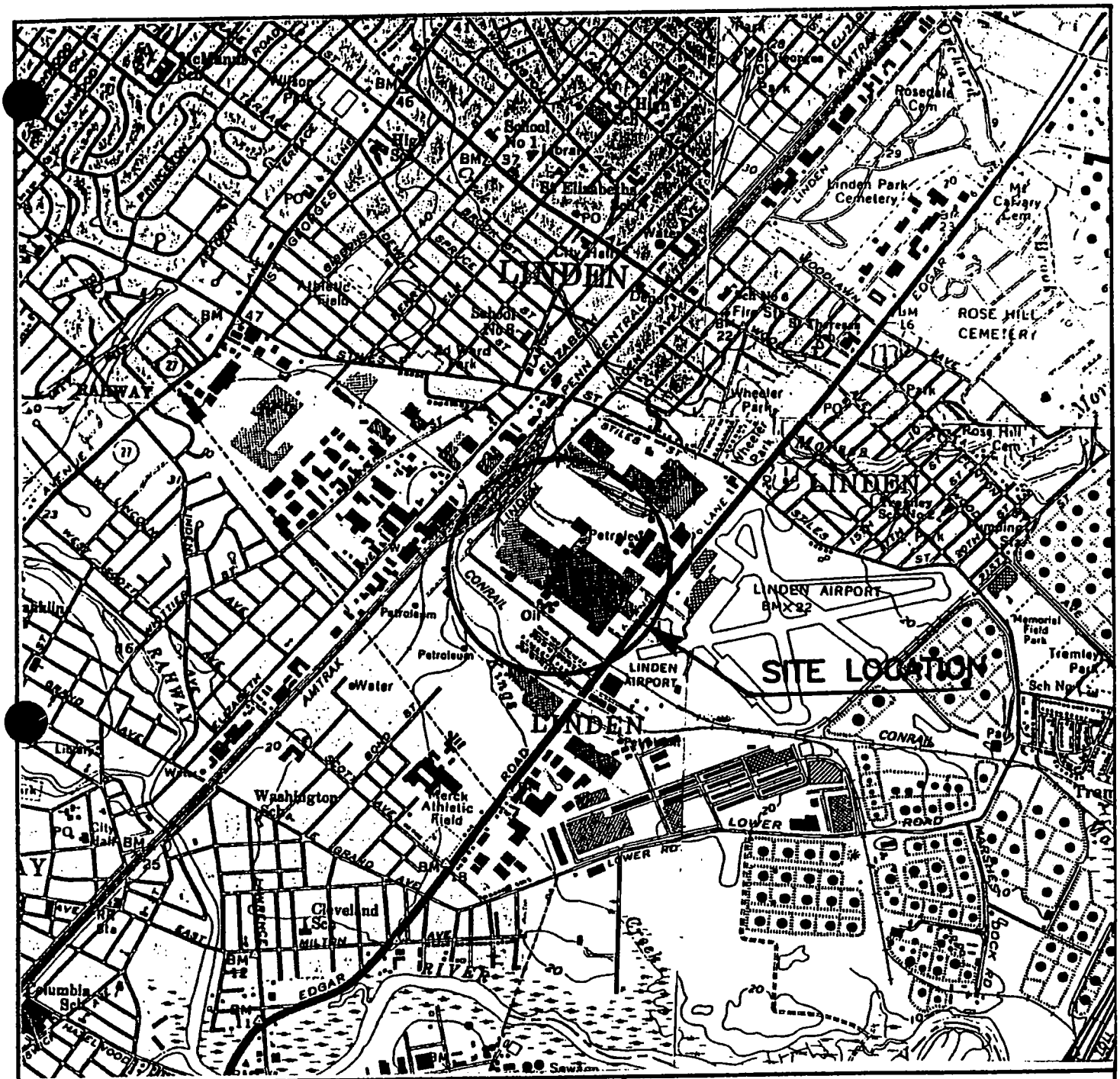
APPENDICES

Appendix A	Soil Quality Assurance Quality Control Plan
Appendix B	Part A Permit
Appendix C	Federal Register Regarding F017

1.0 INTRODUCTION

Pursuant to the U.S. EPA Standards for Owners and Operators of Hazardous Waste Treatment Storage and Disposal Facilities (40 CFR, Part 265, Subpart G) and the New Jersey Administrative Code (NJAC) 7:26 - 9.8, General Motors Corporation, Linden, New Jersey (G.M., Linden) developed a facility Closure Plan for three regulated storage units in November 1988. The plan was approved by the New Jersey Department of Environmental Protection and Energy (NJDEPE) on August 15, 1989, implemented, and the results submitted to the NJDEPE in January 1990. The NJDEPE's August 15, 1989 approval required investigations at only two storage units. In April 1991 the NJDEPE Bureau of Hazardous Waste Engineering informed General Motors that additional soil sampling was necessary at the former Container Storage Area #1 while the other unit undergoing closure, the Waste Thinner Storage Tank, was considered closed. NJDEPE oversite of the additional sampling was transferred to the Bureau of Metro Enforcement in February 1991.

This current plan addresses the NJDEPE's request for additional sampling. This plan is designed specifically to fulfill the requirements of N.J.A.C. 7:26 - 9.8 to achieve Clean Closure of Container Storage Area #1.



QUADRANGLE MAP (TOPOGRAPHIC) Perth Amboy, Arthur Kill Roselle, Elizabeth

SCALE: 1 = 24000

DATE: 4-25-91

DRAWN BY: WLH

APPROVED BY: JS

SHEET No. Figure 1

GENERAL MOTORS CORPORATION
WEST EDGAR ROAD,
LINDEN, NW JERSEY

CORPORATE ENVIRONMENTAL ENGINEERING INC
LIBERTY COURT, SUITE 1000
260 HIGHWAY 202 & 31
FLEMINGTON, N.J. 08822

2.0 BACKGROUND

2.1 Historical Information

Container Storage Area #1 was one of three units included on a 1980 Part A permit application. (Appendix B.) Container Storage Area #1 is a paved 20 x 20 right triangle area defined by chain link fence posts cut flush to the current pavement. During active use it had a maximum storage capacity of about 45 drums. The pad is in a currently active traffic area adjacent to G.M. Linden's solid waste handling operations. The macadam surface was originally installed in 1965 and although complete resurfacing has not occurred, patching has occurred as necessary. Paving was found to be 3 to 6 inches thick during the previous closure soil sampling in the vicinity of the pad. Waste has not been stored on this storage pad since 1984.

2.2 Wastes Stored

The 1980 RCRA Part A permit indicates that D001 and F017 wastes were permitted for storage in drums on Container Storage Area #1. F017 became a non-source specific waste regulating "paint residues or sludges from industrial painting in the mechanical and electrical products industry" on July 16, 1980 (Federal Register Vol. 45, No. 138, pages 47832-47834). The basis for listing was the presence of cadmium, chromium, lead, cyanides, toluene and tetrachloroethylene in the waste. F017 was temporarily suspended on January 16, 1981 (Federal Register Vol. 46, No. 11, page 4614), and has never been re-instated. The text of the suspension states that F017 was, in fact, "delisted" from its "interim final" status which was initiated on July 16, 1980. These situations are presented in Appendix C.

2.3 Constituents of Concern

A comparison of G.M. Linden's records with the regulatory definition of D001, conducted by CEE, indicates that this facility's D001 wastes should consist of only volatile organic compounds. It is not likely the D001 wastes stored in this area contained spent solvents and the like since G.M. Linden separately stores, generates and disposes of wastes such as F003 and F005. Volatile organics are the only constituents of concern associated with D001 waste.

As previously stated, F017 is a former hazardous waste code based on the presence of cadmium, chromium, lead, cyanides, toluene and tetrachloroethylene in the waste. These six constituents would represent the only potential for concern associated with this waste for the closure of Container Storage Area #1.

3.0 ENVIRONMENTAL CHARACTERISTICS

The G.M. Linden facility is an area of heavy industrial use with nearby land use including petroleum refining and an air transportation terminal. The USDA Soil Conservation Service maps G.M. Linden, and portions of the adjacent area, in a large unit officially designated as Urban Land. The Urban Land unit is nearly level with only 10% undisturbed soil and greater than 90% surface coverage by asphalt, concrete, buildings and other impervious surfaces. According to the USDA mapping, "the undisturbed soils are commonly similar to soils in surrounding or nearby mapping unit[s]." The following is a brief discussion of the nearby mapping units.

The Linden Airport is located adjacent to G.M. Linden on the opposite side of Route 1. The terminal building and nearby paved parking are designated Urban Land, while the remainder of Linden Airport belongs to the Udorthents, Loamy unit. The USDA description of Udorthents, Loamy includes "urban land, filled land, sanitary landfill and udorthents over tidal marsh in the easternmost portion of the county." A large portion of the oil refinery adjacent to Linden Airport bares this same designation.

Another nearby unit primarily assigned to the Exxon oil refinery is Udorthents, Organic Substratum which consists of "sanitary landfill, areas of undisturbed tidal marsh, udorthents-loamy and urban land". The Newark Airport, Port Authority and oil refineries are assigned this unit designation. The soils are generally highly varied fill materials over tidal marsh.

A unit of Udorthents, Waste Substratum is identified one half mile south of Linden Airport, and about one mile from G.M., Linden. It is bounded to the north and east by the Exxon oil refinery and to the south and west by Kings Creek and the Rahway River. According to the USDA "this unit consists of areas that have been used for disposing of refuse. It is a combination of highly variable fill material and refuse which consists of brick, glass, cement, wood, wire, asphalt, plastic containers, cans and other material objects."

Nearby units of undisturbed or non-fill designations are generally associated with surface water, discussed below, or an historic cemetery about 1 mile northeast of G. M., Linden.

While G.M., Linden's designation is Urban Land, it is apparent from the USDA mapping that impervious surface coverage takes precedent over the distinguishing elements of adjacent soil units in the delineation of the Urban Land unit. Given this, it is likely that the varied fill defined adjacent to G.M., Linden continues under G.M. Linden. This conclusion is supported by the debris, including glass, metal and plastic fragments, encountered during the initial sampling.

Bedrock is about 30 - 40 feet below grade and bedrock surface slopes northwest in a buried-valley below G.M. Linden (Nemickas, 1974). G.M. Linden is near the bottom of the Arthur Kill watershed. It is approximately 30 feet above mean sea level. There are two nearby streams: Kings Creek is less than half of a mile to the south and flows to the Rahway River, and Morses Creek is less than half a mile to the north and flows to the Morses River. Both rivers discharge to the Arthur Kill, approximately 3 miles east of G.M., Linden.

4.0 PREVIOUS SAMPLING AND DISCUSSION

Soil samples for the closure of Container Storage Area #1 were collected November 28, 1989. In accordance with the NJDEPE approved Closure Plan, the samples were analyzed for Target Compound List (TCL) metals, volatile organic compounds (VOC) +10 and semi-volatile organic compounds (SV) +20. The sampling was audited by NJDEPE Bureau of Environmental Measurement and Quality Assurance (BEMQA) field auditor Fred DeClement. No deficiencies were noted during the audit according to Mr. DeClement's November 30, 1989 memorandum. BEMQA also reviewed the laboratory's Quality Assurance/Quality Control data and accepted the sampling results. RCRA closure specific results are summarized in Table 4.0.

4.1 Volatile Organic Compounds

All target sample results were not detected (N.D.) for all VOC except acetone which was detected in five of the six soil samples and the Field Blank, but not the laboratory prepared Trip Blank. The acetone ranged from 52 micrograms/kilograms (ug/kg) to 100 ug/kg in the soil samples and 210 ug/kg in the field blank. Acetone was used to decontaminate field equipment during the sampling which is believed to be the source of this result.

Further, these results do not represent an environmental concern since acetone is listed as Hazardous Waste U002 in NJAC 7:26 - 8.15 solely for the characteristic of ignitability, which would not be displayed by the levels of acetone identified in the soils sampled. These results do not require action relative to closure at this unit since acetone is not a constituent of F017 and the levels of acetone identified do not represent an environmental concern associated with D001 wastes.

4.2 Metals

Metal results are compared to NJDEPE guidance for Priority Pollutant Metals since the NJDEPE has not established guidance for all TCL metals. Cadmium, chromium and lead are the only metals associated with the RCRA wastes stored in this storage area. Other metals were detected at levels above those found at off-pad locations BH1 and BH6, but are not associated with wastes stored at Container Storage Area #1. The potential source, or impact, of metals other than cadmium, chromium and lead will not be discussed herein since these are not Closure related issues.

Cadmium was detected at all six soil sample locations. The off-pad levels were 6.7 milligrams/kilogram (mg/kg) and 4.2 mg/kg in samples BH-1 and BH-6, respectively. Three storage area samples fell in this general range while sample location BH-5 yielded the highest result of 12.7 mg/kg cadmium. The NJDEPE guidance value for cadmium is 3 mg/kg, further sampling is proposed to determine if cadmium represents an environmental concern in this area.

Chromium results ranged from 42 mg/kg at location BH-5, to 21 mg/kg at location BH-4. All levels are below the NJDEPE 100 mg/kg guide line and do not represent an environmental concern. No further investigation of chromium is warranted.

Off-pad lead sampling yielded 1530 mg/kg and 1300 mg/kg lead, while the storage area lead samples yielded 6430 mg/kg, 2340 mg/kg, 1110 mg/kg and 8300 mg/kg. The two highest results occurred at locations BH-5 and BH-2 which are nearest to each other at the former pad boundary. The NJDEPE guidance value for lead is 500 mg/kg, further sampling is proposed to determine if lead represents an environmental concern in this area.

4.3 Semi-Volatiles

SV were detected in the initial closure soil sampling. However, SV are not related to RCRA wastes stored at this unit as discussed in Section 2.0. SV are not an issue for the closure of Container Storage Area #1.

General Motors - Linden Plant
Soil Analytical Summary
Table 4.0

NJDEPE Guidance Value*	Parameter	BH1	BH1D	BH2	BH3	BH4	BH5	BH6	Field Blank	Trip Blank
10	Antimony	23	7	71	15	9	49	19	ND	NA
20	Arsenic	8	4	21	6	7	8	7	ND	NA
400	Barium	697	707	796	1,640	828	1,940	539	ND	NA
1	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	NA
3	Cadmium	7	6	5	7	6	13	4	ND	NA
100	Chromium	37	28	26	31	21	42	31	ND	NA
170	Copper	80	81	166	184	191	391	102	ND	NA
500	Lead	1,300	1,290	6,430	2,340	1,110	8,300	1,530	0.013	NA
100	Nickel	34	30	26	36	26	46	28	ND	NA
1	Mercury	0.44	0.41	0.32	0.15	0.34	0.53	ND	ND	NA
4	Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND
5	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND
100	Vanadium	32	25	24	32	23	30	53	ND	NA
350	Zinc	778	703	1,340	5,210	929	2,550	320	0.085	NA
**	SV	51.1	34.8	147.5	134.3	22.4	230.9	21.6	ND	NA
**	Acetone	0.06	0.09	0.06	0.1	0.05	0.1	ND	0.021	ND

Samples Collected
November 28-29, 1989

ND - Not Detected
NA - Not Analyzed
* - Based on commonly used NJDEPE soil evaluation criteria. Earliest reference found is the NJDEPE's Bureau of Industrial Site Evaluation, June, 1986 list of Action Levels in use.
Units - milligrams per kilogram (mg/kg)
SV - Semi-Volatiles
VOC - Volatile Organic Compounds
D - Duplicate Analysis
** - Guidance values determined on a case by case basis.

5.0 PROPOSED SAMPLING

The proposed sampling is based on discussions with the NJDEPE at the June 18, 1991 meeting. G.M. Linden's November 1988 Closure Plan, which was approved by the NJDEPE and the results scrutinized and accepted by the NJDEPE, included full TCL metals, VOC+10 and SV+20. The proposed sampling plan is based on locations, depths and parameters suggested by the NJDEPE on June 18, 1991. One randomly selected off-pad location will be advanced by continuous split spoon to the water table for the purpose of logging site geology.

Constituents to be analyzed and their applicability to closure are presented in Table 5.0. Although antimony, barium, cadmium, lead, zinc, VOC+10 and SV+20 are proposed, only the cadmium, lead and VOC are applicable to the closure requirements for Container Storage Area #1. All other sampling results are for other purposes as per the separate "Fenceline Soil Sampling Plan". Sample locations GMR1 through 4 will be considered local background for RCRA closure parameters and compared with GMR5 and 6 and samples previously collected within the defined limits of Container Storage Area #1.

Two separate reports will be prepared from this one sampling event. One report will address only cadmium, lead and VOC+10 and will be used for closure acceptance. The second report will include all parameters analyzed and is for a separate and distinct investigation, as discussed in the "Fenceline Soil Sampling Plan", divorced from closure activities. Limiting the scope of the closure sampling to lead, cadmium and VOC is consistent with discussions at the July 18, 1991 meeting and closure requirements under RCRA.

No VOC were detected excluding the acetone attributable to sampling activities. However, as per discussions with NJDEPE on July 18, 1991, VOC sampling will be conducted at all locations 18-24 inches below the bottom of the asphalt.

Based on the initial soil sampling, antimony, barium, cadmium, lead and zinc will be sampled 6-12 inches and 18-24 inches below the bottom of the asphalt in all locations. However, the only metals of concern for closure are lead, cadmium and chromium, all of which are associated with F017. Chromium was not found to be an environmental concern during the first round of sampling and additional analyses are not warranted. Lead and cadmium are the only metals associated with Container Storage Area #1 warranting further investigation.

SV will be sampled at all locations 6-12 and 18-24 inches below the bottom of the asphalt. However, SV are not associated with Container Storage Area #1. No further SV sampling is warranted for closure of this unit.

5.1 Collection and Analysis

Samples will be collected and preserved in accordance with NJDEPE protocol as outlined in Appendix A. All samples will be analyzed by the most current methods of SW846 by Envirotech Research, New Jersey, (Certified Laboratory Number 12543). Analytical results will be submitted in accordance with the requirements of SW846, latest edition as requested in the NJDEPE's August 15, 1989 correspondence.

5.2 Schedule

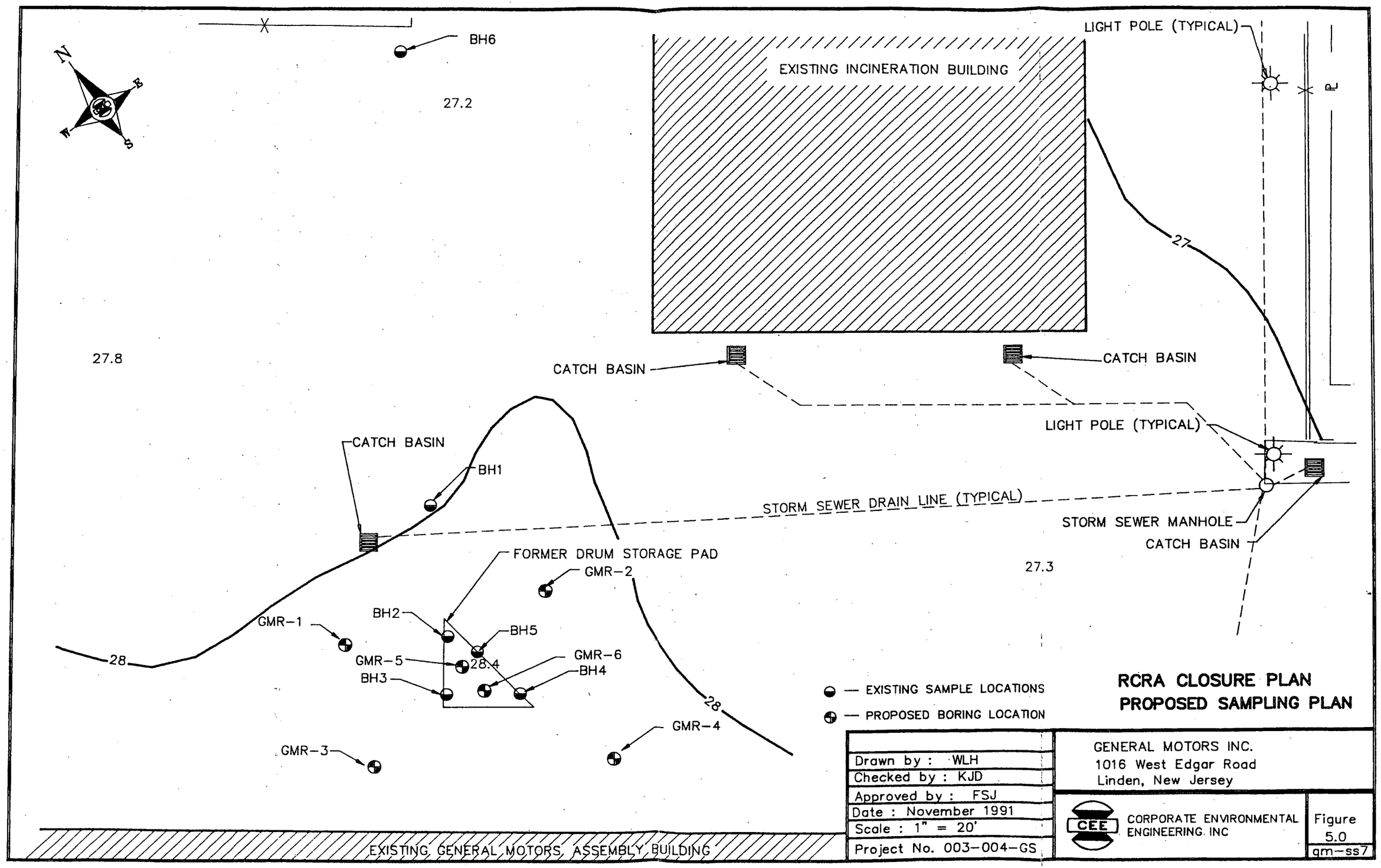
The proposed sampling will be implemented within 30 days of receipt of written approval of this plan by NJDEPE. The results of the proposed sampling will be submitted to the NJDEPE within 100 days of receipt of written approval by NJDEPE.

General Motors - Linden Plant
RCRA Closure - Storage Pad
Proposed Sampling, August 1991
Table 5.0

Analysis	Sampling Interval 6 to 12 inches Below Paving	Sampling Interval 18 to 24 inches Below Paving	Required for Closure
Antimony	X	X	
Barium	X	X	
Cadmium	X	X	X
Lead	X	X	X
Zinc	X	X	
VOC+10	Complete*	X	X
SV+20	X	X	

Depth intervals applicable to all sampling locations.

VOC+10 - Volatile Organic Compounds plus library search of next 10 compounds.
SV+20 - Semi-Volatile Organic Compounds plus library search of next 20 compounds.
* - Previously implemented sampling, approved by NJDEPE, included full TCL analysis in this interval.



RCRA CLOSURE PLAN
PROPOSED SAMPLING PLAN

Drawn by : WLH	GENERAL MOTORS INC.
Checked by : KJD	1016 West Edgar Road
Approved by : FSJ	Linden, New Jersey
Date : November 1991	CORPORATE ENVIRONMENTAL ENGINEERING INC
Scale : 1" = 20'	Figure 5.0
Project No. 003-004-GS	gm-ss7

6.0 REFERENCES

Nemickas, B., 1974. Bedrock Topography and Thickness of Pleistocene Deposits in Union County and Adjacent Areas, New Jersey: U.S. Geological Survey, Map I-795 (2 maps).

USDA Soil Conservation Service. Soil Survey of Union County, New Jersey, Maps 6, 7, 9 and 10. Final survey currently being compiled.

APPENDIX A

SOIL QUALITY ASSURANCE QUALITY CONTROL PLAN

Quality Assurance Quality Control Plan
for Ground Water and Aqueous Materials

I. GROUND WATER

A. Objective and Site Specific QA/QC Plan

1.0 Sampling Methods

1.1 Sample Preparation
1.2 Sample Handling and Labeling
1.3 Sample Filtration and Preservation

2.0 Sampling Equipment

2.1 Sample Containers
2.2 Equipment Decontamination

3.0 Quality Assurance

3.1 Chain of Custody
3.2 Quality Assurance Samples
3.2.1 Trip and Field Blanks
3.2.2 Duplicate Samples

4.0 Laboratory Methodology

4.1 Laboratory Deliverables

I. GROUND WATER AND AQUEOUS SAMPLING

A. QUALITY ASSURANCE/QUALITY CONTROL PLAN

The objective of this QA/QC Plan is to outline a Ground Water and Aqueous Sampling and analysis Program (SSAP) which ensures the reliability of data collected and analyzed during remedial investigations performed by CEE personnel.

1.0 Ground Water Sampling Methods

Samples are collected at the well locations or surface water locations as described in the sampling plan set forth in this document. Procedural changes dictated by field conditions are fully documented in the field notes and in the report of results.

Accurate field notes are maintained on field data sheets or in a bound filed notebook. Information recorded includes but is not limited to:

a. Well Number and/or sample location sketch;
b. Aqueous sample description;
c. Sample time;
d. Sample date;
e. Depth to ground water;
f. Depth to bottom of well;
g. Height of water column;
h. Volume of water purged from well;
i. General comments, including any modification or deviation from the Site Sample and Analysis Plan (SSAP).

1.1 Sample Preparation

All aqueous samples are transferred immediately after collection into sample bottles selected by parameter as listed in section 2.1 of this plan. Samples collected for Volatile Organic Analysis in addition to other parameters are placed in collection vials first as required by the NJDEP. The remaining portion of the sample is then placed in the appropriate containers.

1.2 Sample Handling and Labeling

Disposable gloves are utilized during sample collection to reduce the potential for crossed contamination between samples and as Personal Protective Equipment (PPE) in accordance with OSHA requirements set forth in 29 CFR 1910.120. Disposable gloves are changed between sample locations if they come in contact with the aqueous sampling medium.

All samples are packed on ice immediately following collection and will be kept cool until delivery to the laboratory. All samples are labeled with the following information:

a. sample number;
b. date and time of collection;
c. site name;
d. sample depth;
e. sample collector's initials;
f. analysis requested.

1.3 Sample Filtration and Preservation

Samples analyzed for metals are field filtered and preserved immediately after sample collection in accordance with EPA criteria as listed below.

a. filtering through a cleaned dedicated 0.45 micron filter or similar dedicated disposable 0.45 micron filter,

b. adjust pH of sample to < 2.0 with nitric acid.

2.0 Ground Water Sampling Equipment

In general, the following equipment is used for obtaining ground water samples from monitor wells and for the measurement and purging of wells prior to sampling.

a. Teflon, bottom loading, single check valve bailers equipped with dedicated stainless steel or Teflon leaders,
b. Field Filtering Equipment, etc.
c. M-Scopes,
d. Portable pumps and piping.

Additional aqueous sampling equipment for specific surface water or other aqueous sampling equipment varies according to task and is outlined within the SSAP.

2.1 Sample Containers

Sample bottles used for CEE projects are prepared in accordance with NJDEP criterion for the respective sample parameters by the contract laboratory as listed within the NJDEP Field Sampling Procedures Manual, Section IV, Table 4. and in accordance with EPA criterion for Metals, Volatile Organics and Base Neutral Extractables listed within "Standard Methods for the Examination of Water and Wastewater", latest edition, APHA; "EPA Manual of Methods for Chemical Analysis of Water and Wastes", 1972 as amended; "EPA Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods" (SW-846), or other methods approved by EPA.

The type and size of sample containers required for ground water and aqueous sampling include:

a. Petroleum hydrocarbons - 500 ml glass jars with Teflon liner closures;

b. Volatile Organic Compounds - 40 ml glass vials with Teflon septa and plastic closures;

c. Base Neutral/Acid Extractable Organic Compounds - 500 ml glass jars with Teflon lined closure;

d. PCB & Pesticides - 500 ml glass jars with Teflon lined closure;

e. Priority Pollutant Metals - 500 ml glass or plastic jars with Teflon lined closure;

2.2 Equipment Decontamination

All equipment which comes into contact with the aqueous samples is cleaned prior to use in the following manner:

a. detergent wash;(Alconox)
b. tap water rinse;
c. distilled/deionized water rinse;
d. 10% nitric acid rinse[1];
e. distilled/deionized water rinse;
f. methanol or acetone rinse;
g. air dry;
h. distilled/deionized water rinse.

Field equipment which is re-used on the project site is decontaminated in accordance with the methods described above.

---

[1] 10% Nitric Acid (HNO_3) rinse only applies to sampling equipment used on samples to be analyzed for metals.

3.0 Quality Assurance

3.1 Chain of Custody

Chain of custody is maintained for all samples. Chain of custody originates with the collection of the samples and is maintained until the samples are relinquished to the laboratory. The chain of custody form details the sampler's name and organization, the site location, sample designation, the time and date of sample collection, sample depth, sample analysis and all custody changes with their appropriate signatures.

Request for analysis forms are implemented prior to the submission of samples to the designated laboratory if additional conditions other than those specified on the chain of custody apply. They detail; the site name, sample designation, date of sampling, date of request, priority, and analytic parameters.

3.2 Quality Assurance Samples

3.2.1 Trip and Field Blanks

In order to place control on sample handling and to determine if contamination may have occurred to samples in transit or in the laboratory, trip blanks are supplied by the analytical laboratory when required under the sampling protocols for Volatile Organics of the regulatory agency. Trip blanks consist of a set of 40 ml sample containers filled with laboratory demonstrated, analyte-free water. The sample containers themselves are not opened in the field. Rather, they travel with the sample collector and are analyzed in the same manner as the Volatile Organic samples acquired that day.

Trip blank results are evaluated when the analytical data returns. Corrections in field procedures are made according to various trends found in the data. Trip blank results are also used in the data validation process.

Field blanks are prepared on every day samples are collected in most cases. Deviations may occur concerning the frequency of field blank collection based upon the number of sample and sampling days and the protocols of the governing regulatory agency. Distilled/deionized analyte-free water provided by the laboratory is poured over sample equipment into laboratory prepared bottles. Field blanks were analyzed for the most comprehensive analysis required for samples collected on that day.

3.2.2 Duplicate Samples

Duplicate samples are collected at randomly selected locations at a frequency of approximately 5% for analysis of the corresponding sample parameters for quality

assurance purposes as required by the NJDEP under special conditions. If duplicate samples are to be utilized during a project, it is so noted in the Soil Sampling and Analysis Plan.

4.0 Analytical Methodology

Soil, solid and semi-solid sample methodologies vary on a case by case basis. Therefore, specific analytical parameters for each case are indicated within the SSAP Sample Summary Table(s). All laboratory analyses are conducted in accordance with "Standard Methods for the Examination of Water and Wastewater", latest edition, APHA; "EPA Manual of Methods for Chemical Analysis of Water and Wastes", 1972 as amended; "EPA Test Methods for the Evaluation of Solid Waste", "Physical/Chemical Methods (SW-846)" 3rd edition, or other methods approved by EPA.

In general, the following sample parameters are utilized to determine the type of contamination during remedial site investigations.

a. Volatile Organic Compounds - U.S. EPA Method 624 + 15
b. Volatile Organic Compounds - U.S. EPA Method 8240
c. Volatile Organic Compounds - U.S. EPA Method 601
d. Volatile Organic Aromatic Compounds - U.S. EPA Method 601
e. Semi-Volatile Organic Compounds - U.S. EPA Method 625 + 15
f. Semi-Volatile Organic Compounds - U.S. EPA Method 8250
g. PCB's & Pesticides - U.S. EPA Method 608
h. Petroleum Hydrocarbons by IR - Method 401.8
i. Priority Pollutant Metals - SW 846 - 3rd Edition

4.1 Laboratory Deliverables

Laboratory deliverables vary with the requirements of the regulatory agency having jurisdiction over the project. The following general laboratory deliverables are provided.

Deliverables	Project Type
Tier II	NJDEP - Environmental Cleanup Responsibility Act
80% Tier II 20% Tier I	NJDEP - Bureau of Case Management
Tier II	NJDEP BUST - Modified BUST Format for DICAR

APPENDIX B

PART A PERMIT

(Fill—in areas are spaced for elite type, i.e., 12 characters/inch).

Form Approved OMB No. 158-R0175

EPA

NJD002186690

~~GENERAL MOTORS CORP~~
1016 WEST EDGAR RD
LINDEN, NJ 07036

1016 WEST EDGAR RD
LINDEN, NJ 07036

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill—in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill—in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

I. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold—faced terms.

SPECIFIC QUESTIONS	MARK 'X' YES	MARK 'X' NO	MARK 'X' FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X	
B. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)		X	
C. Does or will this facility treat, store, or dispose of hazardous waste? (FORM 3)	X		X
D. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X	
E. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	
F. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
G. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
H. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
I. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

II. NAME OF FACILITY

GMC GM ASSEMBLY DIVISION LINDEN PLANT

III. FACILITY CONTACT

A. NAME & TITLE (last, first, & title)	B. PHONE (area code & no.)
MUNDTH GERALD PLANT ENGINEER	201 474 4070

IV. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX

B. CITY OR TOWN | C. STATE | D. ZIP CODE

V. FACILITY LOCATION

UNION

EPA Form 3510-1 (6-80)

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST	B. SECOND
3711 (specify) AUTOMOBILE ASSEMBLY	(specify)
C. THIRD	**D. FOURTH**
(specify)	(specify)

VIII. OPERATOR INFORMATION

A. NAME: GMC GM ASSEMBLY DIVISION LINDEN PLANT

B. Is the name listed in Item VIII-A also the owner? ☒ YES ☐ NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)
F = FEDERAL; S = STATE; P = PRIVATE; M = PUBLIC (other than federal or state); O = OTHER (specify)
P (specify)

D. PHONE (area code & no.): A 201 474 4000

E. STREET OR P.O. BOX: 1016 WEST EDGAR ROAD

F. CITY OR TOWN: LINDEN

G. STATE: NJ

H. ZIP CODE: 07036

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☒ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water): N NA	D. PSD (Air Emissions from Proposed Sources): P NA
B. UIC (Underground Injection of Fluids): U NA	E. OTHER (specify): (specify) SEE ATTACHED LIST
C. RCRA (Hazardous Wastes): R NA	E. OTHER (specify): (specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

GENERAL MOTORS AUTOMOBILES ARE ASSEMBLED AT THIS FACILITY PREFABRICATED PARTS ARE SHIPPED TO THIS FACILITY FROM VARIOUS SUPPLIERS AND ASSEMBLED INTO AUTOMOBILES

XIII. CERTIFICATION (see instructions)

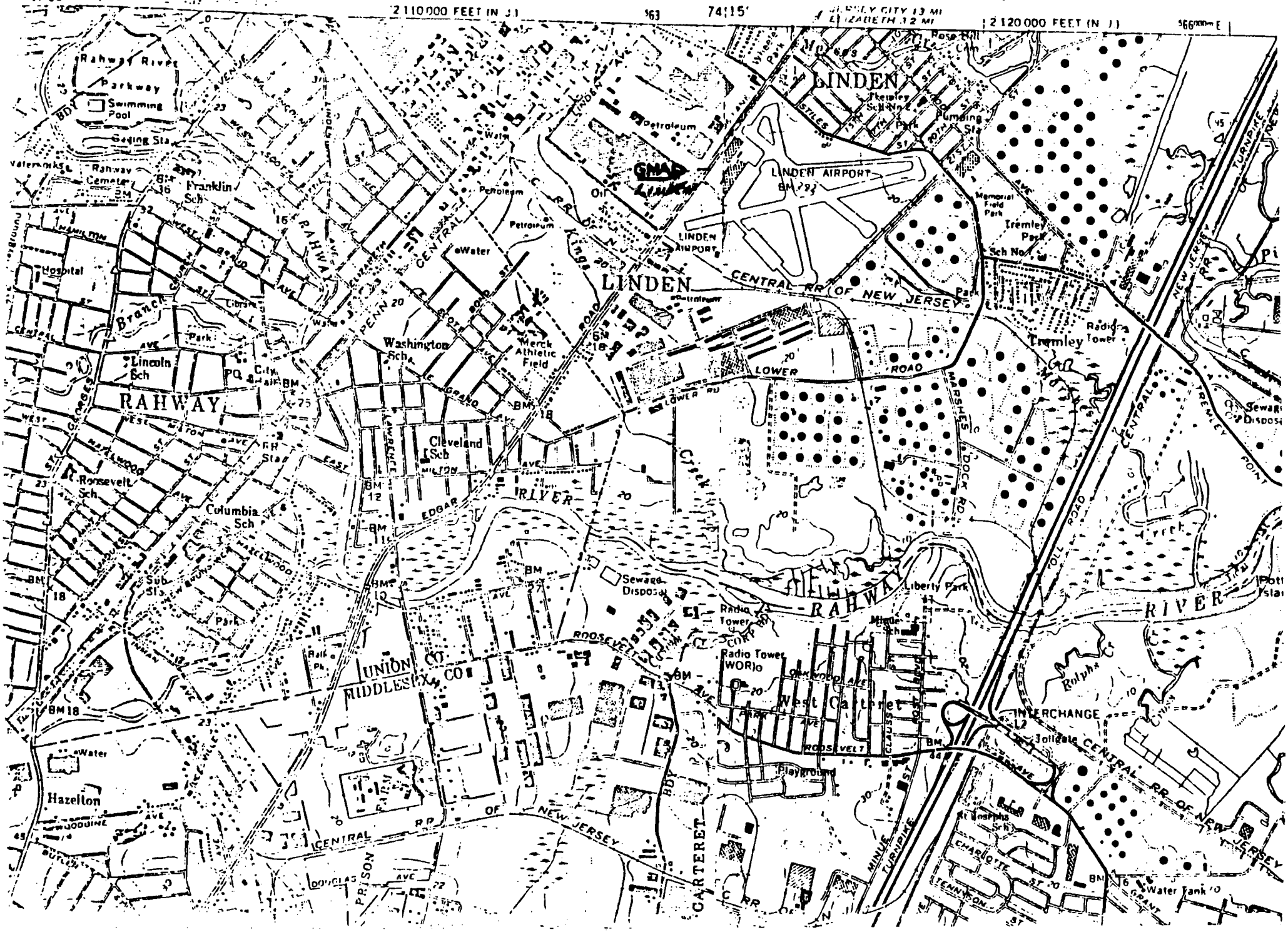
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
P. J. Coletta - GM Assembly Division Vice-President and General Manager	P J Coletta	11/17/8

COMMENTS FOR OFFICIAL USE ONLY

PERTH AMBOY QUADRANGLE
NEW JERSEY–NEW YORK
7.5 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



Form Approved. O.M.B. No. 158-S80004

FORM 3510-3 (6-80)

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

HAZARDOUS WASTE PERMIT APPLICATION

Consolidated Permits Program

I. EPA I.D. NUMBER

N J D 0 0 2 1 8 6 6 9 0

FOR OFFICIAL USE ONLY

APPLICATION APPROVED | DATE RECEIVED | COMMENTS

II. FOR REVISED APPLICATION

If this is your first application you are submitting for your facility, skip to Item III below. If this application is a revision to an application already submitted, enter your facility's EPA I.D. Number in Item I above and then answer Item II below.

1. For existing facilities, enter the date (mo., day, & yr.) you began operating or the date you began construction.

X EXISTING FACILITY (See instructions for definition of "commenced")

3 1 0 5 1 5

2. For new facilities, provide the date (mo., day, & yr.) you began operating or the date you expected to begin operating.

NEW FACILITY (Complete Item 2 below)

3. For revised applications, if you know or have reason to believe that any of the facilities listed in Item I above have been granted an Interim Status Permit or a RCRA Permit, enter the facility's EPA I.D. Number in the appropriate space.

1. FACILITY HAS INTERIM STATUS

2. FACILITY HAS A RCRA PERMIT

III. PROCESSES – CODES AND DESIGN CAPACITIES

A. PROCESS CODE – Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided on the form (Item III-C).

B. PROCESS DESIGN CAPACITY – For each code entered in column A enter the capacity of the process.

1. AMOUNT – Enter the amount.

2. UNIT OF MEASURE – For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D80	GALLONS OR LITERS
LANDFILL	D80	ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER
LAND APPLICATION	D81	HECTARES
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR OR GALLONS PER HOUR OR LITERS PER HOUR
OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided. Item III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
GALLONS PER DAY	U
LITERS PER DAY	V
TONS PER HOUR	D
METRIC TONS PER HOUR	W
GALLONS PER HOUR	E
LITERS PER HOUR	H
ACRE-FEET	A
HECTARE-METER	F
ACRES	B
HECTARES	Q

EXAMPLE FOR COMPLETING ITEM III (shown in the numbers X-1 and X-2 below): A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 2000 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

LINE NO.	A. PROCESS CODE (From list above)	B. PROCESS DESIGN CAPACITY (1) AMOUNT	(2) UNIT OF MEASURE (From list above)	FOR OFFICIAL USE ONLY
X-1	S02	6000	G	
X-2	S01	15000	G	
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

LINE NO.	A. PROCESS CODE (From list above)	B. PROCESS DESIGN CAPACITY (1) AMOUNT	(2) UNIT OF MEASURE (From list above)	FOR OFFICIAL USE ONLY
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Continued from the front.

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER — Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY — For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each **characteristic** or **toxic contaminant** entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled on or possess that characteristic or contaminant.

C. UNIT OF MEASURE — For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For **listed hazardous waste:** For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For **non-listed hazardous wastes:** For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the remaining box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION — If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER — Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in lines numbered X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 300 pounds of waste F001 (primary smelting from either zinc, lead, or tin refining operation). In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARDOUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	F 0 0 1	300	P	T 0 3 D 8 0	
X-2	D 0 0 2	200	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				included with above

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

I. EPA I.D. NUMBER (enter from page 1)		FOR OFFICIAL USE ONLY	
W N J D 0 0 2 1 8 6 6 9 0	1	DUP	2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (If a code is not entered in D(1))
1	F017	400	T	S01	
2	F003	100	T	S02	
3	F005				INCLUDED WITH ABOVE
4	D001	50	T	S01	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

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CONTINUE ON REVERSE

ontinued from the front.

V. DESCRIPTION OF HAZARDOUS WASTES *(continued)*

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

EPA I.D. NO. *(enter from page 1)*

	N	J	D	0	0	2	1	8	6	6	9	0		6

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail).*

VI. PHOTOGRAPHS

All existing facilities must include photographs *(aerial or ground-level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail).*

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE *(degrees, minutes, & seconds)*	LONGITUDE *(degrees, minutes, & seconds)*
40 37 6 N	74 15 25 W

VIII. FACILITY OWNER

☒ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. *(area code & no.)*
E	

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE
F	G		

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

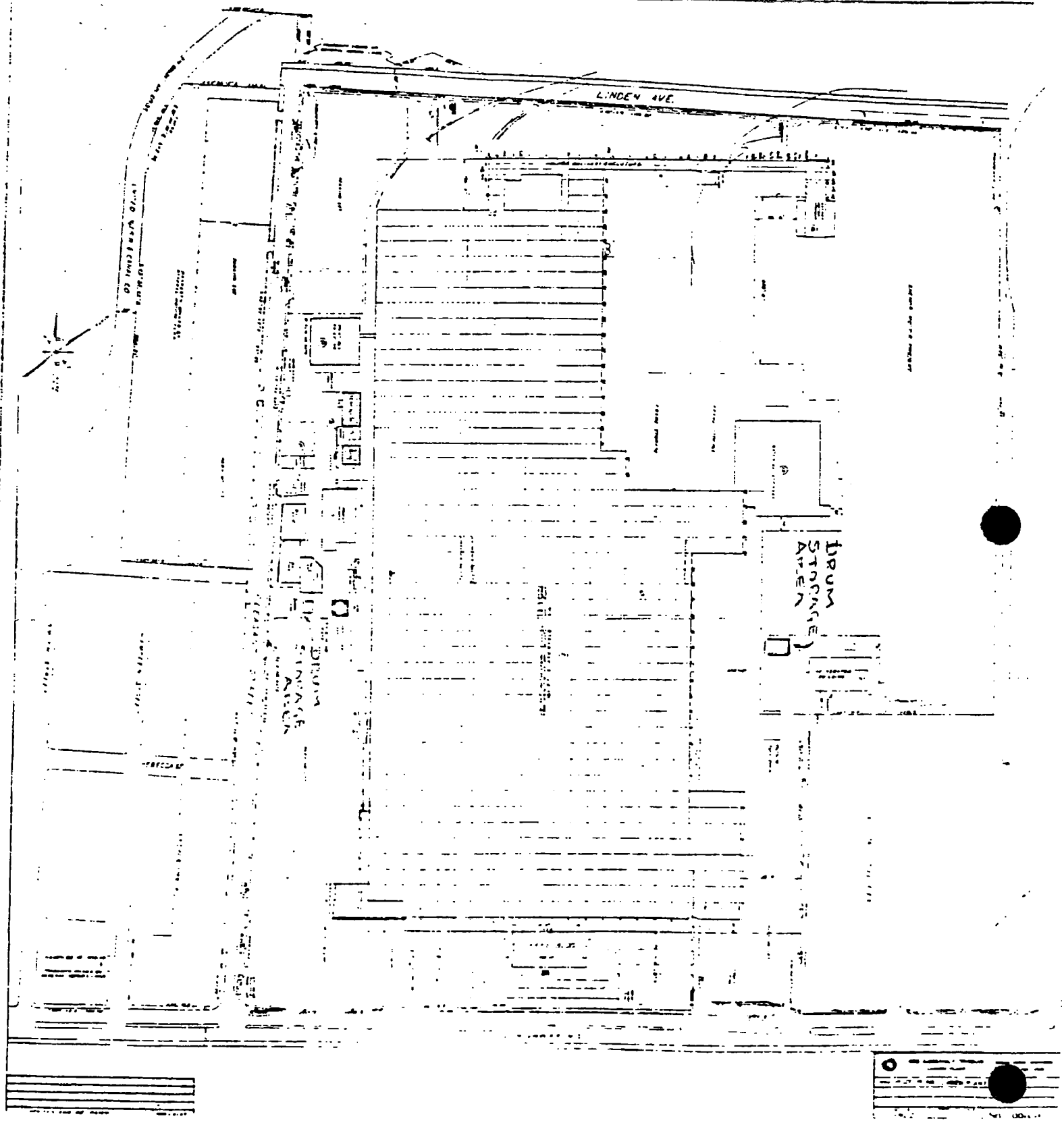
A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED
P. J. Coletta - GM Assembly Division Vice-President and General Manager	P. J. Coletta	11/17/80

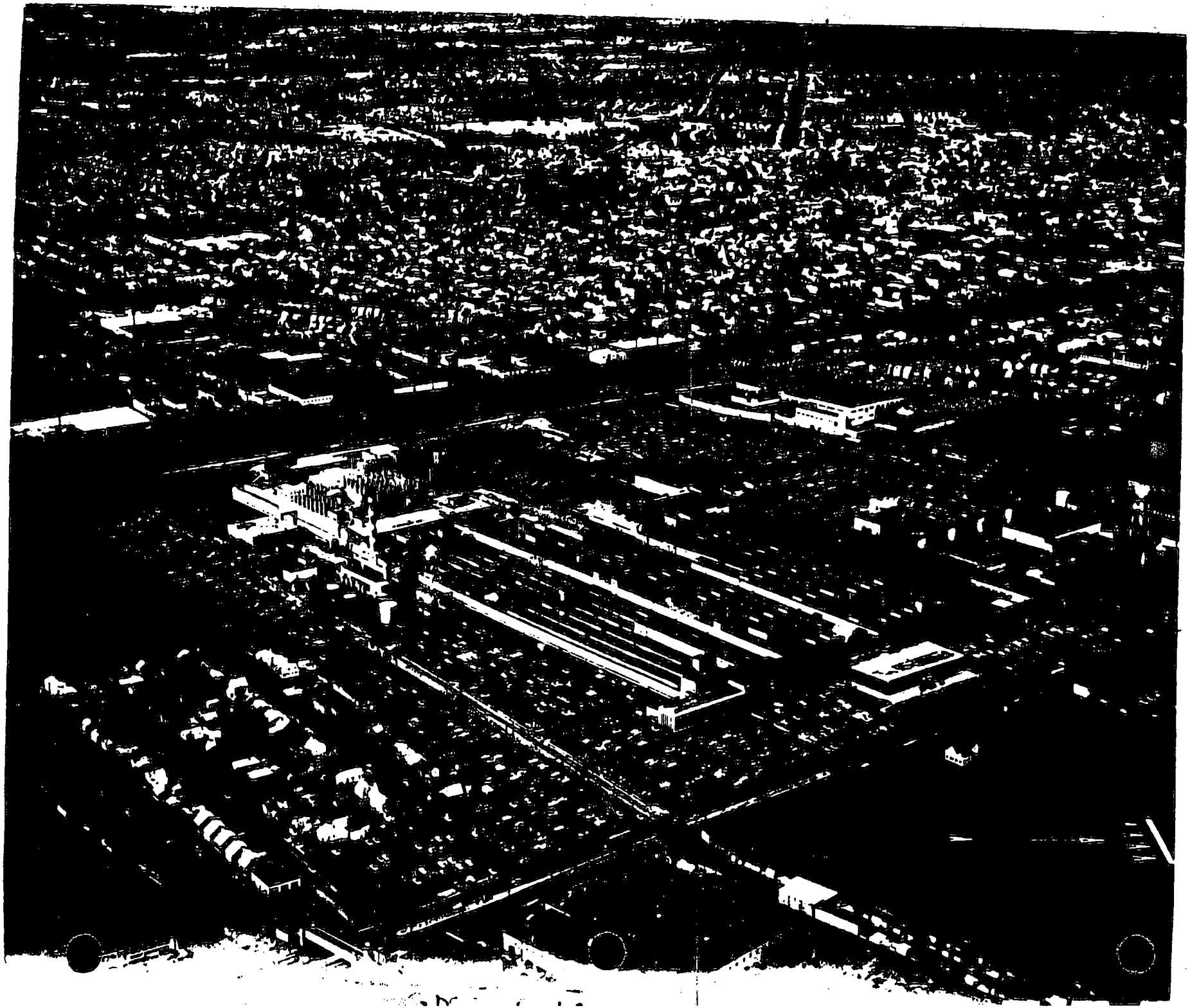
X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED

CONTINUE ON PAGE 5


LINDEN AVE.
DRUM STORAGE AREA
DRUM STORAGE AREA



FORM 1 GENERAL

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

LABEL ITEMS

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)				B. Does or will this facility *(either existing or proposed)* include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)			
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)				D. Is this a proposed facility *(other than those described in A or B above)* which will result in a discharge to waters of the U.S.? (FORM 2D)			
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)				F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)			
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)				H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)			
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)				J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)			

III. NAME OF FACILITY

1 SKIP

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*

B. PHONE *(area code & no.)*

2

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX

3

B. CITY OR TOWN | C. STATE | D. ZIP CODE

4

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

5

B. COUNTY NAME

C. CITY OR TOWN | D. STATE | E. ZIP CODE | F. COUNTY CODE *(if known)*

6

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

A. FIRST	B. SECOND
C 7 (specify)	C 7 (specify)
C. THIRD	**D. FOURTH**
C 7 (specify)	C 7 (specify)

VIII. OPERATOR INFORMATION

A. NAME

C 8

B. Is the name listed in Item VIII-A also the owner? ☐ YES ☐ NO (60)

C. STATUS OF OPERATOR *(Enter the appropriate letter into the answer box; if "Other", specify.)*

F = FEDERAL
S = STATE
P = PRIVATE
M = PUBLIC *(other than federal or state)*
O = OTHER *(specify)*

(specify)

D. PHONE *(area code & no.)*

C A

E. STREET OR P.O. BOX

F. CITY OR TOWN

C B

G. STATE

H. ZIP CODE

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☐ NO (82)

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES *(Discharges to Surface Water)*

C T I 9 N

D. PSD *(Air Emissions from Proposed Sources)*

C T I 9 P

B. UIC *(Underground Injection of Fluids)*

C T I 9 U

E. OTHER *(specify)*

C T I 9 (specify)

C. RCRA *(Hazardous Wastes)*

C T I 9 R

E. OTHER *(specify)*

C T I 9 (specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property bounderies. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS *(provide a brief description)*

XIII. CERTIFICATION *(see instructions)*

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE *(type or print)*	B. SIGNATURE	C. DATE SIGNED

COMMENTS FOR OFFICIAL USE ONLY

C

FORM 3 RCRA

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

HAZARDOUS WASTE PERMIT APPLICATION

Consolidated Permits Program

(This information is required under Section 3005 of RCRA.)

I. EPA I.D. NUMBER

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below *(mark one box only)* to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

☐ 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

FOR EXISTING FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*

☐ 2. NEW FACILITY *(Complete item below.)*

FOR NEW FACILITIES PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION *(place an "X" below and complete Item I above)*

☐ 1. FACILITY HAS INTERIM STATUS

☐ 2. FACILITY HAS A RCRA PERMIT

III. PROCESSES – CODES AND DESIGN CAPACITIES

A. PROCESS CODE – Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the form *(Item III-C)*.

B. PROCESS DESIGN CAPACITY – For each code entered in column A enter the capacity of the process.

1. AMOUNT – Enter the amount.
2. UNIT OF MEASURE – For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER *(barrel, drum, etc.)*	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D79	GALLONS OR LITERS
LANDFILL	D80	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D81	ACRES OR HECTARES
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER *(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)*	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
GALLONS PER DAY	U
LITERS PER DAY	V
TONS PER HOUR	D
METRIC TONS PER HOUR	W
GALLONS PER HOUR	E
LITERS PER HOUR	H
ACRE-FEET	A
HECTARE-METER	F
ACRES	B
HECTARES	Q

EXAMPLE FOR COMPLETING ITEM III *(shown in line numbers X-1 and X-2 below)*: A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY
X-1	S02	600	G		5				
X-2	T03	20	E		6				
1					7				
2					8				
3					9				
4					10				

C DUP T/A C 1

III. PROCESSES *(continued)*

(SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER – Enter the four–digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four–digit number*(s)* from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY – For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non–listed waste*(s)* that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE – For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:
   For listed hazardous waste: For each listed hazardous waste entered in column A select the code*(s)* from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.
   For non–listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code*(s)* from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non–listed hazardous wastes that possess that characteristic or toxic contaminant.
   Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code*(s)*.

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER – Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV *(shown in line numbers X-1, X-2, X-3, and X-4 below)* – A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non–listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARD. WASTE NO (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (If a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				included with above

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)

W

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IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

IV. DESCRIPTION OF HAZARDOUS WASTES *(continued)*

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

EPA I.D. NO. *(enter from page 1)*

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
I													6	

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

VI. PHOTOGRAPHS

All existing facilities must include photographs *(aerial or ground—level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail)*.

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE *(degrees, minutes, & seconds)*	LONGITUDE *(degrees, minutes, & seconds)*
15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50

VIII. FACILITY OWNER

☐ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. *(area code & no.)*
E 15 16 ... 55	56 57 58 59 60 61 62 63 64 65

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE
F 15 16 ... 42	G 15 16 ... 42	43 44	45 46 47 48 49 50 51 52

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED

CONTINUE ON PAGE 5

V. FACILITY DRAWING *(see page 4)*

APPENDIX C

FEDERAL REGISTER REGARDING F017

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ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 261

[SWH-FRL 1627-3]

Hazardous Waste Management System; Identification and Listing of Hazardous Waste

AGENCY: U.S. Environmental Protection Agency.

ACTION: Final rule and temporary suspension of interim final rule.

SUMMARY: In response to public comment, the Environmental Protection Agency (EPA) today is finalizing the listings of thirteen hazardous wastes from specific sources that were proposed or promulgated in interim final form in the Federal Register on July 16, 1980 (45 FR 47832–47836). In addition EPA is deleting two wastes from its interim final hazardous waste list, and is deferring action on and suspending the effectiveness of nine wastes listed in interim final form on July 16, 1980, as well as deferring action on one waste that was proposed on that date.

EPA is also amending Appendix VII of this Part by finalizing the toxic constituents of concern for each listed waste promulgated today.

DATES: Effective dates: Waste listings promulgated in interim final form on July 16, 1980, which are finalized today, become effective on January 16, 1981. Waste listings which were proposed on July 16, 1980, and which are finalized today, become effective on July 16, 1981.

See supplementary information for further details.

ADDRESSES: The public docket for this regulation is located in Room 2711, U.S. Environmental Protection Agency, 401 M Street SW., Washington, D.C. 20460, and is available for viewing from 9:00 a.m. to 4:00 p.m., Monday through Friday, excluding holidays.

FOR FURTHER INFORMATION CONTACT: Dr. Judith S. Bellin, Office of Solid Waste (WH-565), U.S. Environmental Protection Agency, 401 M Street SW., Washington, D.C. 20460, (202) 755-9187.

SUPPLEMENTARY INFORMATION: Before discussing the substance of today's action, the Agency wishes to state clearly the regulatory obligations which result from it.

I. Compliance Dates for Regulatory Obligations

A. Notification

1. Finalized Waste Listings Promulgated in Interim Final Form on July 16, 1980.

Persons who generate, transport, treat, store, or dispose of any hazardous waste listed in interim final form on July 16, 1980 which waste listing is now being finalized, are not required to notify EPA as a result of today's action. Wastes in this category are hazardous wastes K071, K073, K083, K084, K085, K086, and K087. We do not consider today's action to be a revision of the Section 3001 regulations within the meaning of Section 3010(b). All such persons, of course, should have already notified EPA by or before October 16, 1980.

2. Finalized Waste Listings Which Were Proposed on July 16, 1980.

Persons who generate, transport, treat, store, or dispose of wastes which were proposed for listing on July 16, 1980 which are being finalized today—hazardous wastes K101–K106—are not required to notify so long as they previously have notified the Agency that they handle a hazardous waste and have received an I.D. number. Persons who have not previously notified EPA and who generate or handle these wastes must now notify EPA of their activities under Section 3010 no later than April 16, 1981. Notification instructions are set forth in 45 FR 12746 (February 26, 1980).[1]

B. Other Compliance Dates

Beginning on January 16, 1981, persons handling wastes listed in final form in § 261.32, which listings were promulgated in interim final form on July 16, 1980, must comply with all applicable standards for hazardous waste generators, transporters, and owners or operators of hazardous waste management facilities set forth in 40 CFR Parts 262 through 266 and 122 through 124.

Beginning on July 16, 1981, persons handling wastes listed in final form in § 261.32 which were proposed for inclusion on July 16, 1980, must comply with all applicable standards for hazardous waste generators, transporters, and owners or operators of hazardous waste management facilities set forth in 40 CFR Parts 262 through 266 and 122 through 124.

The owners or operators of all existing hazardous waste management facilities which treat, store or dispose of wastes listed in these regulations which were proposed for inclusion on July 16, 1980, and who wish to qualify for interim status under Section 3005(e) of RCRA, must file a notification by April 16, 1981 unless they have notified previously (as described in A. 2. above), and must file a permit application by July 16, 1981 (see 40 CFR 122.23(a) (1) and (2)).

Owners or operators of facilities who have qualified for interim status and wish to manage wastes listed in the final regulations which were proposed for listing on July 16, 1980 must submit an amended permit application by July 16, 1981 (see 40 CFR 122.23(c)(1)). Owners or operators of facilities with interim status who do not comply with these requirements are precluded from managing these wastes after July 16, 1981.

Table I summarizes the Agency's action on each waste stream discussed in the July 16 Federal Register notice, and gives the effective date of each final regulation.

[1] Our authority for this action is the recent amendment to Section 3010(a) of RCRA contained in the Solid Waste Disposal Act Amendments of 1980 (Pub. L. 96-452 (October 21, 1980)), which amendment leaves the requirement for notification following revision of the Section 3001 regulations to the discretion of the Administrator.

Table I.—*Summary of the Agency's Disposition of Each Waste Stream Listed in Interim Final Form or Proposed for Listing on July 16, 1980*

EPA hazardous waste No.	Hazardous waste	Effective date and disposition
	§ 261.31 Hazardous Waste From Nonspecific Sources	
F017	Paint residues or sludges from industrial painting in the mechanical and electrical products industry.	Suspended temporarily.
F018	Wastewater treatment sludge from industrial painting in the mechanical and electrical products industry	Suspended temporarily.

ENVIRONMENTAL PROTECTION AGENCY

40 CFR Part 261

[FRL 1539-3]

Hazardous Waste Management System: Identification and Listing of Hazardous Waste

AGENCY: Environmental Protection Agency

ACTION: Interim final rule

SUMMARY: The Environmental Protection Agency (EPA) today is amending Subpart D of this Part to add eighteen wastes to the final list of hazardous wastes which the Agency promulgated on May 19 1980, under Section 3001 of the Resource Conservation and Recovery Act of 1976, as amended (RCRA). The effect of adding these wastes to the hazardous waste list will be to make them subject to the management standards issued by EPA under Sections 3002 through 3006 and 3010 of RCRA (40 CFR Parts 122 through 124 and 262 through 265 and 45 FR 12746).

Additionally, EPA is amending Appendix VII to this Part ("Basis for Listing Hazardous Waste") to include the toxic constituents for which these wastes are being listed and is revising Appendix VIII ("Hazardous Constituents") to add three toxic constituents and to delete one.

DATES: Effective Date: These regulations become effective on January 16, 1981.

Comment Date: EPA will accept public comments on these amendments until September 15, 1980.

Compliance Dates: Persons handling wastes listed in these regulations must notify EPA of their activities under Section 3010 of RCRA no later than October 14, 1980. They may, if they desire, include these wastes in the August 18, 1980, notification triggered by the May 19, 1980, publication of EPA's initial hazardous waste list. Notification instructions are set forth in 45 FR 12746 (February 26, 1980).

Beginning on January 16, 1981, persons handling wastes listed in these regulations must comply with all applicable standards for [illegible] the generators and transporters and owners and operators of hazardous waste management facilities set forth in 40 CFR Parts 122 through 124 and 262 through 265 (45 FR 33123 (May 19, 1980)).

All existing hazardous waste management facilities (as defined in 40 CFR 122.3) which treat, store or dispose of wastes listed in these regulations and wish to qualify for interim status under Section 3005(e) of RCRA must file a notification by October 14, 1980 and a permit application by January 16, 1981. Facilities which have already qualified for interim status will not be able to handle the wastes listed in these regulations after January 16, 1981 unless they file a notification by October 14, 1981 and submit an amended permit application (see 40 CFR 122.23(c)(1)).

ADDRESSES: Comments should be sent to Docket Clerk (Docket No. 3001), Office of Solid Waste (WH-562), U.S. Environmental Protection Agency, 401 M Street SW., Washington, D.C. 20460.

Public Docket: The public docket for this regulation is located in Room 2711, U.S. Environmental Protection Agency, 401 M Street, SW., Washington, D.C., and is available for viewing from 9 a.m. to 4 p.m. Monday through Friday, excluding holidays. The docket contains background documents which explain the basis for listing these wastes as hazardous.

Copies of the Regulations: Single copies of this regulation will be available approximately thirty (30) days after date of publication (August 15, 1980) from Ed Cox, Solid Waste Information, U.S. Environmental Protection Agency, 26 W. Saint Clair Street, Cincinnati, Ohio 45268, (513) 684-5362. Single copies of EPA's notification instructions and the May 19, 1980, regulations are also available from Mr. Cox.

FOR FURTHER INFORMATION CONTACT: For general information, contact Matthew A. Straus, Office of Solid Waste, U.S. Environmental Protection Agency, 401 M Street, SW., Washington, D.C. 20460, (202) 755-9187. For information on implementation contact:

Region I, Dennis Huebner, Chief, Radiation, Waste Management Branch, John F. Kennedy Building, Boston, Massachusetts 02203, (617) 223-5777.

Region II, Dr. Ernest Regna, Chief, Solid Waste Branch, 26 Federal Plaza, New York, New York 10007, (212) 264-0504/5.

Region III, Robert L. Allen, Chief, Hazardous Materials Branch, 6th & Walnut Streets, Philadelphia, Pennsylvania 19106, (215) 597-0980.

Region IV, James Scarborough, Chief, Residuals Management Branch, 345 Courtland Street, NE., Atlanta, Georgia, 30365, (404) 881-3016.

Region V, Karl J. Klepitsch, Jr., Chief, Waste Management Branch, 230 South Dearborn Street, Chicago, Illinois, 60604, (312) 886-6148.

Region VI, R. Stan Jorgensen, Chief, Solid Waste Branch, 1201 Elm Street, First International Building, Dallas, Texas 75270, (214) 767-2645.

Region VII, Robert L. Morby, Chief, Hazardous Materials Branch, 324 E. 11th Street, Kansas City, Missouri 64106, (816) 374-3307.

Region VIII, Lawrence P. Gazda, Chief, Waste Management Branch, 1860 Lincoln Street, Denver, Colorado 80203, (303) 837-2221.

Region IX, Arnold R. Den, Chief, Hazardous Materials Branch, 215 Fremont Street, San Francisco, California 94105, (415) 556-4606.

Region X, Kenneth D. Feigner, Chief, Waste Management Branch, 1200 6th Avenue, Seattle, Washington 98101, (206) 442-1260.

SUPPLEMENTARY INFORMATION: *Additional Listings.* On May 19, 1980, as part of its final and interim final regulations implementing Section 3001 of RCRA, EPA published a list of hazardous wastes (Subpart D of this Part), which included 85 process wastes and 381 commercial chemical products (45 FR 33123–33127). In the preamble to that regulation (45 FR 33087), we stated that we intended to amend this list in June to add twenty-five wastes which we had proposed for listing on December 18, 1978 (43 FR 58957–58959) or August 22, 1979 (44 FR 49403–49404), but for which final listing decisions could not be made, and final background documents could not be prepared, in time for the May promulgation (Appendix A, 45 FR 33117–33118).

Eighteen of these wastes are being added to EPA's hazardous waste list today. Included in this supplemental list are wastes from industrial painting and wastes from the production of paint, ink, organic chemicals, inorganic chemicals, veterinary pharmaceuticals, iron and steel, aluminum and ferroalloys. EPA has evaluated all of these wastes against the criteria for listing toxic wastes contained in § 261.11(a)(3) and has determined that they pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, disposed of or otherwise managed.[1]

Decision Not to List Certain Wastes at this Time. EPA is not taking final action on six of the wastes listed in Appendix A for the following reasons:

- *Woven fabric dyeing and finishing wastewater treatment sludges.* After further review, we have decided that we have insufficient information on which to go forward with this listing at this time. In addition, waste extraction data submitted by the textiles industry indicates that toxic constituents present in the waste do not migrate from the waste in significant concentrations. Moreover, the toxic constituent of concern (chromium) believed to be present in these wastes is no longer used in the production process in significant quantities.
- *Arsenic-bearing sludges from the purification process in the production of antimony oxide.* These wastes are no longer generated.
- *Wastewater treatment sludge from the diaphragm cell process using graphite anodes in the production of chlorine; wastewater treatment sludge from the production of titanium dioxide pigment using chromium-bearing ores by the sulfate process; and antimony-bearing wastewater treatment sludge from the production of antimony oxide.* After further review, we have decided that we have insufficient information on the concentrations and migratory potential of the hazardous constituents of these wastes to list these wastes at this time. The Agency intends, however, to study these wastes further to determine whether they should be listed.
- *Lead-bearing wastewater treatment sludge from gray iron foundries.* We are deferring a final listing decision on this waste pending completion of EPA's ongoing study of wastes generated by the gray iron foundry industry.

In addition to deleting certain wastes, our final support work indicated that we should make additions to the list. Therefore, elsewhere in today's Federal Register, we are proposing to add seven wastes to the hazardous waste list.

Appendix VII. When EPA lists a waste as hazardous because of its toxicity, we identify, in Appendix VII to this Part, the toxic constituent which led EPA to list it. Appendix VII is, therefore, being amended to include the toxic constituents of concern for the eighteen wastes promulgated today.

Appendix VIII. EPA's criteria for listing toxic waste (T) provide that a waste will be listed if it contains any of a number of toxic constituents designated in Appendix VIII of this Part, unless, after consideration of certain specified factors, the Agency concludes that the wastes does not meet the statutory definition of hazardous waste (see § 261.11(a)(3)). Appendix VIII is a list of toxic constituents which have been shown in reputable scientific studies to have toxic, carcinogenic, mutagenic or teratogenic effects on humans or other life forms.

In developing the supplemental list of wastes published today, the Agency has identified three additional toxicants which have been shown in reputable scientific studies to be of regulatory concern to the Agency and which should, therefore, be included in Appendix VIII. These constituents—aniline, diphenylamine and phenylenediamine—are all contained in distillation bottoms from aniline production and have been shown to be either toxic or experimental carcinogens or teratogens. Additional information on the adverse health effects of these compounds is contained in the listing background document for distillation bottoms from aniline production.

Additionally, one of the toxic constituents currently listed in Appendix VIII—chlorotoluene—is being deleted from Appendix VIII. After further investigation, the Agency has decided that this compound is of low regulatory concern due to its low chronic toxicity and its lack of genetic activity.

Interim Final Provisions. EPA is publishing this list of hazardous wastes and the amendments to Appendices VII and VIII as interim final regulations. This means that, although these regulations are promulgated for purposes of the 90-day notification requirement under Section 3010(a), the six-month effective date under Section 3010(b) and the 90-day petition deadline under Section 7006, the public will have an additional opportunity to comment on them prior to publication in final form. EPA has substantially upgraded and revised the background documents for these wastes since they were proposed in December 1978 and August 1979, and therefore feels additional opportunity to comment is appropriate.

Environmental, Economic, and Regulatory Impacts

In accordance with Executive [illegible], as amended by Executive [illegible] and Executive Order 120[illegible] has prepared an Economic Impact Analysis and a Regulatory Analysis for the hazardous waste program. The Agency has also voluntarily prepared an Environmental Impact Statement for the program under the National Environmental Policy Act, 42 U.S.C. [illegible] *et seq.*

Copies of these documents, and Reports Impact Analysis and Op[illegible] Resources Impact Analysis for all hazardous waste regulations may be viewed in all EPA Regional Office Libraries, and at EPA headquarters library, Room 2404, 401 M Street, [illegible] Washington, D.C. 20460.

Dated: July 7, 1980.

Douglas M. Costle,

Administrator.

Title 40 of the Code of Federal Regulations is amended as follows:

1. In § 261.31, add the following streams:

§ 261.31 Hazardous waste from nonspecific sources.

Industry	EPA hazardous waste No.	Hazardous waste	Haz[illegible]
Generic	F017	Paint residues or sludges from industrial painting in the mechanical and electrical products industry.	
	F018	Wastewater treatment sludge from industrial painting in the mechanical and electrical products industry.	

2. In § 261.32, add the following waste streams:

§ 261.32 Hazardous waste from specific sources.

Industry	EPA hazardous waste No.	Hazardous waste	Haz[illegible]
Inorganic Chemicals	K071	[illegible] from the mercury cell process in chlorine production, where separately prepurified brine is [illegible]	
	K073	Chlorinated hydrocarbon wastes from the purification step of the diaphragm cell process using graphite anodes in chlorine production.	
	K074	Wastewater treatment sludges from the production of TiO_2 pigment using chromium bearing ores by the chloride process.	
Paint Manufacturing	K078	Solvent cleaning wastes from equipment and tank cleaning from paint manufacturing.	
	K079	Water or caustic cleaning wastes from equipment and tank cleaning from paint manufacturing.	
	K081	Wastewater treatment sludges from paint manufacturing.	
	K082	Emission control dust or sludge from paint manufacturing.	
Organic Chemicals	K083	Distillation bottoms from aniline production.	
	K085	Distillation or fractionating column bottoms from the production of chlorobenzenes.	

[1] One waste, solvent cleaning wastes from equipment and tank cleaning from paint manufacturing, is also being listed because it exhibits EPA's ignitability characteristic. See § 261.21(a)(1). Two wastes (Numbers 10 and 11 in Appendix A, 45 FR 33118) have been combined into one listing.

further review, we have decided that we have insufficient information on which to go forward with this listing at this time. In addition, waste extraction data submitted by the textiles industry indicates that toxic constituents present in the waste do not migrate from the waste in significant concentrations. Moreover, the toxic constituent of concern (chromium) believed to be present in these wastes is no longer used in the production process in significant quantities.

• *Arsenic-bearing sludges from the purification process in the production of antimony oxide.* These wastes are no longer generated.

• *Wastewater treatment sludge from the diaphragm cell process using graphite anodes in the production of chlorine; wastewater treatment sludge from the production of titanium dioxide pigment using chromium-bearing ores by the sulfate process; and antimony-bearing wastewater treatment sludge from the production of antimony oxide.* After further review, we have decided that we have insufficient information on the concentrations and migratory potential of the hazardous constituents of these wastes to list these wastes at this time. The Agency intends, however, to study these wastes further to determine whether they should be listed.

• *Lead-bearing wastewater treatment sludge from gray iron foundries.* We are deferring a final listing decision on this waste pending completion of EPA's ongoing study of wastes generated by the gray iron foundry industry.

In addition to deleting certain wastes, our final support work indicated that we should make additions to the list. Therefore, elsewhere in today's Federal Register, we are proposing to add seven wastes to the hazardous waste list.

Appendix VII. When EPA lists a waste as hazardous because of its toxicity, we identify, in Appendix VII to this Part, the toxic constituent which led EPA to list it. Appendix VII is, therefore, being amended to include the toxic constituents of concern for the eighteen wastes promulgated today.

Appendix VIII. EPA's criteria for listing toxic waste (T) provide that a waste will be listed if it contains any of a number of toxic constituents designated in Appendix VIII of this Part, unless, after consideration of certain specified factors, the Agency concludes that the waste does not meet the

In developing the supplemental list of wastes published today, the Agency has identified three additional toxicants which have been shown in reputable scientific studies to be of regulatory concern to the Agency and which should, therefore, be included in Appendix VIII. These constituents—aniline, diphenylamine and phenylenediamine—are all contained in distillation bottoms from aniline production and have been shown to be either toxic or experimental carcinogens or teratogens. Additional information on the adverse health effects of these compounds is contained in the listing background document for distillation bottoms from aniline production.

Additionally, one of the toxic constituents currently listed in Appendix VIII—chlorotoluene—is being deleted from Appendix VIII. After further investigation, the Agency has decided that this compound is of low regulatory concern due to its low chronic toxicity and its lack of genetic activity.

Interim Final Provisions. EPA is publishing this list of hazardous wastes and the amendments to Appendices VII and VIII as interim final regulations. This means that, although these regulations are promulgated for purposes of the 90-day notification requirement under Section 3010(a), the six-month effective date under Section 3010(b) and the 90-day petition deadline under Section 7006, the public will have an additional opportunity to comment on them prior to publication in "final" final form. EPA has substantially upgraded and revised the background documents for these wastes since they were proposed in December 1978 and August 1979, and therefore feels that additional opportunity to comment is appropriate.

Environmental, Economic, and Regulatory Impacts

In accordance with Executive Order 11821, as amended by Executive Order 11949, and Executive Order 12044, EPA has prepared an Economic Impact Analysis and a Regulatory Analysis of the hazardous waste program. The Agency has also voluntarily prepared an Environmental Impact Statement of this program under the National Environmental Policy Act, 42 U.S.C. 4321 *et seq.*

Copies of these documents, and EPA's Reports Impact Analysis and Operations Resources Impact Analysis for all of the hazardous waste regulations may be viewed in all EPA Regional Office Libraries, and at EPA headquarters library, Room 2404, 401 M Street, SW, Washington, D.C. 20460.

Dated: July 7, 1980.

Douglas M. Costle,

Administrator.

Title 40 of the Code of Federal Regulations is amended as follows:

1. In § 261.31, add the following waste streams:

§ 261.31 Hazardous waste from nonspecific sources.

Industry	EPA hazardous waste No.	Hazardous waste	Hazard code
Generic	F017	Paint residues or sludges from industrial painting in the mechanical and electrical products industry	(T)
	F018	Wastewater treatment sludge from industrial painting in the mechanical and electrical products industry	(T)

2. In § 261.32, add the following waste streams:

§ 261.32 Hazardous waste from specific sources.

Industry	EPA hazardous waste No.	Hazardous waste	Hazard code
Inorganic Chemicals	K071	Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used	(T)
	K073	Chlorinated hydrocarbon wastes from the purification step of the diaphragm cell process using graphite anodes in chlorine production	(T)
	K074	Wastewater treatment sludges from the production of TiO_2 pigment using chromium bearing ores by the chloride process	(T)
	K076	[illegible]	[illegible]

Industry	EPA hazardous waste No	Hazardous waste	Hazard code
Ink Formulation	K086	Solvent washes and sludges, caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead.	(T)
Veterinary Pharmaceuticals	K084	Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	(T)
Coking	K087	Decanter tank tar sludge from coking operations	(T)
Primary Aluminum	K088	Spent potliners from primary aluminum reduction	(T)
Ferroalloys	K090	Emission control dust or sludge from ferrochromium-silicon production.	(T)
	K091	Emission control dust or sludge from ferrochromium production	(T)
	K092	Emission control dust or sludge from ferromanganese production	(T)

3. In Appendix VII (Basis for Listing Hazardous Waste) add the following after F018:

EPA hazardous waste number	Hazardous constituents for which listed
F017	Cadmium, chromium, lead, cyanides, toluene, tetrachloroethylene.
F018	Cadmium, chromium, lead, cyanide, toluene, tetrachloroethylene.

4. In Appendix VII (Basis for Listing Hazardous Waste) add the following after K069:

EPA hazardous waste number	Hazardous constituents for which listed
K071	Mercury.
K073	Chloroform, carbon tetrachloride, hexachloroethane, trichloroethene, tetrachloroethylene, dichloromethylene, 1,1,2,2-tetrachloroethane.
K074	Chromium.
K076	Chromium, lead.
K079	Lead, mercury, benzene, carbon tetrachloride, methylene, chloride, tetrachloroethylene, naphthalene, di(2-ethyl-hexyl)phthalate, di-n-butylphthalate, toluene
K081	Chromium, lead, mercury nickel, methylene chloride, toluene.
K082	Antimony, cadmium, chromium, lead, nickel, silver, cyanides, phenol, mercury, pentachlorophenol, vinyl chloride, 3,3'-dichlorobenzidene, naphthalene, di(2-ethylhexyl)phthalate, di-n-butylphthalate, benzene, toluene, carbon tetrachloride, methylene chloride, trichloroethylene.
K083	Aniline, nitrobenzene, diphenylamine, phenylenediamine.
K084	Arsenic.
K085	Benzene, monochlorobenzene, dichlorobenzenes, trichlorobenzenes, tetrachlorobenzene, pentachlorobenzene, hexachlorobenzene, benzyl chloride.
K086	Chromium, lead.
K087	Phenol, naphthalene.
K088	Cyanide (complexes).
K090	Chromium.
K091	Chromium, lead.
K092	Chromium, lead.

5. In Appendix VIII (Hazardous Constituents) add the following constituents alphabetically:

— aniline
— diphenylamine
— phenylenediamine

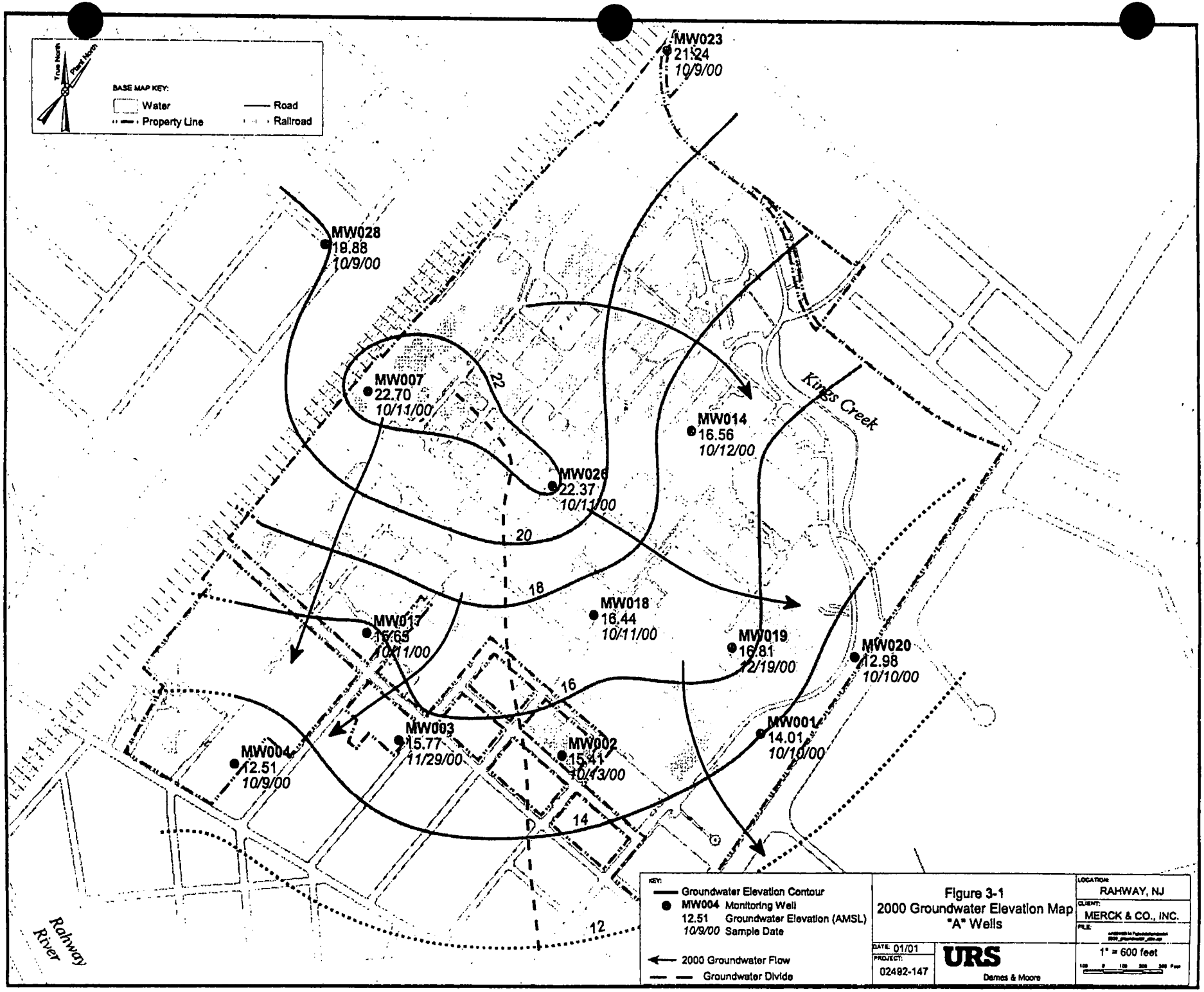
6. In Appendix VIII (Hazardous Constituents) delete:

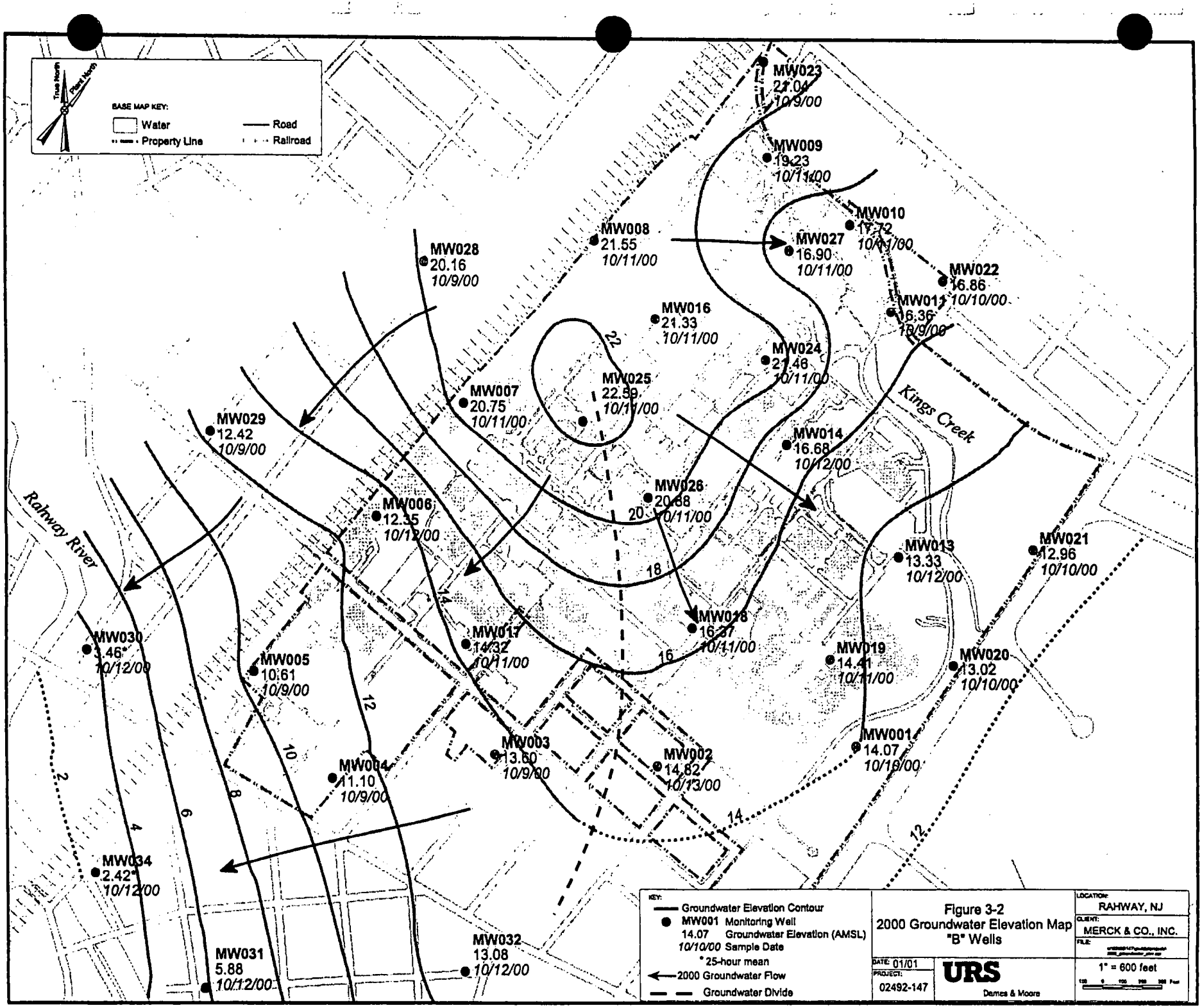
— chlorotoluene, N.O.S.

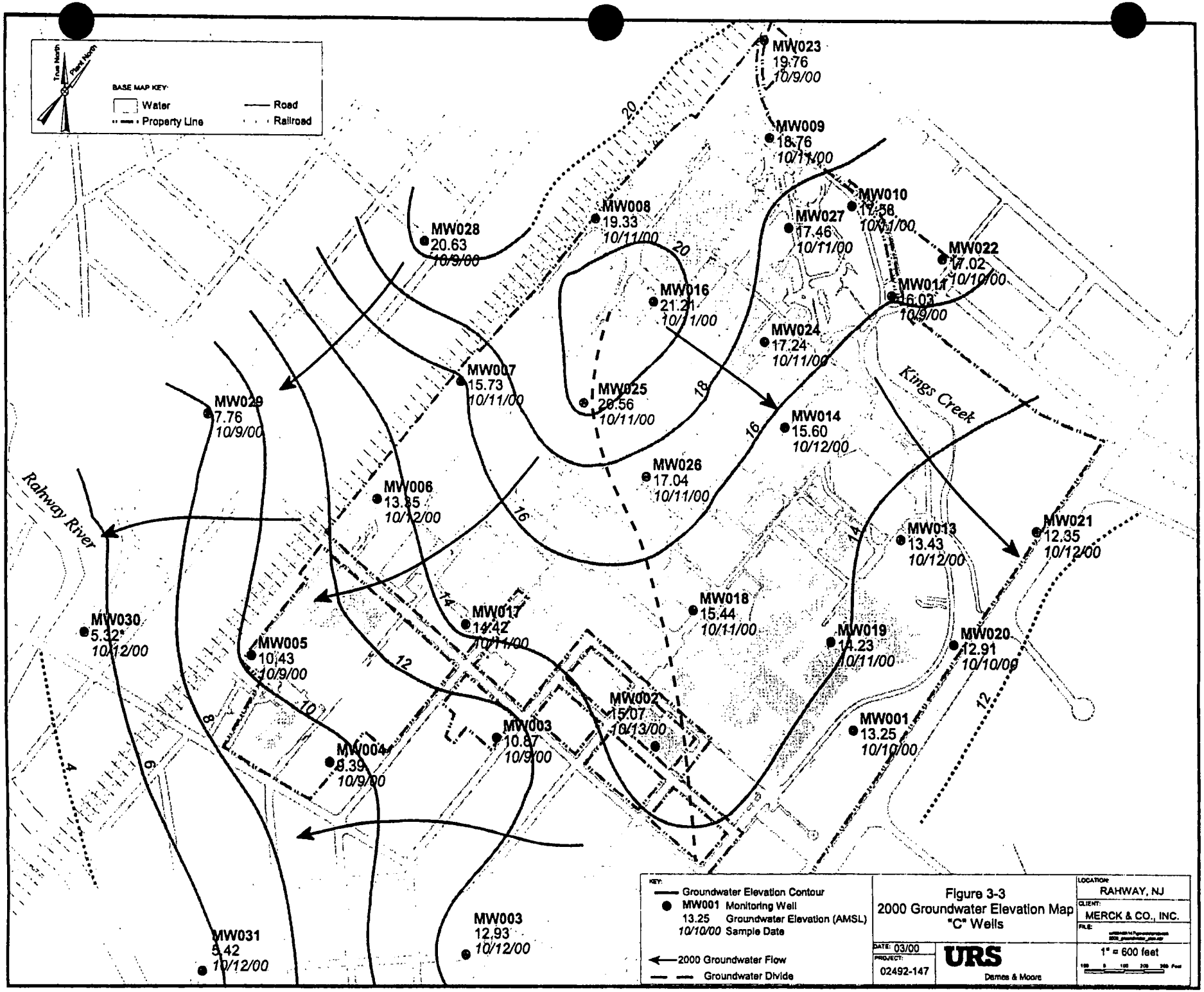
[FR Doc. 80-21186 Filed 7-15-80; 8:45 am]
BILLING CODE 6560-01-M

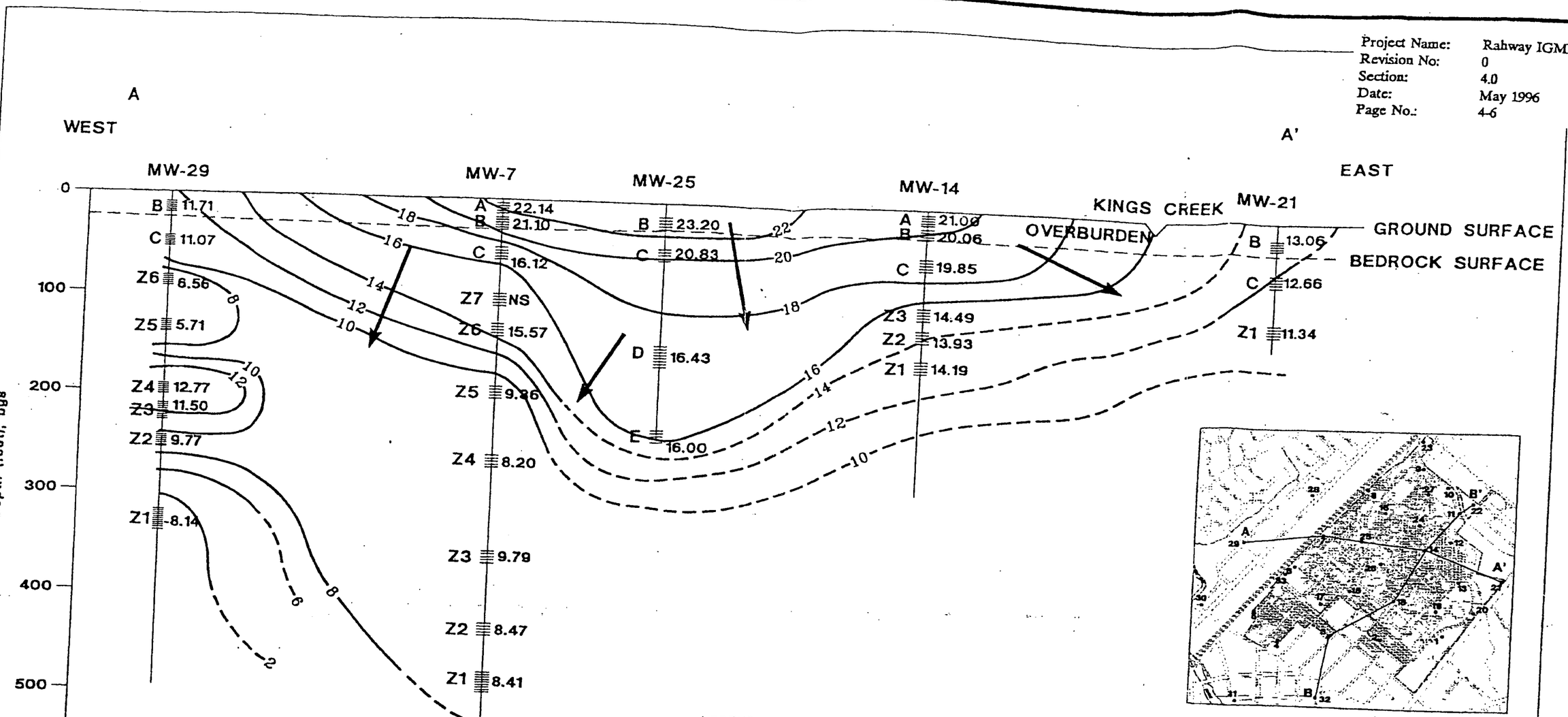
GROUNDWATER CONTOUR MAPS FOR MERCK & SAFETY KLEEN

APPENDIX H


True North
Plant North
BASE MAP KEY:
Water
Property Line
Road
Railroad
MW023
21.24
10/9/00
MW028
18.88
10/9/00
MW007
22.70
10/11/00
MW026
22.37
10/11/00
MW014
16.56
10/12/00
Kings Creek
22
20
18
16
14
12
MW018
16.44
10/11/00
MW019
16.81
12/19/00
MW020
12.98
10/10/00
MW001
14.01
10/10/00
MW003
15.77
11/29/00
MW002
15.41
10/13/00
MW004
12.51
10/9/00
Rahway River
KEY:
Groundwater Elevation Contour
MW004 Monitoring Well
12.51 Groundwater Elevation (AMSL)
10/9/00 Sample Date
2000 Groundwater Flow
Groundwater Divide
Figure 3-1
2000 Groundwater Elevation Map
"A" Wells
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
DATE: 01/01
PROJECT: 02492-147
URS
Dames & Moore
1" = 600 feet


True North
Plant North
BASE MAP KEY:
Water
Road
Property Line
Railroad
MW023
21.04
10/9/00
MW009
19.23
10/11/00
MW010
17.72
10/11/00
MW008
21.55
10/11/00
MW027
16.90
10/11/00
MW022
16.86
10/10/00
MW028
20.16
10/9/00
MW011
16.36
10/9/00
MW016
21.33
10/11/00
MW024
21.46
10/11/00
MW025
22.59
10/11/00
MW007
20.75
10/11/00
MW029
12.42
10/9/00
Kings Creek
MW014
16.68
10/12/00
MW026
20.68
10/11/00
MW006
12.35
10/12/00
Rahway River
MW013
13.33
10/12/00
MW021
12.96
10/10/00
MW018
16.37
10/11/00
MW017
14.32
10/11/00
MW030
3.46*
10/12/00
MW019
14.41
10/11/00
MW020
13.02
10/10/00
MW005
10.61
10/9/00
MW003
13.60
10/9/00
MW002
14.82
10/13/00
MW001
14.07
10/10/00
MW004
11.10
10/9/00
MW034
2.42*
10/12/00
MW031
5.88
10/12/00
MW032
13.08
10/12/00
KEY:
Groundwater Elevation Contour
MW001 Monitoring Well
14.07 Groundwater Elevation (AMSL)
10/10/00 Sample Date
* 25-hour mean
2000 Groundwater Flow
Groundwater Divide
Figure 3-2
2000 Groundwater Elevation Map
"B" Wells
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
FILE:
DATE: 01/01
PROJECT: 02492-147
URS
Dames & Moore
1" = 600 feet


True North
Plant North
BASE MAP KEY:
Water
Property Line
Road
Railroad
MW023
19.76
10/9/00
MW009
18.76
10/11/00
MW010
17.58
10/11/00
MW008
19.33
10/11/00
MW028
20.63
10/9/00
MW027
17.46
10/11/00
MW022
17.02
10/10/00
MW016
21.21
10/11/00
MW011
16.03
10/9/00
MW024
17.24
10/11/00
MW007
15.73
10/11/00
MW025
20.56
10/11/00
Kings Creek
MW029
7.76
10/9/00
MW014
15.60
10/12/00
MW026
17.04
10/11/00
Rahway River
MW006
13.35
10/12/00
MW013
13.43
10/12/00
MW021
12.35
10/12/00
MW018
15.44
10/11/00
MW030
5.32
10/12/00
MW017
14.42
10/11/00
MW019
14.23
10/11/00
MW020
12.91
10/10/00
MW005
10.43
10/9/00
MW002
15.07
10/13/00
MW001
13.25
10/10/00
MW003
10.87
10/9/00
MW004
9.39
10/9/00
MW031
5.42
10/12/00
MW003
12.93
10/12/00
KEY:
Groundwater Elevation Contour
MW001 Monitoring Well
13.25 Groundwater Elevation (AMSL)
10/10/00 Sample Date
2000 Groundwater Flow
Groundwater Divide
Figure 3-3
2000 Groundwater Elevation Map
"C" Wells
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
FILE:
DATE: 03/00
PROJECT: 02492-147
URS
Dames & Moore
1" = 600 feet



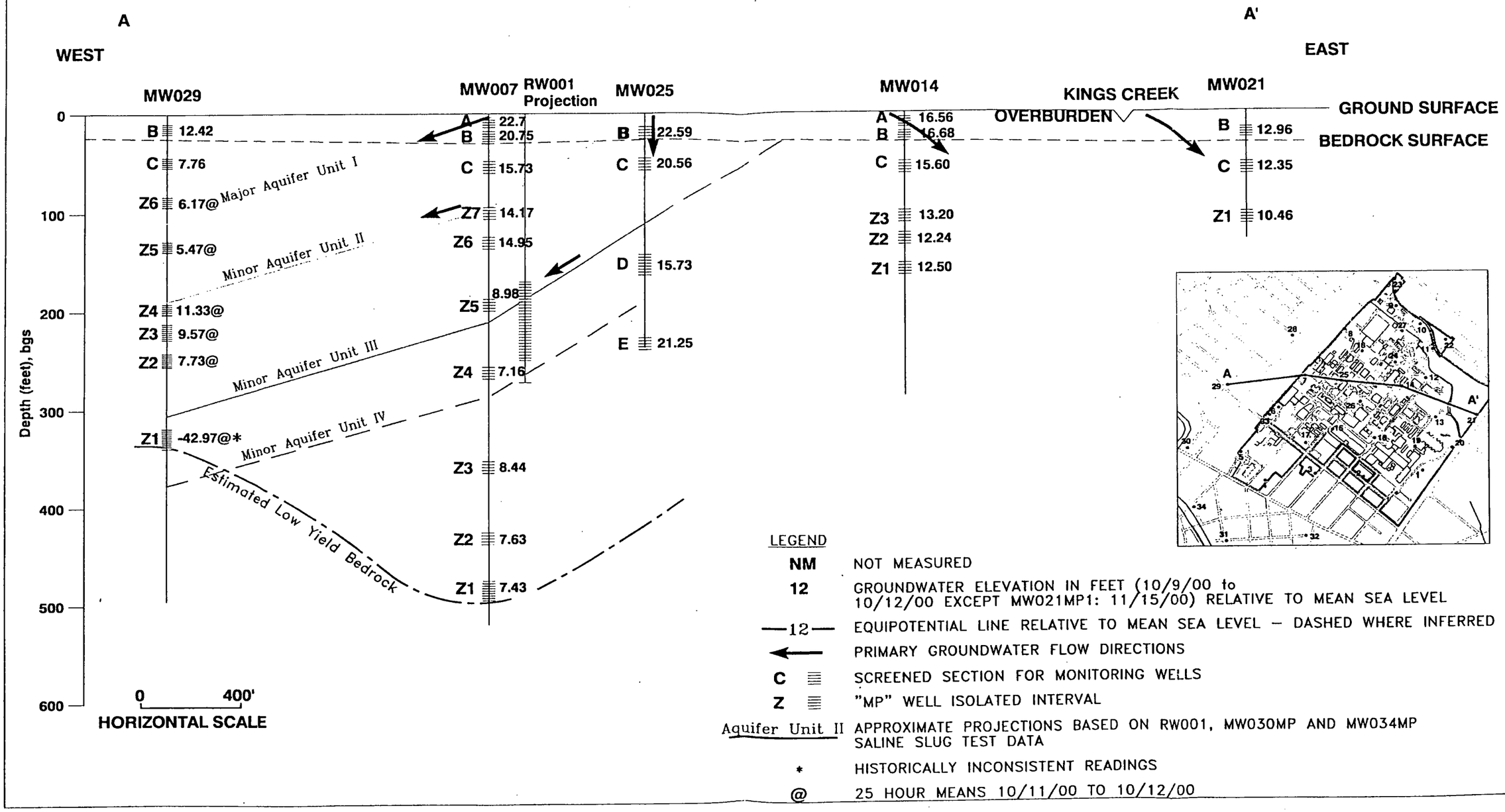
LEGEND

12	GROUNDWATER ELEVATION IN FEET (10/95)
—12—	EQUIPOTENTIAL LINE RELATIVE TO MEAN SEA LEVEL – DASHED WHERE INFERRED
←	GROUNDWATER FLOW DIRECTION
C ≡	SCREENED SECTION FOR MONITORING WELLS
Z ≡	"MP" WELL ISOLATED INTERVAL

PREPARED BY: DAMES & MOORE	INTERIM GROUNDWATER MONITORING RESULTS OCTOBER 1995 MERCK FACILITY RAHWAY, NEW JERSEY		
AUTHOR: WEB	SCALE: SEE ABOVE	DATE: 5/96	REV. 1

FIGURE 4-4
BEDROCK CROSS-SECTION FLOW MAP
(ALONG BEDROCK DIP DIRECTION)
CROSS-SECTION A-A'

P:\02492 Merck\147-Rahway\Oct 2000 IGMR\graphics\FIG3-4.DWG Layout1 12/25/2000 01:45:29 PM kdempton Tektronix Phaser 780 17x11 pc3 1:1



LEGEND

NM	NOT MEASURED
12	GROUNDWATER ELEVATION IN FEET (10/9/00 to 10/12/00 EXCEPT MW021MP1: 11/15/00) RELATIVE TO MEAN SEA LEVEL
—12—	EQUIPOTENTIAL LINE RELATIVE TO MEAN SEA LEVEL – DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C ≡	SCREENED SECTION FOR MONITORING WELLS
Z ≡	"MP" WELL ISOLATED INTERVAL
Aquifer Unit II	APPROXIMATE PROJECTIONS BASED ON RW001, MW030MP AND MW034MP SALINE SLUG TEST DATA
*	HISTORICALLY INCONSISTENT READINGS
@	25 HOUR MEANS 10/11/00 TO 10/12/00

PREPARED BY: URS Dames & Moore

OCTOBER 2000 INTERIM GROUNDWATER MONITORING REPORT
RAHWAY PLANT
RAHWAY, NEW JERSEY

AUTHOR: PWK | SCALE: SEE ABOVE | DATE: 12/00 | REV. 0

FIGURE 3-4
BEDROCK CROSS-SECTION FLOW MAP
(APPROXIMATE BEDROCK DIP DIRECTION)
CROSS-SECTION A-A'

P:\02492 Merck\147-Rahway\Oct 2000 IGMR\graphics\FIG3-5.DWG, Layout1, 12/25/2000 01:42:47 PM, kdembin, Tektronix Phaser 780 17x11 pc3, 1:1

B

SOUTH

B'

NORTH

KINGS CREEK

GROUND SURFACE

BEDROCK SURFACE

OVERBURDEN

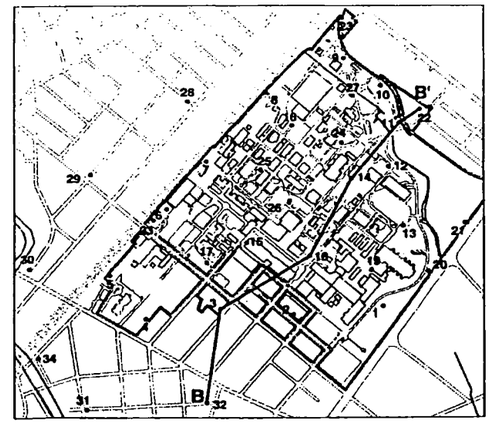
	MW032	MW003	MW018	MW014	MW011	MW022
A		15.77	16.44	16.56		
B	13.08	13.6	16.37	16.68	16.36	17.13
C	12.93	10.87	15.44	15.60	16.03	17.74
Z3		10.62		13.20		
Z2		11.79		12.24		15.00
Z1		13.92		12.50		12.85

Depth (feet), bgs

0, 20, 40, 60, 80, 100, 120, 140, 160, 180

0 500'

HORIZONTAL SCALE



LEGEND

NM	NOT MEASURED
12	GROUNDWATER ELEVATION IN FEET (10/9/00 to 10/12/00 EXCEPT MW003A: 11/29/00) RELATIVE TO MEAN SEA LEVEL
—12—	EQUIPOTENTIAL LINE RELATIVE TO MEAN SEA LEVEL – DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C	SCREENED SECTION FOR MONITORING WELLS
Z	"MP" WELL ISOLATED INTERVAL
Aquifer Unit II	APPROXIMATE PROJECTIONS BASED ON RW001, MW030MP AND MW034MP SALINE SLUG TEST DATA

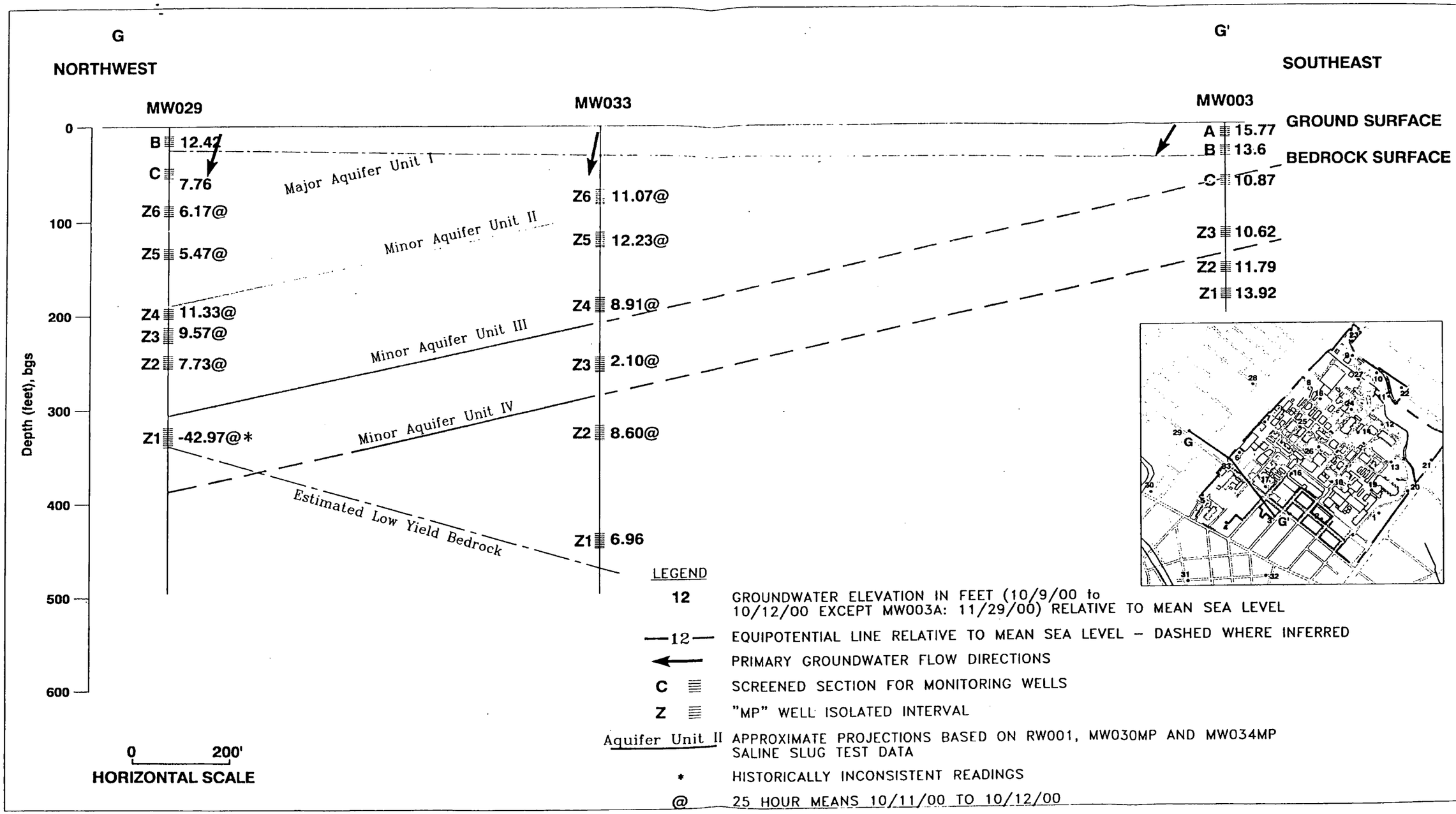
PREPARED BY: URS Dames & Moore

OCTOBER 2000 INTERIM GROUNDWATER MONITORING REPORT
RAHWAY PLANT
RAHWAY, NEW JERSEY

AUTHOR: PWK | SCALE: SEE ABOVE | DATE: 12/00 | REV. 0

FIGURE 3–5
BEDROCK AND OVERBURDEN
CROSS–SECTION FLOW MAP
(APPROXIMATE BEDROCK STRIKE DIRECTION)
CROSS–SECTION B–B'

P:\02492 Merck\147-Rahway\Oct 2000 IGMP\graphics\FIG3-6.DWG, Layout1, 12/25/2000 01:48:54 PM, kdempbin, Tektronix Phaser 780 17x11 pc3, 1:1



PREPARED BY: URS Dames & Moore	OCTOBER 2000 INTERIM GROUNDWATER MONITORING REPORT RAHWAY PLANT RAHWAY, NEW JERSEY		FIGURE 3-6 CROSS-SECTION FLOW MAP (APPROXIMATE BEDROCK DIP DIRECTION) CROSS-SECTION G-G'
AUTHOR: PWK	SCALE: SEE ABOVE	DATE: 12/00	REV. 0

P:\02492 Merck\147-Rahway\Oct 2000 IGMP\graphics\FIG3-7.DWG Layout1 12/25/2000 01:51:43 PM kdembio Tektronix Phaser 780 17x11 pc3 1:1

I

SOUTHWEST

I'

NORTHEAST

MW034

MW005

MW033
Well Projected Updip 100 Feet

MW006
Well Projected Updip 80 Feet

RW001

MW007
Well Projected Updip 130 Feet

OW-04
Well Projected Downdip 240' Feet

MW008
Well Projected Updip 140 Feet

GROUND SURFACE

BEDROCK SURFACE

Minor Aquifer Unit II

Minor Aquifer Unit III

Minor Aquifer Unit IV

Depth (feet), bgs

0
100
200
300
400
500
600

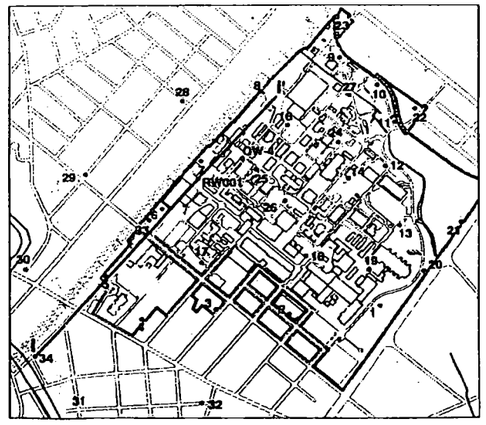
	MW034	MW005	MW033	MW006	RW001	MW007	OW-04	MW008
B	2.42@	10.61		12.35		22.7	NM	21.55
C		10.43		13.35		20.75	NM	19.33
Z6			11.07@			15.73		
Z5			12.23@			14.17	NM	
Z4			8.91@			14.95	NM	
Z3	2.03@		2.10@			8.98	NM	
Z2	4.07@		8.60@			7.16	NM	
Z1	3.88@		6.96@			8.44	NM	
						7.63		
						7.43		

LEGEND

NM	NOT MEASURED
12	GROUNDWATER ELEVATION IN FEET (10/9/00 to 10/12/00) RELATIVE TO MEAN SEA LEVEL
—12—	EQUIPOTENTIAL LINE RELATIVE TO MEAN SEA LEVEL – DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C	SCREENED SECTION FOR MONITORING WELLS
Z	"MP" WELL ISOLATED INTERVAL
Aquifer Unit II	APPROXIMATE PROJECTIONS BASED ON RW00, MW030MP AND MW034MP SALINE SLUG TEST DATA
@	25 HOUR MEANS 10/11/00 TO 10/12/00

0 400'

HORIZONTAL SCALE



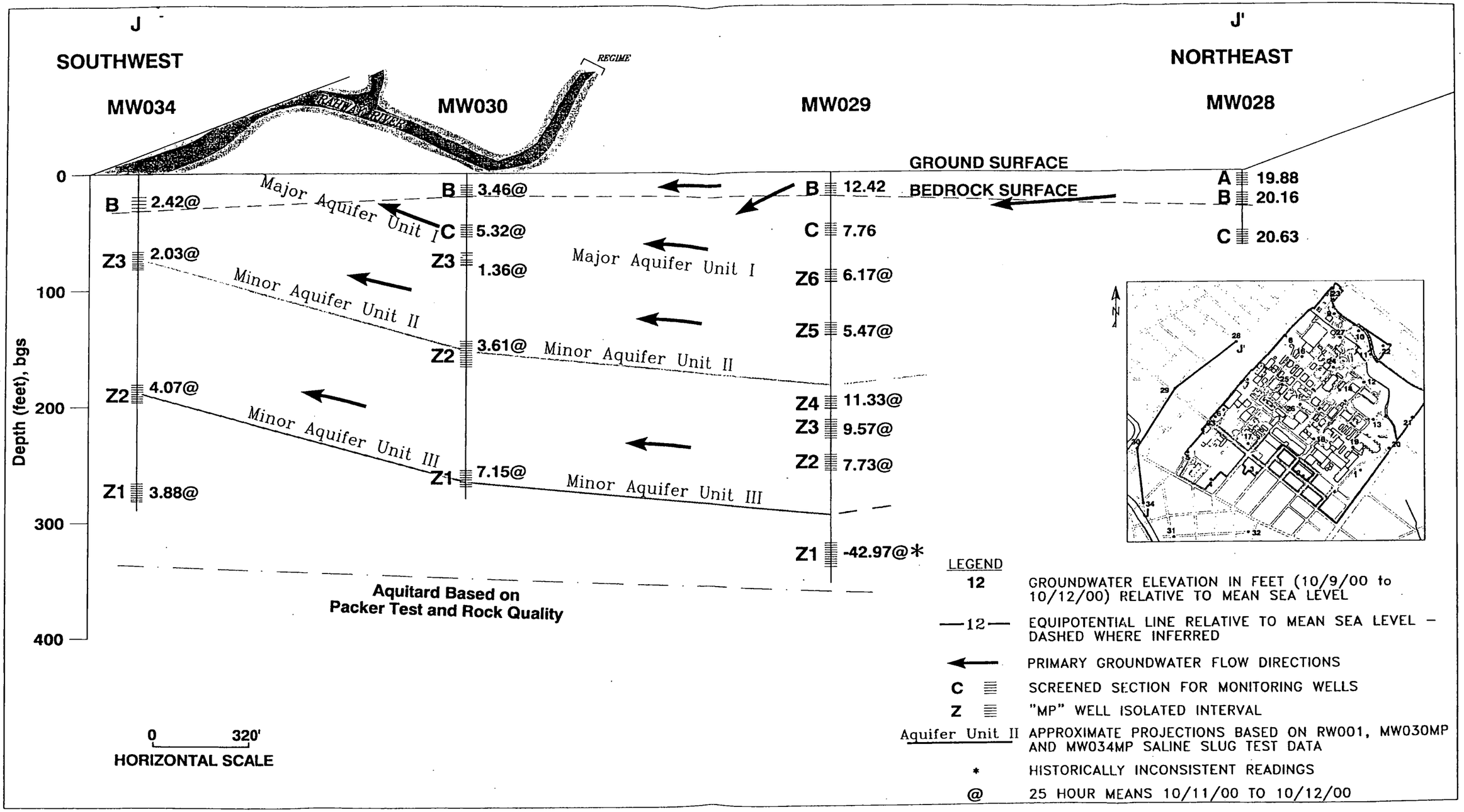
PREPARED BY: URS Dames & Moore

AUTHOR: PWK | SCALE: SEE ABOVE | DATE: 12/00 | REV. 0

OCTOBER 2000 INTERIM GROUNDWATER MONITORING REPORT
RAHWAY PLANT
RAHWAY, NEW JERSEY

FIGURE 3-7
BEDROCK CROSS-SECTION FLOW MAP (ALONG BEDROCK STRIKE DIRECTION)
CROSS-SECTION I-I'

P:\02492 Merck\147-Rahway\Oct 2000 IGMR\graphics\FIG3-8.DWG, Layout1, 12/25/2000 01:52:55 PM, kdembin, Tektronix Phaser 780 17x11 pc3, 1:1



LEGEND

12	GROUNDWATER ELEVATION IN FEET (10/9/00 to 10/12/00) RELATIVE TO MEAN SEA LEVEL
—12—	EQUIPOTENTIAL LINE RELATIVE TO MEAN SEA LEVEL – DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C ≡	SCREENED SECTION FOR MONITORING WELLS
Z ≡	"MP" WELL ISOLATED INTERVAL
Aquifer Unit II	APPROXIMATE PROJECTIONS BASED ON RW001, MW030MP AND MW034MP SALINE SLUG TEST DATA
*	HISTORICALLY INCONSISTENT READINGS
@	25 HOUR MEANS 10/11/00 TO 10/12/00

PREPARED BY: URS Dames & Moore

OCTOBER 2000 INTERIM GROUNDWATER MONITORING REPORT
RAHWAY PLANT
RAHWAY, NEW JERSEY

AUTHOR: PWK | SCALE: SEE ABOVE | DATE: 12/00 | REV. 0

FIGURE 3-8
GROUNDWATER ELEVATION DATA (24 HOUR MEAN)
BEDROCK CROSS-SECTION MAP
CROSS-SECTION J-J'

FLUOR DANIEL GTI

SAFETY-KLEEN CORPORATION

GROUNDWATER ELEVATION CONTOURS - SHALLOW WELLS
[illegible] OCTOBER [illegible]

DESIGNED BY:	DETAILED BY:	CHECKED BY:
MDN	DLM	

DATE:	FILE:
2/3/97	LINDO6S
PROJECT NO.: 01331-0272	

FIGURE 1

SHALLOW MONITORING WELL
DEEP MONITORING WELL
SHALLOW REPLACEMENT MONITORING WELL
UHT UNDERGROUND HOLDING TANK
TP TRANSFORMER PAD
ET ELECTRIC TRANSFORMER
CONCRETE
RELATIVE WATER LEVEL ELEVATION IN FEET
INFERRED GROUNDWATER ELEVATION CONTOUR IN FEET
CONTOUR INTERVAL = 1.00 FEET

SCALE FEET

SIGNATURE	DATE
REVIEW HYDRO/GEO:	
PROJECT HYDRO/GEO:	
PROJECT MGR:	
CLIENT:	

FLUOR DANIEL GTI

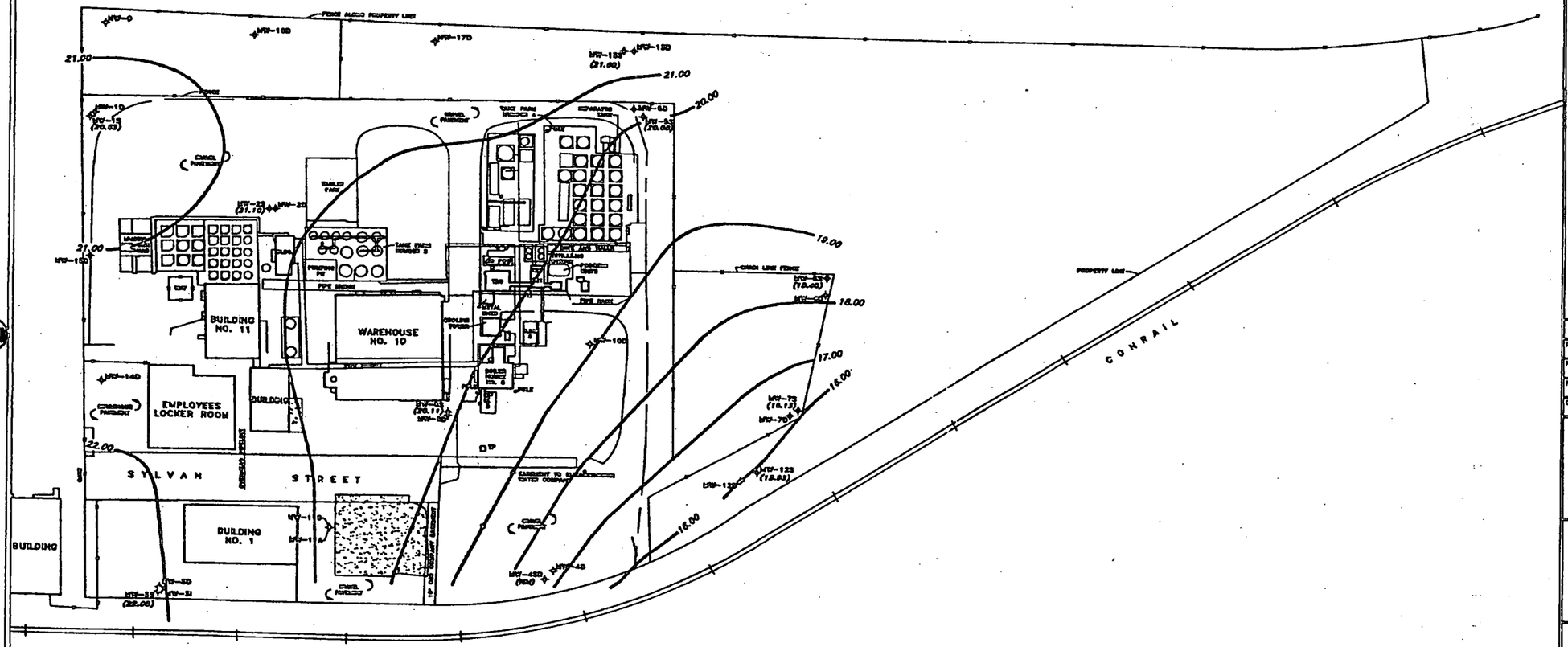
SAFETY-KLEEN CORPORATION

LINDEN, NEW JERSEY

GROUNDWATER ELEVATION CONTOURS - DEEP WELLS 28 OCTOBER 1996

DESIGNED BY: MBN	DETAILED BY: DLM	CHECKED BY:
DATE: 2/3/97	FILE: LIND06D	
PROJECT NO.: 01331-0272	GAUGING DATE:	

FIGURE 2



MW-3D SHALLOW MONITORING WELL
MW-5S DEEP MONITORING WELL
MW-4SR SHALLOW REPLACEMENT MONITORING WELL
UHT UNDERGROUND HOLDING TANK
TP TRANSFORMER PAD
ET ELECTRIC TRANSFORMER
CONCRETE
(20.62) RELATIVE WATER LEVEL ELEVATION IN FEET
GROUNDWATER ELEVATION CONTOUR IN FEET
CONTOUR INTERVAL = 1.00 FEET
NM NOT MEASURED

BOLD MW-10D LOCATION IS APPROXIMATE

SIGNATURE	DATE
REVIEW HYDRO/GEOL	
PROJECT HYDRO/GEOL	
PROJECT MGR	
CLIENT	

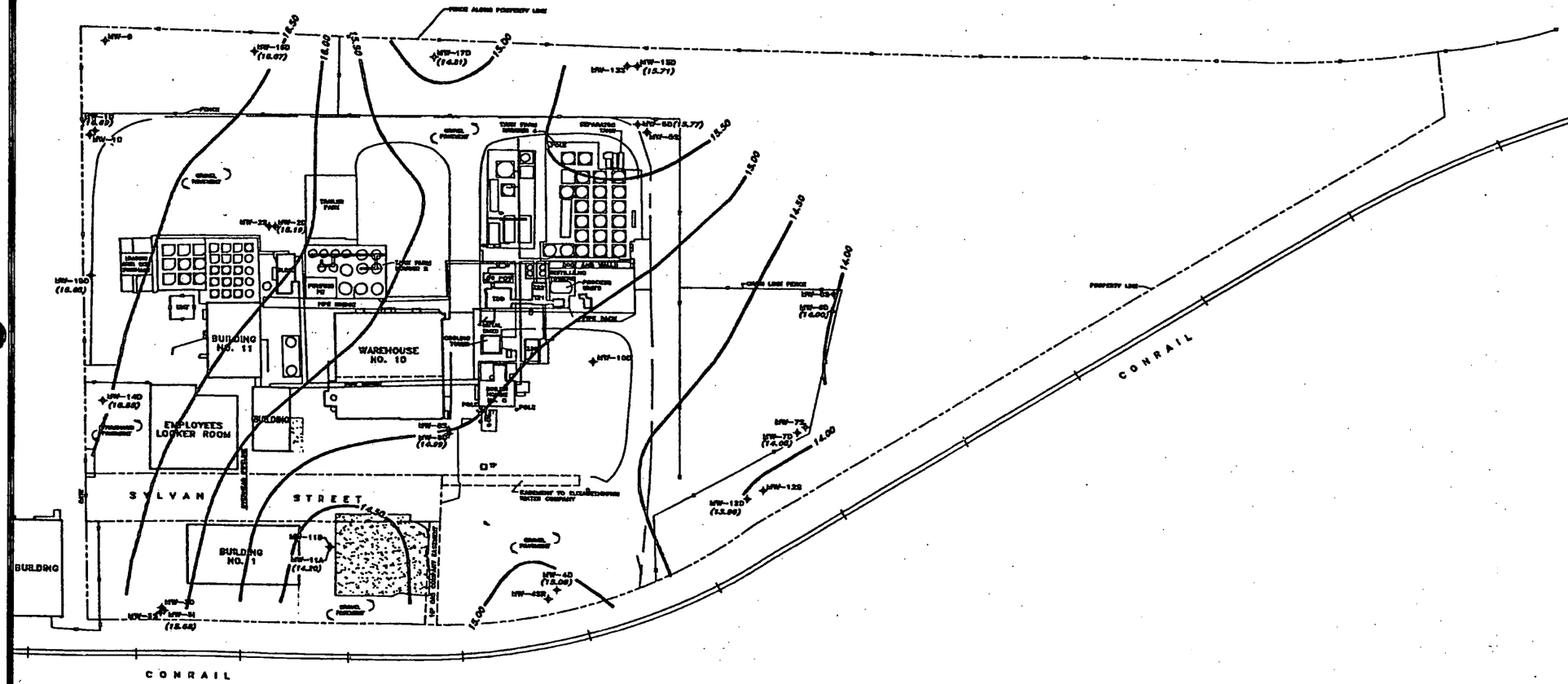
FLUOR DANIEL GTI
310 HORIZON CENTER DRIVE
TRENTON, N.J. 08691 (609) 587-0800

SAFETY-KLEEN CORPORATION
LEXINGTON, NEW JERSEY

GROUNDWATER ELEVATION CONTOURS - SHALLOW WELLS
25 APRIL 1997

DESIGNED BY	DETAILED BY	CHECKED BY
MBN	DLM	
DATE: 8/1/97	FILE: LIND07S	
PROJECT NO.: 01331-0547	CAD/DOS DATED	

FIGURE 1



MW-3D	SHALLOW MONITORING WELL
MW-3S	DEEP MONITORING WELL
MW-4SR	SHALLOW REPLACEMENT MONITORING WELL
UHT	UNDERGROUND HOLDING TANK
TP	TRANSFORMER PAD
ET	ELECTRIC TRANSFORMER
	CONCRETE
(16.00)	RELATIVE WATER LEVEL ELEVATION IN FEET
	INFERRED GROUNDWATER ELEVATION CONTOUR IN FEET CONTOUR INTERVAL = 0.50 FEET

NOTE: MW-14D LOCATION IS APPROXIMATE

N

60 0 60 120
SCALE FEET

DESIGNED MAKED BOLDING & ASSOCIATES, P.A.
MATAWAN, NEW JERSEY
MONITORING WELL LOCATION PLAN FOR
SAFETY-KLEEN CORPORATION, CITY OF LINDEN
LINDEN COUNTY NEW JERSEY
JOB NO. 91030A SHEET 1 of 1
MAP NO. 2062207 DATED MARCH 14, 1996

SIGNATURE	DATE
REVIEW HYDRO/GEO:	
PROJECT HYDRO/GEO:	
PROJECT MGR:	
CLIENT:	

FLUOR DANIEL GTI
310 HORIZON CENTER DRIVE
TRENTON, N.J. 08691 (609) 587-6300

SAFETY-KLEEN CORPORATION

LINDEN, NEW JERSEY

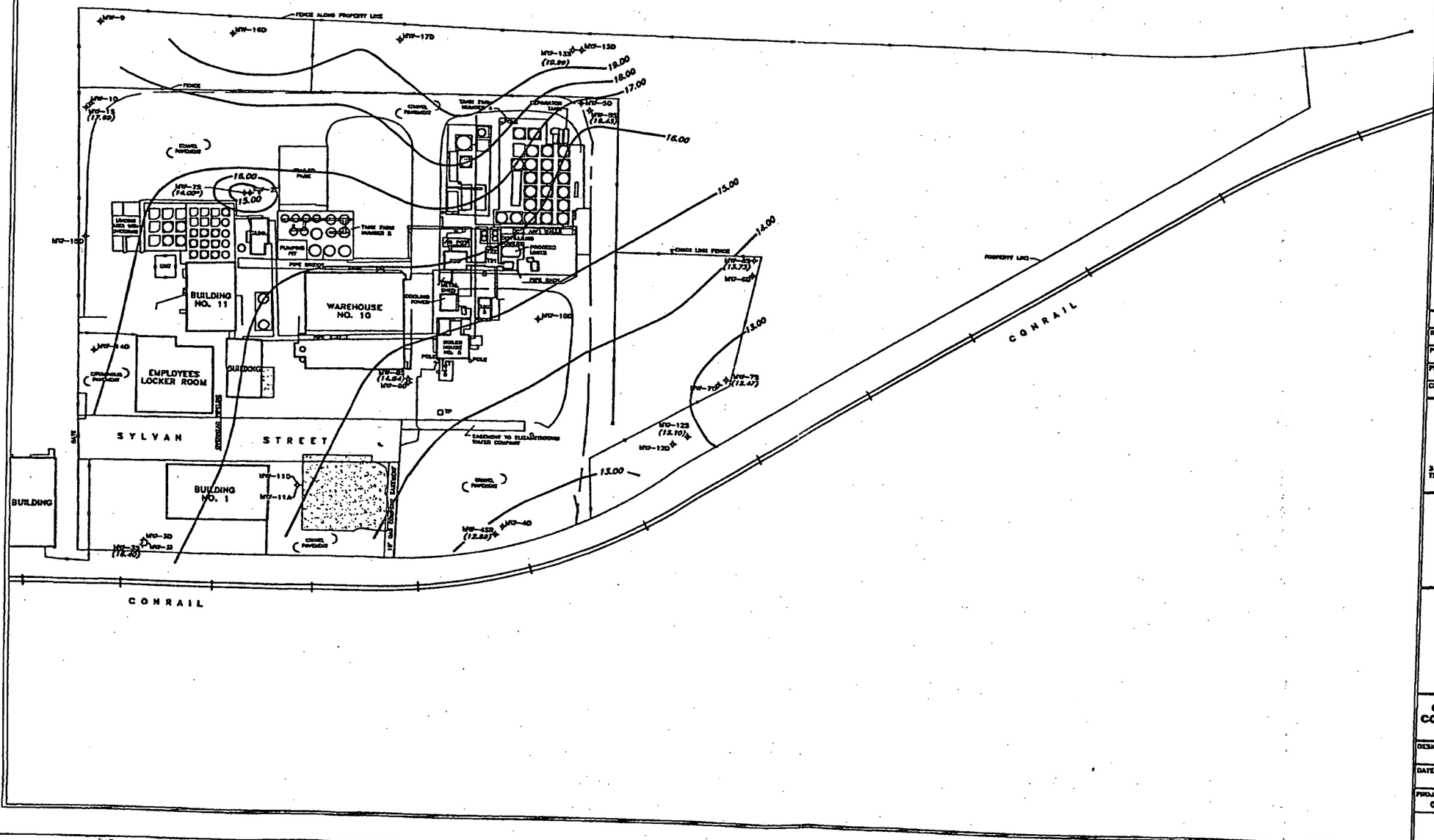
GROUNDWATER ELEVATION CONTOURS - DEEP WELLS 28 APRIL 1997

DESIGNED BY:	DETAILED BY:	CHECKED BY:
MBN	DLM	

DATE:	FILE:
8/1/97	LIND07D

PROJECT NO.:	GAUGING DATE:
01331-0547	

FIGURE 2



MW-3D SHALLOW MONITORING WELL
MW-3S DEEP MONITORING WELL
MW-4SR SHALLOW REPLACEMENT MONITORING WELL
UST UNDERGROUND HOLDING TANK
TP TRANSFORMER PAD
ET ELECTRIC TRANSFORMER
CONCRETE
(17.89) RELATIVE WATER LEVEL ELEVATION IN FEET
INFERRED GROUNDWATER ELEVATION CONTOUR IN FEET. CONTOUR INTERVAL = 1.00 FOOT
ELEVATIONS BASED UPON EXTRACTION PUMP INTAKE ELEVATION

APPROXIMATE MW-10 LOCATION IS APPROXIMATE

SCALE: 60 0 60 120 FEET

SURVEY MARKED DELORME & ASSOCIATES, P.A. MANAHAWKIN, NEW JERSEY CONTRACTORS SHALL LOCATE/CO PLANS PRIOR SAFETY-KLEEN CORPORATION, CITY OF LEDGEWOOD COUNTY, NEW JERSEY JOB NO. 91-0026, SHEET 1 of 1 MAP NO. 2322-SCT1 DATED MARCH 10, 1992

SIGNATURE	DATE
REVIEW HYDRO/GEOL	
PROJECT HYDRO/GEOL	
PROJECT MGR	
CLIENT:	

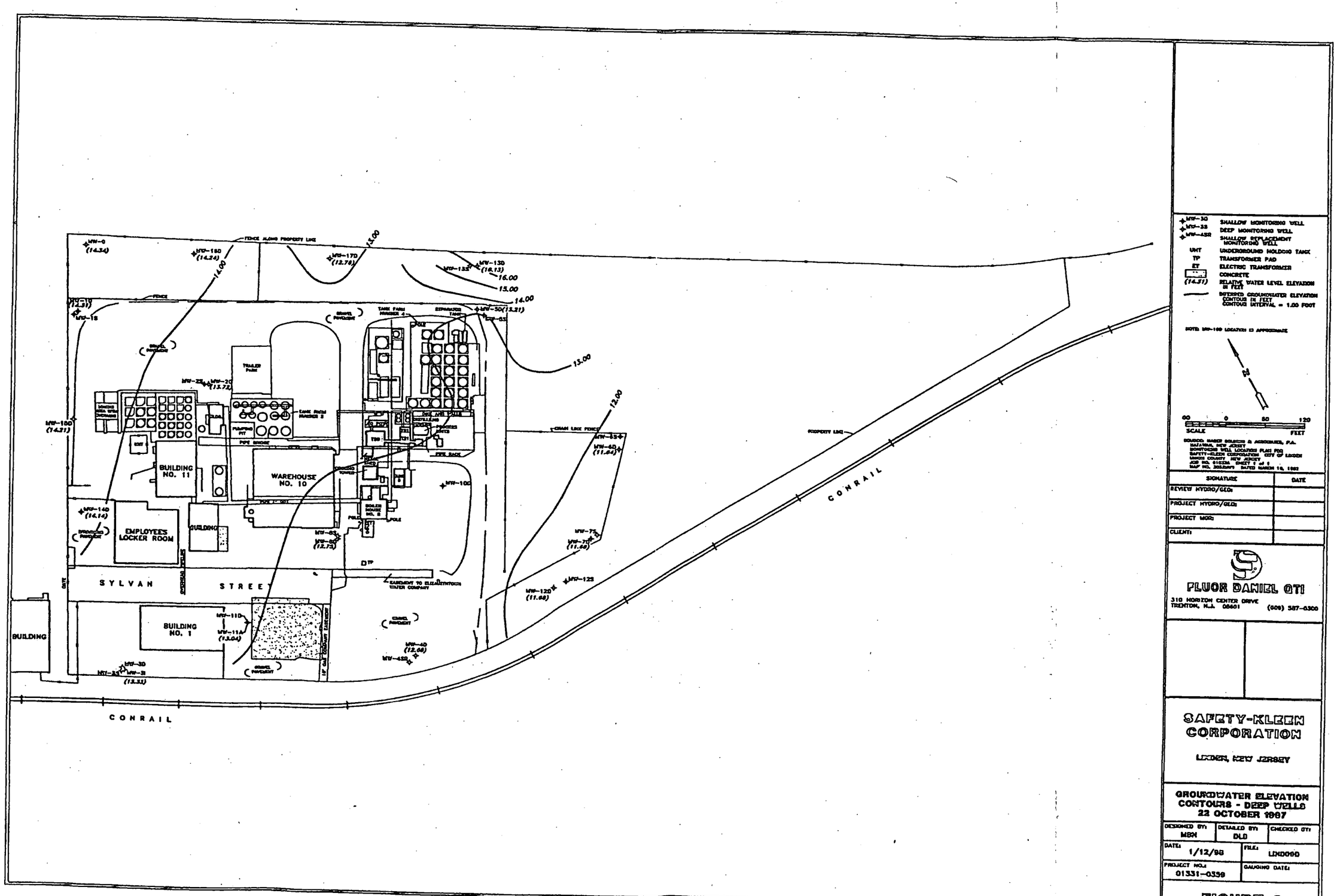
FLUOR DANIEL GTI
310 HORIZON CENTER DRIVE
TRENTON, N.J. 08691 (609) 587-0300

SAFETY-KLEEN CORPORATION
LEDGEWOOD, NEW JERSEY

GROUNDWATER ELEVATION CONTOURS - SHALLOW WELLS
22 OCTOBER 1997

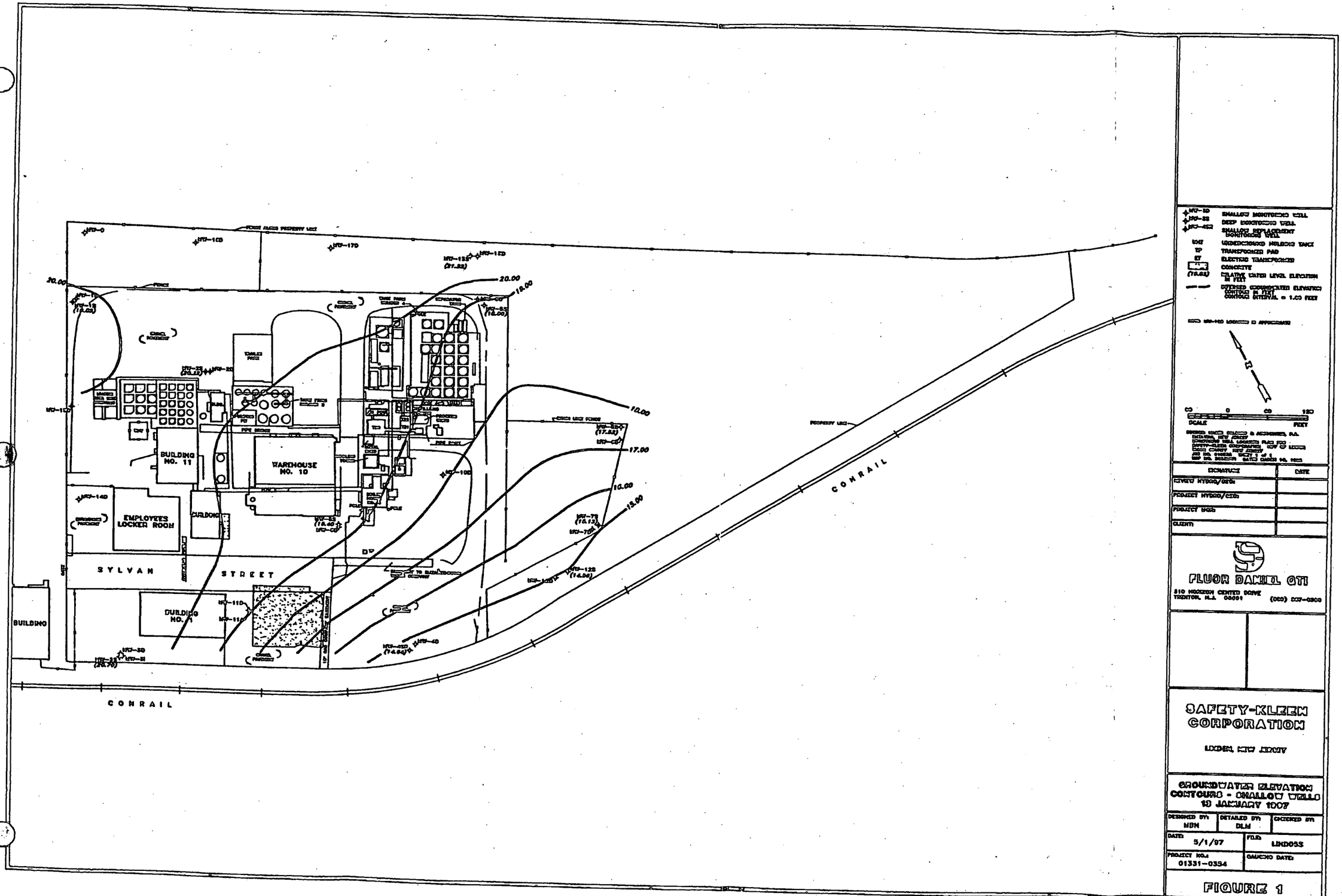
DESIGNED BY: MCM	DETAILED BY: DLD	CHECKED BY:
DATE: 1/12/98	FILE: LKD002	
PROJECT NO.: 01331-0350	GAUGING DATE:	

FIGURE 1



MW-0 (14.34)
MW-18D (14.24)
MW-17D (12.78)
MW-13S
MW-13D (16.13)
MW-5D (13.21)
MW-5S
MW-1S
MW-10D (14.21)
MW-2S
MW-2D (13.72)
MW-14D (14.14)
MW-8S
MW-8D (12.75)
MW-10D
MW-6S
MW-6D (11.64)
MW-7S
MW-7D (11.68)
MW-12S
MW-12D (11.68)
MW-11D
MW-11A (13.04)
MW-4D (12.68)
MW-4SR
MW-3D
MW-3S
MW-3I (13.33)
13.00
14.00
15.00
16.00
12.00
FENCE ALONG PROPERTY LINE
FENCE
TANK FARM NUMBER 4
SEPARATOR TANK
TRAILER PARK
TANK FARM NUMBER 2
PUMPING PIT
PIPE BRIDGE
BUILDING NO. 11
WAREHOUSE NO. 10
EMPLOYEES LOCKER ROOM
BUILDING
SYLVAN STREET
BUILDING NO. 1
BUILDING
EASEMENT TO ELIZABETHTOWN WATER COMPANY
CHAIN LINK FENCE
PROPERTY LINE
CONRAIL
CONRAIL
MW-3D SHALLOW MONITORING WELL
MW-3S DEEP MONITORING WELL
MW-4SR SHALLOW REPLACEMENT MONITORING WELL
UNT UNDERGROUND HOLDING TANK
TP TRANSFORMER PAD
ET ELECTRIC TRANSFORMER
CONCRETE
(14.31) RELATIVE WATER LEVEL ELEVATION IN FEET
INFERRED GROUNDWATER ELEVATION CONTOUR IN FEET CONTOUR INTERVAL = 1.00 FOOT
NOTE: MW-10D LOCATION IS APPROXIMATE
N
60 0 60 120
SCALE FEET
SOURCE: MAGER SOURCES & ASSOCIATES, P.A. NATAVIAN, NEW JERSEY
MONITORING WELL LOCATION PLAN FOR SAFETY-KLEEN CORPORATION CITY OF LINDEN UNION COUNTY NEW JERSEY
JOB NO. 01033A SHEET 1 of 1
MAP NO. 3032MW1 DATED MARCH 10, 1992
SIGNATURE DATE
REVIEW HYDRO/GEO:
PROJECT HYDRO/GEO:
PROJECT MGR:
CLIENT:
FLUOR DANIEL GTI
310 HORIZON CENTER DRIVE
TRENTON, N.J. 08601
(609) 587-0300
SAFETY-KLEEN CORPORATION
LINDEN, NEW JERSEY
GROUNDWATER ELEVATION CONTOURS - DEEP WELLS
22 OCTOBER 1987
DESIGNED BY: MBN
DETAILED BY: DLB
CHECKED BY:
DATE: 1/12/98
FILE: LIND09D
PROJECT NO.: 01331-0359
GAUGING DATE:

FIGURE 2



SHALLOW MONITORING WELL
DEEP MONITORING WELL
SHALLOW REPLACEMENT MONITORING WELL
UNDERGROUND HOLDING TANK
TRANSFORMER PAD
ELECTRIC TRANSFORMER
CONCRETE
RELATIVE WATER LEVEL ELEVATION IN FEET
INFERRED GROUNDWATER ELEVATION CONTOUR IN FEET
CONTOUR INTERVAL = 1.00 FEET

SCALE FEET

SIGNATURE	DATE
REVIEW HYDRO/GEO:	
PROJECT HYDRO/GEO:	
PROJECT MGR:	
CLIENT:	

FLUOR DANIEL GTI
510 HOUSTON CENTER DRIVE
TRENTON, N.J. 08691
(609) 807-0300

SAFETY-KLEEN CORPORATION

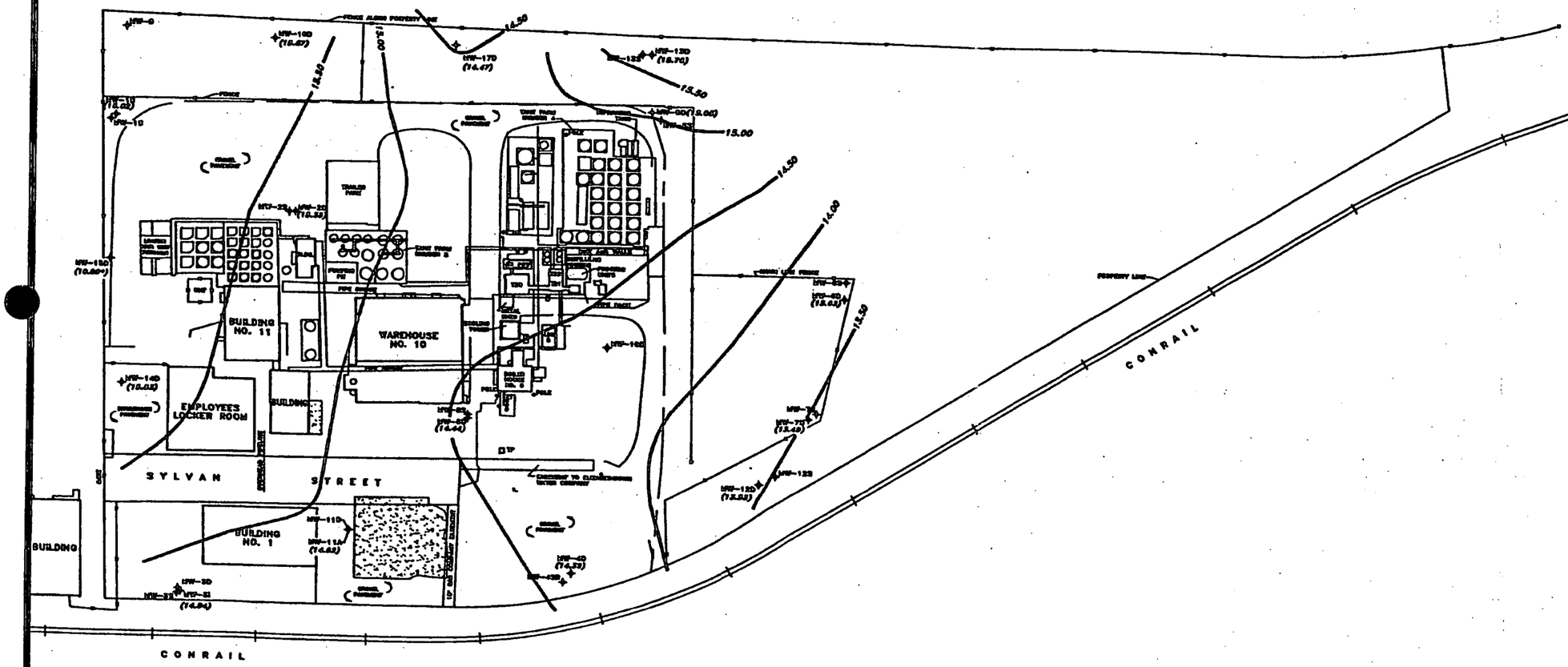
LINDEN, NEW JERSEY

GROUNDWATER ELEVATION CONTOURS - SHALLOW WELLS
13 JANUARY 1997

DESIGNED BY:	DETAILED BY:	CHECKED BY:
MBN	DLM	

DATE:	FILE:
5/1/97	LIND05S
PROJECT NO.: 01331-0354	GAUGING DATE:

FIGURE 1



SIGNATURE	DATE
REVIEW HYDRO/GEOL	
PROJECT HYDRO/GEOL	
PROJECT MGR.	
CLIENT	

FLUOR DANIEL GTI

310 HORIZON CENTER DRIVE
TRENTON, N.J. 08691 (609) 587-0300

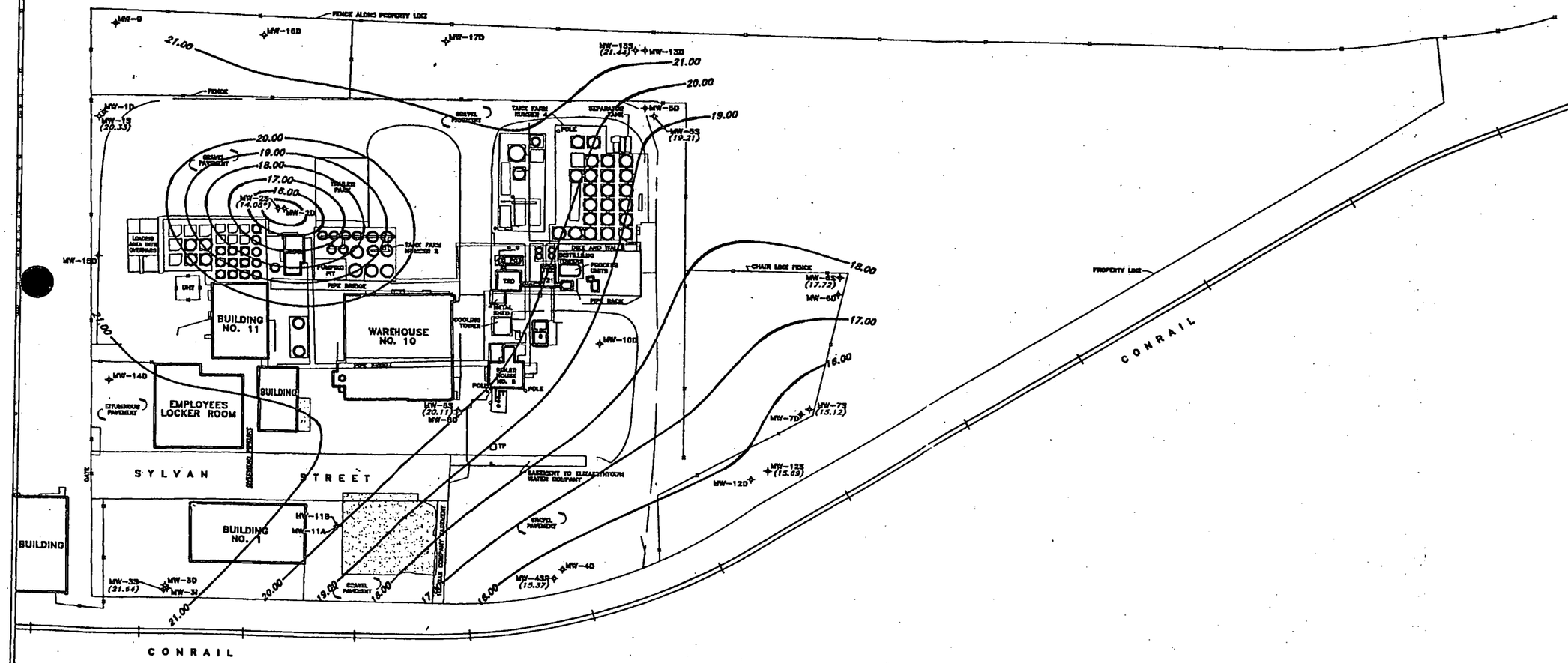
SAFETY-KLEEN CORPORATION

LINDEN, NEW JERSEY

GROUNDWATER ELEVATION CONTOURS - DEEP WELLS 13 JANUARY 1997

DESIGNED BY: MBN	DETAILED BY: DLM	CHECKED BY:
DATE: 5/1/97	FILE: LIND05D	
PROJECT NO.: 01331-0334	RAISING DATE:	

FIGURE 2



MW-3D SHALLOW MONITORING WELL
MW-3S DEEP MONITORING WELL
MW-4SR SHALLOW REPLACEMENT MONITORING WELL
UHT UNDERGROUND HOLDING TANK
TP TRANSFORMER PAD
ET ELECTRIC TRANSFORMER
CONCRETE
(20.33) RELATIVE WATER LEVEL ELEVATION IN FEET
DEPICTED GROUNDWATER ELEVATION CONTOURS IN FEET. CONTOUR INTERVAL = 1.00 FOOT
ELEVATION BASED UPON EXTRACTION PUMP INTAKE ELEVATION

NOTE: MW-10D LOCATION IS APPROXIMATE

N

SCALE: 60 0 60 120 FEET

SOURCE: MASER SOLOMON & ASSOCIATES, P.A.
MATAWAN, NEW JERSEY
MONITORING WELL LOCATION PLAN FOR
SAFETY-KLEEN CORPORATION CITY OF LINDEN
UNION COUNTY NEW JERSEY
JOB NO. 91033A SHEET 1 of 1
MAP NO. 2033MW1 DATED MARCH 16, 1992

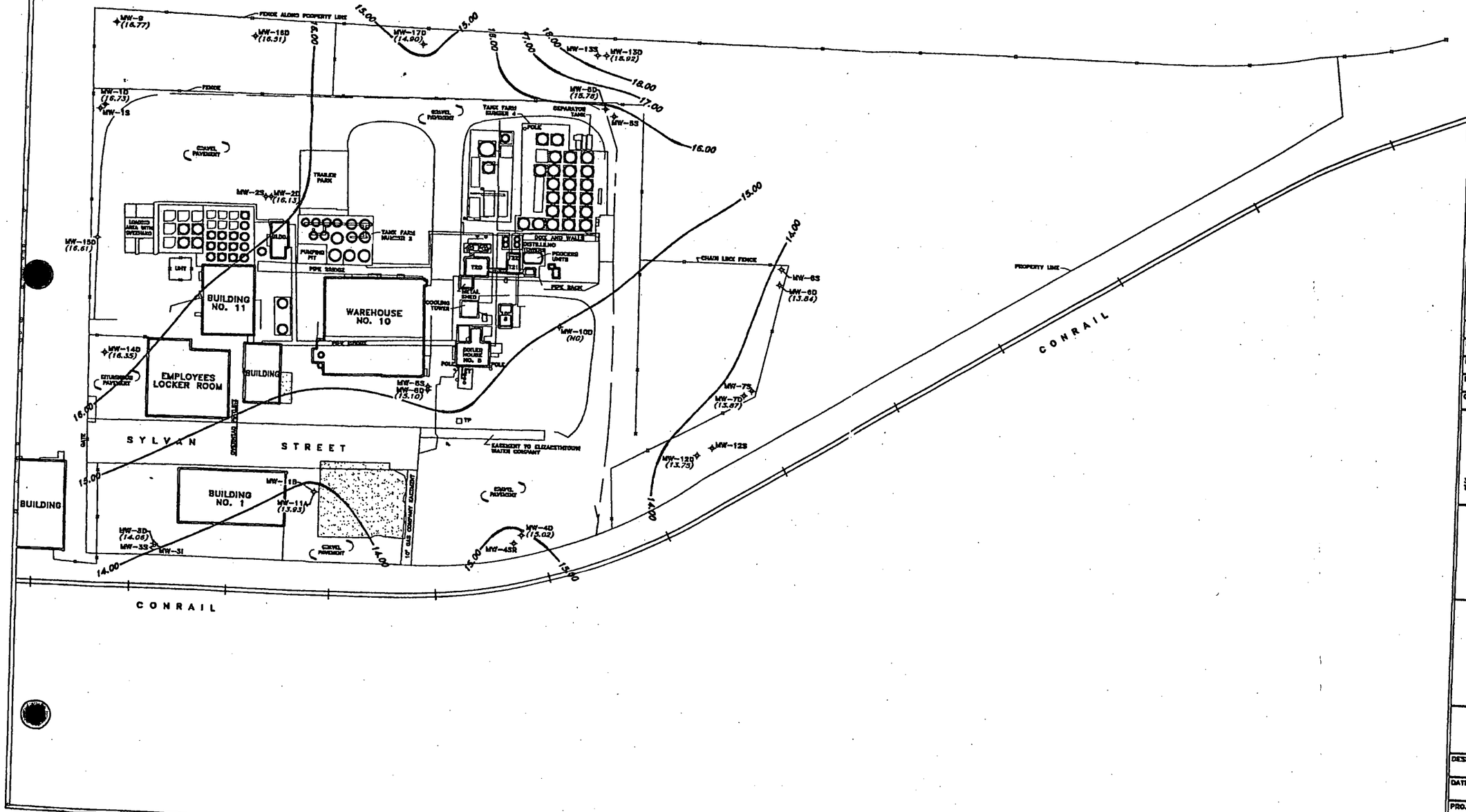
SIGNATURE	DATE
REVIEW HYDRO/GEO:	
PROJECT HYDRO/GEO:	
PROJECT MGR:	
CLIENT:	

FLUOR DANIEL GTI
310 HORIZON CENTER DRIVE
TRENTON, N.J. 08691 (609) 587-0300

SAFETY-KLEEN CORPORATION
LINDEN, NEW JERSEY

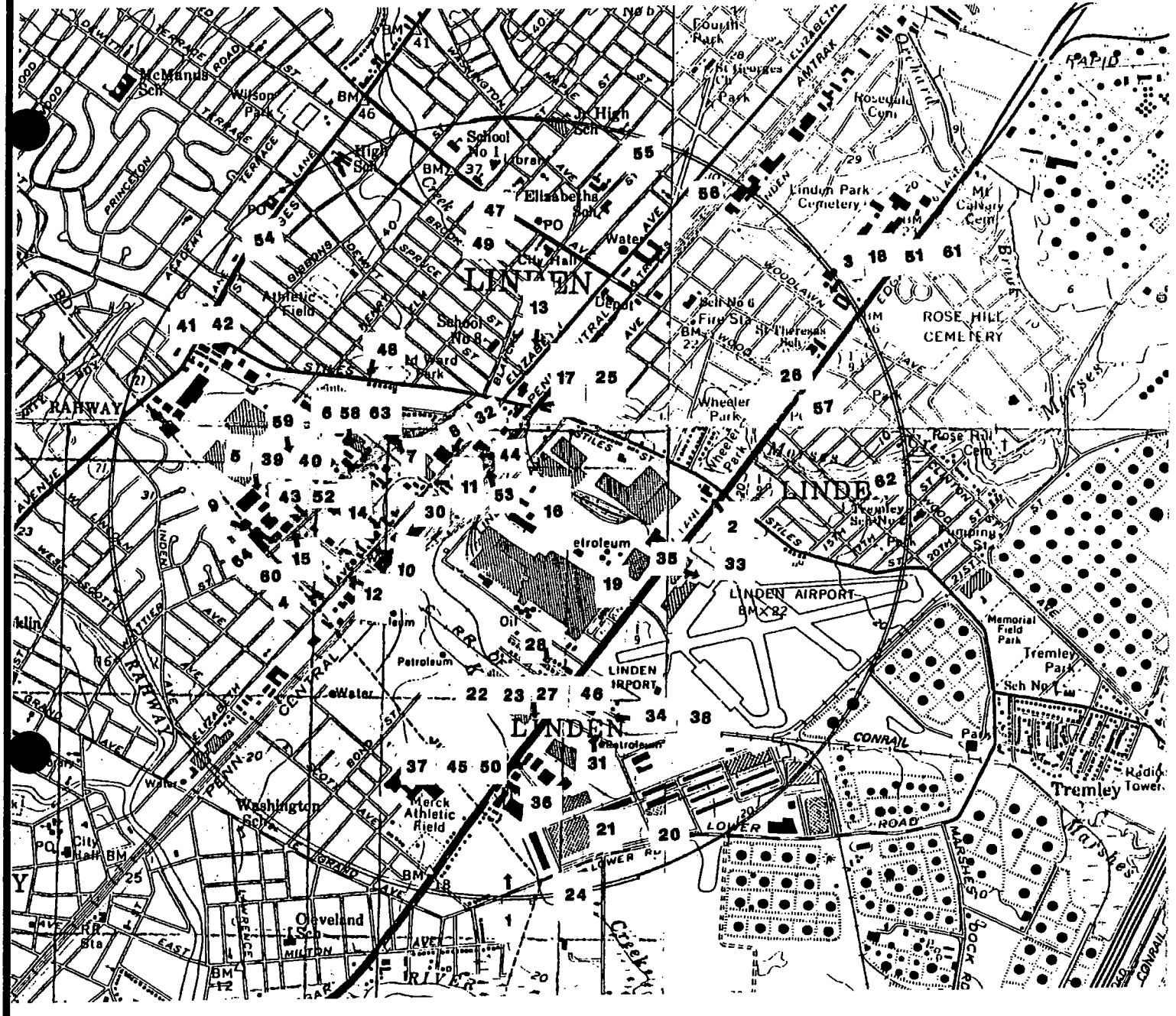
GROUNDWATER ELEVATION CONTOURS - SHALLOW WELLS
13 JANUARY 1998

DESIGNED BY:	DETAILED BY:	CHECKED BY:
[illegible]	GLD/[illegible]	
DATE: 4/14/[illegible]	FILE: [illegible]	
PROJECT NO.: 105[illegible]	GAUGING DATE: 01/13/[illegible]	


MW-9 (16.77)
FENCE ALONG PROPERTY LINE
MW-16D (16.51)
MW-17D (14.90)
MW-13S
MW-13D (15.92)
MW-15 (16.73)
FENCE
MW-1S
MW-8D (15.78)
MW-8S
GRAVEL PAVEMENT
GRAVEL PAVEMENT
TANK FARM BURGER 4
SEPARATOR TANK
POLE
TRAILER PARK
MW-2S
MW-2I (16.13)
LOADING AREA WITH BERM AND
SILOS
TANK FARM MULTIPLE 3
PUMPING PIT
PIPE BRIDGE
MW-15D (16.61)
UHT
BUILDING NO. 11
WAREHOUSE NO. 10
DOCK AND WALL
DISTILLING TOWERS
PROCESS UNITS
T720
T721
PIPE RACK
METAL SHED
COOLING TOWER
MW-100 (ND)
BOILER HOUSE NO. 5
POLE
POLE
UHT
MW-14D (16.35)
EMPLOYEES LOCKER ROOM
BUILDING
MW-6S
MW-6D (15.10)
TP
GATE
SYLVAN STREET
STORMWATER OUTLET
EASEMENT TO ELIZABETHTOWN WATER COMPANY
BUILDING
BUILDING NO. 1
MW-1S
MW-11I (13.93)
GRAVEL PAVEMENT
1ST GAS COMPANY EASEMENT
MW-3D (14.06)
MW-3S
MW-3I
GRAVEL PAVEMENT
MW-4D (15.02)
MW-4SR
CHAIN LINK FENCE
MW-6S
MW-6D (13.84)
MW-7S
MW-7D (13.67)
MW-12D (13.73)
MW-12S
PROPERTY LINE
CONRAIL
CONRAIL
15.00
16.00
17.00
18.00
14.00
MW-5D SHALLOW MONITORING WELL
MW-3S DEEP MONITORING WELL
MW-4SR SHALLOW REPLACEMENT MONITORING WELL
UHT UNDERGROUND HOLDING TANK
TP TRANSFORMER PAD
ET ELECTRIC TRANSFORMER
CONCRETE
(16.73) RELATIVE WATER LEVEL ELEVATION IN FEET
DEFINED GROUNDWATER ELEVATION CONTOUR IN FEET CONTOUR INTERVAL = 1.00 FOOT
(ND) WATER LEVEL ELEVATION NOT GAUGED
NOTE: MW-100 LOCATION IS APPROXIMATE
N
60 0 60 120
SCALE FEET
SOURCE: MASER SOLOMON & ASSOCIATES, P.A. MATAWAN, NEW JERSEY
MONITORING WELL LOCATION PLAN FOR SAFETY-KLEEN CORPORATION, CITY OF LINDEN UNION COUNTY, NEW JERSEY
JOB NO. 910334 SHEET 1 of 1
MAP NO. 3043AW1 DATED MARCH 16, 1992
SIGNATURE DATE
REVIEW HYDRO/GEO:
PROJECT HYDRO/GEO:
PROJECT MGR:
CLIENT:
FLUOR DANIEL GTI
310 HORIZON CENTER DRIVE
TRENTON, N.J. 08691 (609) 587-0300
SAFETY-KLEEN CORPORATION
LINDEN, NEW JERSEY
GROUNDWATER ELEVATION CONTOURS - DEEP WELLS
13 JANUARY 1998
DESIGNED BY:
DETAILED BY: BLD
CHECKED BY:
DATE: 4/14/98
FILE: LX3100
PROJECT NO.:
GAUGING DATE:

WELL SEARCH TABLE AND FIGURE

APPENDIX I



Ground Water Wells Within One Mile of General Motors Site

1016 West Edgar Road

Linden **Union County** **New Jersey**

QUAD LOCATION

USGS 7.5 MINUTE
PERTH AMBOY, NJ
QUADRANGLE

FIGURE # 1

BELL PROJECT # ~~94011-01~~

938401

TABLE

NJDEP WELL SEARCH - 1 MILE RADIUS SEARCH
GENERAL MOTORS CORPORATION
LINDEN, UNION COUNTY, NEW JERSEY
BELL PROJECT #EOG01-93089-02

Bell Environmental Consultants, Inc.

ID #	WELL OWNER	ADDRESS	TOTAL DEPTH (feet)	LENGTH OF CASING (feet)	STATIC WATER ELEVATION (feet)	USE CODE	SOURCE OF INFORMATION
1a	Merck & Company	E. Lincoln Avenue, Rahway	60	60	10	M	NJDEP AND SITE LIST CASES
1b	Merck & Company	E. Lincoln Avenue, Rahway	54	53.5	8	M	NJDEP AND SITE LIST CASES
1c	Merck & Company	E. Lincoln Avenue, Rahway	32.5	22	8	M	NJDEP AND SITE LIST CASES
1d	Merck & Company	E. Lincoln Avenue, Rahway	25	23	9	M	NJDEP AND SITE LIST CASES
1e	Merck & Company	E. Lincoln Avenue, Rahway	28	25.5	7	M	NJDEP AND SITE LIST CASES
1f	Merck & Company	E. Lincoln Avenue, Rahway	22	20.5	7.5	M	NJDEP AND SITE LIST CASES
1g	Merck & Company	E. Lincoln Avenue, Rahway	24	22	4	M	NJDEP AND SITE LIST CASES
1h	Merck & Company	E. Lincoln Avenue, Rahway	30	29.5	10	M	NJDEP AND SITE LIST CASES
1i	Merck & Company	E. Lincoln Avenue, Rahway	22' 6"	22	8	M	NJDEP AND SITE LIST CASES
1j	Merck & Company	E. Lincoln Avenue, Rahway	34	33	7.5	M	NJDEP AND SITE LIST CASES
1k	Merck & Company	E. Lincoln Avenue, Rahway	28' 6"	28	7.5	M	NJDEP AND SITE LIST CASES
1l	Merck & Company	E. Lincoln Avenue, Rahway	24	22	14	M	NJDEP AND SITE LIST CASES
1m	Merck & Company	E. Lincoln Avenue, Rahway	35	33.5	10	M	NJDEP AND SITE LIST CASES
1n	Merck & Company	E. Lincoln Avenue, Rahway	29	28.5	8	M	NJDEP AND SITE LIST CASES
1o	Merck & Company	E. Lincoln Avenue, Rahway	87.8	86	7.5	M	NJDEP AND SITE LIST CASES
1p	Merck & Company	E. Lincoln Avenue, Rahway	91	60	7.5	M	NJDEP AND SITE LIST CASES
1q	Merck & Company	E. Lincoln Avenue, Rahway	57	55	14	M	NJDEP AND SITE LIST CASES
1r	Merck & Company	E. Lincoln Avenue, Rahway	65	63.5	10	M	NJDEP AND SITE LIST CASES
1s	Merck & Company	E. Lincoln Avenue, Rahway	61	60	8	M	NJDEP AND SITE LIST CASES
1t	Merck & Company	E. Lincoln Avenue, Rahway	15.5	15	7.5	M	NJDEP AND SITE LIST CASES
1u	Merck & Company	E. Lincoln Avenue, Rahway	15	14.5	7.5	M	NJDEP AND SITE LIST CASES
1v	Merck & Company	E. Lincoln Avenue, Rahway	16	15	10	M	NJDEP AND SITE LIST CASES
1w	Merck & Company	E. Lincoln Avenue, Rahway	65	62.5	8	M	NJDEP AND SITE LIST CASES
1x	Merck & Company	E. Lincoln Avenue, Rahway	55.5	53.5	9	M	NJDEP AND SITE LIST CASES
1y	Merck & Company	E. Lincoln Avenue, Rahway	58.5	55.5	7	M	NJDEP AND SITE LIST CASES
1z	Merck & Company	E. Lincoln Avenue, Rahway	48	47	7.5	M	NJDEP AND SITE LIST CASES
1aa	Merck & Company	E. Lincoln Avenue, Rahway	54	52.5	8	M	NJDEP AND SITE LIST CASES
1bb	Merck & Company	E. Lincoln Avenue, Rahway	59	57	4	M	NJDEP AND SITE LIST CASES
1cc	Merck & Company	E. Lincoln Avenue, Rahway	48	22	15	M	NJDEP AND SITE LIST CASES
1dd	Merck & Company	E. Lincoln Avenue, Rahway	50	25	15	M	NJDEP AND SITE LIST CASES
1ee	Merck & Company	E. Lincoln Avenue, Rahway	18.5	5	15	M	NJDEP AND SITE LIST CASES
1ff	Merck & Company	126 E. Lincoln Avenue, Rahway	15	14.5	10	M	NJDEP AND SITE LIST CASES
1gg	Merck & Company	126 E. Lincoln Avenue, Rahway	91	89	8	M	NJDEP AND SITE LIST CASES
1hh	Merck & Company	126 E. Lincoln Avenue, Rahway	68	67	8	M	NJDEP AND SITE LIST CASES
1ii	Merck & Company	126 E. Lincoln Avenue, Rahway	30	27	7.5	M	NJDEP AND SITE LIST CASES
1jj	Merck & Company	126 E. Lincoln Avenue, Rahway	35.5	35	6	M	NJDEP AND SITE LIST CASES
1kk	Merck & Company	126 E. Lincoln Avenue, Rahway	15.5	15	6	M	NJDEP AND SITE LIST CASES
1ll	Merck & Company	126 E. Lincoln Avenue, Rahway	16	14.5	7.5	M	NJDEP AND SITE LIST CASES
1mm	Merck & Company	126 E. Lincoln Avenue, Rahway	17	15.7	7.5	M	NJDEP AND SITE LIST CASES
1nn	Merck & Company	126 E. Lincoln Avenue, Rahway	15	15.5	10	M	NJDEP AND SITE LIST CASES
1oo	Merck & Company	126 E. Lincoln Avenue, Rahway	17	8.5	15	M	NJDEP AND SITE LIST CASES
1pp	Merck & Company	126 E. Lincoln Avenue, Rahway	9	6	N/A	Z	NJDEP AND SITE LIST CASES
1qq	Merck & Company	126 E. Lincoln Avenue, Rahway	9	5.5	N/A	Z	NJDEP AND SITE LIST CASES
2a	Sun Refining & Marketing	Rt. 1 and Stiles Street, Linden	18	1	5.5	M	NJDEP
2b	Sun Refining & Marketing	Rt. 1 and Stiles Street, Linden	16	1	6	M	NJDEP
2c	Sun Refining & Marketing	Rt. 1 and Stiles Street, Linden	18	1	5	M	NJDEP
2d	Mandelbaum, David Esq. (Sunoco)	Rt. 1 and Stiles Street, Linden	18	3	3.7	M	NJDEP
2e	Mandelbaum, David Esq. (Sunoco)	Rt. 1 and Stiles Street, Linden	18	3	3	M	NJDEP
2f	Mandelbaum, David Esq. (Sunoco)	Rt. 1 and Stiles Street, Linden	18	3	6	M	NJDEP
2g	Mandelbaum, David Esq. (Sunoco)	Rt. 1 and Stiles Street, Linden	18	3	5	M	NJDEP

USE CODES

D= DOMESTIC
E= RECOVERY/DECONTAMINATION POLLUTION CONTROL/LEACHATE WITH PUMP CAPACITY
I= INDUSTRIAL
M= MONITORING
T= TEST
Z= PIEZOMETER

TABLE

NJDEP WELL SEARCH - 1 MILE RADIUS SEARCH
GENERAL MOTORS CORPORATION
LINDEN, UNION COUNTY, NEW JERSEY
BELL PROJECT #EOG01-93089-02

Bell Environmental Consultants, Inc.

ID #	WELL OWNER	ADDRESS	TOTAL DEPTH (feet)	LENGTH OF CASING (feet)	STATIC WATER ELEVATION (feet)	USE CODE	SOURCE OF INFORMATION
3b	Chester, Irving	Commerce Road, Linden	15	1.5	3' 3"	M	NJDEP
3c	Chester, Irving	Commerce Road, Linden	13	1' 1"	2' 3"	M	NJDEP
3d	Chester, Irving	Commerce Road, Linden	15	5	8.5	M	NJDEP
3e	Chester, Irving	Commerce Road, Linden	15	5	8.5	M	NJDEP
3f	Chester, Irving	Commerce Road, Linden	15	5	2	M	NJDEP
3g	Chester, Irving	Commerce Road, Linden	15	5	7	M	NJDEP
4a	USX Corporation	1711 W. Elizabeth Avenue, Linden	14	6	N/A	M	NJDEP
4b	USX Corporation	1711 W. Elizabeth Avenue, Linden	14	7	N/A	M	NJDEP
4c	USX Corporation	1711 W. Elizabeth Avenue, Linden	14	7	N/A	M	NJDEP
4d	USX Corporation	1711 W. Elizabeth Avenue, Linden	15.6	8.1	N/A	M	NJDEP
4e	USX Corporation	1711 W. Elizabeth Avenue, Linden	16	8.5	8	M	NJDEP
4f	USX Corporation	1711 W. Elizabeth Avenue, Linden	14	6	7	M	NJDEP
4g	USX Corporation	1711 W. Elizabeth Avenue, Linden	14	4	8	M	NJDEP
4h	USX Corporation	1711 W. Elizabeth Avenue, Linden	13	3	5	M	NJDEP
4i	USX Corporation	1711 W. Elizabeth Avenue, Linden	14	4	7	M	NJDEP
4j	USX Corporation	1711 W. Elizabeth Avenue, Linden	14	4	7	M	NJDEP
4k	USX Corporation	1711 W. Elizabeth Avenue, Linden	30	20	24	M	NJDEP
4l	USX Corporation	1711 W. Elizabeth Avenue, Linden	30	20	24	M	NJDEP
4m	USX Corporation	1711 W. Elizabeth Avenue, Linden	15	5	8	M	NJDEP
4n	USX Corporation	1711 W. Elizabeth Avenue, Linden	14	4	7	M	NJDEP
4o	USX Corporation	1711 W. Elizabeth Avenue, Linden	15	5	8	M	NJDEP
5	Automatic Injection Molding	315 Cantor Avenue, Linden	250	28' 9"	34	I	NJDEP
6a	West Blancke Assoc.	1200 W. Blancke Street, Linden	27	15	N/A	M	NJDEP
6b	West Blancke Assoc.	1200 W. Blancke Street, Linden	21	10	N/A	M	NJDEP
6c	West Blancke Assoc.	1200 W. Blancke Street, Linden	21	10	N/A	M	NJDEP
6d	West Blancke Assoc.	1200 W. Blancke Street, Linden	16	5	N/A	M	NJDEP
6e	West Blancke Assoc.	1200 W. Blancke Street, Linden	18.5	8	9'8"	M	NJDEP
7a	American Flange and Manuf.	1100 W. Blancke Street, Linden	19	9' 9"	12	M	NJDEP & SITE LIST CASES
7b	American Flange and Manuf.	1100 W. Blancke Street, Linden	20	9' 9"	9	M	NJDEP & SITE LIST CASES
7c	American Flange and Manuf.	1100 W. Blancke Street, Linden	17	10	7	M	NJDEP & SITE LIST CASES
7d	American Flange and Manuf.	1100 W. Blancke Street, Linden	17	9' 9"	9	M	NJDEP & SITE LIST CASES
7e	American Flange and Manuf.	1100 W. Blancke Street, Linden	17	18	7	M	NJDEP & SITE LIST CASES
7f	American Flange and Manuf.	1100 W. Blancke Street, Linden	17	10	7	M	NJDEP & SITE LIST CASES
7g	American Flange and Manuf.	1100 W. Blancke Street, Linden	18	9	10	M	NJDEP & SITE LIST CASES
7h	American Flange and Manuf.	1100 W. Blancke Street, Linden	18	9	8	M	NJDEP & SITE LIST CASES
7i	American Flange and Manuf.	1100 W. Blancke Street, Linden	20	3.5	8	M	NJDEP & SITE LIST CASES
7j	American Flange and Manuf.	1100 W. Blancke Street, Linden	16.9	4	6' 8"	Z	NJDEP & SITE LIST CASES
7k	American Flange and Manuf.	1100 W. Blancke Street, Linden	7' 11"	5	7' 8"	Z	NJDEP & SITE LIST CASES
7l	American Flange and Manuf.	1100 W. Blancke Street, Linden	15	5	7' 8"	Z	NJDEP & SITE LIST CASES
7m	American Flange and Manuf.	1100 W. Blancke Street, Linden	15	5	8' 3"	Z	NJDEP & SITE LIST CASES
8	Layne New York Company	1250 W. Elizabeth Avenue, Linden	308	38	20	T	NJDEP
9	American Vitamin Products	1600 W. Blancke Street, Linden	18	4.5	8	M	NJDEP
10a	Ancet Realty Corporation	1539 W. Elizabeth Avenue, Linden	10	N/A	2.08	T	NJDEP
10b	Ancet Realty Corporation	1539 W. Elizabeth Avenue, Linden	10	N/A	2.33	T	NJDEP
10c	Ancet Realty Corporation	1539 W. Elizabeth Avenue, Linden	10	N/A	4.33	T	NJDEP
10d	Ancet Realty Corporation	1539 W. Elizabeth Avenue, Linden	3	N/A	2.54	E	NJDEP
11a	Martin Burger	1301 W. Elizabeth Avenue, Linden	15	5	N/A	M	NJDEP
11b	Martin Burger	1301 W. Elizabeth Avenue, Linden	14	4	N/A	M	NJDEP
12a	Basic Formulations Inc.	1600 W. Elizabeth Avenue, Linden	17	14.5	N/A	T	NJDEP
12b	Basic Formulations Inc.	1600 W. Elizabeth Avenue, Linden	18	15.5	N/A	T	NJDEP
12c	Basic Formulations, Inc.	1600 W. Elizabeth Avenue, Linden	17	14.5	N/A	T	NJDEP
12d	Basic Formulations, Inc.	1600 W. Elizabeth Avenue, Linden	17	2	N/A	T	NJDEP
12e	Basic Formulations, Inc.	1600 W. Elizabeth Avenue, Linden	17	2	N/A	T	NJDEP
12f	Basic Formulations, Inc.	1600 W. Elizabeth Avenue, Linden	17	2	N/A	T	NJDEP
13	Linden Ice Company	18 Donaldson Place, Linden	550	40	19	I	NJDEP

USE CODES

D= DOMESTIC
E= RECOVERY/DECONTAMINATION POLLUTION CONTROL/LEACHATE WITH PUMP CAPACITY
I= INDUSTRIAL
M= MONITORING
T= TEST
Z= PIEZOMETER

TABLE

NJDEP WELL SEARCH - 1 MILE RADIUS SEARCH
GENERAL MOTORS CORPORATION
LINDEN, UNION COUNTY, NEW JERSEY
BELL PROJECT #EOG01-93089-02

Bell Environmental Consultants, Inc.

ID #	WELL OWNER	ADDRESS	TOTAL DEPTH (feet)	LENGTH OF CASING (feet)	STATIC WATER ELEVATION (feet)	USE CODE	SOURCE OF INFORMATION
14a	A.H.C. Manufacturing Corp.	1400 W. Elizabeth Street, Linden	20	7.5	11	M	NJDEP
14b	A.H.C. Manufacturing Corp.	1400 W. Elizabeth Street, Linden	20	7	9	M	NJDEP
14c	A.H.C. Manufacturing Corp.	1400 W. Elizabeth Street, Linden	20	7	9	M	NJDEP
14d	A.H.C. Manufacturing Corp.	1400 W. Elizabeth Street, Linden	20	7	8	M	NJDEP
14e	A.H.C. Manufacturing Corp.	1400 W. Elizabeth Street, Linden	19	6	7	M	NJDEP
14f	A.H.C. Manufacturing Corp.	1400 W. Elizabeth Street, Linden	19.5	4	8.5	M	NJDEP
14g	A.H.C. Manufacturing Corp.	1400 W. Elizabeth Street, Linden	20	6.5	7.7	M	NJDEP
15	Ideal Planting Company	1570 W. Blancke Street, Linden	240	57	N/A	I	NJDEP
16a	General Motors Corporation	1016 Edgar Road (Route 1), Linden	20.5	10	13	M	NJDEP
16b	General Motors Corporation	1016 Edgar Road (Route 1), Linden	18	8	11	M	NJDEP
16c	General Motors Corporation	1016 Edgar Road (Route 1), Linden	20.5	10	13	M	NJDEP
16d	General Motors Corporation	1016 Edgar Road (Route 1), Linden	18	8	11	M	NJDEP
16e	General Motors Corporation	1016 Edgar Road (Route 1), Linden	20	10	12	M	NJDEP
16f	General Motors Corporation	1016 Edgar Road (Route 1), Linden	20	10	12	M	NJDEP
16g	General Motors Corporation	1016 Edgar Road (Route 1), Linden	20	10	12	M	NJDEP
16h	General Motors Corporation	1016 Edgar Road (Route 1), Linden	50	40	12	M	NJDEP
16i	General Motors Corporation	1016 Edgar Road (Route 1), Linden	50	40	12	M	NJDEP
16j	General Motors Corporation	1016 Edgar Road (Route 1), Linden	22	12	14	M	NJDEP
16k	General Motors Corporation	1016 Edgar Road (Route 1), Linden	20	10	12	M	NJDEP
16l	General Motors Corporation	1016 Edgar Road (Route 1), Linden	20	10	12	M	NJDEP
16m	General Motors Corporation	1016 Edgar Road (Route 1), Linden	20	10	12	M	NJDEP
16n	General Motors Corporation	1016 Edgar Road (Route 1), Linden	45	35	12	M	NJDEP
16o	General Motors Corporation	1016 Edgar Road (Route 1), Linden	43	33	12	M	NJDEP
16p	General Motors Corporation	1016 Edgar Road (Route 1), Linden	20.5	8	11	M	NJDEP
16q	General Motors Corporation	1016 Edgar Road (Route 1), Linden	25	25	11	M	NJDEP
16r	General Motors Corporation	1016 Edgar Road (Route 1), Linden	20	20	8.5	M	NJDEP
16s	General Motors Corporation	1016 Edgar Road (Route 1), Linden	25.5	25.5	9	M	NJDEP
16t	General Motors Corporation	1016 Edgar Road (Route 1), Linden	20	20	10	M	NJDEP
16u	General Motors Corporation	1016 Edgar Road (Route 1), Linden	23	23	12.5	M	NJDEP
16v	General Motors Corporation	1016 Edgar Road (Route 1), Linden	50	30	9	M	NJDEP
16w	General Motors Corporation	1016 Edgar Road (Route 1), Linden	60	40	10	M	NJDEP
16x	General Motors Corporation	1016 Edgar Road (Route 1), Linden	50	30	10	M	NJDEP
16y	General Motors Corporation	1016 Edgar Road (Route 1), Linden	58	38	13	M	NJDEP
17a	Atochem North America, Inc.	5 N. Stiles Street, Linden	23	8	8.77	M	NJDEP
17b	Atochem North America, Inc.	5 N. Stiles Street, Linden	23	8	7.72	M	NJDEP
17c	Atochem North America, Inc.	5 N. Stiles Street, Linden	20	5	7	M	NJDEP
17d	Atochem North America, Inc.	5 N. Stiles Street, Linden	20.5	5.5	7	M	NJDEP
18a	Paterson, Elizabeth	401 Commerce Road, Linden	18	17	N/A	M	NJDEP
18b	Paterson, Elizabeth	401 Commerce Road, Linden	18.5	17	N/A	M	NJDEP
19a	Anchor Motor Freight	1601 W. Edgar Road, Linden	15	5	8	M	NJDEP
19b	Anchor Motor Freight	1601 W. Edgar Road, Linden	15	5	6	M	NJDEP
19c	Anchor Motor Freight	1601 W. Edgar Road, Linden	14.5	4.5	5.5	M	NJDEP
20a	Texas Eastern Gas Pipeline	Lower Rd. and Range Drive, Linden	16	1.55	10.3	M	NJDEP & SITE LIST CASE
20b	Texas Eastern Gas Pipeline	Lower Rd. and Range Drive, Linden	16	2.5	11.2	M	NJDEP & SITE LIST CASE
20c	Texas Eastern Gas Pipeline	Lower Rd. and Range Drive, Linden	16	1.15	N/A	M	NJDEP & SITE LIST CASE
21a	City of Linden	1701-1751 Lower Road, Linden	40	8	N/A	M	NJDEP
21b	City of Linden	1701-1751 Lower Road, Linden	95	38	N/A	M	NJDEP
21c	City of Linden	1701-1751 Lower Road, Linden	85	28.5	N/A	M	NJDEP
21d	City of Linden	1701-1751 Lower Road, Linden	13	3	N/A	M	NJDEP
21e	City of Linden	1701-1751 Lower Road, Linden	85	47	N/A	M	NJDEP
21f	City of Linden	1701-1751 Lower Road, Linden	28	1	N/A	M	NJDEP
21g	City of Linden	1701-1751 Lower Road, Linden	28	8	N/A	M	NJDEP
21h	City of Linden	1701-1751 Lower Road, Linden	27.5	4	N/A	M	NJDEP
21i	City of Linden	1701-1751 Lower Road, Linden	10	3	N/A	M	NJDEP

USE CODES

D= DOMESTIC
E= RECOVERY/DECONTAMINATION POLLUTION CONTROL/LEACHATE WITH PUMP CAPACITY
I= INDUSTRIAL
M= MONITORING
T= TEST
Z= PIEZOMETER

TABLE

NJDEP WELL SEARCH - 1 MILE RADIUS SEARCH
GENERAL MOTORS CORPORATION
LINDEN, UNION COUNTY, NEW JERSEY
BELL PROJECT #EOG01-93089-02

Bell Environmental Consultants, Inc.

ID #	WELL OWNER	ADDRESS	TOTAL DEPTH (feet)	LENGTH OF CASING (feet)	STATIC WATER ELEVATION (feet)	USE CODE	SOURCE OF INFORMATION
22a	Linden Investment Company	1601 Edgar Road, Linden	15	5	N/A	M	NJDEP
22b	Linden Investment Company	1601 Edgar Road, Linden	17	7	N/A	M	NJDEP
22c	Linden Investment Company	1601 Edgar Road, Linden	18	5	N/A	M	NJDEP
22d	Linden Investment Company	1601 Edgar Road, Linden	18	3	N/A	M	NJDEP
22e	Linden Investment Company	1601 Edgar Road, Linden	18	3	N/A	M	NJDEP
23	Hartz-Linden Properties	1600 West Edgar Road, Linden	15	5	8	Z	NJDEP
24	Darby Corporation	1800 Lower Road, Linden	21	6	8	M	NJDEP
25a	Cooks Industrial Lubricants	5 N. Stiles Street, Linden.	19	3	3	M	NJDEP AND SITE LIST CASES
25b	Cooks Industrial Lubricants	5 N. Stiles Street, Linden	19	3	3	M	NJDEP AND SITE LIST CASES
25c	Cooks Industrial Lubricants	5 N. Stiles Street, Linden	19	3	3	M	NJDEP AND SITE LIST CASES
25d	Cooks Industrial Lubricants	5 N. Stiles Street, Linden	24	8	16	M	NJDEP AND SITE LIST CASES
25e	Cooks Industrial Lubricants	5 N. Stiles Street, Linden	20	4	11	M	NJDEP AND SITE LIST CASES
25f	Cooks Industrial Lubricants	5 N. Stiles Street, Linden	22	7	8	M	NJDEP AND SITE LIST CASES
25g	Cooks Industrial Lubricants	5 N. Stiles Street, Linden	20	5	7	M	NJDEP AND SITE LIST CASES
26a	Exxon Company, USA	Rt. 1 and Wood Avenue, Linden	12	2	5	M	NJDEP
26b	Exxon Company, USA	Rt. 1 and Wood Avenue, Linden	12	2	5	M	NJDEP
26c	Exxon Company, USA	Rt. 1 and Wood Avenue, Linden	12	2	5	M	NJDEP
26d	Exxon Company, USA	Rt. 1 and Wood Avenue, Linden	12	2	5	M	NJDEP
27a	Leaseway Corporation	1601 W. Edgar Road, Linden	15	5	7	M	NJDEP
27b	Leaseway Corporation	1601 W. Edgar Road, Linden	15	5	7	M	NJDEP
27c	Leaseway Corporation	1601 W. Edgar Road, Linden	15	5	7	M	NJDEP
27d	Leaseway Corporation	1601 W. Edgar Road, Linden	15	5	7	M	NJDEP
28	Walter Milciukciuk	828 Smith Street, Linden	86	40	12	D	NJDEP
29a	Franklin Realty	1301 W. Elizabeth Avenue, Linden	15	4	N/A	M	NJDEP
29b	Franklin Realty	1301 W. Elizabeth Avenue, Linden	16	5	N/A	M	NJDEP
29c	Franklin Realty	1301 W. Elizabeth Avenue, Linden	15	5	N/A	M	NJDEP
30a	Standard T Chemical Corp.	1312 W. Elizabeth Avenue, Linden	16	10	N/A	M	NJDEP
30b	Standard T Chemical Corp.	1312 W. Elizabeth Avenue, Linden	18	8	N/A	M	NJDEP
30c	Standard T Chemical Corp.	1312 W. Elizabeth Avenue, Linden	18.7	8.7	N/A	M	NJDEP
30d	Standard T Chemical Corp.	1312 W. Elizabeth Avenue, Linden	18	8	N/A	M	NJDEP
31a	SRS NJ	12 Sylvan Street, Linden	25	N/A	N/A	M	NJDEP
31b	SRS NJ	12 Slyvan Street, Linden	48	33	N/A	M	NJDEP
32a	Hydro Group	1250 W. Elizabeth Avenue, Linden	17	7	13	M	NJDEP
32b	Hydro Group	1250 W. Elizabeth Avenue, Linden	18	6	11.5	M	NJDEP
32c	Hydro Group	1250 W. Elizabeth Avenue, Linden	20	10	16	M	NJDEP
32d	Hydro Group	1250 W. Elizabeth Avenue, Linden	16	8	9	M	NJDEP
32e	Hydro Group	1250 W. Elizabeth Avenue, Linden	16	8	9	M	NJDEP
32f	Hydro Group	1250 W. Elizabeth Avenue, Linden	17	7	9	M	NJDEP
32g	Hydro Group	1250 W. Elizabeth Avenue, Linden	16	6	9	M	NJDEP
33a	Exxon Company, USA	1100 Rt. 1 and Stiles Street, Linden	16	1	N/A	M	NJDEP
33b	Exxon Company, USA	1100 Rt. 1 and Stiles Street, Linden	8	3	N/A	M	NJDEP
33c	Exxon Company, USA	1100 Rt. 1 and Stiles Street, Linden	10	2	N/A	M	NJDEP
33d	Exxon Company, USA	1100 Rt. 1 and Stiles Street, Linden	14	6	N/A	M	NJDEP
33e	Exxon Company, USA	1100 Rt. 1 and Stiles Street, Linden	10	1	N/A	M	NJDEP
33f	Exxon Company, USA	1100 Rt. 1 and Stiles Street, Linden	16	8	8	M	NJDEP
33g	Exxon Company, USA	1100 Rt. 1 and Stiles Street, Linden	13	2.5	5	M	NJDEP
33h	Exxon Company, USA	1100 Rt. 1 and Stiles Street, Linden	15	2.5	5	M	NJDEP
33i	Exxon Company, USA	1100 Rt. 1 and Stiles Street, Linden	15	2.5	5	M	NJDEP
34a	Safety Cleen Corporation	1200 Sylvan Street, Linden	14	4	8	M	NJDEP
34b	Safety Cleen Corporation	1200 Sylvan Street, Linden	8	3	6	M	NJDEP
34c	Safety Cleen Corporation	1200 Sylvan Street, Linden	8	3	6	M	NJDEP
34d	Safety Cleen Corporation	1200 Sylvan Street, Linden	8	3	6	M	NJDEP
34e	Safety Cleen Corporation	1200 Sylvan Street, Linden	8	3	6	M	NJDEP
34f	Safety Cleen Corporation	1200 Sylvan Street, Linden	45	35	12	M	NJDEP
35	Pacific Airmotive Corporation	Linden Airport, Linden	300	31	5	I	NJDEP AND SITE LIST CASES
36	MBS Partnership	1080 Edward Street, Linden	15	2	5	M	NJDEP

USE CODES

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TABLE

NJDEP WELL SEARCH - 1 MILE RADIUS SEARCH
GENERAL MOTORS CORPORATION
LINDEN, UNION COUNTY, NEW JERSEY
BELL PROJECT #EOG01-93089-02

Bell Environmental Consultants, Inc.

ID #	WELL OWNER	ADDRESS	TOTAL DEPTH (feet)	LENGTH OF CASING (feet)	STATIC WATER ELEVATION (feet)	USE CODE	SOURCE OF INFORMATION
37a	Therapedic Sleep Products	1701 US Rt. 1, Linden	13	2.5	3.4	M	NJDEP
37b	Therapedic Sleep Products	1701 US Rt. 1, Linden	14	1.5	3.4	M	NJDEP
37c	Therapedic Sleep Products	1701 US Rt. 1, Linden	15	1.5	3.4	M	NJDEP
37d	Therapedic Sleep Products	1701 US Rt. 1, Linden	20	6.5	8	M	NJDEP
37e	Therapedic Sleep Products	1701 US Rt. 1, Linden	20	6.5	8	M	NJDEP
37f	Therapedic Sleep Products	1701 US Rt. 1, Linden	20	6.5	8	M	NJDEP
38a	Solvents Recovery Service, NY	1200 Sylvan Street, Linden	23	3	9	M	NJDEP AND SITE LIST CASES
38b	Solvents Recovery Service, NY	1200 Sylvan Street, Linden	22.5	2.5	8	M	NJDEP AND SITE LIST CASES
39	Delta Knit Finishers	382 Cantor Avenue, Linden	359	41	50	I	NJDEP
40	Orange Plastics	315 Cantor Avenue, Linden	330	51' 9"	70-80	I(?)	NJDEP
41	Gulf/Chevron USA	St. Georges Street, Linden	12	2	N/A	M	NJDEP
42a	Sun Oil Company	St. Georges Street, Linden	18	3	12.16	M	NJDEP
42b	Sun Oil Company	St. Georges Street, Linden	15	1	12.92	M	NJDEP
42c	Sun Oil Company	St. Georges Street, Linden	12	1	11.65	M	NJDEP
42d	Sun Oil Company	St. Georges Street, Linden	15	1	12.51	M	NJDEP
43a	Hoescht Celanese Corporation	1401 W. Blancke Street, Linden	12	2	N/A	M	NJDEP SITE & LIST CASE
43b	Hoescht Celanese Corporation	1401 W. Blancke Street, Linden	13	3	N/A	M	NJDEP SITE & LIST CASE
43c	Hoescht Celanese Corporation	1401 W. Blancke Street, Linden	18	8	N/A	M	NJDEP SITE & LIST CASE
43d	Hoescht Celanese Corporation	1401 W. Blancke Street, Linden	15	5	N/A	M	NJDEP SITE & LIST CASE
43e	Hoescht Celanese Corporation	1401 W. Blancke Street, Linden	14	4	N/A	M	NJDEP SITE & LIST CASE
43f	Hoescht Celanese Corporation	1401 W. Blancke Street, Linden	20	5	N/A	I	NJDEP SITE & LIST CASE
43g	Hoescht Celanese Corporation	1401 W. Blancke Street, Linden	15	5	N/A	M	NJDEP SITE & LIST CASE
44	Apex Rendezvous, Inc.	1135 W. Elizabeth Avenue, Linden	440	50	25	D	NJDEP
45	Rheem Manufacturing Co.	1701 W. Edgar Road, Linden	15	3.5	N/A	M	NJDEP
46a	Seimens Energy & Automation	1600 Rt.1, Linden	30	20	6	M	NJDEP
46b	Seimens Energy & Automation	1600 Rt.1, Linden	45	20	6	M	NJDEP
46c	Seimens Energy & Automation	1600 Rt.1, Linden	30	20	6	M	NJDEP
47	Al Kalla	30 West Elm Street, Linden	245	40	10	D	NJDEP
48a	AGP/Gentec, Inc.	531 N. Stiles Street, Linden	15	7.5	8	M	NJDEP
48b	AGP/Gentec, Inc.	531 N. Stiles Street, Linden	14.6	4.5	6.5	M	NJDEP
48c	AGP/Gentec, Inc.	531 N. Stiles Street, Linden	15	5	8	M	NJDEP
48d	AGP/Gentec, Inc.	531 N. Stiles Street, Linden	15	5	8.7	M	NJDEP
48e	AGP/Gentec, Inc.	531 N. Stiles Street, Linden	15	5	10	M	NJDEP
48f	AGP/Gentec, Inc.	531 N. Stiles Street, Linden	15.5	5.5	11.2	M	NJDEP
48g	AGP/Gentec, Inc.	531 N. Stiles Street, Linden	14.6	6.8	12.55	M	NJDEP
49	Vincent Pezzuto	108 W. Elizabeth Street, Linden	225	50	30	D	NJDEP
50a	Levine, Bort	1701 W. Edgar Road, Linden	18	6	7.8	M	NJDEP
50b	Levine, Bort	1701 W. Edgar Road, Linden	16	6	6.6	M	NJDEP
50c	Levine, Bort	1701 W. Edgar Road, Linden	16	6	7	M	NJDEP
51a	Platronics, Inc.	301 Commerce Road, Linden	15	14	61"	M	NJDEP SITE & LIST CASE
51b	Platronics, Inc.	301 Commerce Road, Linden	15	14	52"	M	NJDEP SITE & LIST CASE
51c	Platronics, Inc.	301 Commerce Road, Linden	10	4' 9"	6' 3"	M	NJDEP SITE & LIST CASE
51d	Platronics, Inc.	301 Commerce Road, Linden	10	5	6' 9"	M	NJDEP SITE & LIST CASE
52	West Blancke Assoc.	1320 W. Blancke Street, Linden	15	5	8	M	NJDEP
53	Airline Foods Corporation	1130 W. Elizabeth Avenue, Linden	288	42	25	I	NJDEP
54	Cheny & Company	832 St. geprges Avenue, Linden	-	-	-	-	NJDEP SITE LIST CASE ONLY
55	SC Imports	400 Roselle Street, Linden	-	-	-	-	NJDEP SITE LIST CASE ONLY
56	Luongo Brothers Inc.	2 Rosselle Street, Linden	-	-	-	-	NJDEP SITE LIST CASE ONLY
57	American Cyanamid Landfill	Wood Avenue, Linden	-	-	-	-	NJDEP SITE LIST CASE ONLY
58	Solar Compounds Corporation	1201 W. Blanke Street, Linden	-	-	-	-	NJDEP SITE LIST CASE ONLY
59	D. Angelo Metal Products Co. Inc.	360 Dalziel Road, Linden	-	-	-	-	NJDEP SITE LIST CASE ONLY
60	Apex Plating and Polishing Co. Inc.	114 E. Price Street, Linden	-	-	-	-	NJDEP SITE LIST CASE ONLY
61	Hammer Manufactoring, Company, In	417 Commerce Road, Linden	-	-	-	-	NJDEP SITE LIST CASE ONLY
62	Linde Gases of the Mid-Atlantic	South Wood Avenue, Linden	-	-	-	-	NJDEP SITE LIST CASE ONLY
63	Mid Atlantic Container Corporation	1200 Blanke Sreet, Linden	-	-	-	-	NJDEP SITE LIST CASE ONLY

USE CODES

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GM GROUNDWATER CONTOUR INFORMATION AND ELEVATION DATA

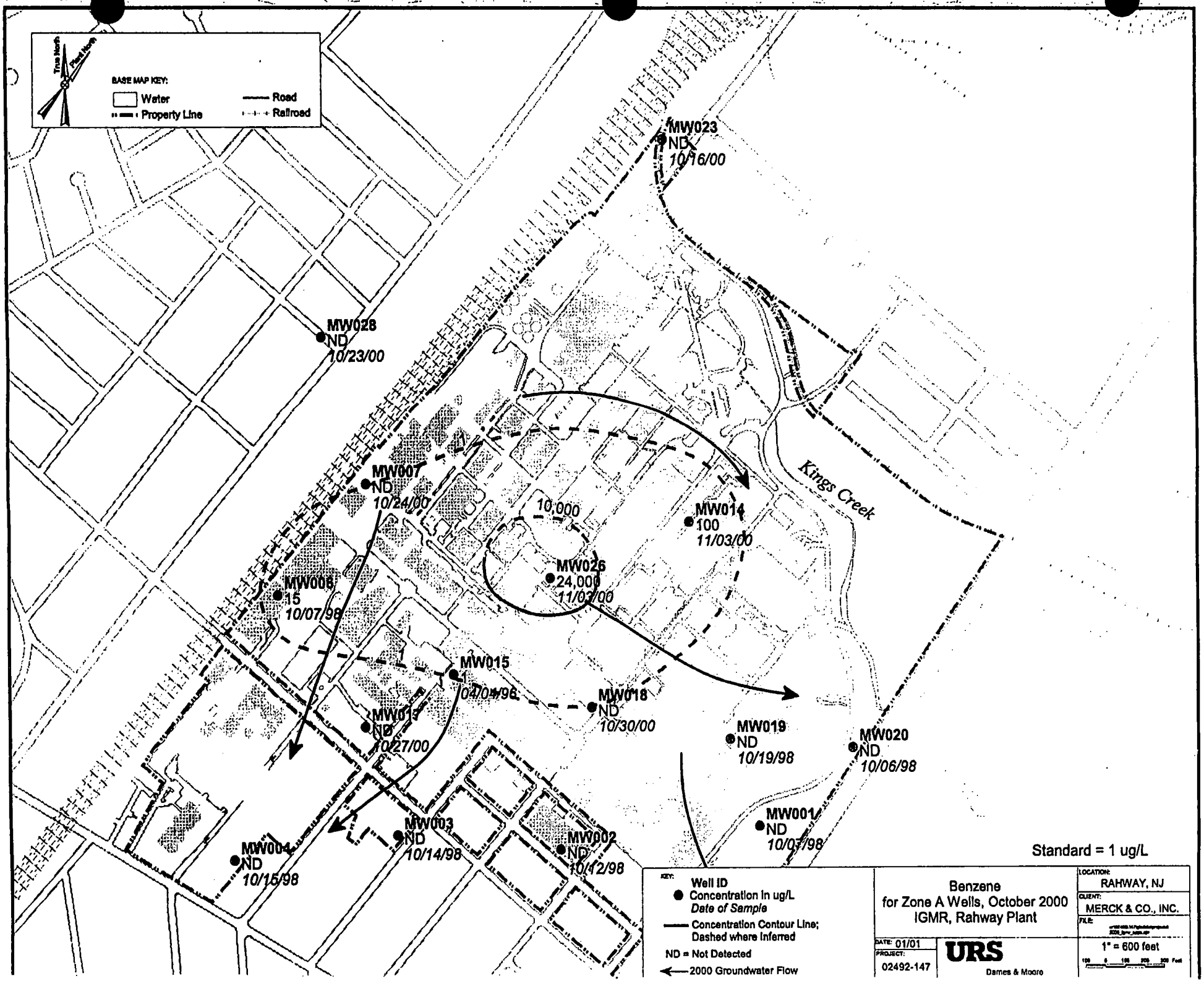
APPENDIX J

AUGUST 1995 GAUGING DATA				
Well Designation	**Well Permit Number**	**Depth to Water (ft)**	**Top of PVC Elevation (ft, MSL)**	**Groundwater Elevation (ft, MSL)**
BEC-1SR	26-40173	10.35	30.04	19.69
BEC-2S	26-164566	9.84	29.15	19.31
BEC-4S	26-164582	10.93	30.36	19.43
BEC-5S	26-164591	11.46	29.91	18.45
BEC-7S	26-183722	9.70	30.11	20.41
BEC-8S	26-183731	10.63	29.40	18.77
BEC-10S	26-230500	11.60	29.55	17.95
BEC-11S	26-230518	9.90	27.77	17.87
BEC-12S	26-230526	11.75	30.23	18.48
BEC-13S	26-230534	13.30	29.70	16.4
BEC-14S	26-401734	9.51	29.47	19.96
BEC-1D	26-183757	11.00	30.19	19.19
BEC-2D	26-183765	11.37	30.50	19.13
BEC-3D	26-230542	11.21	29.90	18.69
BEC-4D	26-23551	11.95	29.99	18.04
BEC-5D	26-41090	10.99	29.76	18.77
BEC-6D	26-41091	8.50	27.86	19.36
BEC-7D	26-41092	8.95	27.11	18.16
BEC-8D	26-41093	10.14	26.06	15.92
BEC-9D	26-41094	12.50	31.95	19.45
BEC-1B	26-41095	8.74	28.10	19.36
BEC-2B	26-41096	9.60	27.35	17.75
BEC-3B	26-41098	9.95	25.92	15.97
BEC-4B	26-4095	12.72	32.03	19.31

MARCH 1996 GAUGING DATA				
Well Designation	Well Permit Number	Depth to Water (ft, bgs)	Top of PVC Elevation (ft, MSL)	Groundwater Elevation (ft, MSL)
BEC-1SR	26-40173	9.30	30.04	21.47
BEC-2S	26-164566	9.86	29.15	19.29
BEC-3S	26-164574	11.03	30.54	19.51
BEC-4S	26-164582	10.66	30.36	19.70
BEC-5S	26-164591	9.93	29.91	19.98
BEC-6S	26-183714	9.37	28.81	19.44
BEC-7S	26-183722	9.51	30.11	20.27
BEC-8S	26-183731	10.01	29.40	19.34
BEC-9S	26-183749	11.03	29.23	18.20
BEC-10S	26-230500	10.84	29.55	18.72
BEC-11S	26-230518	8.98	27.77	18.79
BEC-12S	26-230526	10.16	30.23	20.07
BEC-13S	26-230534	12.27	29.70	17.43
BEC-14S	26-401734	9.26	29.47	20.21
BEC-1D	26-183757	10.56	30.19	19.63
BEC-2D	26-183765	10.96	30.50	19.54
BEC-3D	26-230542	10.75	29.90	19.15
BEC-4D	26-23551	12.46	29.99	17.50
BEC-5D	26-41090	10.66	29.76	19.10
BEC-6D	26-41091	8.09	27.86	19.77
BEC-7D	26-41092	8.72	27.11	18.39
BEC-8D	26-41093	9.53	26.06	16.53
BEC-9D	26-41094	12.13	31.95	19.82
BEC-1B	26-41095	8.35	28.10	19.75
BEC-2B	26-41096	8.84	27.35	18.51
BEC-3B	26-41098	9.34	25.92	16.58
BEC-4B	26-4095	12.22	32.03	19.81

MERCK ISOPLETH MAPS

APPENDIX K


True North
Plant North
BASE MAP KEY:
Water
Property Line
Road
Railroad
MW023
ND
10/16/00
MW028
ND
10/23/00
MW007
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10/24/00
10,000
MW014
100
11/03/00
Kings Creek
MW026
24,000
11/03/00
MW006
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MW015
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MW017
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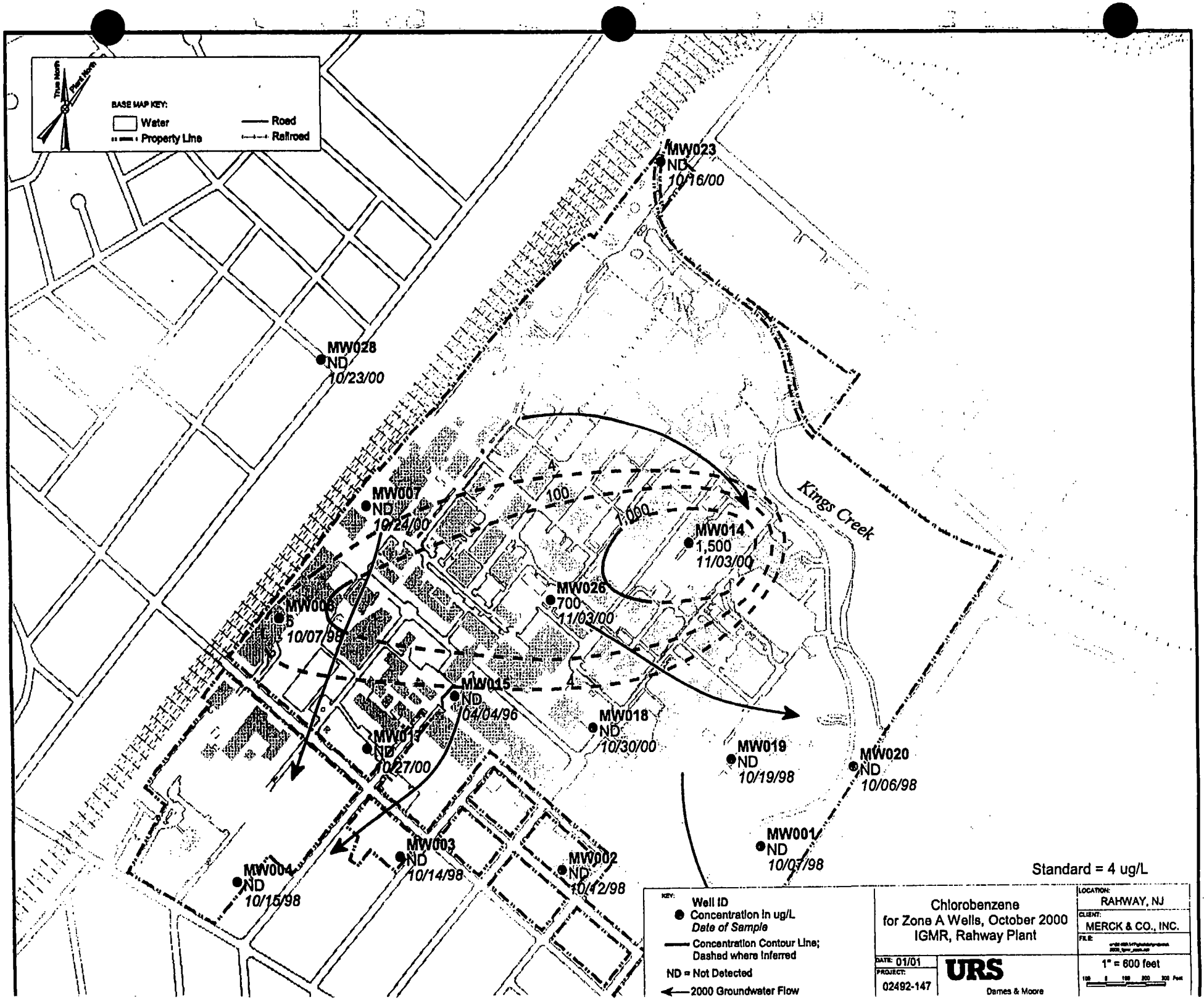
MW001
ND
10/07/98
MW003
ND
10/14/98
MW002
ND
10/12/98
MW004
ND
10/15/98
Standard = 1 ug/L
KEY:
Well ID
Concentration in ug/L
Date of Sample
Concentration Contour Line; Dashed where Inferred
ND = Not Detected
2000 Groundwater Flow
Benzene
for Zone A Wells, October 2000
IGMR, Rahway Plant
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
FILE:
DATE: 01/01
PROJECT: 02492-147
URS
Dames & Moore
1" = 600 feet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Water
Property Line
Road
Railroad
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ND
10/16/00
MW028
ND
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MW007
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MW018
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MW001
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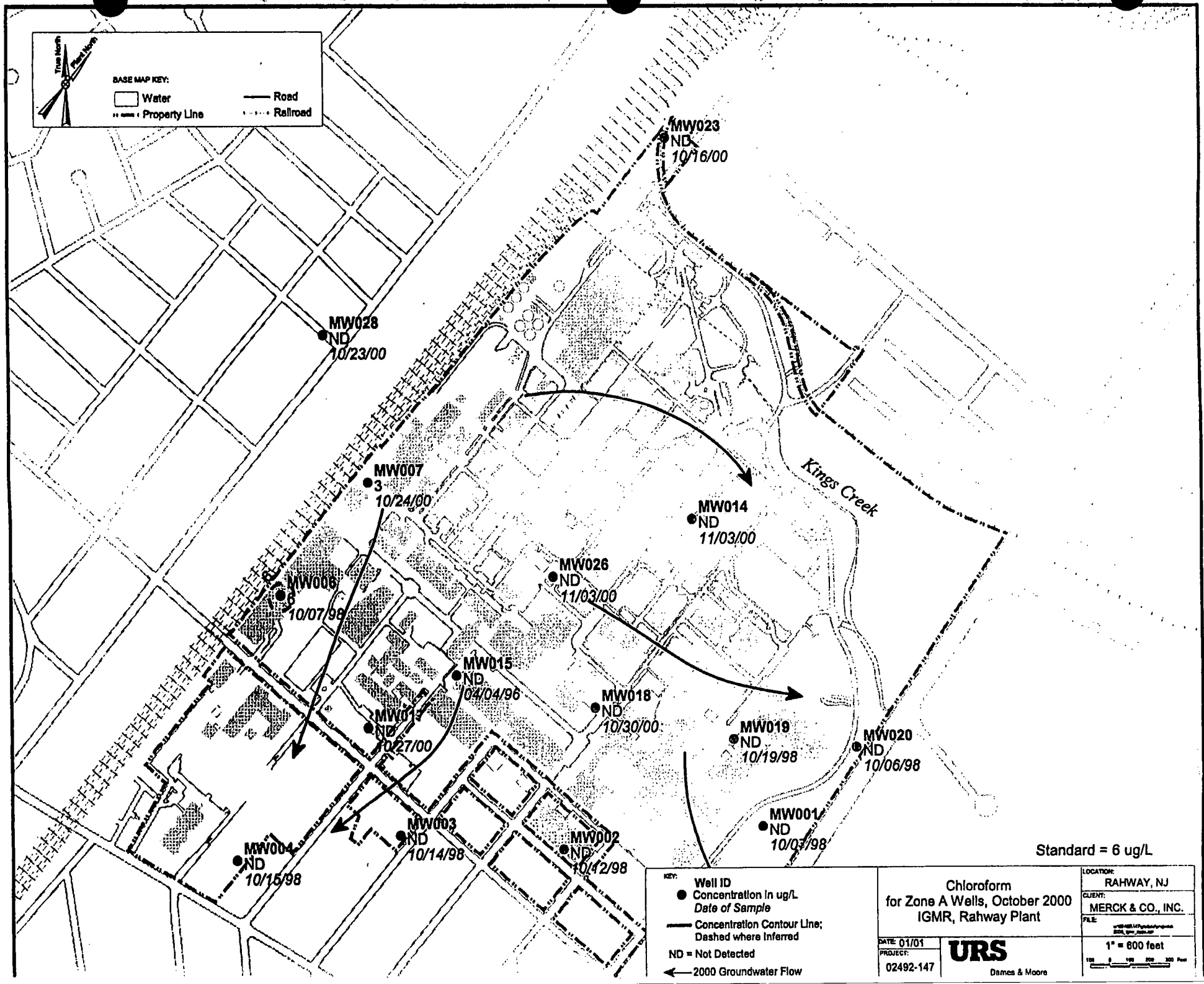
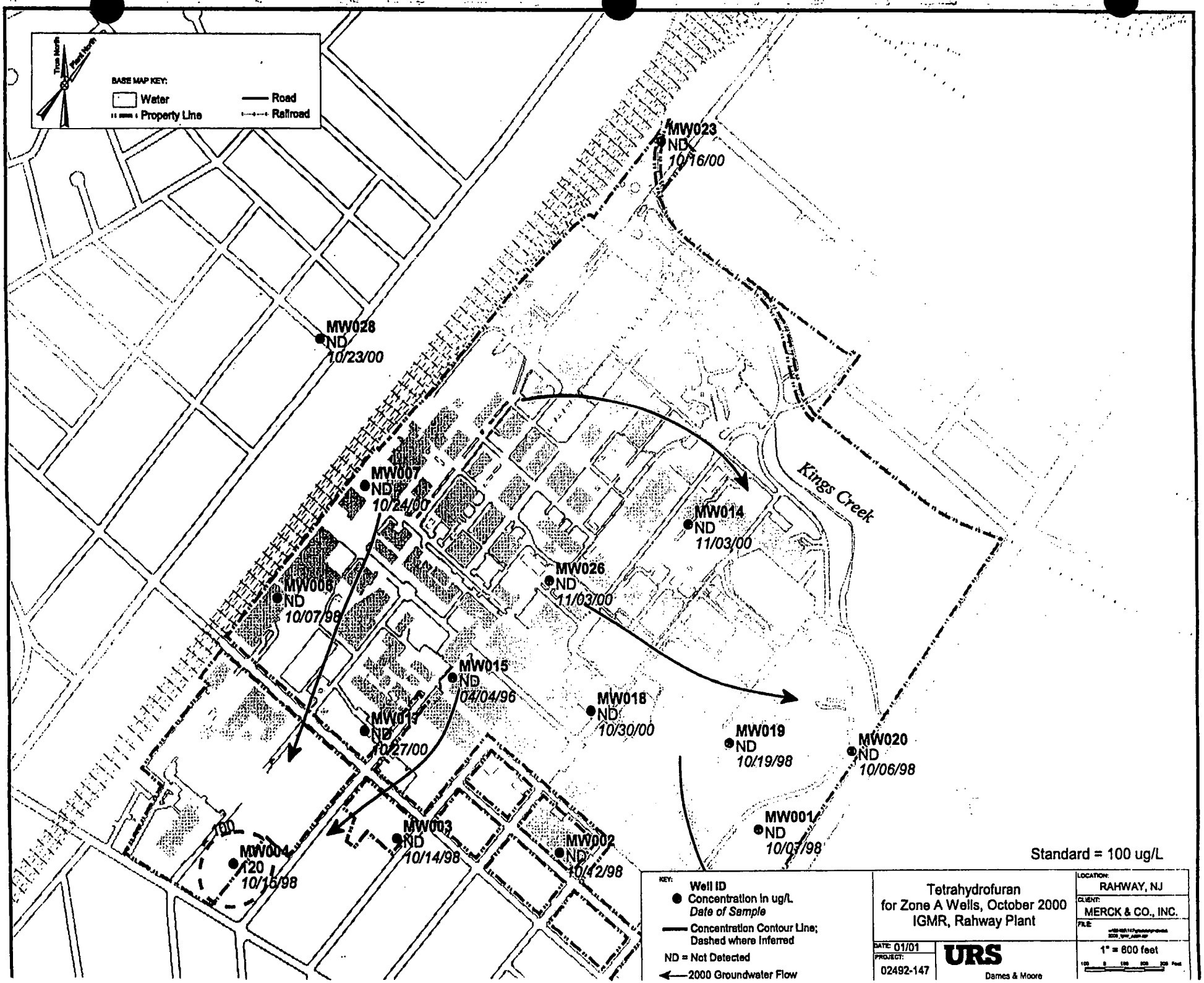
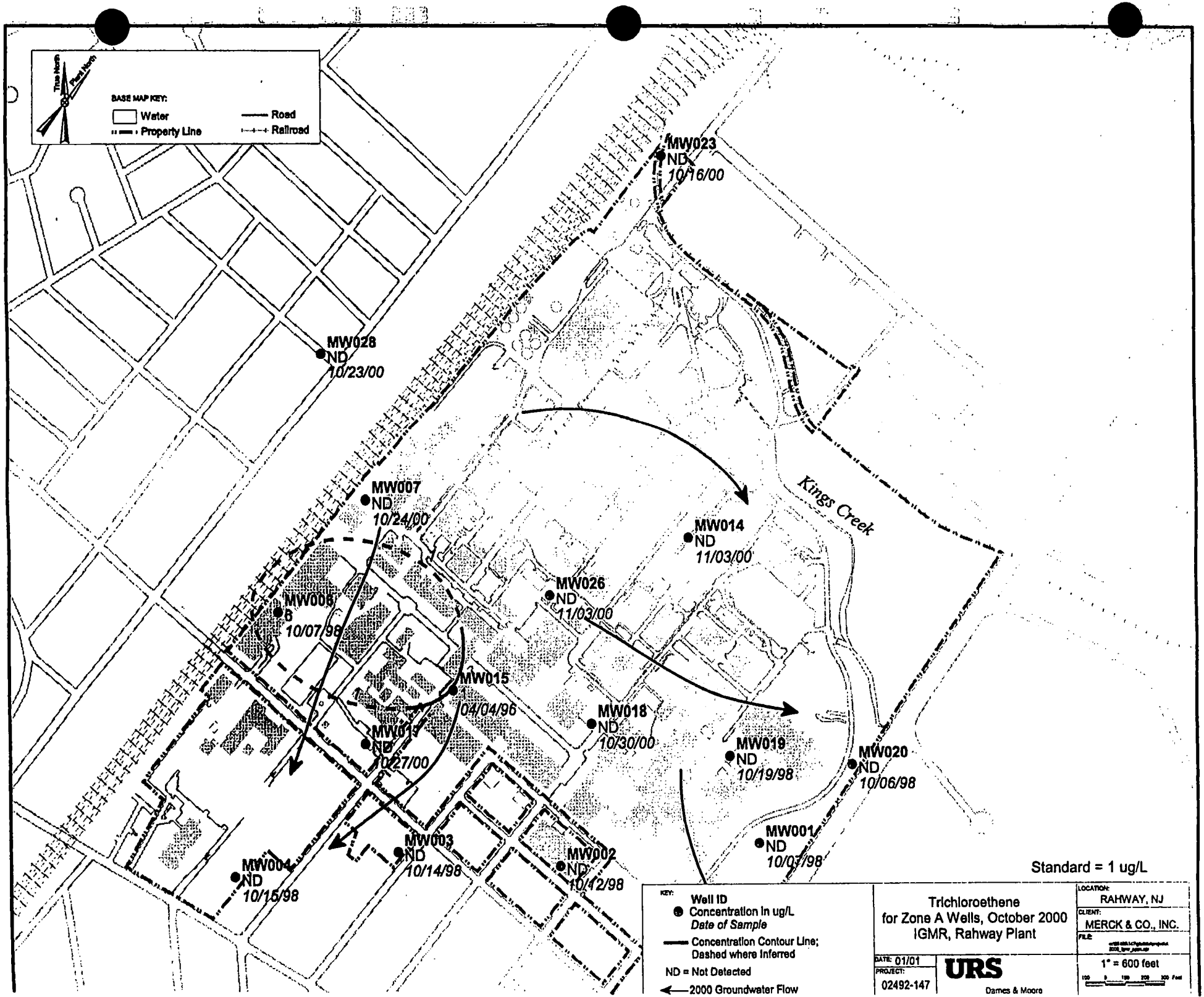
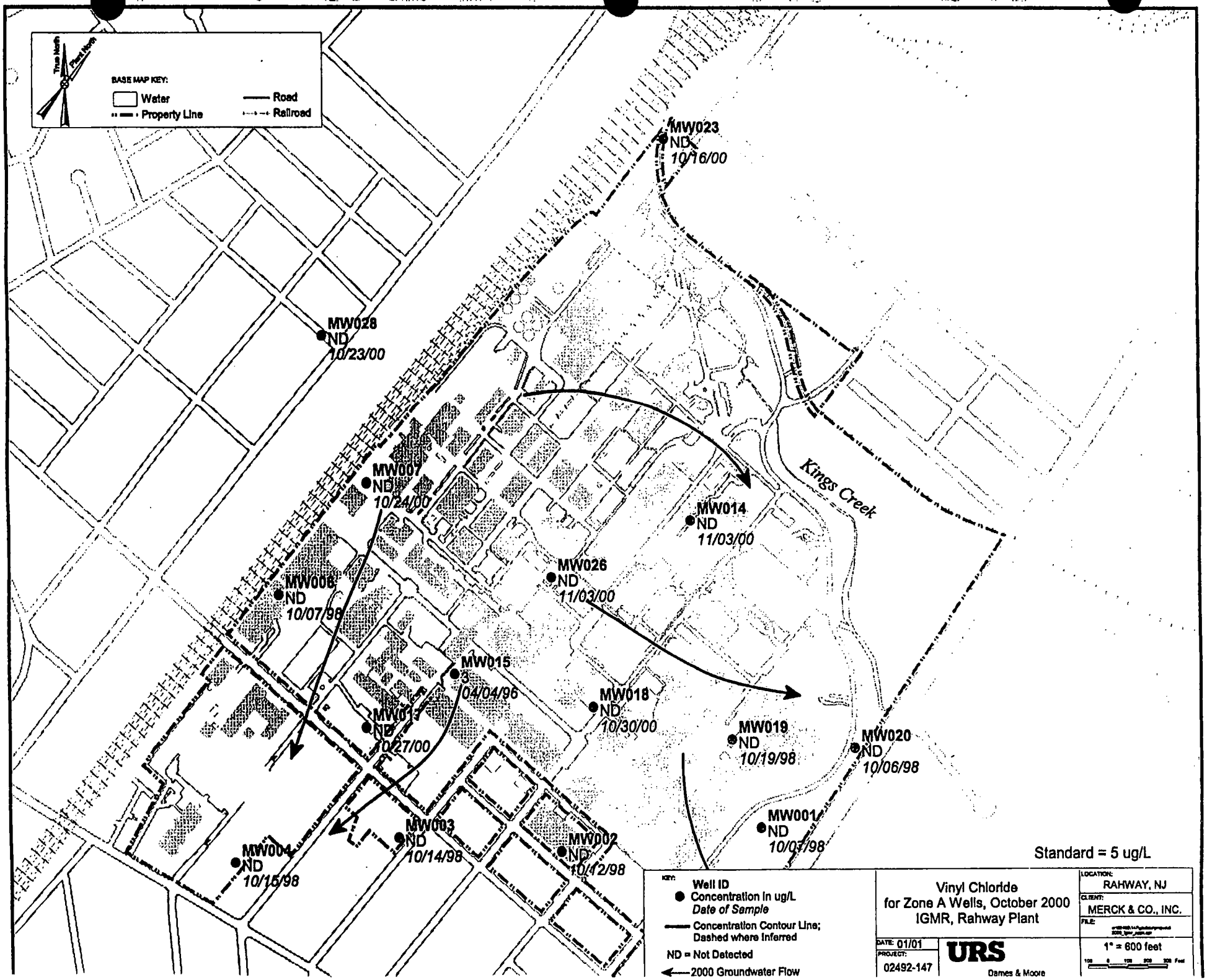
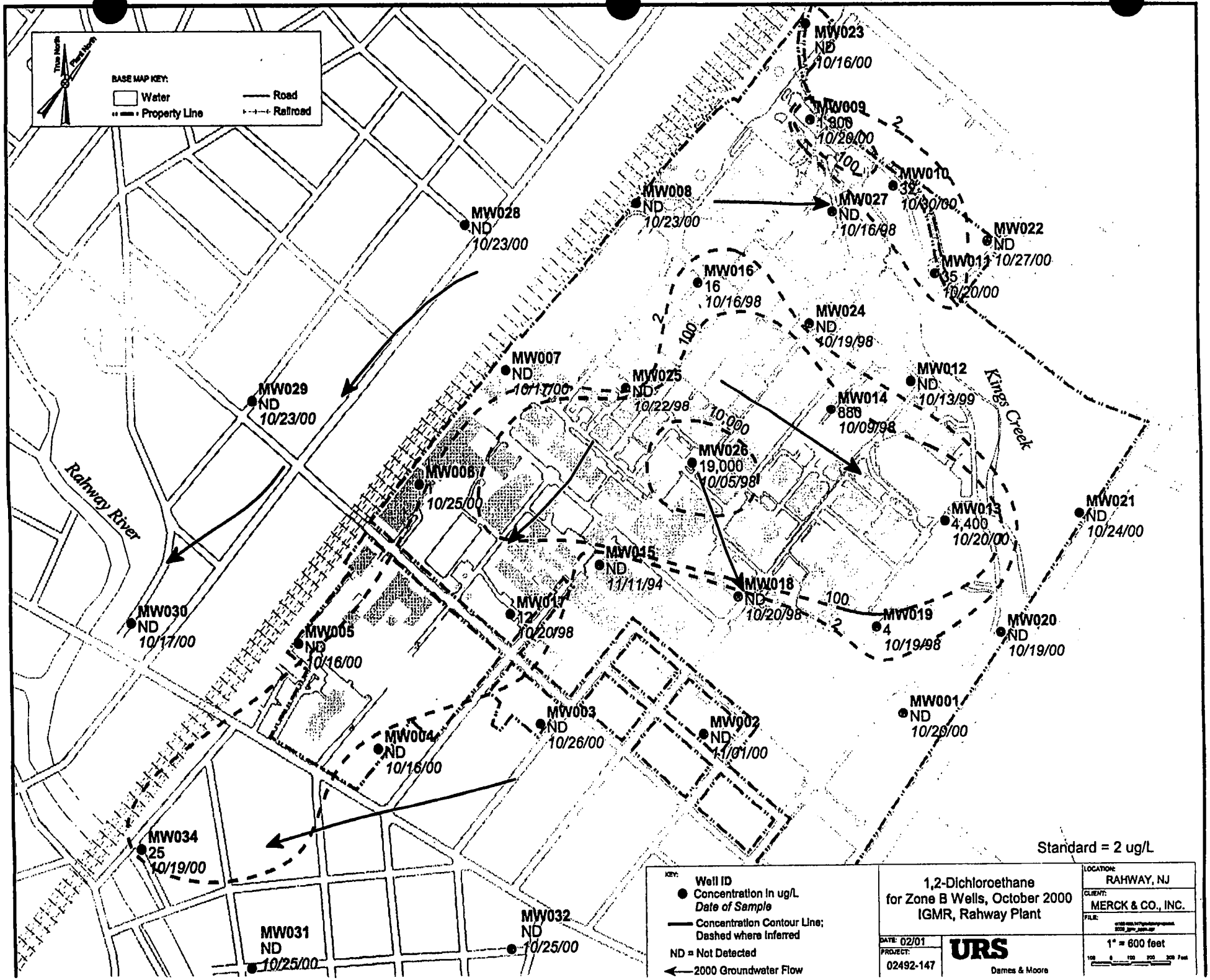
10/07/98
MW003
ND
10/14/98
MW002
ND
10/12/98
MW004
ND
10/15/98
100
1,000
4
Kings Creek
Standard = 4 ug/L
KEY:
Well ID
Concentration in ug/L
Date of Sample
Concentration Contour Line; Dashed where Inferred
ND = Not Detected
2000 Groundwater Flow
Chlorobenzene
for Zone A Wells, October 2000
IGMR, Rahway Plant
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
DATE: 01/01
PROJECT: 02492-147
URS
Dames & Moore
1" = 600 feet

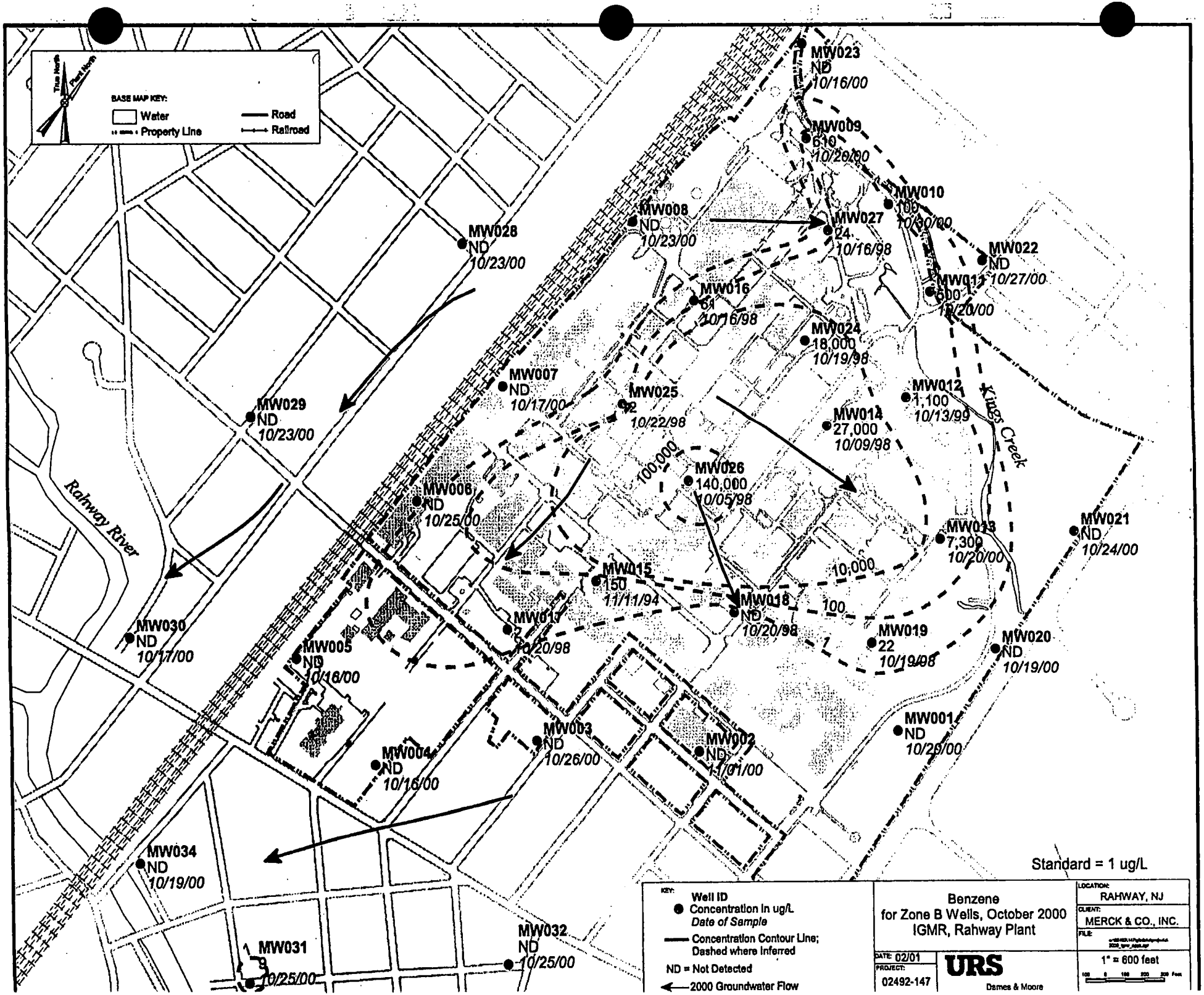

True North
Field North
BASE MAP KEY:
Water
Road
Property Line
Railroad
MW023
ND
10/16/00
MW028
ND
10/23/00
MW007
3
10/24/00
Kings Creek
MW014
ND
11/03/00
MW026
ND
11/03/00
MW006
6
10/07/98
MW015
ND
04/04/96
MW018
ND
10/30/00
MW019
ND
10/19/98
MW020
ND
10/06/98
MW017
ND
10/27/00
MW001
ND
10/07/98
MW003
ND
10/14/98
MW002
ND
10/12/98
MW004
ND
10/15/98
Standard = 6 ug/L
KEY:
Well ID
Concentration in ug/L
Date of Sample
Concentration Contour Line; Dashed where Inferred
ND = Not Detected
2000 Groundwater Flow
Chloroform
for Zone A Wells, October 2000
IGMR, Rahway Plant
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
FILE:
DATE: 01/01
PROJECT: 02492-147
URS
Dames & Moore
1" = 600 feet

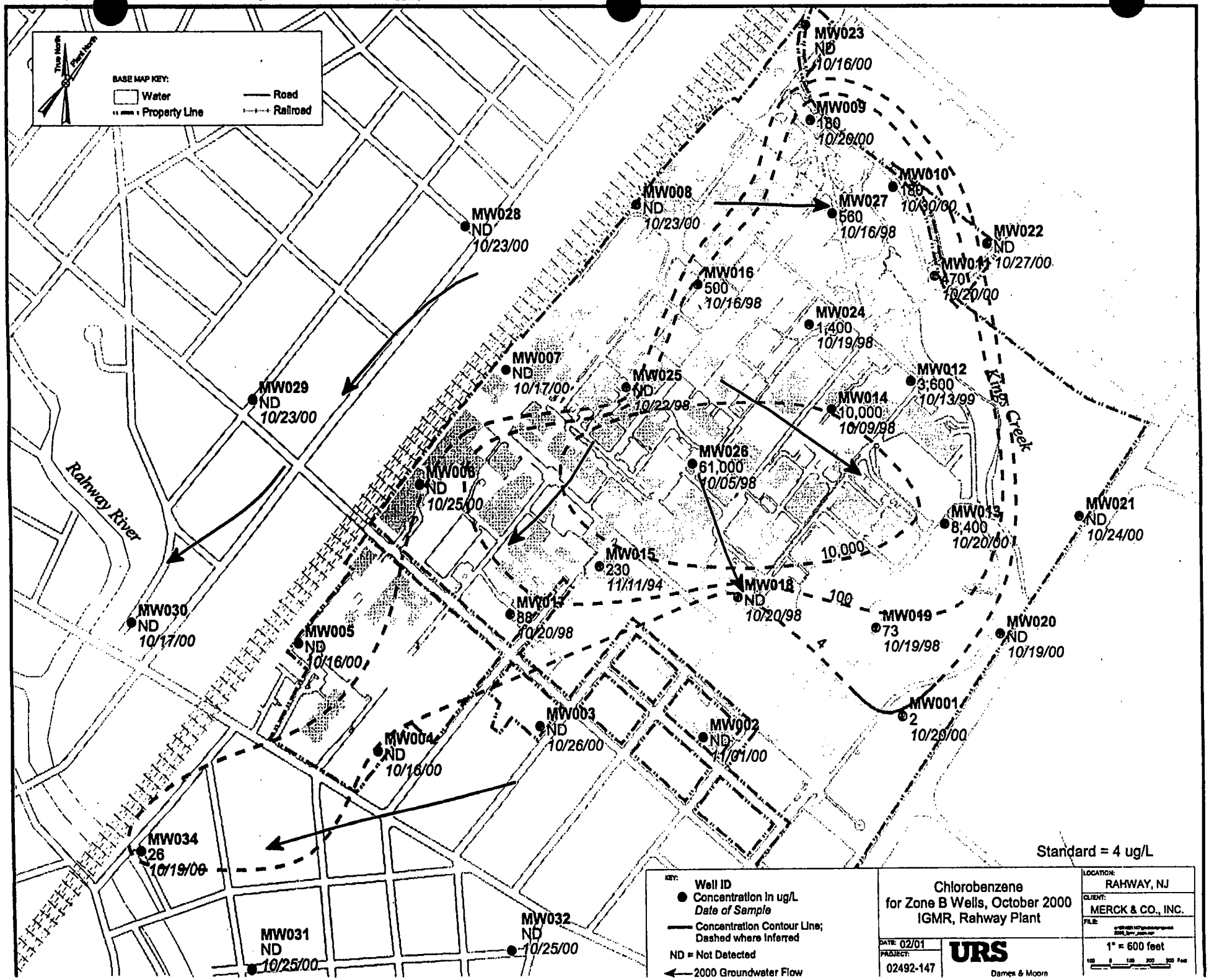

True North
Grid North
BASE MAP KEY:
Water
Property Line
Road
Railroad
MW023
ND
10/16/00
MW028
ND
10/23/00
MW007
ND
10/24/00
MW014
ND
11/03/00
Kings Creek
MW026
ND
11/03/00
MW006
ND
10/07/98
MW015
ND
04/04/96
MW018
ND
10/30/00
MW019
ND
10/19/98
MW020
ND
10/06/98
MW011
ND
10/27/00
MW001
ND
10/07/98
MW003
ND
10/14/98
MW002
ND
10/12/98
MW004
120
10/15/98
100
Standard = 100 ug/L
KEY:
Well ID
Concentration in ug/L
Date of Sample
Concentration Contour Line; Dashed where Inferred
ND = Not Detected
2000 Groundwater Flow
Tetrahydrofuran
for Zone A Wells, October 2000
IGMR, Rahway Plant
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
DATE: 01/01
PROJECT: 02492-147
URS
Dames & Moore
1" = 600 feet

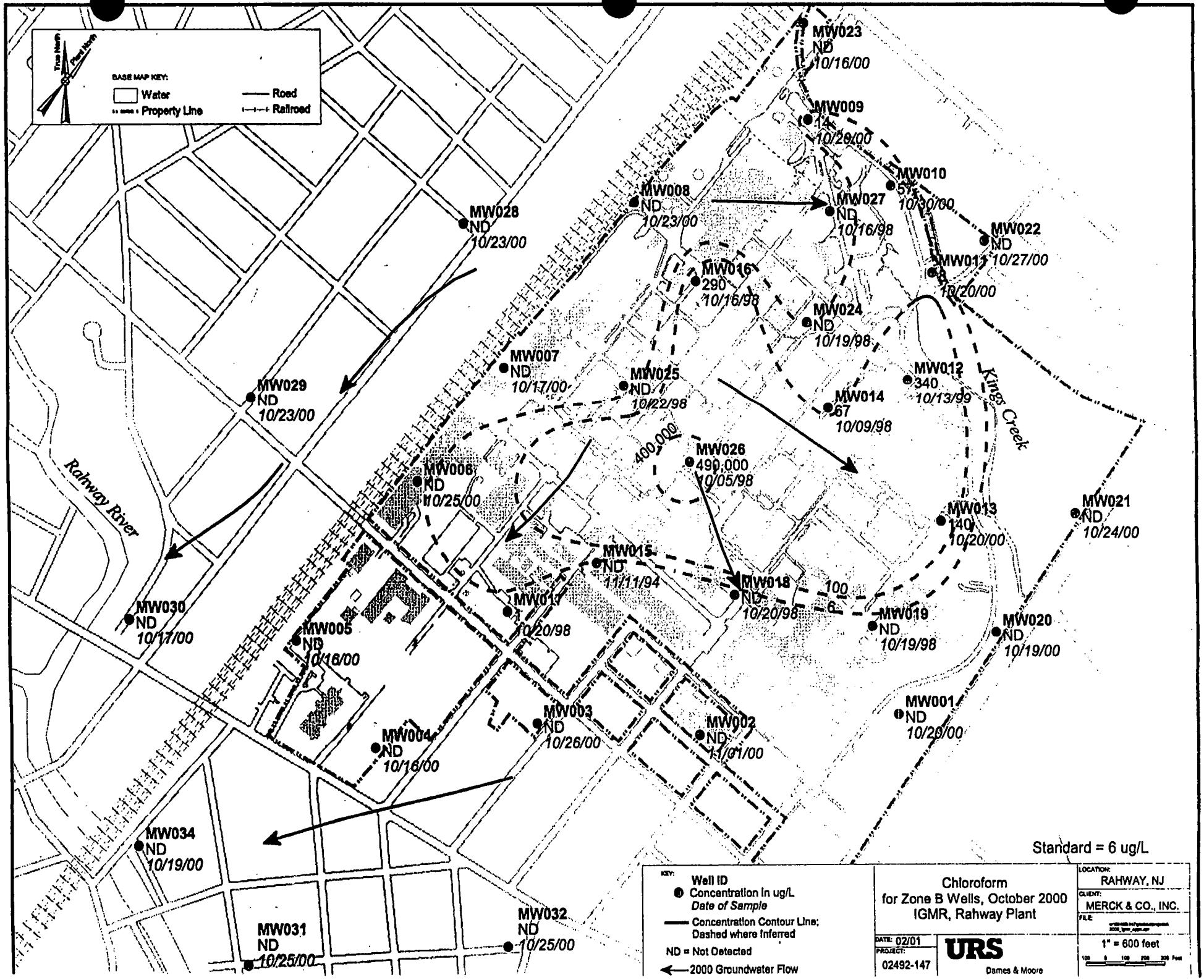

True North
Plant North
BASE MAP KEY:
Water
Property Line
Road
Railroad
MW023
ND
10/16/00
MW028
ND
10/23/00
MW007
ND
10/24/00
Kings Creek
MW014
ND
11/03/00
MW026
ND
11/03/00
MW006
6
10/07/98
MW015
04/04/96
MW018
ND
10/30/00
MW013
ND
10/27/00
MW019
ND
10/19/98
MW020
ND
10/06/98
MW001
ND
10/07/98
MW003
ND
10/14/98
MW002
ND
10/12/98
MW004
ND
10/15/98
Standard = 1 ug/L
KEY:
Well ID
Concentration in ug/L
Date of Sample
Concentration Contour Line; Dashed where Inferred
ND = Not Detected
2000 Groundwater Flow
Trichloroethene
for Zone A Wells, October 2000
IGMR, Rahway Plant
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
FILE:
DATE: 01/01
PROJECT: 02492-147
URS
Dames & Moore
1" = 600 feet

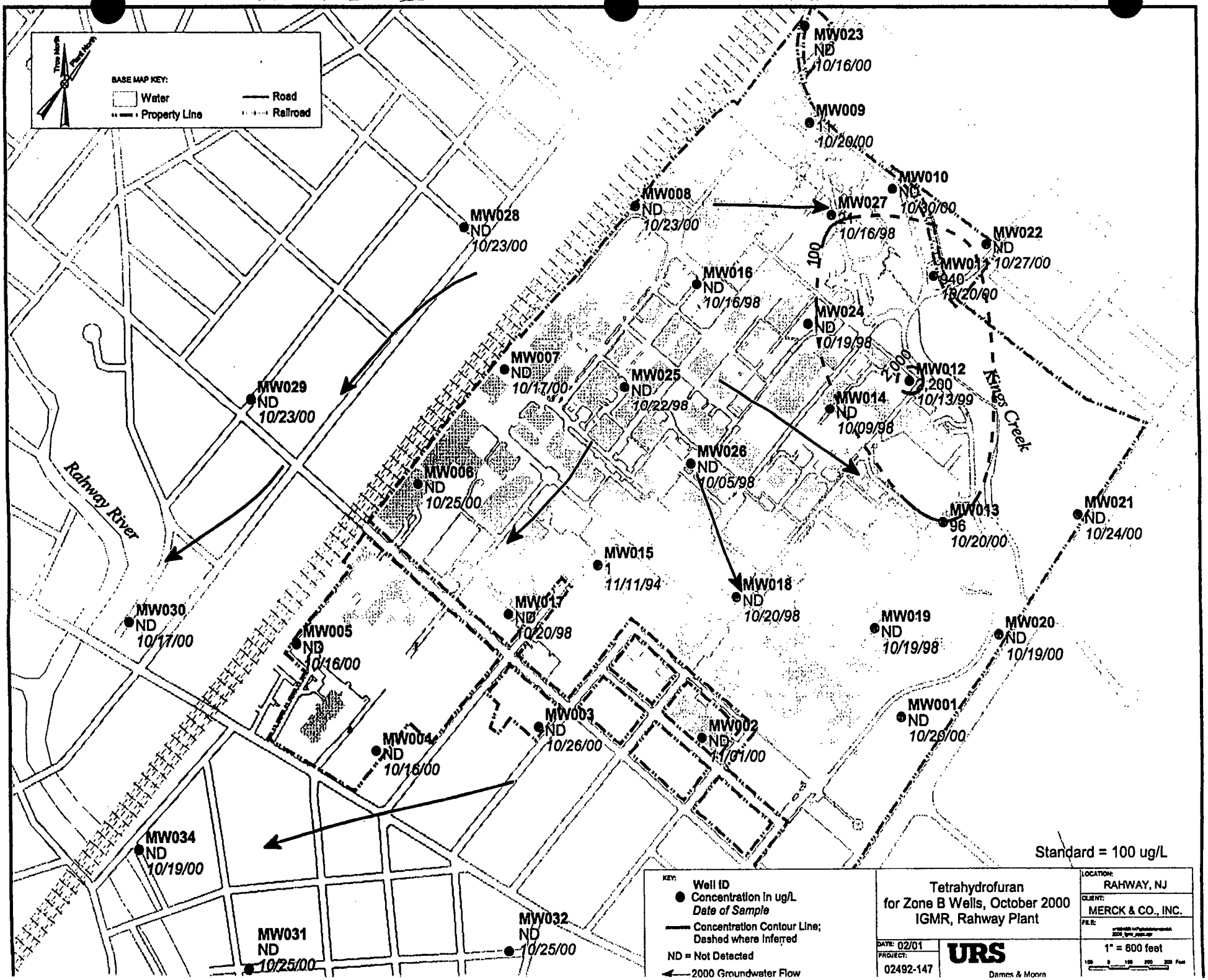

True North
Plant North
BASE MAP KEY:
Water
Property Line
Road
Railroad
MW023
ND
10/16/00
MW028
ND
10/23/00
MW007
ND
10/24/00
MW014
ND
11/03/00
Kings Creek
MW026
ND
11/03/00
MW006
ND
10/07/98
MW015
3
04/04/96
MW018
ND
10/30/00
MW017
ND
0/27/00
MW019
ND
10/19/98
MW020
ND
10/06/98
MW001
ND
10/07/98
MW003
ND
10/14/98
MW002
ND
10/12/98
MW004
ND
10/15/98
Standard = 5 ug/L
KEY:
Well ID
Concentration in ug/L
Date of Sample
Concentration Contour Line; Dashed where Inferred
ND = Not Detected
2000 Groundwater Flow
Vinyl Chloride
for Zone A Wells, October 2000
IGMR, Rahway Plant
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
FILE:
DATE: 01/01
PROJECT: 02492-147
URS
Dames & Moore
1" = 600 feet


True North
Field North
BASE MAP KEY:
Water
Property Line
Road
Railroad
MW023 ND 10/16/00
MW009 1,800 10/20/00
MW010 32 10/30/00
MW027 ND 10/16/98
MW022 ND 10/27/00
MW011 35 10/20/00
MW008 ND 10/23/00
MW028 ND 10/23/00
MW016 16 10/16/98
MW024 ND 10/19/98
MW007 ND 10/17/00
MW025 ND 10/22/98
MW012 ND 10/13/99
MW014 880 10/09/98
MW029 ND 10/23/00
MW026 19,000 10/05/98
MW006 10/25/00
MW013 4,400 10/20/00
MW021 ND 10/24/00
MW015 ND 11/11/94
MW018 ND 10/20/98
MW030 ND 10/17/00
MW017 12 10/20/98
MW019 4 10/19/98
MW020 ND 10/19/00
MW005 ND 10/16/00
MW001 ND 10/26/00
MW003 ND 10/26/00
MW002 ND 11/01/00
MW004 ND 10/16/00
MW034 25 10/19/00
MW031 ND 10/25/00
MW032 ND 10/25/00
Rahway River
Kings Creek
100
10,000
2
Standard = 2 ug/L
KEY:
Well ID
Concentration in ug/L
Date of Sample
Concentration Contour Line; Dashed where Inferred
ND = Not Detected
2000 Groundwater Flow
1,2-Dichloroethane
for Zone B Wells, October 2000
IGMR, Rahway Plant
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
FILE:
DATE: 02/01
PROJECT: 02492-147
URS
Dames & Moore
1" = 600 feet

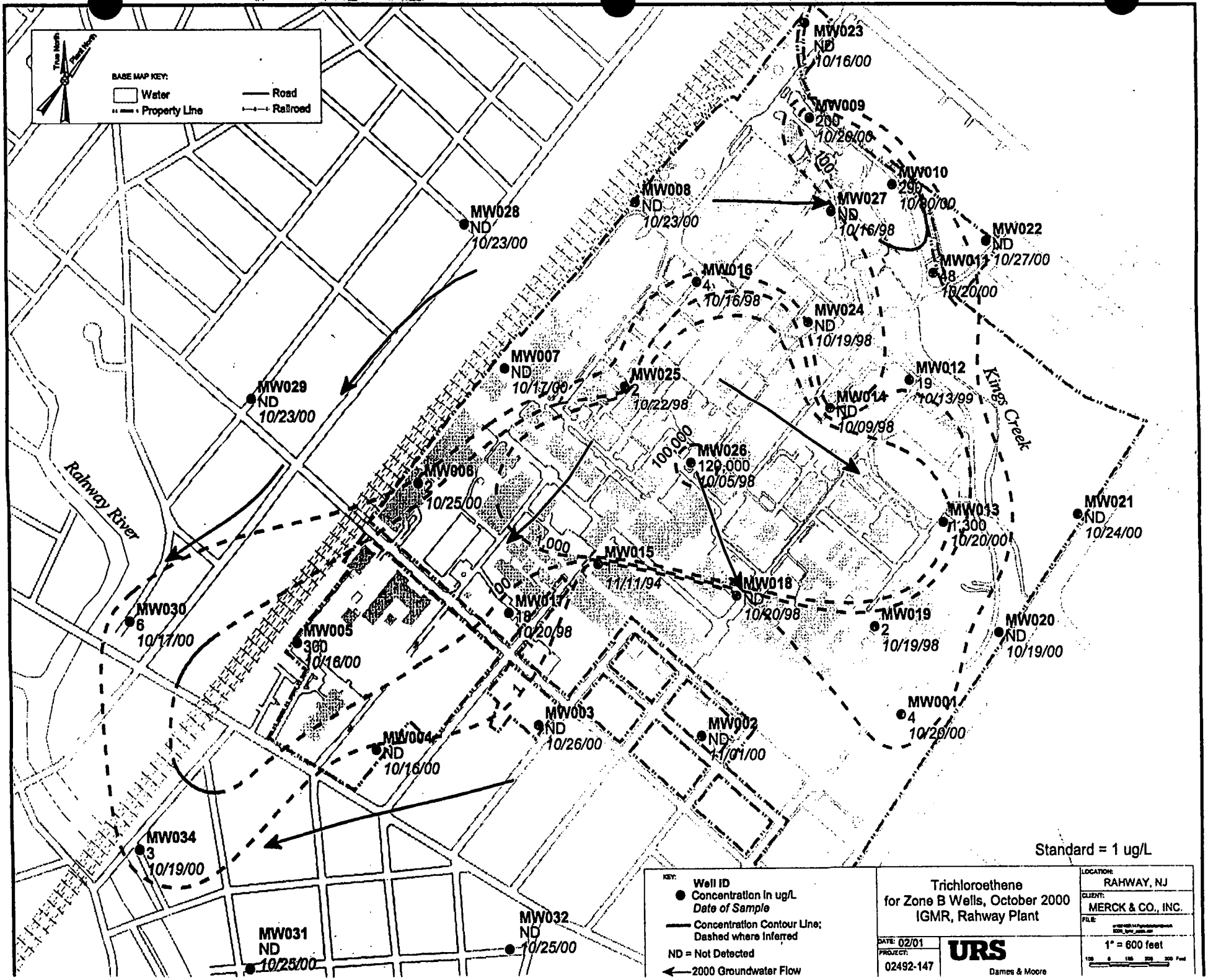

True North
Plant North
BASE MAP KEY:
Water
Property Line
Road
Railroad
MW023 ND 10/16/00
MW009 610 10/20/00
MW010 100 10/20/00
MW008 ND 10/23/00
MW027 24 10/16/98
MW028 ND 10/23/00
MW022 ND 10/27/00
MW011 600 10/20/00
MW016 61 10/16/98
MW024 18,000 10/19/98
MW007 ND 10/17/00
MW025 2 10/22/98
MW012 1,100 10/13/99
MW029 ND 10/23/00
MW014 27,000 10/09/98
Kings Creek
100,000
MW026 140,000 10/05/98
Rahway River
MW006 ND 10/25/00
MW013 7,300 10/20/00
MW021 ND 10/24/00
10,000
MW015 150 11/11/94
MW018 ND 10/20/98
100
MW030 ND 10/17/00
MW017 2 10/20/98
MW019 22 10/19/98
MW020 ND 10/19/00
MW005 ND 10/16/00
MW001 ND 10/20/00
MW003 ND 10/26/00
MW002 ND 10/20/00
MW004 ND 10/16/00
MW034 ND 10/19/00
Standard = 1 ug/L
MW032 ND 10/25/00
MW031 10/25/00
KEY:
Well ID
Concentration in ug/L
Date of Sample
Concentration Contour Line; Dashed where Inferred
ND = Not Detected
2000 Groundwater Flow
Benzene
for Zone B Wells, October 2000
IGMR, Rahway Plant
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
FILE:
DATE: 02/01
PROJECT: 02492-147
URS
Dames & Moore
1" = 600 feet

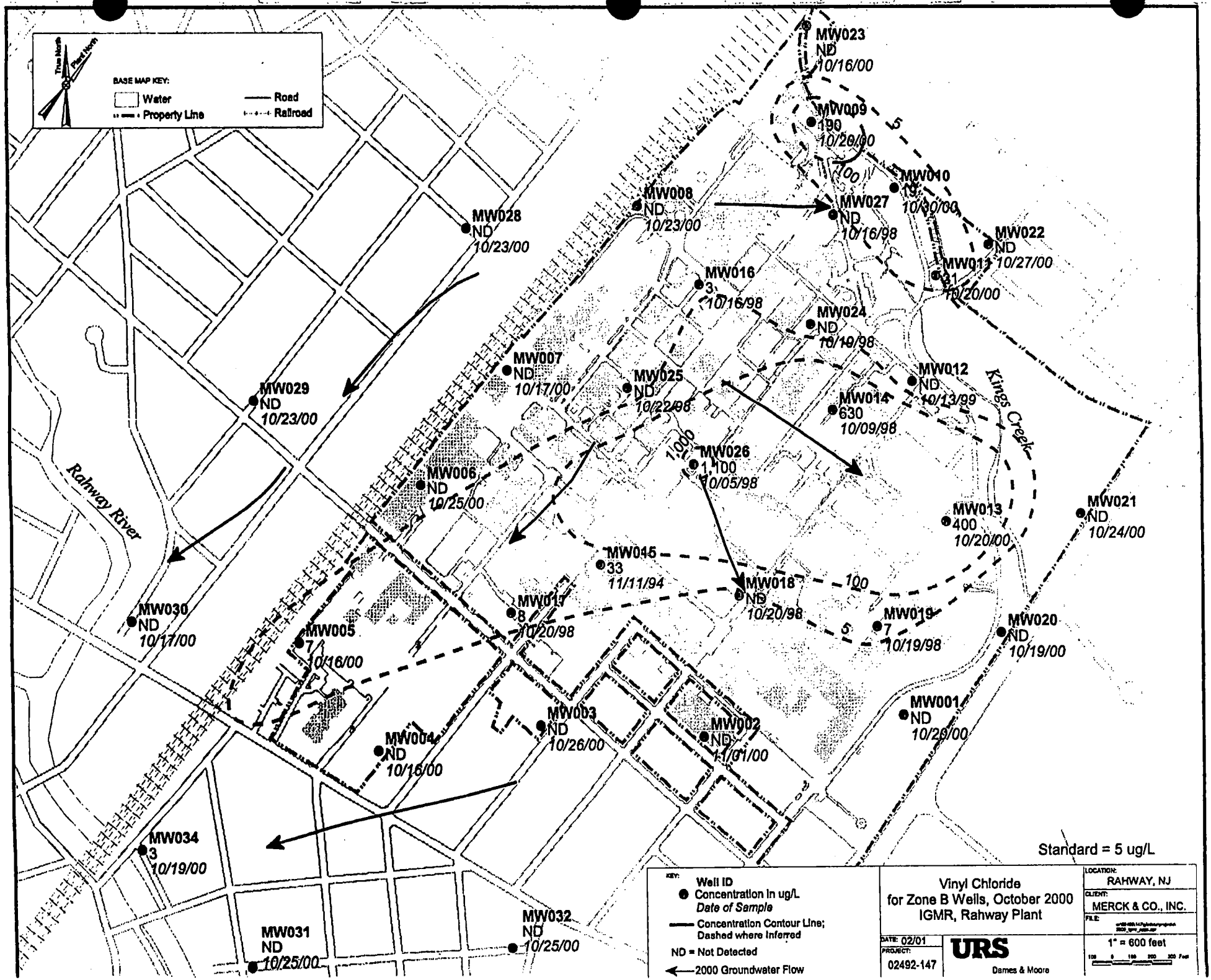

True North
Plant North
BASE MAP KEY:
Water
Property Line
Road
Railroad
MW023 ND 10/16/00
MW009 180 10/26/00
MW010 180 10/30/00
MW008 ND 10/23/00
MW027 560 10/16/98
MW028 ND 10/23/00
MW022 ND 10/27/00
MW011 470 10/20/00
MW016 500 10/16/98
MW024 1,400 10/19/98
MW007 ND 10/17/00
MW025 ND 10/22/98
MW012 3,600 10/13/99
MW029 ND 10/23/00
MW014 10,000 10/09/98
Rahway River
MW026 61,000 10/05/98
MW006 ND 10/25/00
MW013 8,400 10/20/00
MW021 ND 10/24/00
MW015 230 11/11/94
10,000
MW018 ND 10/20/98
100
MW030 ND 10/17/00
MW017 88 10/20/98
MW049 73 10/19/98
MW020 ND 10/19/00
MW005 ND 10/16/00
MW001 2 10/20/00
MW003 ND 10/26/00
MW002 ND 11/01/00
MW004 ND 10/16/00
MW034 26 10/19/00
MW031 ND 10/25/00
MW032 ND 10/25/00
Standard = 4 ug/L
KEY:
Well ID
Concentration in ug/L
Date of Sample
Concentration Contour Line; Dashed where Inferred
ND = Not Detected
2000 Groundwater Flow
Chlorobenzene
for Zone B Wells, October 2000
IGMR, Rahway Plant
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
FILE:
DATE: 02/01
PROJECT: 02492-147
URS
Dames & Moore
1" = 600 feet

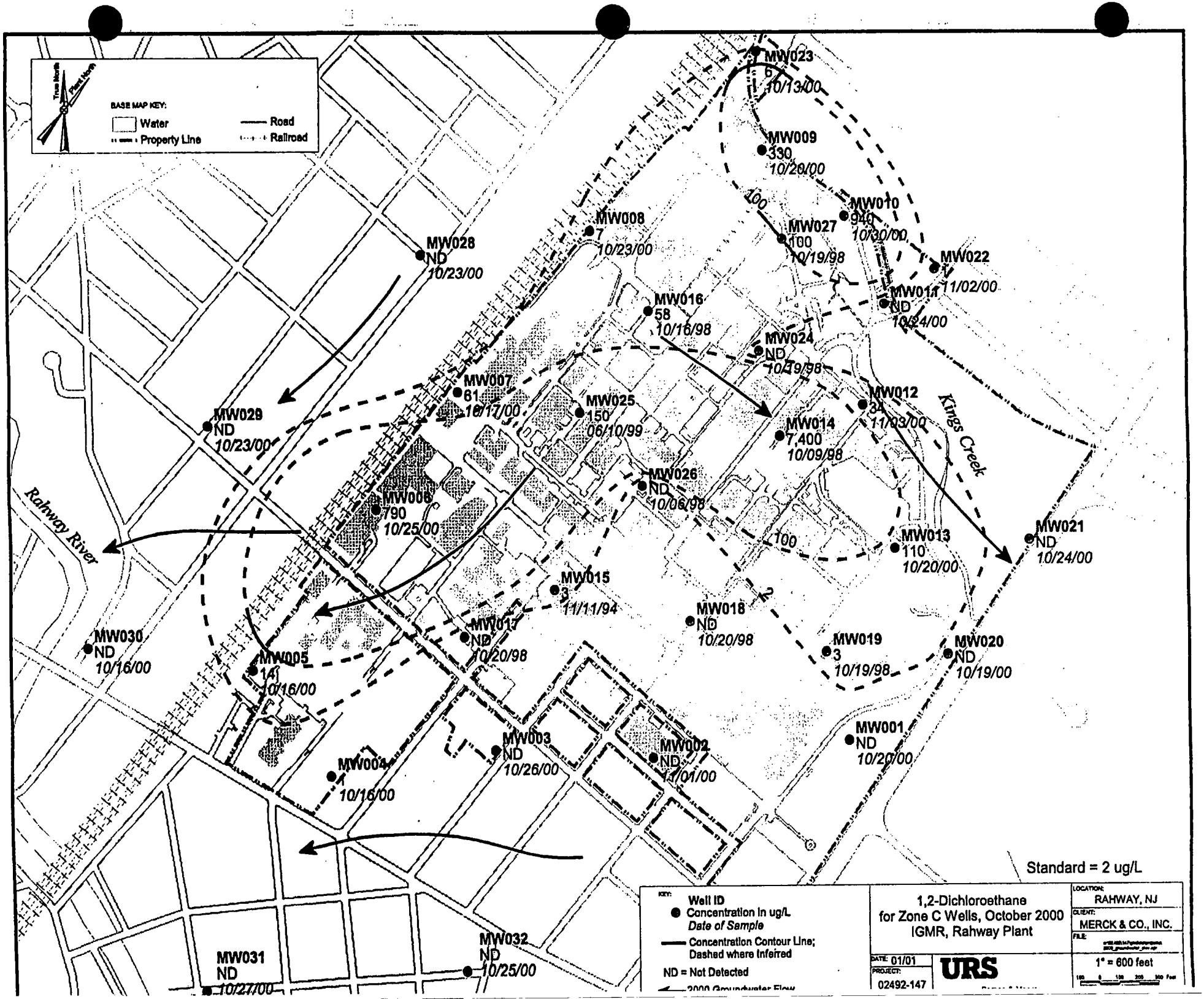

BASE MAP KEY:
Water
Property Line
Road
Railroad
True North
Grid North
MW023 ND 10/16/00
MW009 14 10/20/00
MW010 57 10/30/00
MW008 ND 10/23/00
MW027 ND 10/16/98
MW022 ND 10/27/00
MW028 ND 10/23/00
MW016 290 10/16/98
MW011 8 10/20/00
MW024 ND 10/19/98
MW007 ND 10/17/00
MW025 ND 10/22/98
MW012 340 10/13/99
MW029 ND 10/23/00
MW014 67 10/09/98
Kings Creek
400,000
MW026 490,000 10/05/98
MW006 ND 10/25/00
Rahway River
MW013 140 10/20/00
MW021 ND 10/24/00
MW015 ND 11/11/94
MW018 ND 10/20/98
100
6
MW030 ND 10/17/00
MW017 1 10/20/98
MW019 ND 10/19/98
MW020 ND 10/19/00
MW005 ND 10/16/00
MW001 ND 10/20/00
MW003 ND 10/26/00
MW004 ND 10/16/00
MW002 ND 11/01/00
MW034 ND 10/19/00
MW031 ND 10/25/00
MW032 ND 10/25/00
Standard = 6 ug/L
KEY:
Well ID
Concentration in ug/L
Date of Sample
Concentration Contour Line; Dashed where Inferred
ND = Not Detected
2000 Groundwater Flow
Chloroform
for Zone B Wells, October 2000
IGMR, Rahway Plant
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
FILE:
DATE: 02/01
PROJECT: 02492-147
URS
Dames & Moore
1" = 600 feet

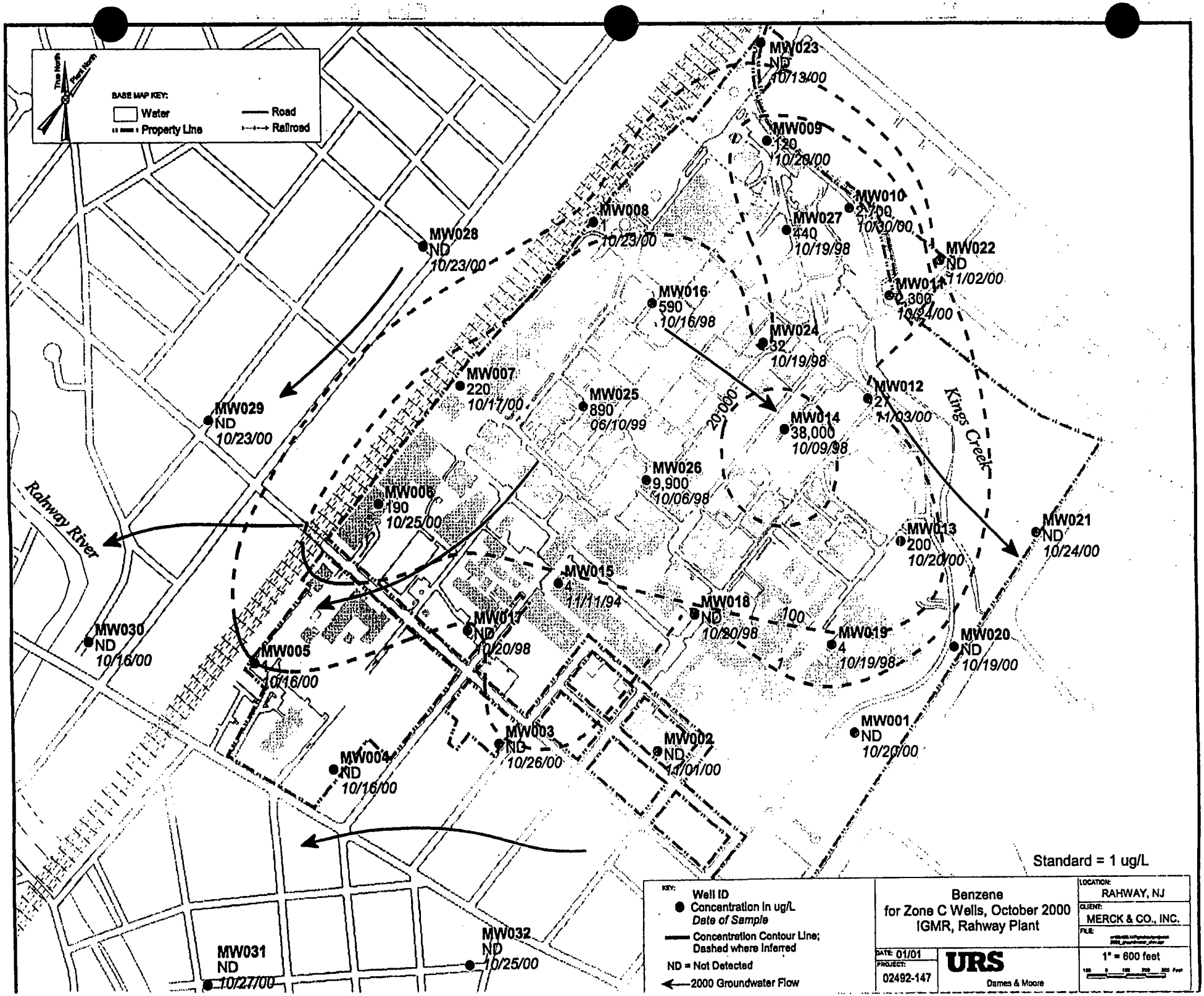


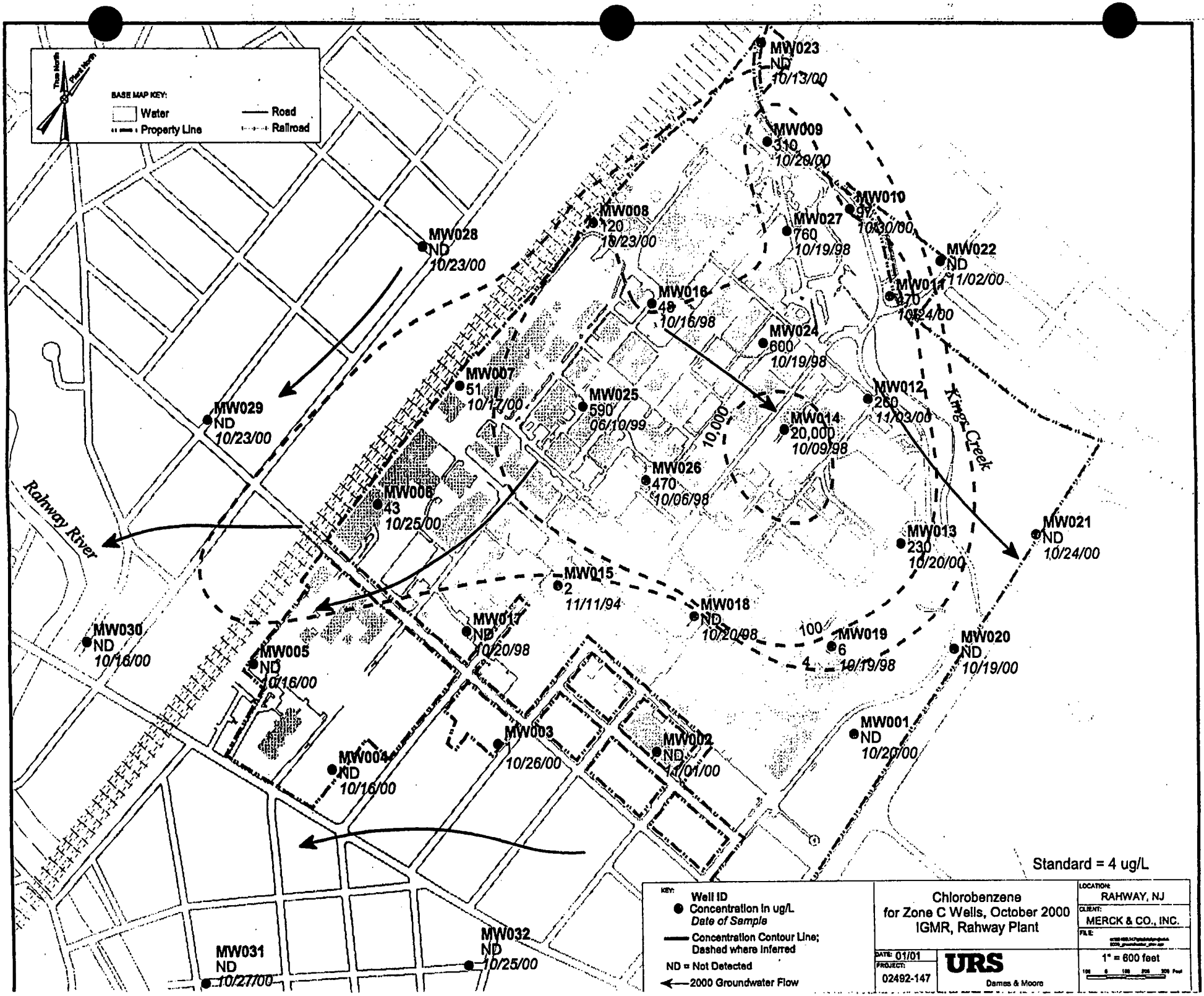
BASE MAP KEY:
Water
Property Line
Road
Railroad
True North
Plant North
MW023 ND 10/16/00
MW009 11 10/20/00
MW010 ND 10/30/00
MW008 ND 10/23/00
MW027 21 10/16/98
MW022 ND 10/27/00
MW011 940 10/20/00
MW028 ND 10/23/00
MW016 ND 10/16/98
MW024 ND 10/19/98
MW007 ND 10/17/00
MW025 ND 10/22/98
MW012 2,200 10/13/99
MW014 ND 10/09/98
MW029 ND 10/23/00
MW026 ND 10/05/98
MW006 ND 10/25/00
MW013 96 10/20/00
MW021 ND 10/24/00
MW015 1 11/11/94
MW018 ND 10/20/98
MW030 ND 10/17/00
MW017 ND 10/20/98
MW019 ND 10/19/98
MW020 ND 10/19/00
MW005 ND 10/16/00
MW001 ND 10/20/00
MW003 ND 10/26/00
MW002 ND 11/01/00
MW004 ND 10/16/00
MW034 ND 10/19/00
MW031 ND 10/25/00
MW032 ND 10/25/00
100
2000
Kings Creek
Rahway River
Standard = 100 ug/L
KEY:
Well ID
Concentration in ug/L
Date of Sample
Concentration Contour Line; Dashed where Inferred
ND = Not Detected
2000 Groundwater Flow
Tetrahydrofuran for Zone B Wells, October 2000 IGMR, Rahway Plant
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
FILE:
DATE: 02/01
PROJECT: 02492-147
URS
Dames & Moore
1" = 600 feet

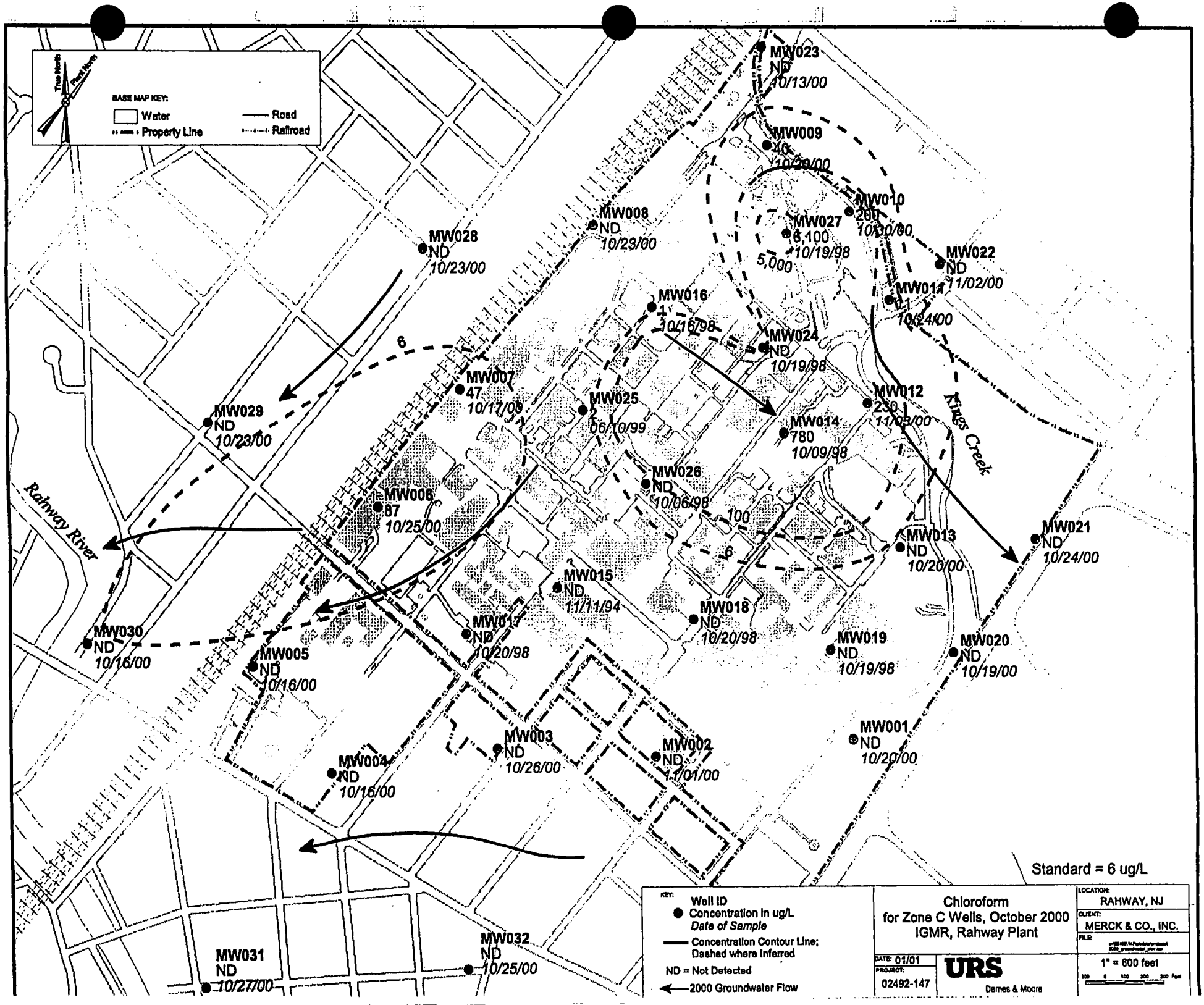

True North
Plant North
BASE MAP KEY:
Water
Property Line
Road
Railroad
MW023 ND 10/16/00
MW009 200 10/20/00
MW010 290 10/20/00
MW008 ND 10/23/00
MW027 ND 10/16/98
MW022 ND 10/27/00
MW028 ND 10/23/00
MW011 88 10/20/00
MW016 4 10/16/98
MW024 ND 10/19/98
MW007 ND 10/17/00
MW025 2 10/22/98
MW012 19 10/13/99
MW014 ND 10/09/98
Kings Creek
MW029 ND 10/23/00
MW026 120,000 10/05/98
MW006 10/25/00
Rahway River
MW021 ND 10/24/00
MW013 1,300 10/20/00
MW015 11/11/94
MW018 ND 10/20/98
MW030 6 10/17/00
MW017 18 10/20/98
MW019 2 10/19/98
MW020 ND 10/19/00
MW005 360 10/16/00
MW001 4 10/20/00
MW003 ND 10/26/00
MW002 ND 11/01/00
MW004 ND 10/16/00
MW034 3 10/19/00
MW031 ND 10/25/00
MW032 ND 10/25/00
Standard = 1 ug/L
KEY:
Well ID
Concentration in ug/L
Date of Sample
Concentration Contour Line; Dashed where Inferred
ND = Not Detected
2000 Groundwater Flow
Trichloroethene for Zone B Wells, October 2000 IGMR, Rahway Plant
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
FILE:
DATE: 02/01
PROJECT: 02492-147
URS Dames & Moore
1" = 600 feet

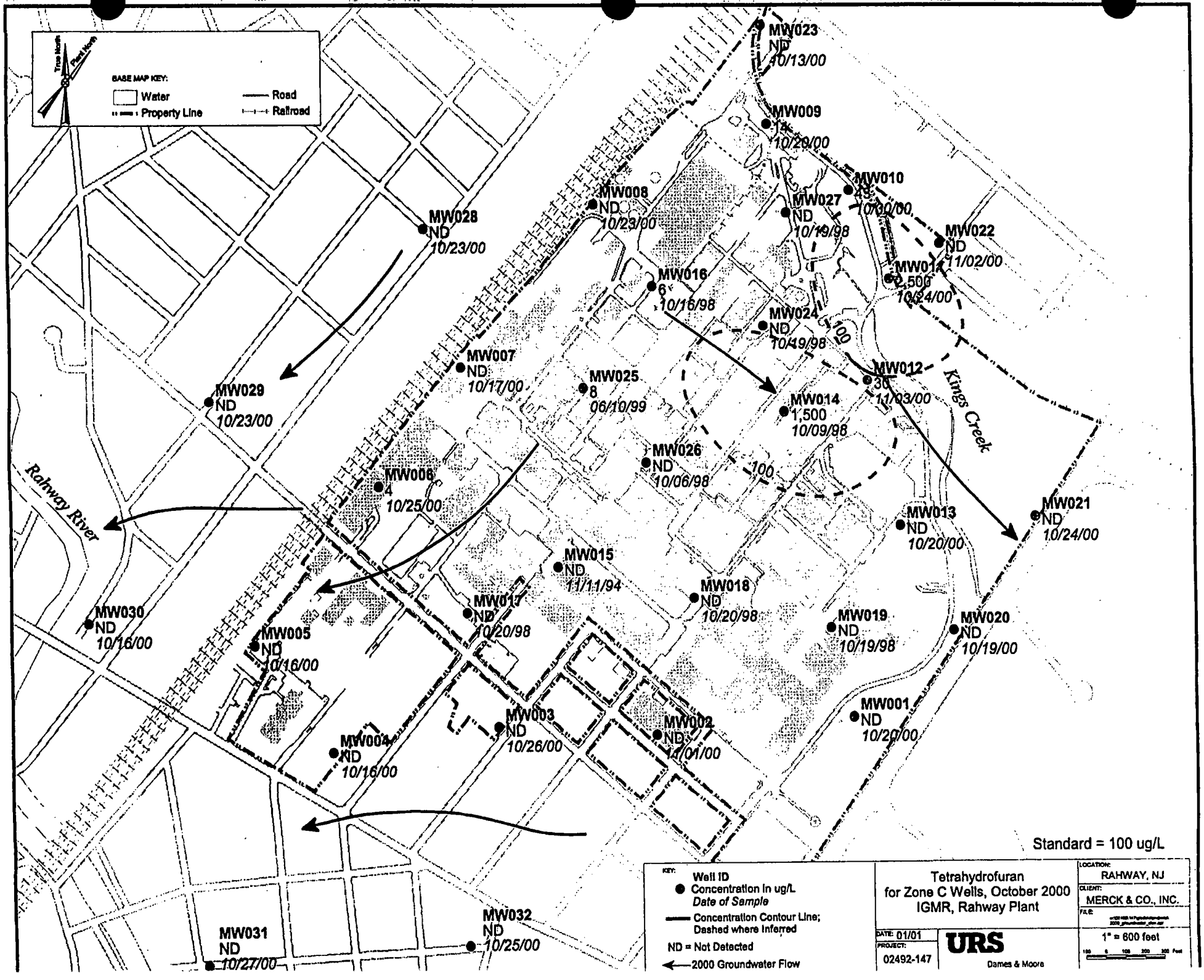

BASE MAP KEY:
Water
Property Line
Road
Railroad
MW023 ND 10/16/00
MW009 190 10/20/00
MW010 19 10/30/00
MW008 ND 10/23/00
MW027 ND 10/16/98
MW022 ND 10/27/00
MW028 ND 10/23/00
MW011 31 10/20/00
MW016 3 10/16/98
MW024 ND 10/19/98
MW007 ND 10/17/00
MW025 ND 10/22/98
MW012 ND 10/13/99
MW029 ND 10/23/00
MW014 630 10/09/98
Kings Creek
MW026 1,100 10/05/98
MW006 ND 10/25/00
Rahway River
MW013 400 10/20/00
MW021 ND 10/24/00
MW045 33 11/11/94
MW018 ND 10/20/98
MW030 ND 10/17/00
MW017 8 10/20/98
MW019 7 10/19/98
MW020 ND 10/19/00
MW005 7 10/16/00
MW001 ND 10/26/00
MW003 ND 10/26/00
MW002 ND 11/01/00
MW004 ND 10/16/00
MW034 3 10/19/00
MW031 ND 10/25/00
MW032 ND 10/25/00
100
1,000
5
Standard = 5 ug/L
KEY:
Well ID
Concentration in ug/L
Date of Sample
Concentration Contour Line; Dashed where Inferred
ND = Not Detected
2000 Groundwater Flow
Vinyl Chloride for Zone B Wells, October 2000 IGMR, Rahway Plant
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
FILE:
DATE: 02/01
PROJECT: 02492-147
URS
Dames & Moore
1" = 600 feet

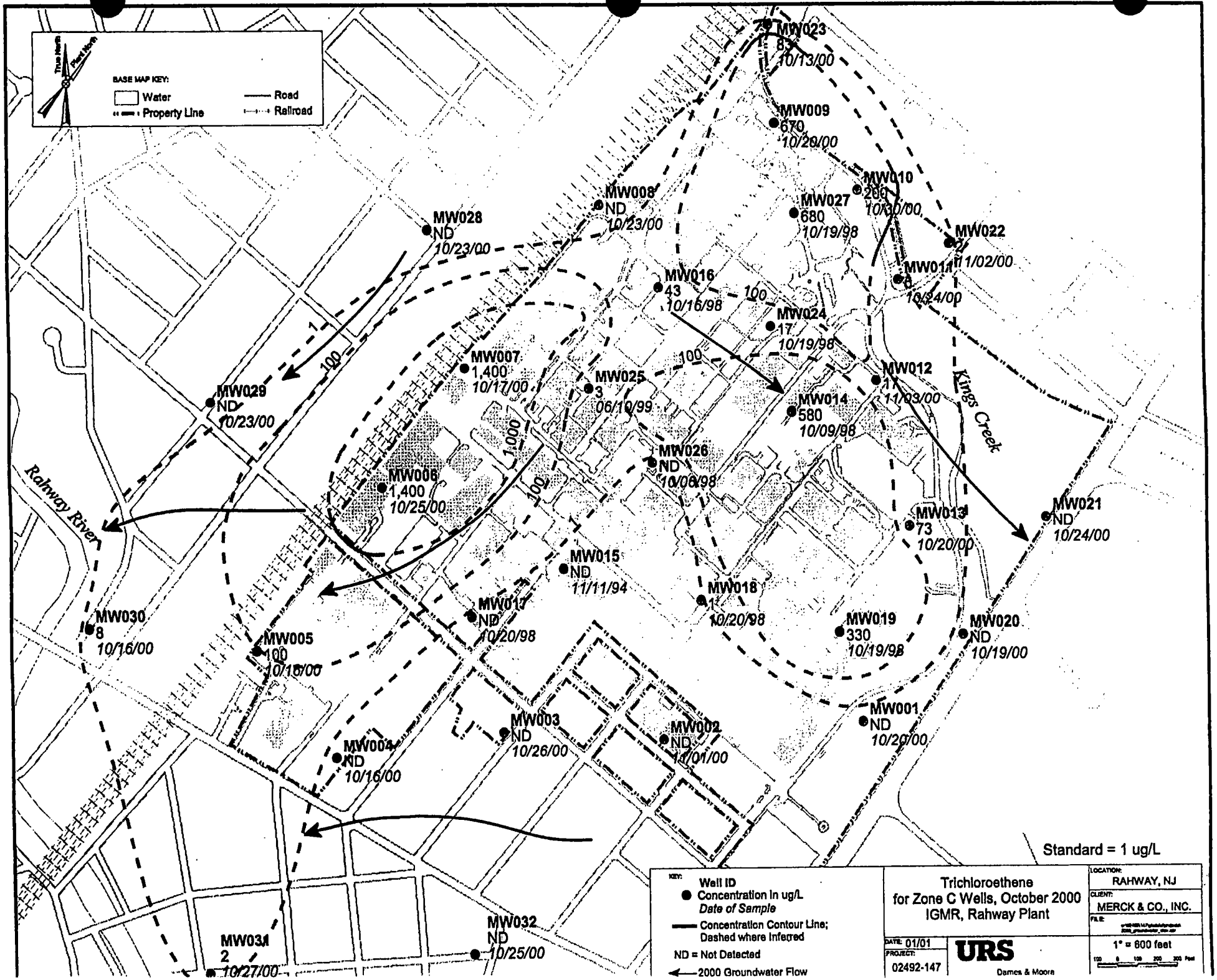

True North
Plane North
BASE MAP KEY:
Water
Property Line
Road
Railroad
MW023
6
10/13/00
MW009
330
10/20/00
MW010
940
10/30/00
MW027
100
10/19/98
MW022
11/02/00
MW011
ND
10/24/00
MW008
7
10/23/00
MW028
ND
10/23/00
MW016
58
10/16/98
MW024
ND
10/19/98
MW007
61
10/17/00
MW025
150
06/10/99
MW012
34
11/03/00
Kings Creek
MW029
ND
10/23/00
MW014
7,400
10/09/98
MW026
ND
10/06/98
Rahway River
MW006
790
10/25/00
MW013
110
10/20/00
MW021
ND
10/24/00
MW015
3
11/11/94
MW018
ND
10/20/98
MW017
ND
10/20/98
MW030
ND
10/16/00
MW019
3
10/19/98
MW020
ND
10/19/00
MW005
14
10/16/00
MW001
ND
10/20/00
MW003
ND
10/26/00
MW002
ND
11/01/00
MW004
10/16/00
MW031
ND
10/27/00
MW032
ND
10/25/00
Standard = 2 ug/L
KEY:
Well ID
Concentration in ug/L
Date of Sample
Concentration Contour Line; Dashed where Inferred
ND = Not Detected
2000 Groundwater Flow
1,2-Dichloroethane
for Zone C Wells, October 2000
IGMR, Rahway Plant
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
FILE:
DATE: 01/01
PROJECT: 02492-147
URS
1" = 600 feet

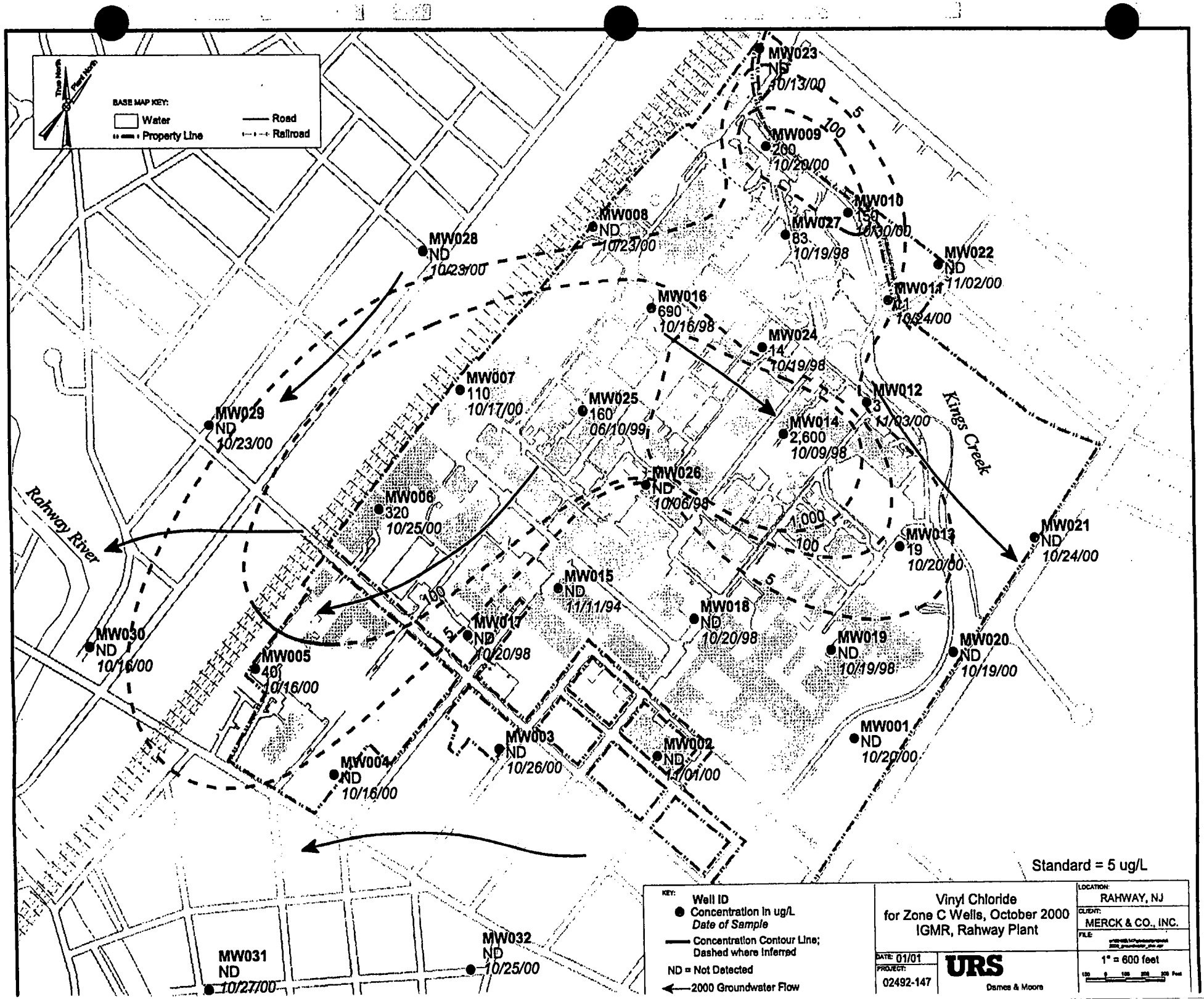

True North
BASE MAP KEY:
Water
Property Line
Road
Railroad
MW023 ND 10/13/00
MW009 120 10/26/00
MW010 2,700 10/30/00
MW027 440 10/19/98
MW022 ND 11/02/00
MW011 2,300 10/24/00
MW008 1 10/23/00
MW028 ND 10/23/00
MW016 590 10/16/98
MW024 32 10/19/98
MW007 220 10/17/00
MW025 890 06/10/99
MW012 2X 11/03/00
MW029 ND 10/23/00
MW014 38,000 10/09/98
MW026 9,900 10/06/98
MW006 190 10/25/00
MW013 200 10/20/00
MW021 ND 10/24/00
MW015 4 11/11/94
MW018 ND 10/20/98
MW017 ND 10/20/98
MW019 4 10/19/98
MW020 ND 10/19/00
MW030 ND 10/16/00
MW005 10/16/00
MW001 ND 10/20/00
MW003 ND 10/26/00
MW002 ND 11/01/00
MW004 ND 10/16/00
MW031 ND 10/27/00
MW032 ND 10/25/00
Rahway River
Kings Creek
20'000
100
1
Standard = 1 ug/L
KEY:
Well ID
Concentration in ug/L
Date of Sample
Concentration Contour Line; Dashed where Inferred
ND = Not Detected
2000 Groundwater Flow
Benzene
for Zone C Wells, October 2000
IGMR, Rahway Plant
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
FILE:
DATE: 01/01
PROJECT: 02492-147
URS
Dames & Moore
1" = 600 feet

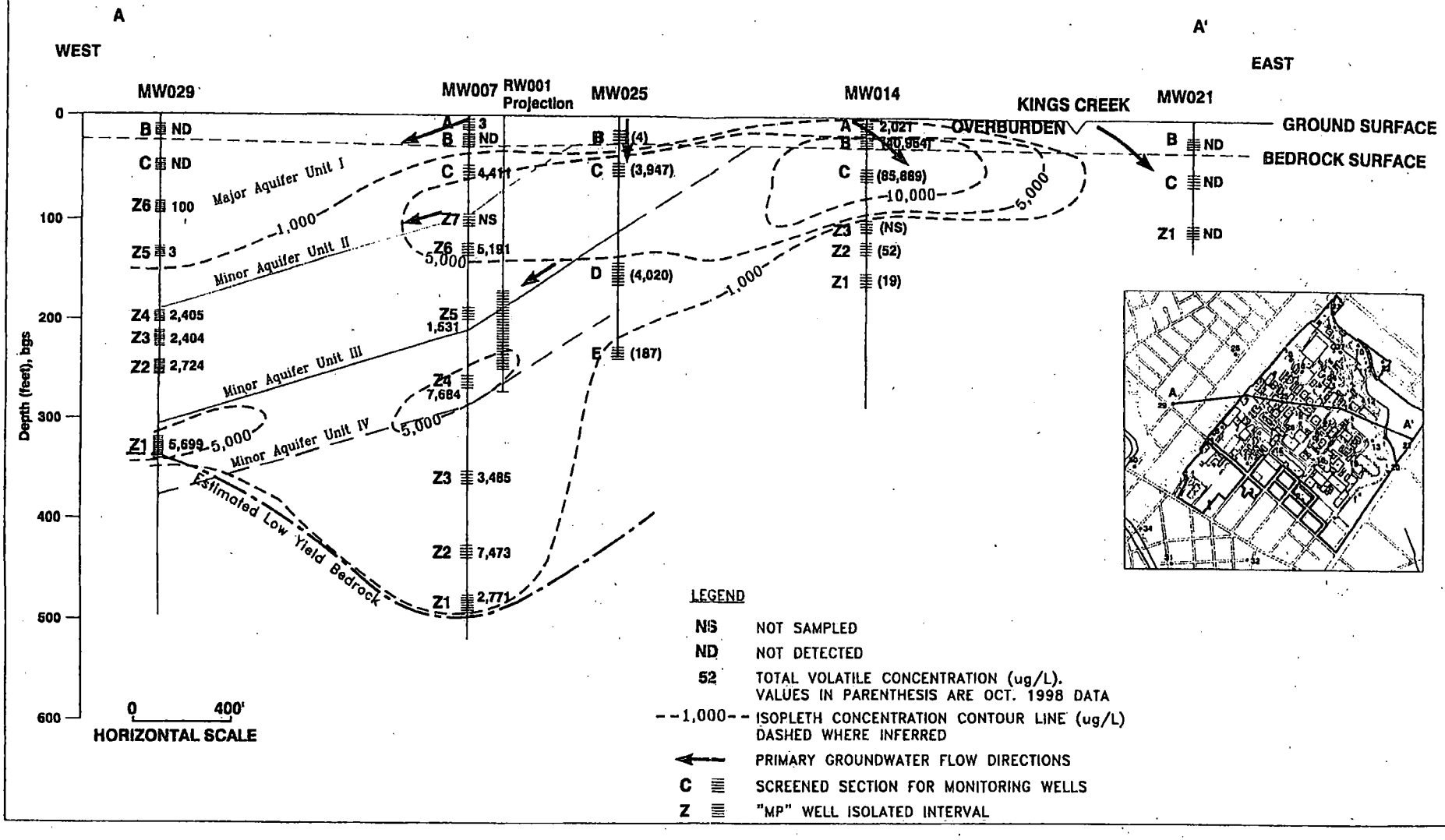

True North
Plant North
BASE MAP KEY:
Water
Property Line
Road
Railroad
MW023 ND 10/13/00
MW009 310 10/26/00
MW010 97 10/30/00
MW027 760 10/19/98
MW008 120 10/23/00
MW028 ND 10/23/00
MW022 ND 11/02/00
MW011 170 10/24/00
MW016 48 10/16/98
MW024 600 10/19/98
MW007 51 10/17/00
MW025 590 06/10/99
MW012 260 11/03/00
MW029 ND 10/23/00
MW014 20,000 10/09/98
10,000
MW026 470 10/06/98
Kings Creek
Rahway River
MW006 43 10/25/00
MW013 230 10/20/00
MW021 ND 10/24/00
MW015 2 11/11/94
MW018 ND 10/20/98
100
MW017 ND 10/20/98
MW019 6 10/19/98
MW020 ND 10/19/00
MW030 ND 10/16/00
MW005 ND 10/16/00
MW001 ND 10/20/00
MW003 10/26/00
MW002 ND 11/01/00
MW004 ND 10/16/00
MW031 ND 10/27/00
MW032 ND 10/25/00
Standard = 4 ug/L
KEY:
Well ID
Concentration in ug/L
Date of Sample
Concentration Contour Line; Dashed where Inferred
ND = Not Detected
2000 Groundwater Flow
Chlorobenzene
for Zone C Wells, October 2000
IGMR, Rahway Plant
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
FILE:
DATE: 01/01
PROJECT: 02492-147
URS
Dames & Moore
1" = 600 feet


True North
Grid North
BASE MAP KEY:
Water
Property Line
Road
Railroad
MW023 ND 10/13/00
MW009 46 10/30/00
MW010 200 10/30/00
MW027 8,100 10/19/98
5,000
MW008 ND 10/23/00
MW028 ND 10/23/00
MW022 ND 11/02/00
MW011 11 10/24/00
MW016 1 10/16/98
MW024 ND 10/19/98
6
MW007 47 10/17/00
MW025 2 06/10/99
MW012 230 11/03/00
Kings Creek
MW029 ND 10/23/00
MW014 780 10/09/98
MW026 ND 10/06/98
100
MW006 87 10/25/00
Rahway River
MW013 ND 10/20/00
MW021 ND 10/24/00
6
MW015 ND 11/11/94
MW018 ND 10/20/98
MW030 ND 10/16/00
MW017 ND 10/20/98
MW019 ND 10/19/98
MW020 ND 10/19/00
MW005 ND 10/16/00
MW001 ND 10/20/00
MW003 ND 10/26/00
MW002 ND 11/01/00
MW004 ND 10/16/00
MW031 ND 10/27/00
MW032 ND 10/25/00
Standard = 6 ug/L
KEY:
Well ID
Concentration in ug/L
Date of Sample
Concentration Contour Line; Dashed where Inferred
ND = Not Detected
2000 Groundwater Flow
Chloroform
for Zone C Wells, October 2000
IGMR, Rahway Plant
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
FILE:
DATE: 01/01
PROJECT: 02492-147
URS
Dames & Moore
1" = 600 feet


BASE MAP KEY:
Water
Property Line
Road
Railroad
MW023 ND 10/13/00
MW009 1K 10/20/00
MW010 45 10/30/00
MW008 ND 10/23/00
MW027 ND 10/19/98
MW022 ND 11/02/00
MW028 ND 10/23/00
MW016 6 10/16/98
MW011 2,500 10/24/00
MW024 ND 10/19/98
MW007 ND 10/17/00
MW025 8 06/10/99
MW012 30 11/03/00
MW029 ND 10/23/00
MW014 1,500 10/09/98
Kings Creek
MW026 ND 10/06/98
MW006 4 10/25/00
Rahway River
MW013 ND 10/20/00
MW021 ND 10/24/00
MW015 ND 11/11/94
MW018 ND 10/20/98
MW030 ND 10/16/00
MW017 ND 10/20/98
MW019 ND 10/19/98
MW020 ND 10/19/00
MW005 ND 10/16/00
MW001 ND 10/20/00
MW003 ND 10/26/00
MW002 ND 11/01/00
MW004 ND 10/16/00
MW031 ND 10/27/00
MW032 ND 10/25/00
100
Standard = 100 ug/L
KEY:
Well ID
Concentration in ug/L
Date of Sample
Concentration Contour Line; Dashed where Inferred
ND = Not Detected
2000 Groundwater Flow
Tetrahydrofuran
for Zone C Wells, October 2000
IGMR, Rahway Plant
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
DATE: 01/01
PROJECT: 02492-147
URS
Dames & Moore
1" = 600 feet


BASE MAP KEY:
Water
Property Line
Road
Railroad
MW023 83 10/13/00
MW009 670 10/20/00
MW010 200 10/30/00
MW008 ND 10/23/00
MW027 680 10/19/98
MW028 ND 10/23/00
MW022 2 11/02/00
MW011 8 10/24/00
MW016 43 10/16/98
MW024 17 10/19/98
MW007 1,400 10/17/00
MW025 3 06/10/99
MW012 1 11/03/00
MW029 ND 10/23/00
MW014 580 10/09/98
MW026 ND 10/06/98
MW006 1,400 10/25/00
MW013 73 10/20/00
MW021 ND 10/24/00
MW015 ND 11/11/94
MW018 1 10/20/98
MW030 8 10/16/00
MW017 ND 10/20/98
MW019 330 10/19/98
MW020 ND 10/19/00
MW005 100 10/16/00
MW001 ND 10/20/00
MW003 ND 10/26/00
MW002 ND 11/01/00
MW004 ND 10/16/00
MW031 2 10/27/00
MW032 ND 10/25/00
Rahway River
Kings Creek
100
1
1,000
Standard = 1 ug/L
KEY:
Well ID
Concentration in ug/L
Date of Sample
Concentration Contour Line; Dashed where Inferred
ND = Not Detected
2000 Groundwater Flow
Trichloroethene for Zone C Wells, October 2000 IGMR, Rahway Plant
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
DATE: 01/01
PROJECT: 02492-147
URS
Dames & Moore
1" = 600 feet


True North
Plant North
BASE MAP KEY:
Water
Property Line
Road
Railroad
MW023 ND 10/13/00
MW009 200 10/20/00
MW010 150 10/30/00
MW027 83 10/19/98
MW008 ND 10/23/00
MW028 ND 10/23/00
MW022 ND 11/02/00
MW011 11 10/24/00
MW016 690 10/16/98
MW024 14 10/19/98
MW007 110 10/17/00
MW025 160 06/10/99
MW012 3 11/03/00
MW029 ND 10/23/00
MW014 2,600 10/09/98
Kings Creek
MW026 ND 10/06/98
Rahway River
MW006 320 10/25/00
1,000
100
MW013 19 10/20/00
MW021 ND 10/24/00
MW015 ND 11/11/94
MW018 ND 10/20/98
MW030 ND 10/16/00
MW017 ND 10/20/98
MW019 ND 10/19/98
MW020 ND 10/19/00
MW005 40 10/16/00
MW001 ND 10/20/00
MW003 ND 10/26/00
MW004 ND 10/16/00
MW002 ND 11/01/00
MW031 ND 10/27/00
MW032 ND 10/25/00
Standard = 5 ug/L
KEY:
Well ID
Concentration in ug/L
Date of Sample
Concentration Contour Line; Dashed where Inferred
ND = Not Detected
2000 Groundwater Flow
Vinyl Chloride
for Zone C Wells, October 2000
IGMR, Rahway Plant
LOCATION: RAHWAY, NJ
CLIENT: MERCK & CO., INC.
FILE:
DATE: 01/01
PROJECT: 02492-147
URS
Dames & Moore
1" = 600 feet



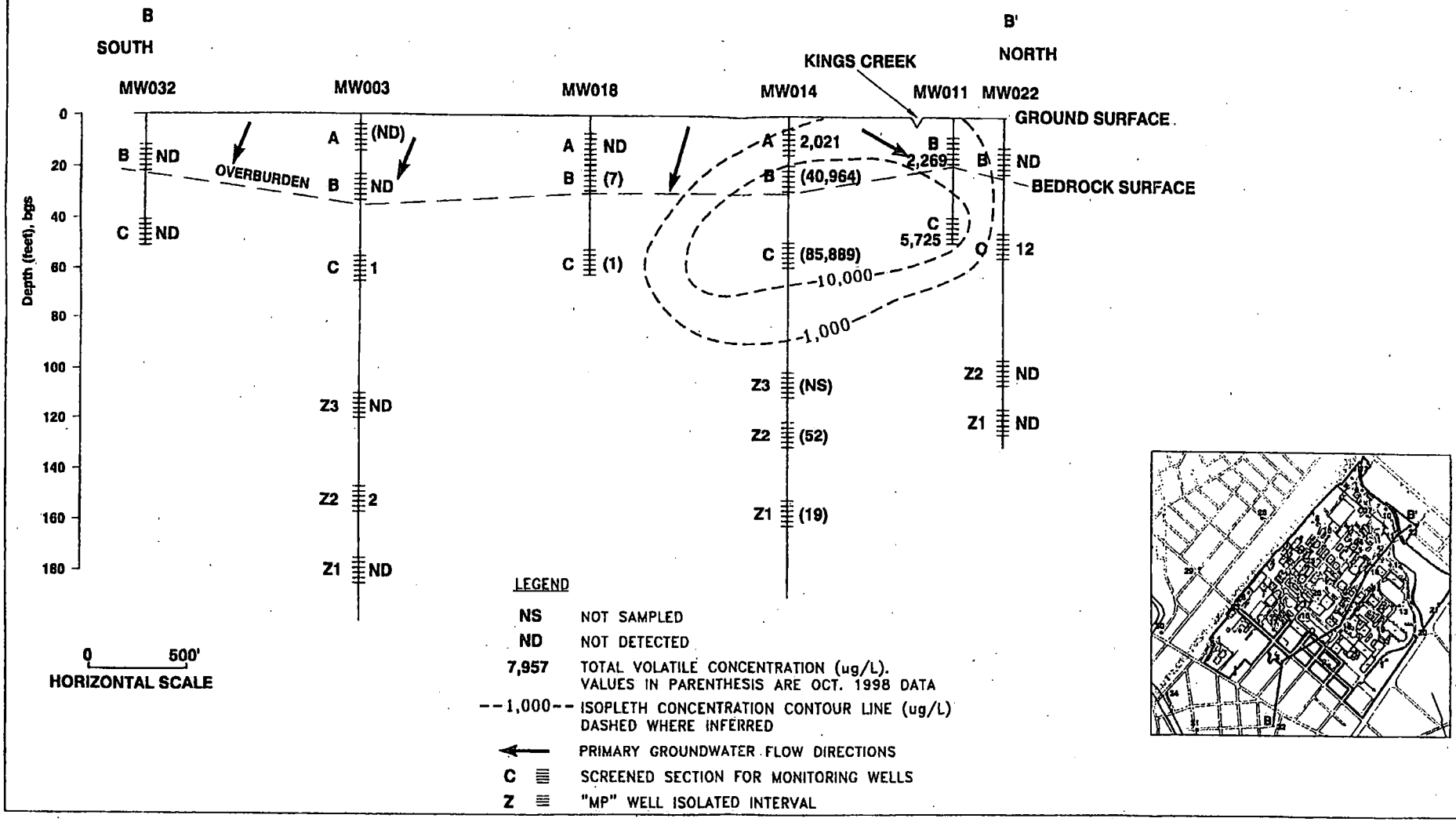
PREPARED BY: URS Dames & Moore

OCTOBER 2000 INTERIM GROUNDWATER MONITORING REPORT
RAHWAY PLANT
RAHWAY, NEW JERSEY

AUTHOR:	SCALE:	DATE:	REV.
CB	SEE ABOVE	01/01	0

FIGURE 3-16
TOTAL VOC AND WMS COCs
IN GROUNDWATER
CROSS-SECTION A-A'

P:\02492 Merck\147-Rahway\Oct 2000 IGM\Pygraphics\FIG3 17.DWG, Layout1, 01/20/2001 07:01:35 AM, kdombin, Tektronix Phaser 780 17x11 pc3, 1:1



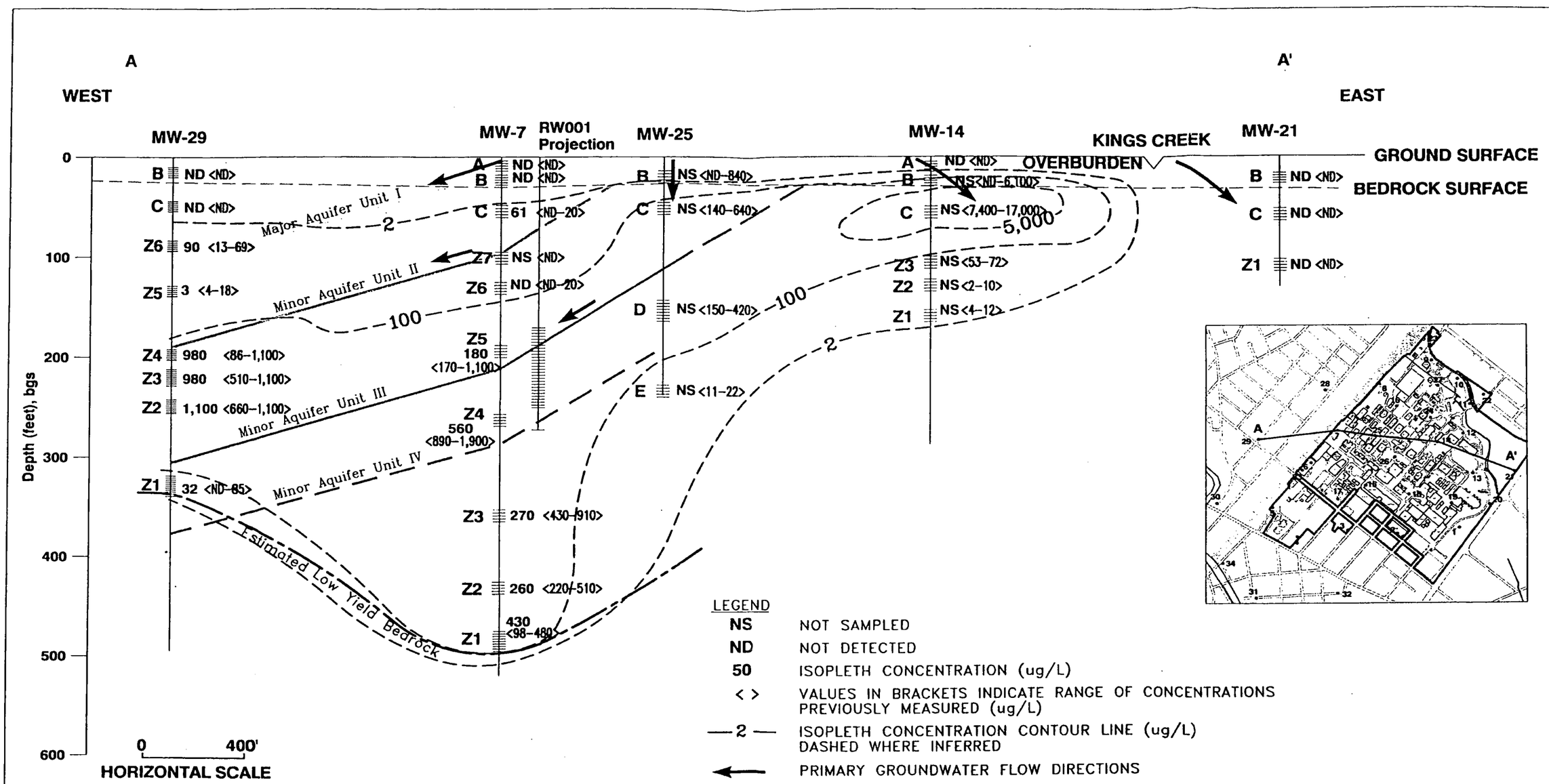
PREPARED BY: URS Dames & Moore

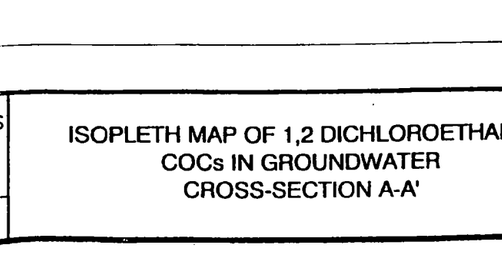
OCTOBER 2000 INTERIM GROUNDWATER MONITORING REPORT
RAHWAY PLANT
RAHWAY, NEW JERSEY

AUTHOR:	SCALE:	DATE:	REV.
CB	SEE ABOVE	01/01	0

FIGURE 3-17
TOTAL VOC AND WMS COCs
IN GROUNDWATER
CROSS-SECTION B-B'

P:\02492 Merck\147-Rahway\Oct 2000 IGMR\graphics\APPENDIX\XA-12DCA.DWG, Layout1, 02/15/2001 09:09:03 AM, kdembin, Tektronix Phaser 780 17x11.pc3, 1:1





LEGEND

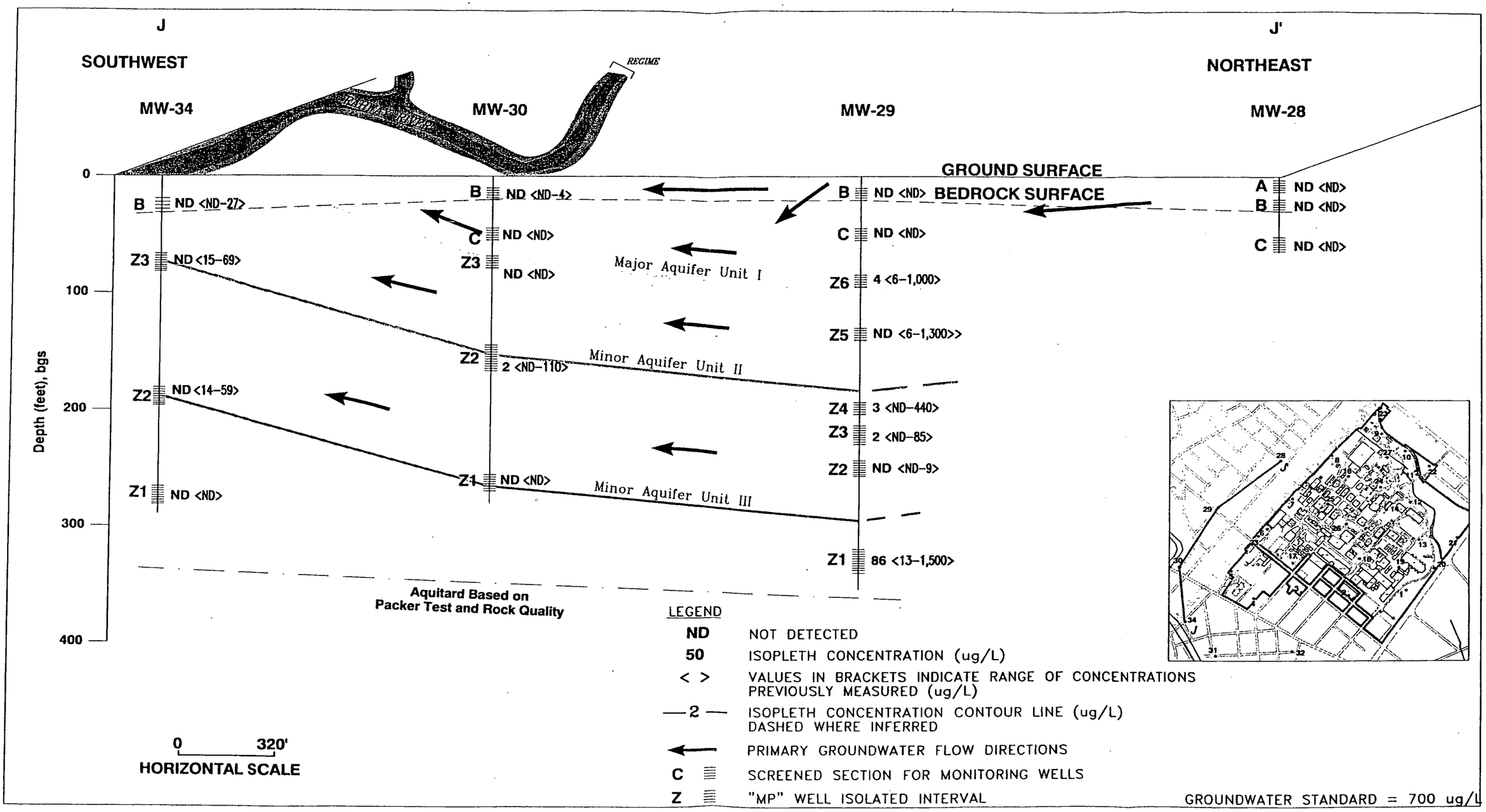
NS	NOT SAMPLED
ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C	SCREENED SECTION FOR MONITORING WELLS
Z	"MP" WELL ISOLATED INTERVAL
	GROUNDWATER STANDARD = 2 ug/L

PREPARED BY: URS Dames & Moore

A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS
RAHWAY PLANT
RAHWAY, NEW JERSEY

ISOPLETH MAP OF 1,2 DICHLOROETHANE
COCs IN GROUNDWATER
CROSS-SECTION A-A'

AUTHOR:	SCALE:	DATE:	REV.
CB	SEE ABOVE	01/01	0



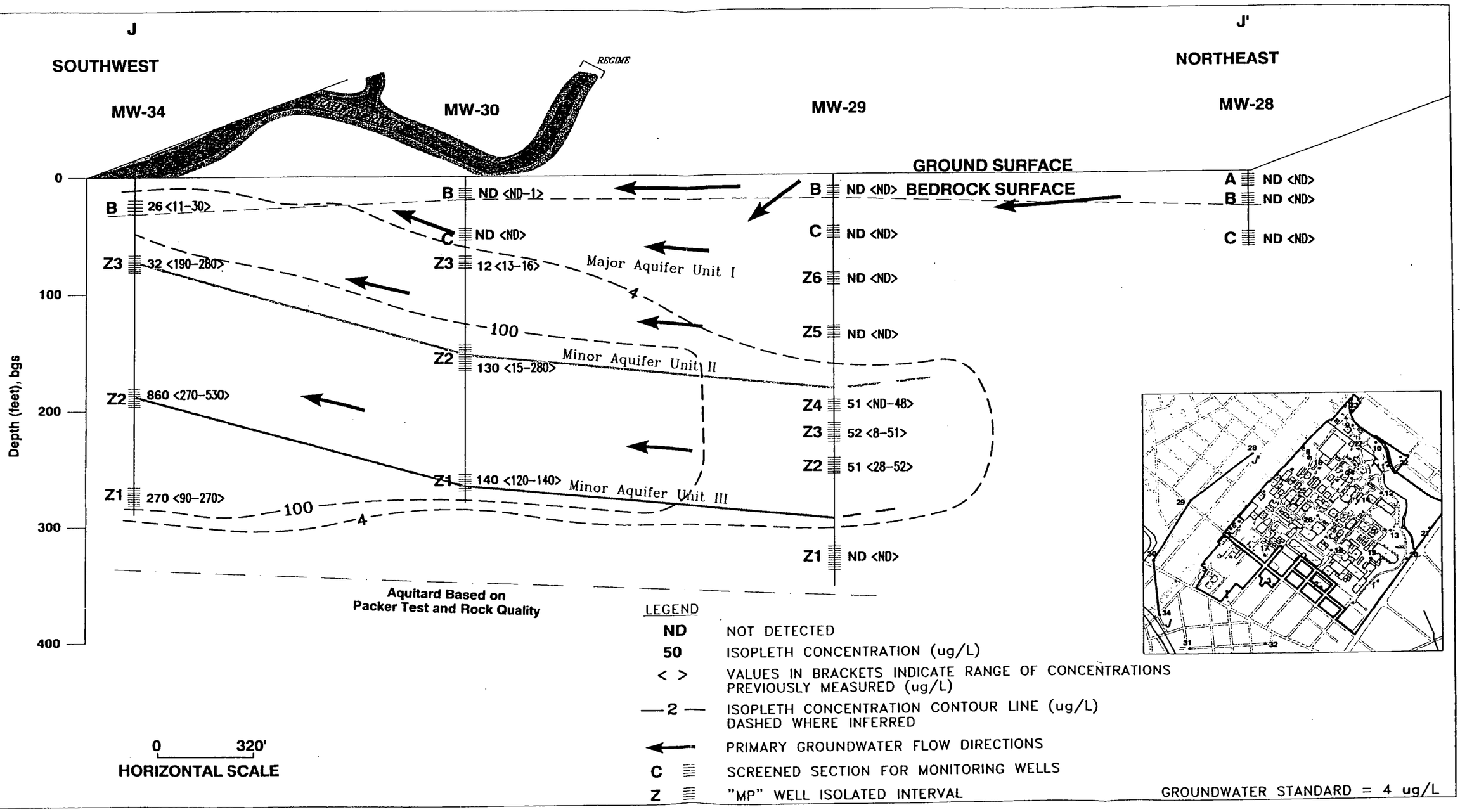
LEGEND

ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C	SCREENED SECTION FOR MONITORING WELLS
Z	"MP" WELL ISOLATED INTERVAL

GROUNDWATER STANDARD = 700 ug/L

PREPARED BY: URS Dames & Moore	A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS RAHWAY PLANT RAHWAY, NEW JERSEY			ISOPLETH MAP OF CARBON DISULFIDE COCs IN GROUNDWATER CROSS-SECTION J-J'
AUTHOR: CB	SCALE: SEE ABOVE	DATE: 01/01	REV. 0	

P:\02492 Merck\147-Rahway\Oct 2000 IGMR\graphics\APPENDIX\XJ-CB.DWG, Layout1, 02/15/2001 09:12:32 AM, kdembin, Tektronix Phaser 780 17x11.pc3, 1:1



LEGEND

ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C	SCREENED SECTION FOR MONITORING WELLS
Z	"MP" WELL ISOLATED INTERVAL

GROUNDWATER STANDARD = 4 ug/L

PREPARED BY: URS Dames & Moore

A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS
RAHWAY PLANT
RAHWAY, NEW JERSEY

ISOPLETH MAP OF CHLOROBENZENE
COCs IN GROUNDWATER
CROSS-SECTION J-J'

AUTHOR:	SCALE:	DATE:	REV.
CB	SEE ABOVE	01/01	0

J

SOUTHWEST

J'

NORTHEAST

MW-34 | MW-30 | MW-29 | MW-28

REGIME

GROUND SURFACE

BEDROCK SURFACE

Depth (feet), bgs

0
100
200
300
400

	MW-34	MW-30	MW-29	MW-28
A				ND <ND>
B	ND <ND>	ND <ND>	ND <ND>	ND <ND>
C		ND <1-6>	ND <ND-2>	ND <ND>
Z6			1 <ND-1>	
Z5			ND <ND-2>	
Z4			2 <1-5>	
Z3	ND <ND-2>	5 <5-6>	3 <3-7>	
Z2	ND <ND-1>	61 <2-63>	3 <3-9>	
Z1	2 <2-3>	2 <2>	ND <2-14>	

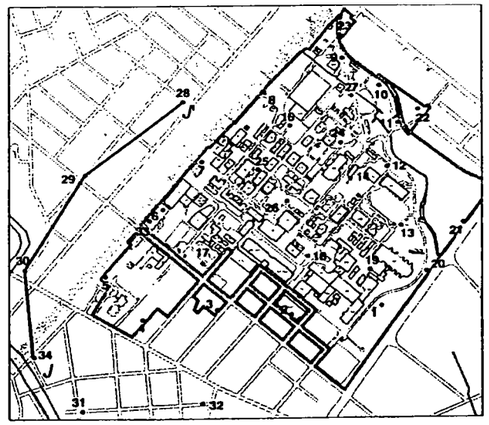
Major Aquifer Unit I

Minor Aquifer Unit II

Minor Aquifer Unit III

6

Aquitard Based on Packer Test and Rock Quality



0 320'

HORIZONTAL SCALE

LEGEND

ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C	SCREENED SECTION FOR MONITORING WELLS
Z	"MP" WELL ISOLATED INTERVAL

GROUNDWATER STANDARD = 6 ug/L

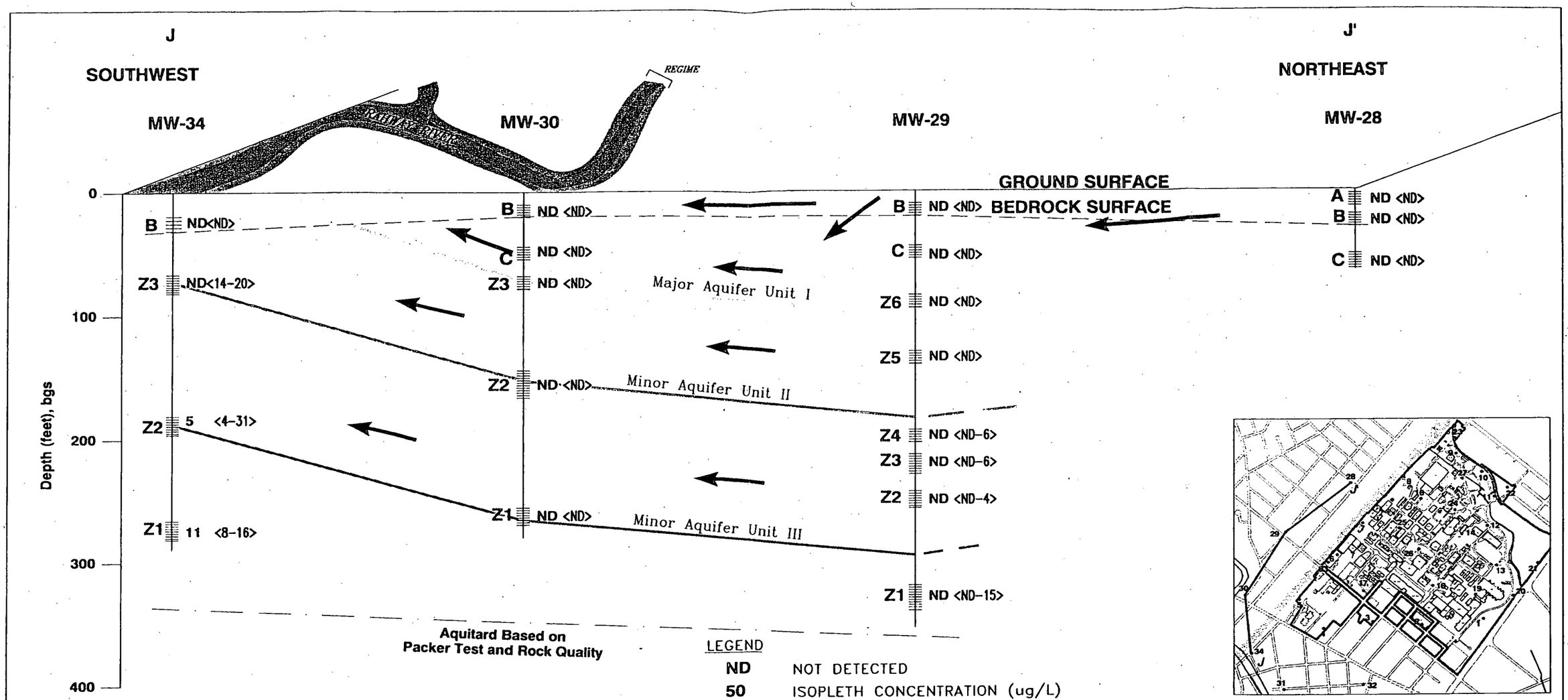
PREPARED BY: URS Dames & Moore

AUTHOR: CB

A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS
RAHWAY PLANT
RAHWAY, NEW JERSEY

SCALE: SEE ABOVE | DATE: 01/01 | REV. 0

ISOPLETH MAP OF CHLOROFORM
COCs IN GROUNDWATER
CROSS-SECTION J-J'



LEGEND

ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C	SCREENED SECTION FOR MONITORING WELLS
Z	"MP" WELL ISOLATED INTERVAL

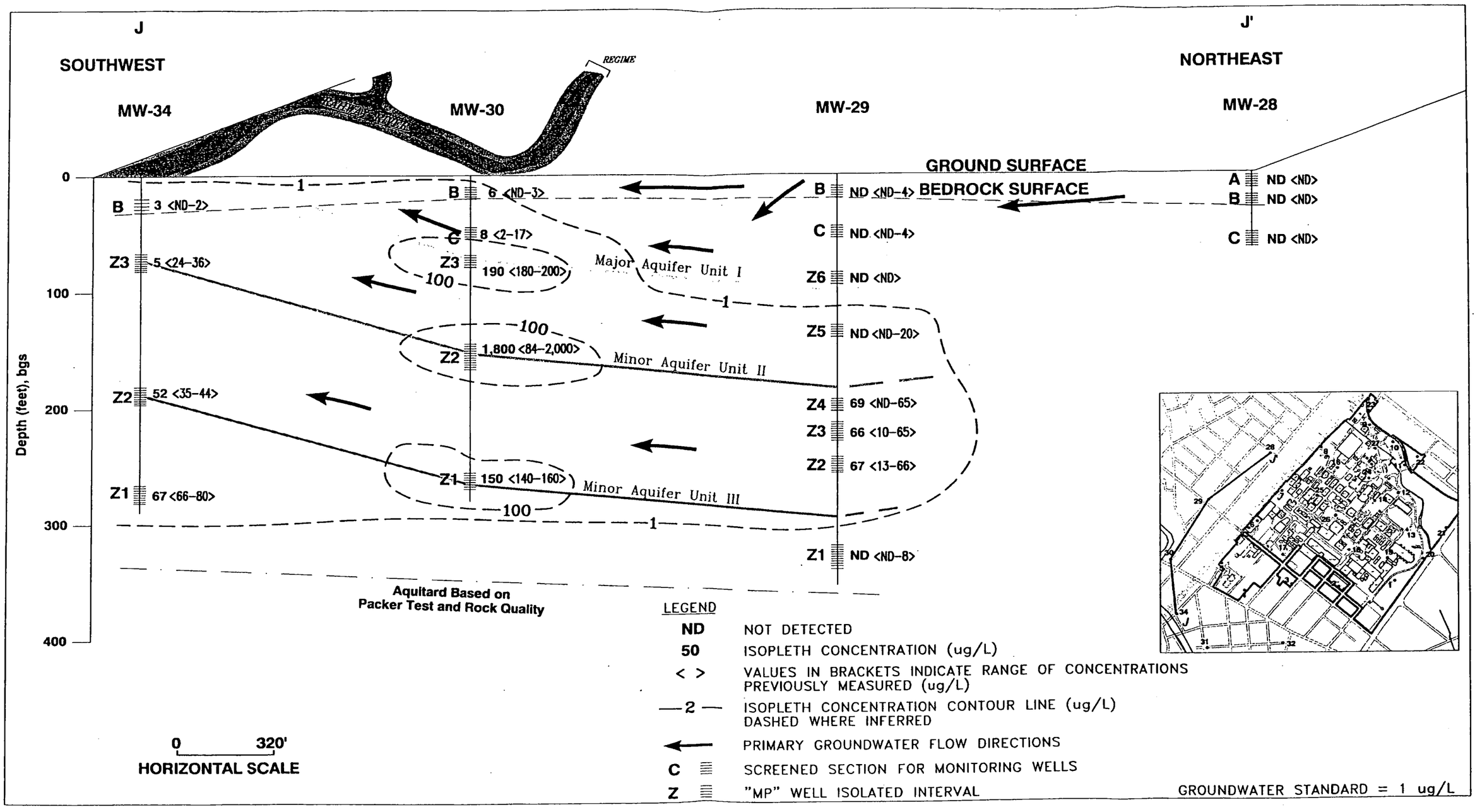
GROUNDWATER STANDARD = 100 ug/L

PREPARED BY: URS Dames & Moore

A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS
RAHWAY PLANT
RAHWAY, NEW JERSEY

ISOPLETH MAP OF TETRAHYDROFURAN
COCs IN GROUNDWATER
CROSS-SECTION J-J'

AUTHOR:	SCALE:	DATE:	REV.
CB	SEE ABOVE	01/01	0



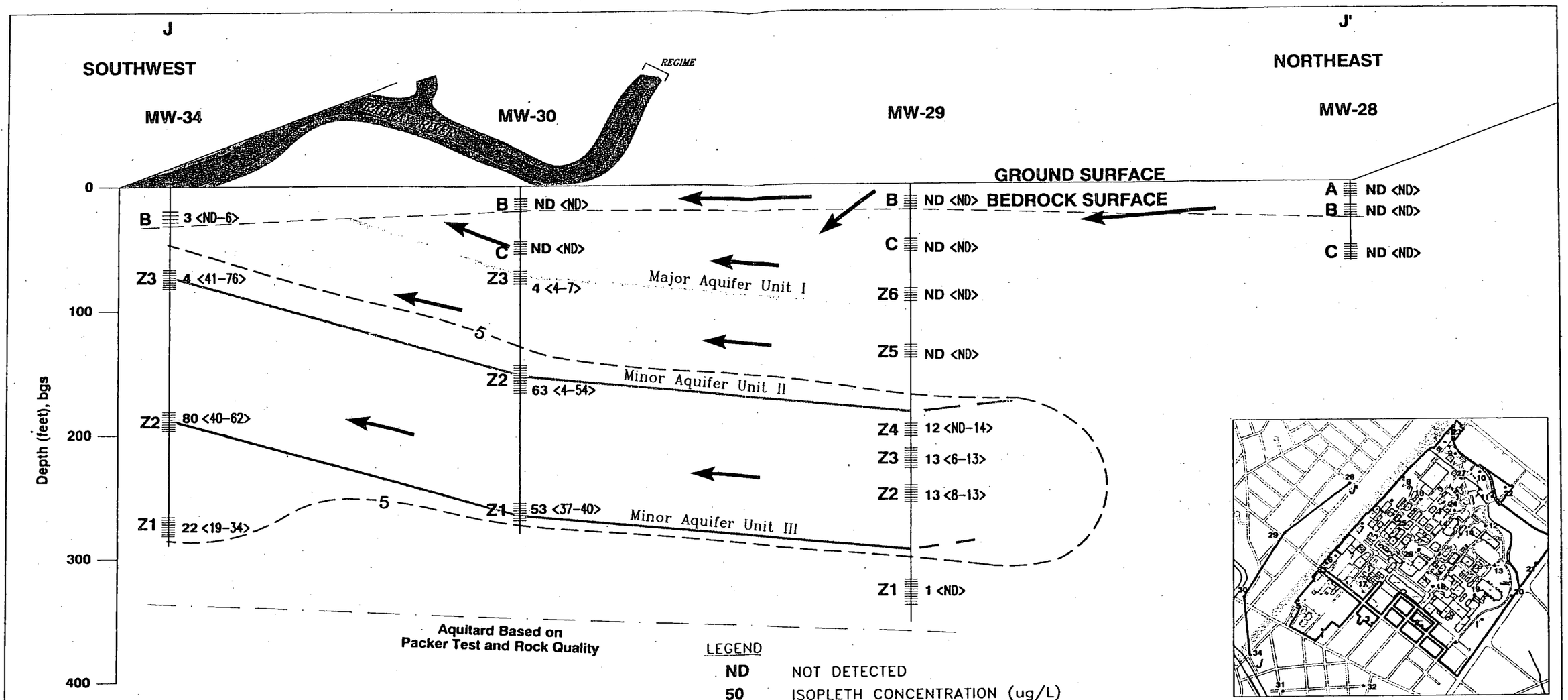
LEGEND

ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C	SCREENED SECTION FOR MONITORING WELLS
Z	"MP" WELL ISOLATED INTERVAL

GROUNDWATER STANDARD = 1 ug/L

PREPARED BY: URS Dames & Moore	A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS RAHWAY PLANT RAHWAY, NEW JERSEY			ISOPLETH MAP OF TRICHLOROETHENE COCs IN GROUNDWATER CROSS-SECTION J-J'
AUTHOR: CB	SCALE: SEE ABOVE	DATE: 01/01	REV. 0	

P:\02492 Merck\147-Rahway\Oct 2000 IGMR\graphics\APPENDIX\XJ-VC.DWG, Layout1, 01/23/2001 08:44:09 AM, kdembin, Tektronix Phaser 780 17x11.pc3, 1:1



LEGEND

ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C	SCREENED SECTION FOR MONITORING WELLS
Z	"MP" WELL ISOLATED INTERVAL

GROUNDWATER STANDARD = 5 ug/L

PREPARED BY: URS Dames & Moore	A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS RAHWAY PLANT RAHWAY, NEW JERSEY			ISOPLETH MAP OF VINYL CHLORIDE COCs IN GROUNDWATER CROSS-SECTION J-J'
AUTHOR: CB	SCALE: SEE ABOVE	DATE: 01/01	REV. 0	

J

SOUTHWEST

J'

NORTHEAST

MW-34 | MW-30 | MW-29 | MW-28

RARITAN RIVER

REGIME

GROUND SURFACE

BEDROCK SURFACE

Depth (feet), bgs

0

100

200

300

400

	MW-34	MW-30	MW-29	MW-28
A				ND <ND>
B	ND <ND>	ND <ND>	ND <ND>	ND <ND>
C		ND <ND>	ND <ND>	ND <ND>
Z6			ND <ND>	
Z5			ND <ND>	
Z4			9 <ND-12>	
Z3	10 <190-210>	1 <2>	8 <3-12>	
Z2	440 <150-280>	41 <11-34>	8 <6-13>	
Z1	88 <37-86>	91 <72-96>	ND <ND>	

Major Aquifer Unit I

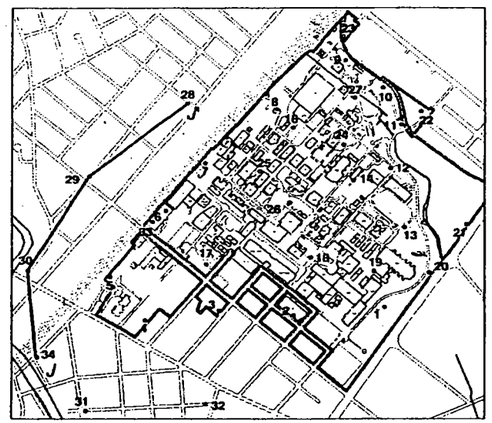
Minor Aquifer Unit II

Minor Aquifer Unit III

100

1

Aquitard Based on
Packer Test and Rock Quality



0 320'

HORIZONTAL SCALE

LEGEND

ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C	SCREENED SECTION FOR MONITORING WELLS
Z	"MP" WELL ISOLATED INTERVAL

GROUNDWATER STANDARD = 1 ug/L

PREPARED BY: URS Dames & Moore

A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS
RAHWAY PLANT
RAHWAY, NEW JERSEY

ISOPLETH MAP OF BENZENE
COCs IN GROUNDWATER
CROSS-SECTION J-J'

AUTHOR:	SCALE:	DATE:	REV.
CB	SEE ABOVE	01/01	0

J

SOUTHWEST

J'

NORTHEAST

REGIME

MW-34 MW-30 MW-29 MW-28

GROUND SURFACE

BEDROCK SURFACE

Depth (feet), bgs

0

100

200

300

400

B 25 <12-27>

Z3 32 <240-310>

Z2 400 <280>

Z1 190 <230-260>

B ND <ND>

C ND <ND>

Z3 95 <110>

Z2 950 <58-970>

Z1 600 <500-730>

B ND <ND>

C ND <ND>

Z6 90 <13-69>

Z5 3 <4-18>

Z4 980 <86-1,100>

Z3 980 <510-1,100>

Z2 1,100 <660-1,100>

Z1 32 <ND-85>

A ND <ND>

B ND <ND>

C ND <ND>

Major Aquifer Unit I

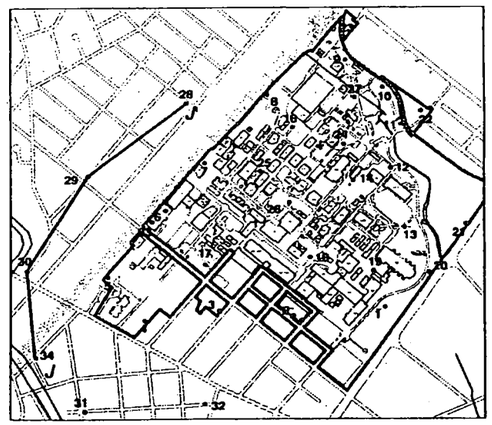
Minor Aquifer Unit II

Minor Aquifer Unit III

2

100

Aquitard Based on
Packer Test and Rock Quality



LEGEND

ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C ≡	SCREENED SECTION FOR MONITORING WELLS
Z ≡	"MP" WELL ISOLATED INTERVAL

GROUNDWATER STANDARD = 2 ug/L

0 320'

HORIZONTAL SCALE

PREPARED BY: URS Dames & Moore

A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS
RAHWAY PLANT
RAHWAY, NEW JERSEY

ISOPLETH MAP OF 1,2 DICHLOROETHANE
COCs IN GROUNDWATER
CROSS-SECTION J-J'

AUTHOR:	SCALE:	DATE:	REV.
CB	SEE ABOVE	01/01	0

P:\02492 Merck\147-Rahway\Oct 2000 IGMR\graphics\APPENDIX\XI-VC.DWG, Layout1, 02/15/2001 09:50:30 AM, kdembin, Tektronix Phaser 780 17x11.pc3, 1:1

I

SOUTHWEST

I'

NORTHEAST

MW-34

MW-5

MW-33
Well Projected Updip
100 Feet

MW-6
Well Projected Updip
80 Feet

MW-7
Well Projected Updip
130 Feet

MW-8
Well Projected Updip
140 Feet

RW001

GROUND SURFACE

BEDROCK SURFACE

Depth (feet), bgs

0
100
200
300
400
500
600

B 3 <ND-6>

Z3 4 <41-76>

B 7 <5-280>

C 40 <34-210>

B ND <ND-370>

C 320 <350-460>

Z6 4 <ND-150>

Z5 58 <54-73>

A ND <ND>

B ND <ND>

C 110 <76-1,300>

Z7 NS <ND>

Z6 ND <ND-6>

B ND <ND>

C ND <ND>

Minor Aquifer Unit II

Minor Aquifer Unit III

Minor Aquifer Unit IV

5

100

Z2 80 <40-62>

Z4 130 <120-210>

Z5 29 <40-110>

Z1 22 <19-34>

Z3 14 <6-42>

Z4 250 <360-440>

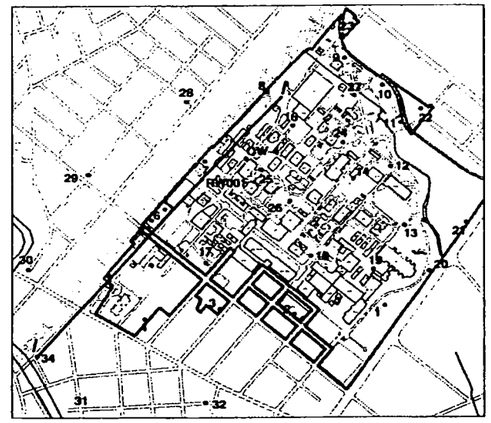
Z2 NS <ND-3>

Z3 39 <9-89>

Z1 ND <ND>

Z2 48 <8-31>

Z1 32 <ND-13>



LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C ≡	SCREENED SECTION FOR MONITORING WELLS
Z ≡	"MP" WELL ISOLATED INTERVAL

GROUNDWATER STANDARD = 5 ug/L

0 400'

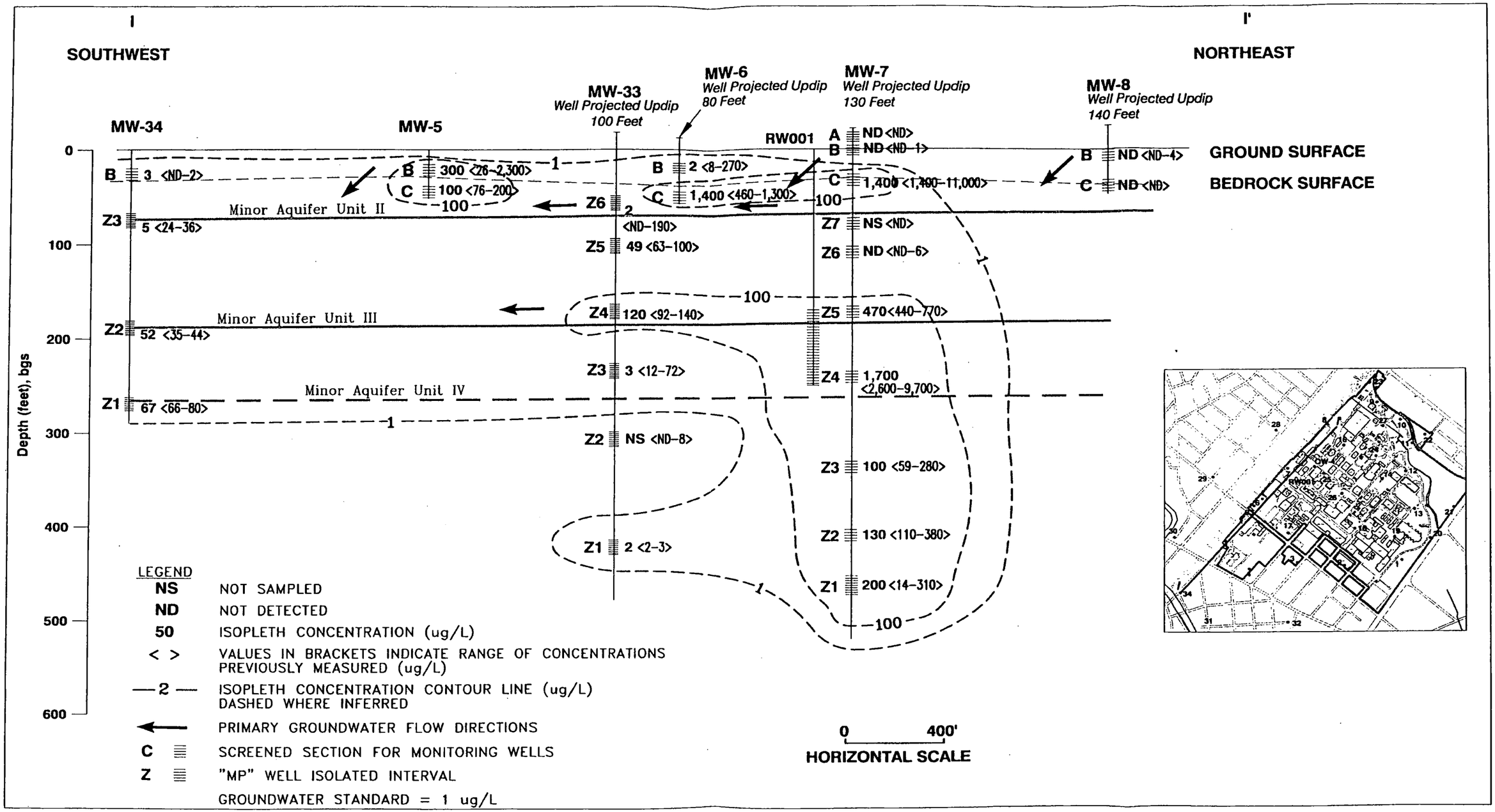
HORIZONTAL SCALE

PREPARED BY: URS Dames & Moore

A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS
RAHWAY PLANT
RAHWAY, NEW JERSEY

ISOPLETH MAP OF VINYL CHLORIDE
COCs IN GROUNDWATER
CROSS-SECTION I-I'

AUTHOR:	SCALE:	DATE:	REV.
CB	SEE ABOVE	01/01	0



PREPARED BY: URS Dames & Moore	A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS RAHWAY PLANT RAHWAY, NEW JERSEY		ISOPLETH MAP OF TRICHLOROETHENE COCs IN GROUNDWATER CROSS-SECTION I-I'
AUTHOR: CB	SCALE: SEE ABOVE	DATE: 01/01	REV. 0

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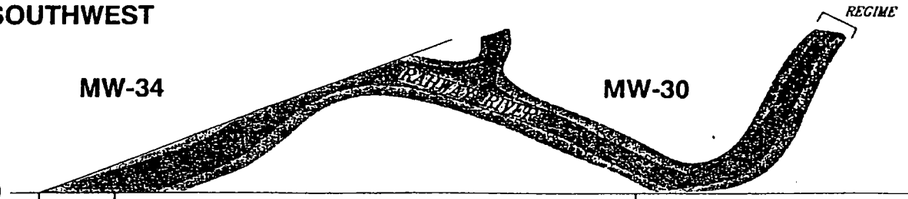
J

SOUTHWEST

J'

NORTHEAST



MW-34 | MW-30 | MW-29 | MW-28

GROUND SURFACE

BEDROCK SURFACE

Depth (feet), bgs

0

100

200

300

400

	MW-34	MW-30	MW-29	MW-28
A				ND <ND>
B	ND <ND>	ND <ND>	ND <ND>	ND <ND>
C		ND <ND>	ND <ND>	ND <ND>
Z6			ND <ND>	
Z5			ND <ND>	
Z4			9 <ND-12>	
Z3	10 <190-210>	1 <2>	8 <3-12>	
Z2	440 <150-280>	41 <11-34>	8 <6-13>	
Z1	88 <37-86>	91 <72-96>	ND <ND>	

Major Aquifer Unit I

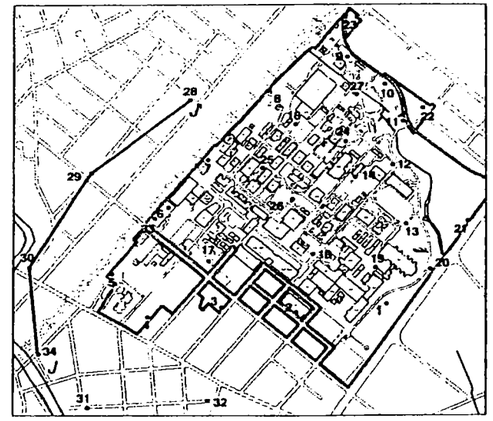
Minor Aquifer Unit II

Minor Aquifer Unit III

100

1

Aquitard Based on
Packer Test and Rock Quality



0 320'

HORIZONTAL SCALE

LEGEND

ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C	SCREENED SECTION FOR MONITORING WELLS
Z	"MP" WELL ISOLATED INTERVAL

GROUNDWATER STANDARD = 1 ug/L

PREPARED BY: URS Dames & Moore

A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS
RAHWAY PLANT
RAHWAY, NEW JERSEY

ISOPLETH MAP OF BENZENE
COCs IN GROUNDWATER
CROSS-SECTION J-J'

AUTHOR:	SCALE:	DATE:	REV.
CB	SEE ABOVE	01/01	0

J

SOUTHWEST

J'

NORTHEAST

REGIME

MW-34 | MW-30 | MW-29 | MW-28

GROUND SURFACE

BEDROCK SURFACE

Depth (feet), bgs

0

100

200

300

400

	MW-34	MW-30	MW-29	MW-28
A				ND <ND>
B	25 <12-27>	ND <ND>	ND <ND>	ND <ND>
C		ND <ND>	ND <ND>	ND <ND>
Z6			90 <13-69>	
Z5			3 <4-18>	
Z4			980 <86-1,100>	
Z3	32 <240-310>	95 <110>	980 <510-1,100>	
Z2	400 <280>	950 <58-970>	1,100 <660-1,100>	
Z1	190 <230-260>	600 <500-730>	32 <ND-85>	

Major Aquifer Unit I

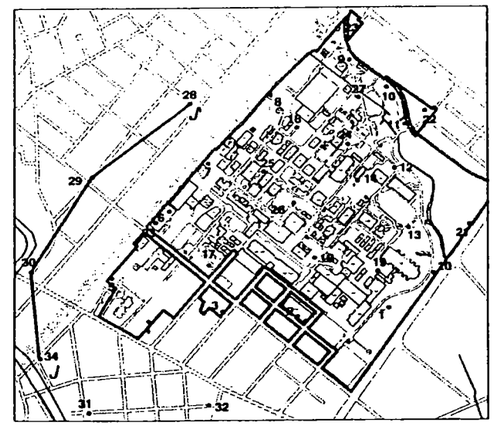
Minor Aquifer Unit II

Minor Aquifer Unit III

2

100

Aquitard Based on
Packer Test and Rock Quality



LEGEND

ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C ≡	SCREENED SECTION FOR MONITORING WELLS
Z ≡	"MP" WELL ISOLATED INTERVAL

GROUNDWATER STANDARD = 2 ug/L

0 320'

HORIZONTAL SCALE

PREPARED BY: URS Dames & Moore

A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS
RAHWAY PLANT
RAHWAY, NEW JERSEY

ISOPLETH MAP OF 1,2 DICHLOROETHANE
COCs IN GROUNDWATER
CROSS-SECTION J-J'

AUTHOR:	SCALE:	DATE:	REV.
CB	SEE ABOVE	01/01	0

I

SOUTHWEST

I'

NORTHEAST

MW-34 | MW-5 | MW-33 *Well Projected Updip 100 Feet* | MW-6 *Well Projected Updip 80 Feet* | RW001 | MW-7 *Well Projected Updip 130 Feet* | MW-8 *Well Projected Updip 140 Feet*

GROUND SURFACE

BEDROCK SURFACE

Depth (feet), bgs

0

100

200

300

400

500

600

B 3 <ND-6>

B 7 <5-280>

C 40 <34-210>

B ND <ND-370>

C 320 <350-460>

A ND <ND>

B ND <ND>

C 110 <76-1,300>

B ND <ND>

C ND <ND>

Minor Aquifer Unit II

Z3 4 <41-76>

Z6 4 <ND-150>

Z5 58 <54-73>

Z7 NS <ND>

Z6 ND <ND-6>

5

100

100

Minor Aquifer Unit III

Z2 80 <40-62>

Z4 130 <120-210>

Z5 29 <40-110>

Z3 14 <6-42>

100

Z4 250 <360-440>

Minor Aquifer Unit IV

5

Z1 22 <19-34>

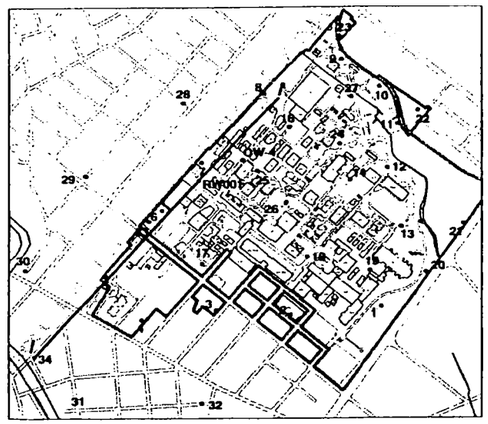
Z2 NS <ND-3>

Z3 39 <9-89>

Z1 ND <ND>

Z2 48 <8-31>

Z1 32 <ND-13>



LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C ≡	SCREENED SECTION FOR MONITORING WELLS
Z ≡	"MP" WELL ISOLATED INTERVAL

GROUNDWATER STANDARD = 5 ug/L

0 400'

HORIZONTAL SCALE

PREPARED BY: URS Dames & Moore

AUTHOR: CB

A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS
RAHWAY PLANT
RAHWAY, NEW JERSEY

SCALE: SEE ABOVE

DATE: 01/01

REV. 0

ISOPLETH MAP OF VINYL CHLORIDE
COCs IN GROUNDWATER
CROSS-SECTION I-I'

I

SOUTHWEST

I'

NORTHEAST

MW-34 | MW-5 | MW-33 Well Projected Updip 100 Feet | MW-6 Well Projected Updip 80 Feet | MW-7 Well Projected Updip 130 Feet | RW001 | MW-8 Well Projected Updip 140 Feet

GROUND SURFACE

BEDROCK SURFACE

Minor Aquifer Unit II

Minor Aquifer Unit III

Minor Aquifer Unit IV

Depth (feet), bgs: 0, 100, 200, 300, 400, 500, 600

MW-34: B 3 <ND-2>; Z3 5 <24-36>; Z2 52 <35-44>; Z1 67 <66-80>

MW-5: B 300 <26-2,300>; C 100 <76-200>

MW-33: Z6 2 <ND-190>; Z5 49 <63-100>; Z4 120 <92-140>; Z3 3 <12-72>; Z2 NS <ND-8>; Z1 2 <2-3>

MW-6: B 2 <8-270>; C 1,400 <460-1,300>

RW001: A ND <ND>; B ND <ND-1>; C 1,400 <1,400-11,000>

MW-7: Z7 NS <ND>; Z6 ND <ND-6>; Z5 470 <440-770>; Z4 1,700 <2,600-9,700>; Z3 100 <59-280>; Z2 130 <110-380>; Z1 200 <14-310>

MW-8: B ND <ND-4>; C ND <ND>

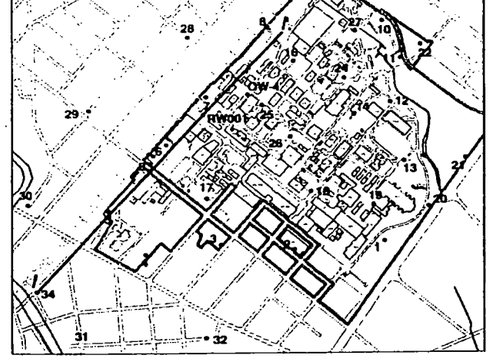
1 | 100

LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C	SCREENED SECTION FOR MONITORING WELLS
Z	"MP" WELL ISOLATED INTERVAL
	GROUNDWATER STANDARD = 1 ug/L

0 400'

HORIZONTAL SCALE



PREPARED BY: URS Dames & Moore	A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS RAHWAY PLANT RAHWAY, NEW JERSEY		ISOPLETH MAP OF TRICHLOROETHENE COCs IN GROUNDWATER CROSS-SECTION I-I'
AUTHOR: CB	SCALE: SEE ABOVE	DATE: 01/01	REV. 0

I

SOUTHWEST

I'

NORTHEAST

MW-34 | MW-5 | MW-33 Well Projected Updip 100 Feet | MW-6 Well Projected Updip 80 Feet | RW001 | MW-7 Well Projected Updip 130 Feet | MW-8 Well Projected Updip 140 Feet

GROUND SURFACE

BEDROCK SURFACE

Depth (feet), bgs

0

100

200

300

400

500

600

Minor Aquifer Unit II

Minor Aquifer Unit III

Minor Aquifer Unit IV

	MW-34	MW-5	MW-33	MW-6	RW001	MW-7	MW-8
A						ND <ND>	
B	ND <ND>	ND <ND-500>		ND <ND>		ND <ND>	ND <ND>
C		ND <ND>		4 <ND-11>		ND <ND>	ND <ND>
Z7						NS <65>	
Z6			5 <ND-9>			ND <ND-140>	
Z5			ND <ND>			ND <ND-26>	
Z4			ND <ND>			26 <ND-310>	
Z3	ND <14-20>		ND <ND>				
Z2	5 <4-31>		NS <ND>				
Z1	11 <8-16>		3 <ND>				

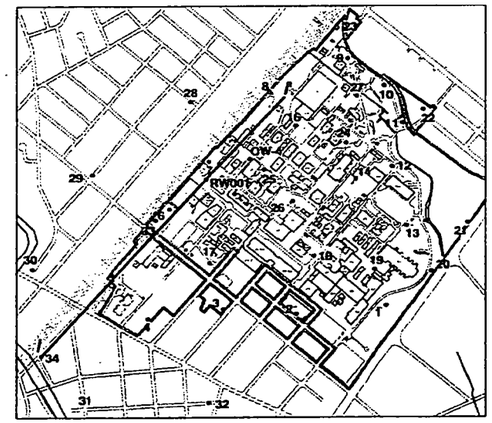
Z3: 1,900 <1,300-1,900>

1,000

Z2: 950 <370-1,000>

Z1: 860 <700-800>

100



LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C	SCREENED SECTION FOR MONITORING WELLS
Z	"MP" WELL ISOLATED INTERVAL

GROUNDWATER STANDARD = 100 ug/L

0 400'

HORIZONTAL SCALE

PREPARED BY: URS Dames & Moore	A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS RAHWAY PLANT RAHWAY, NEW JERSEY		ISOPLETH MAP OF TETRAHYDROFURAN COCs IN GROUNDWATER CROSS-SECTION I-I'
AUTHOR: CB	SCALE: SEE ABOVE	DATE: 01/01	REV. 0

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I

SOUTHWEST

I'

NORTHEAST

MW-34

MW-5

MW-33
Well Projected Updip
100 Feet

MW-6
Well Projected Updip
80 Feet

MW-7
Well Projected Updip
130 Feet

MW-8
Well Projected Updip
140 Feet

RW001

GROUND SURFACE

BEDROCK SURFACE

Minor Aquifer Unit II

Minor Aquifer Unit III

Minor Aquifer Unit IV

Depth (feet), bgs

0
100
200
300
400
500
600

MW-34: B ND <ND>; Z3 ND <ND-2>; Z2 2 <ND-1>; Z1 2 <2-3>

MW-5: B ND <ND>; C ND <ND-6>

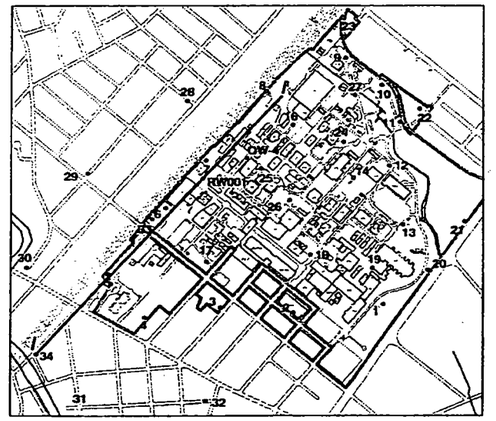
MW-33: Z6 ND <ND-26>; Z5 ND <ND-2>; Z4 11 <10-16>; 6; Z3 2 <ND-21>; Z2 NS <ND-2>; Z1 ND <ND>

MW-6: B ND <1-21>; 6; C 87 <71-160>

RW001: A 3 <ND-2>; B ND <ND>; C 47 <19-100>

MW-7: Z7 NS <ND>; Z6 ND <ND>; Z5 ND <ND-4>; NS; Z4 13 <20-85>; 7 <1-44>; 6; Z3; Z2 5 <ND-100>; Z1 ND <ND-8>

MW-8: B ND <ND-3>; C ND <ND>



LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C	SCREENED SECTION FOR MONITORING WELLS
Z	"MP" WELL ISOLATED INTERVAL

GROUNDWATER STANDARD = 6 ug/L

0 400'

HORIZONTAL SCALE

PREPARED BY: URS Dames & Moore	A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS RAHWAY PLANT RAHWAY, NEW JERSEY			ISOPLETH MAP OF CHLOROFORM COCs IN GROUNDWATER CROSS-SECTION I-I'
AUTHOR: CB	SCALE: SEE ABOVE	DATE: 01/01	REV. 0	

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I

SOUTHWEST

I'

NORTHEAST

MW-34 | MW-5 | MW-33 Well Projected Updip 100 Feet | MW-6 Well Projected Updip 80 Feet | RW001 | MW-7 Well Projected Updip 130 Feet | MW-8 Well Projected Updip 140 Feet

GROUND SURFACE

BEDROCK SURFACE

Depth (feet), bgs

0

100

200

300

400

500

600

Minor Aquifer Unit II

Minor Aquifer Unit III

Minor Aquifer Unit IV

MW-34: B 26 <11-30>; Z3 32 <190-280>; Z2 860 <270-530>; Z1 270 <90-270>

MW-5: B ND <ND-9>; C ND <ND-6>

MW-33: Z6 19 <9-140>; Z5 3 <2-7>; Z4 43 <18-45>; Z3 ND <2-26>; Z2 NS <1-3>; Z1 3 <1-4>

MW-6: B ND <ND-27>; C 43 <27-210>

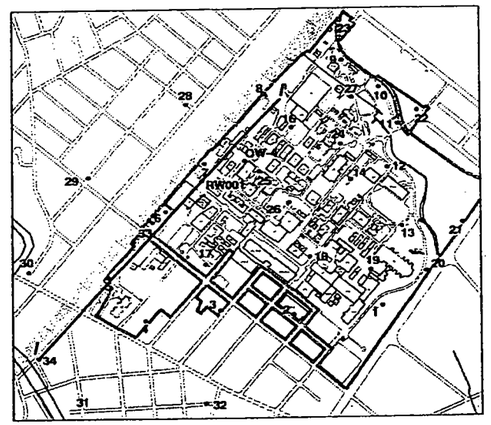
RW001: A ND <ND>; B ND <ND>; C 51 <26-280>; Z7 NS <ND>; Z6 190 <10-240>; Z5 160 <92-1,200>; Z4 2,200 <620-2,000>; Z3 250 <99-1,300>; Z2 49 <46-840>; Z1 540 <48-700>

MW-8: B ND <ND-34>; C 120 <58-110>

4

100

4



LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C ≡	SCREENED SECTION FOR MONITORING WELLS
Z ≡	"MP" WELL ISOLATED INTERVAL
	GROUNDWATER STANDARD = 4 ug/L

0 400'

HORIZONTAL SCALE

PREPARED BY: URS Dames & Moore

A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS
RAHWAY PLANT
RAHWAY, NEW JERSEY

ISOPLETH MAP OF CHLOROBENZENE
COCs IN GROUNDWATER
CROSS-SECTION I-I'

AUTHOR:	SCALE:	DATE:	REV.
CB	SEE ABOVE	01/01	0

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I

SOUTHWEST

I'

NORTHEAST

MW-34 | MW-5 | MW-33 Well Projected Updip 100 Feet | MW-6 Well Projected Updip 80 Feet | RW001 | MW-7 Well Projected Updip 130 Feet | MW-8 Well Projected Updip 140 Feet

GROUND SURFACE

BEDROCK SURFACE

Depth (feet), bgs

0

100

200

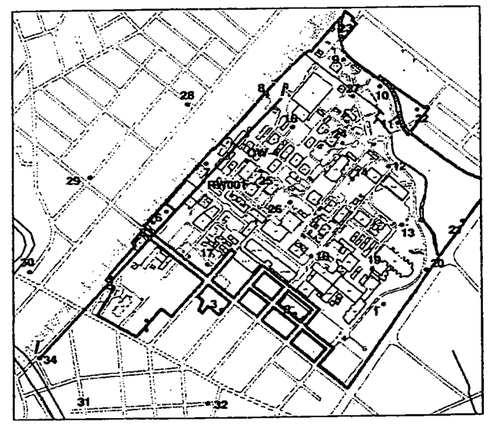
300

400

500

600

	MW-34	MW-5	MW-33	MW-6	RW001	MW-7	MW-8
						A ND <ND>	
						B ND <ND>	B ND <ND>
	B ND <ND-27>	B ND<ND>		B ND <ND>		C ND <26>	C ND <ND-4>
		C ND<ND>	Z6 ND <ND-7>	C ND <ND>			
Minor Aquifer Unit II							
	Z3 ND <15-69>		Z5 ND <ND-4>			Z7 NS <26>	
						Z6 ND <ND-25>	
Minor Aquifer Unit III							
	Z2 ND <14-59>		Z4 ND <ND>			Z5 ND <ND-9>	
			Z3 4 <ND>			Z4 7 <ND-33>	
Minor Aquifer Unit IV							
	Z1 ND <ND>		Z2 NS <ND-5>			Z3 34 <ND-48>	
						Z2 49 <11-93>	
			Z1 ND <ND>			Z1 28 <10-850>	



LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C	SCREENED SECTION FOR MONITORING WELLS
Z	"MP" WELL ISOLATED INTERVAL
	GROUNDWATER STANDARD = 700 ug/L

0 400'

HORIZONTAL SCALE

PREPARED BY: URS Dames & Moore	A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS RAHWAY PLANT RAHWAY, NEW JERSEY		ISOPLETH MAP OF CARBON DISULFIDE COCs IN GROUNDWATER CROSS-SECTION I-I'
AUTHOR: CB	SCALE: SEE ABOVE	DATE: 01/01	REV. 0

I

SOUTHWEST

I'

NORTHEAST

MW-34 | MW-5 | MW-33 Well Projected Updip 100 Feet | MW-6 Well Projected Updip 80 Feet | RW001 | MW-7 Well Projected Updip 130 Feet | MW-8 Well Projected Updip 140 Feet

GROUND SURFACE

BEDROCK SURFACE

Depth (feet), bgs

0

100

200

300

400

500

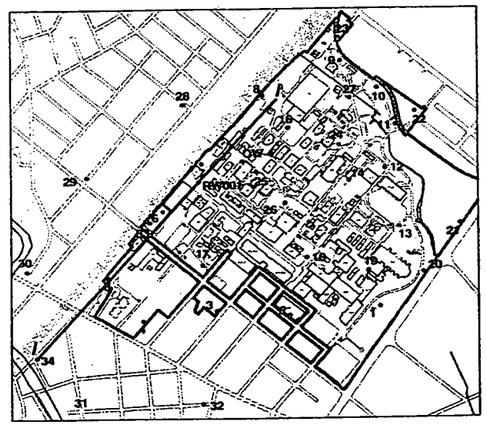
600

Minor Aquifer Unit II

Minor Aquifer Unit III

Minor Aquifer Unit IV

B ND <ND>
Z3 10 <190–210>
B ND <2–6>
C 1 <1–2>
B ND <ND–33>
Z6 59 <22–340>
C 190 <1–210>
A ND <ND>
B ND <ND>
C 220 <110–1,300>
Z7 NS <ND>
Z6 570 <29–970>
Z5 110 <150–550>
Z4 560 <170–800>
B ND <ND>
C 1 <1–10>
100
Z5 270 <200–290>
Z4 420 <290–540>
Z3 10 <5–28>
Z2 ND <ND–2>
Z1 3 <1–3>
Z3 500 <170–930>
Z2 79 <80–490>
Z1 390 <48–410>
Z2 440 <150–280>
Z1 88 <37–86>
100
1



LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C ≡	SCREENED SECTION FOR MONITORING WELLS
Z ≡	"MP" WELL ISOLATED INTERVAL
	GROUNDWATER STANDARD = 1 ug/L

0 400'
HORIZONTAL SCALE

PREPARED BY: URS Dames & Moore	A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS RAHWAY PLANT RAHWAY, NEW JERSEY		ISOPLETH MAP OF BENZENE COCs IN GROUNDWATER CROSS-SECTION I-I'
AUTHOR: CB	SCALE: SEE ABOVE	DATE: 01/01	REV. 0

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I

SOUTHWEST

I'

NORTHEAST

MW-34 | MW-5 | MW-33 (Well Projected Updip 100 Feet) | MW-6 (Well Projected Updip 80 Feet) | RW001 | MW-7 (Well Projected Updip 130 Feet) | MW-8 (Well Projected Updip 140 Feet)

GROUND SURFACE

BEDROCK SURFACE

Depth (feet), bgs

0 | 100 | 200 | 300 | 400 | 500 | 600

MW-34: B 25 <12–27>; Z3 32 <290–310>; Z2 400 <280>; Z1 190 <230–260>

MW-5: B ND <ND>; C 14 <ND–10>

MW-33: B 1 <20–5,000>; C 790 <590–4,600>; Z6 28 <ND–1,600>; Z5 370 <370–930>; Z4 2,400 <3,200–4,200>; Z3 92 <29–810>; Z2 NS <7–31>; Z1 7 <3–15>

MW-6: B ND <ND>; C 61 <ND–26>; Z7 NS <ND>; Z6 ND <ND–20>; Z5 180 <170–1,100>; Z4 560 <890–1,900>; Z3 270 <430–910>; Z2 260 <220–510>; Z1 430 <38–480>

RW001: A ND <ND>; B ND <ND>

MW-8: B ND <ND>; C 7 <6–28>

Minor Aquifer Unit II

Minor Aquifer Unit III

Minor Aquifer Unit IV

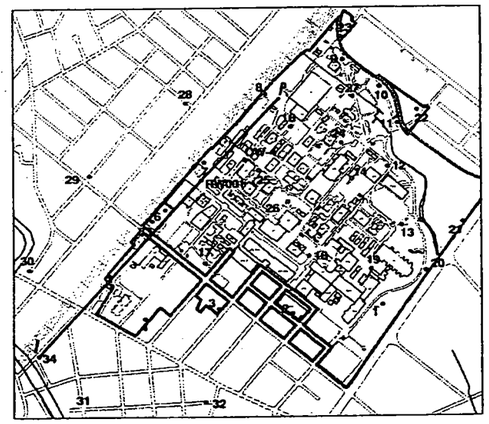
2

100

LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C ≡	SCREENED SECTION FOR MONITORING WELLS
Z ≡	"MP" WELL ISOLATED INTERVAL

GROUNDWATER STANDARD = 2 ug/L



0 400'

HORIZONTAL SCALE

PREPARED BY: URS Dames & Moore

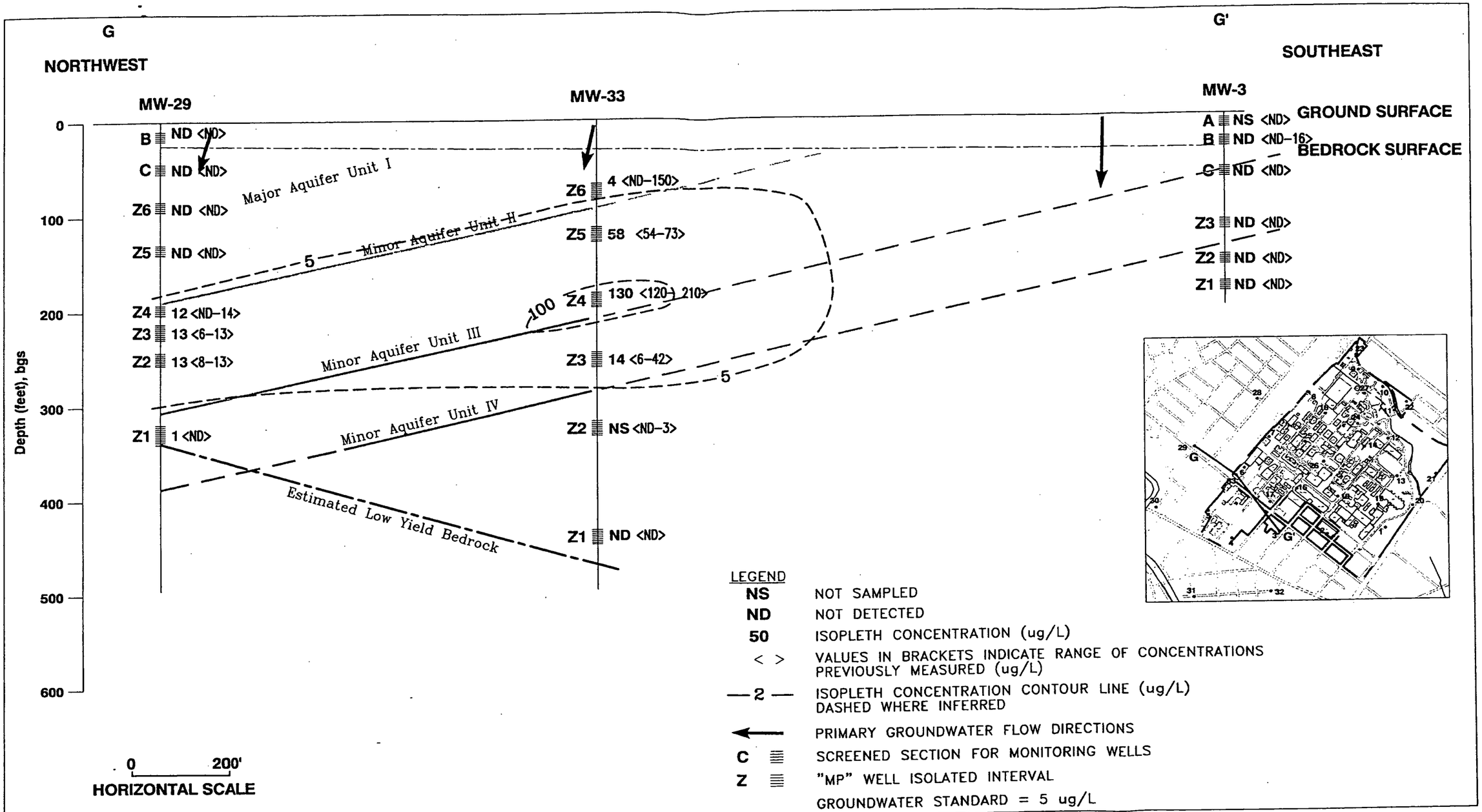
AUTHOR: CB

A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS
RAHWAY PLANT
RAHWAY, NEW JERSEY

SCALE: SEE ABOVE | DATE: 01/01 | REV. 0

ISOPLETH MAP OF 1,2 DICHLOROETHANE
COCs IN GROUNDWATER
CROSS-SECTION I-I'

P:\02492 Merck\147-Rahway\Oct 2000 IGMR\graphics\APPENDIX\XG-VC.DWG, Layout1, 02/15/2001 11:37:24 AM, kdembin, Tektronix Phaser 780 17x11.pc3, 1:1



LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C ≡	SCREENED SECTION FOR MONITORING WELLS
Z ≡	"MP" WELL ISOLATED INTERVAL
	GROUNDWATER STANDARD = 5 ug/L

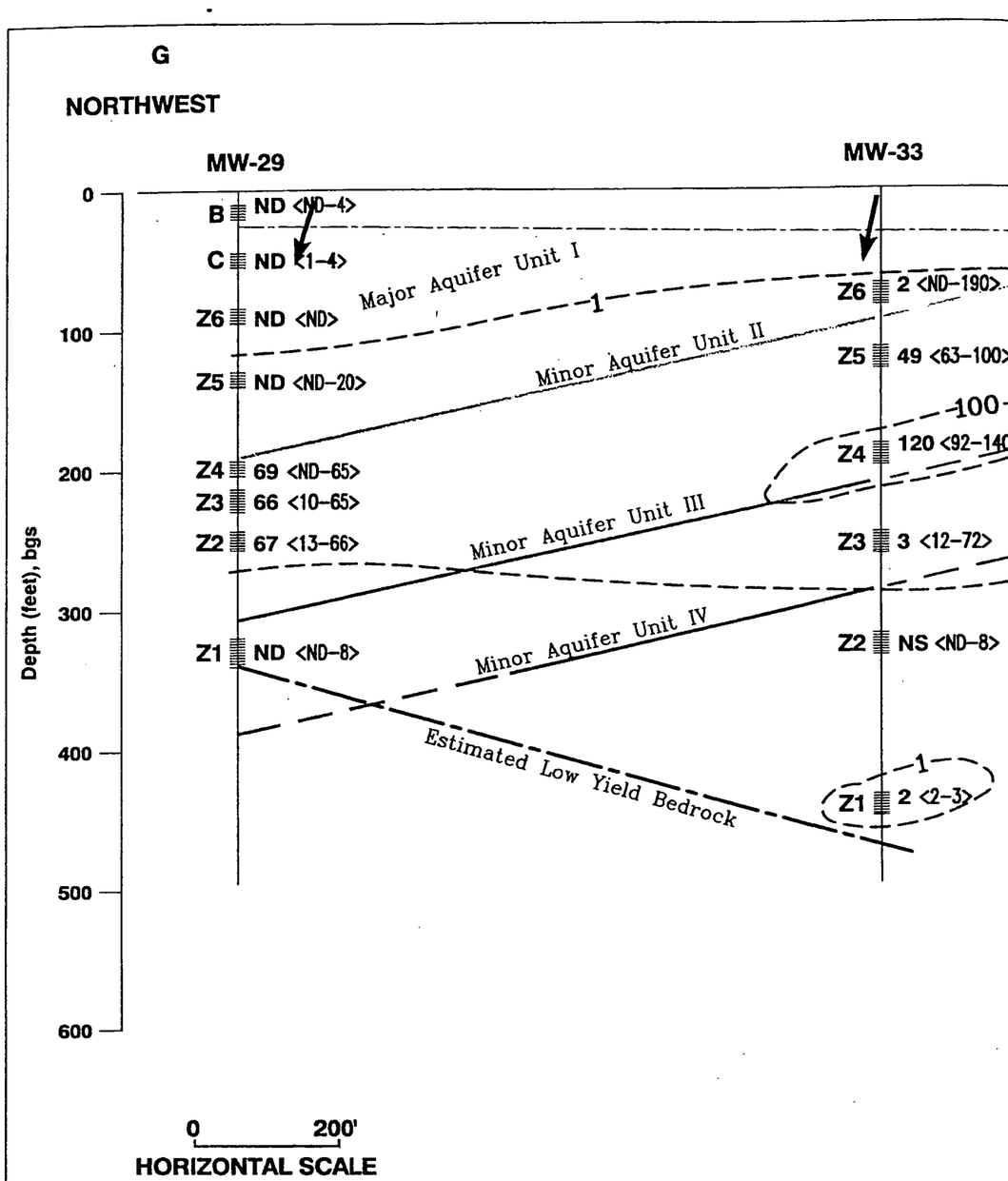
PREPARED BY: URS Dames & Moore

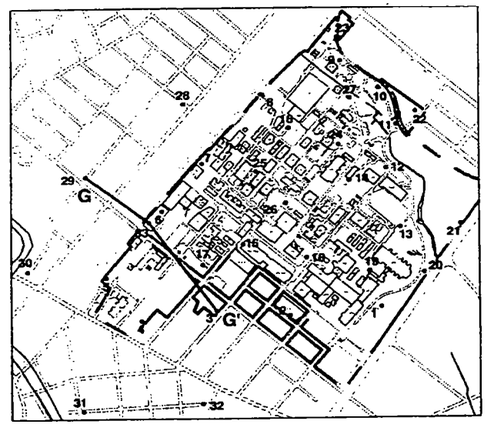
AUTHOR: CB

A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS
RAHWAY PLANT
RAHWAY, NEW JERSEY

SCALE: SEE ABOVE | DATE: 01/01 | REV. 0

ISOPLETH MAP OF VINYL CHLORIDE COCs IN GROUNDWATER CROSS-SECTION G-G'





LEGEND

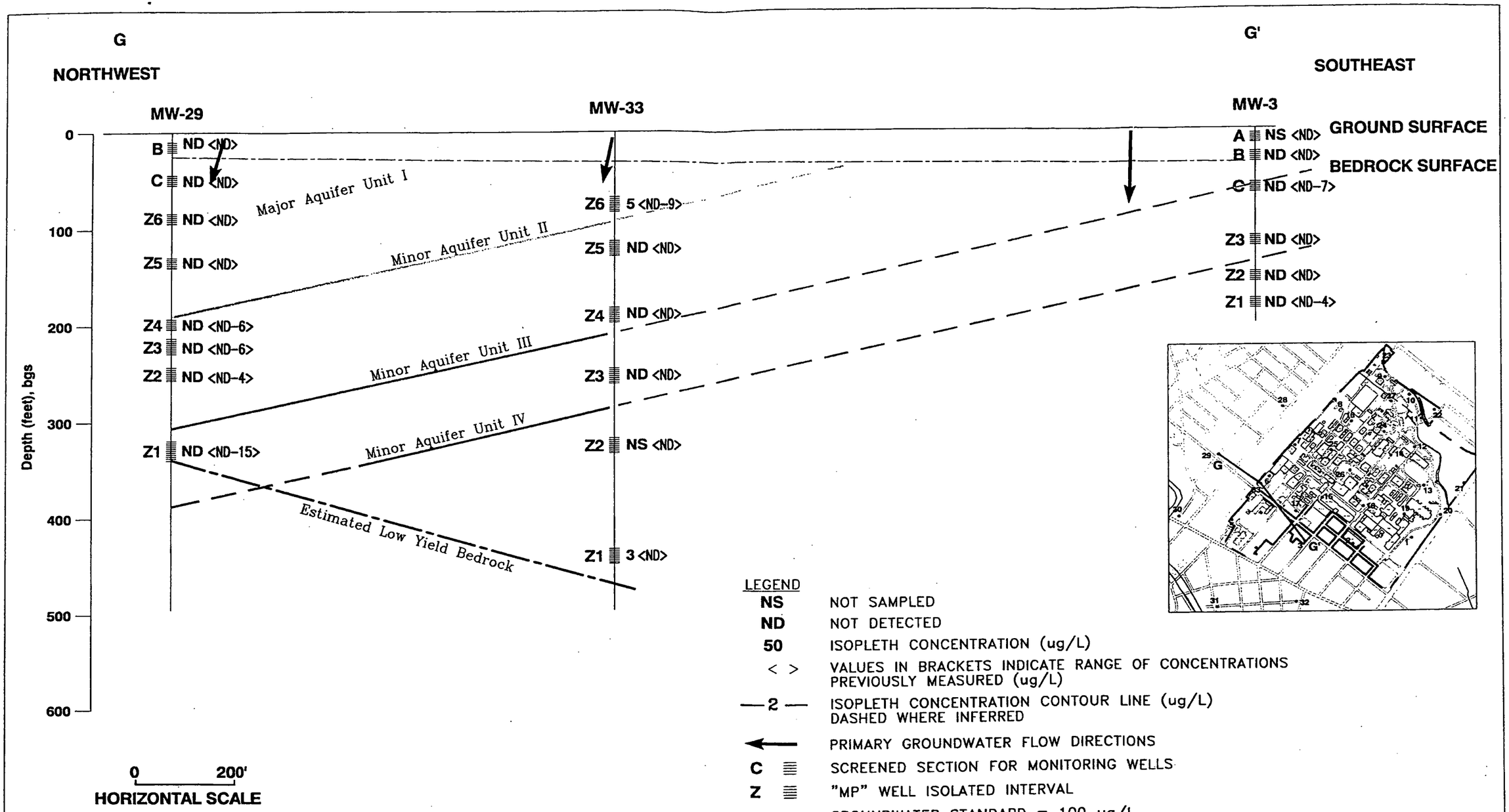
NS	NOT SAMPLED
ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C ≡	SCREENED SECTION FOR MONITORING WELLS
Z ≡	"MP" WELL ISOLATED INTERVAL
	GROUNDWATER STANDARD = 1 ug/L

PREPARED BY: URS Dames & Moore

A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS
RAHWAY PLANT
RAHWAY, NEW JERSEY

ISOPLETH MAP OF TRICHLOROETHENE
COCs IN GROUNDWATER
CROSS-SECTION G-G'

AUTHOR:	SCALE:	DATE:	REV.
CB	SEE ABOVE	01/01	0



LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C ≡	SCREENED SECTION FOR MONITORING WELLS
Z ≡	"MP" WELL ISOLATED INTERVAL

GROUNDWATER STANDARD = 100 ug/L

PREPARED BY: URS Dames & Moore	A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS RAHWAY PLANT RAHWAY, NEW JERSEY		ISOPLETH MAP OF TETRAHYDROFURAN COCs IN GROUNDWATER CROSS-SECTION G-G'
AUTHOR: CB	SCALE: SEE ABOVE	DATE: 01/01	REV. 0

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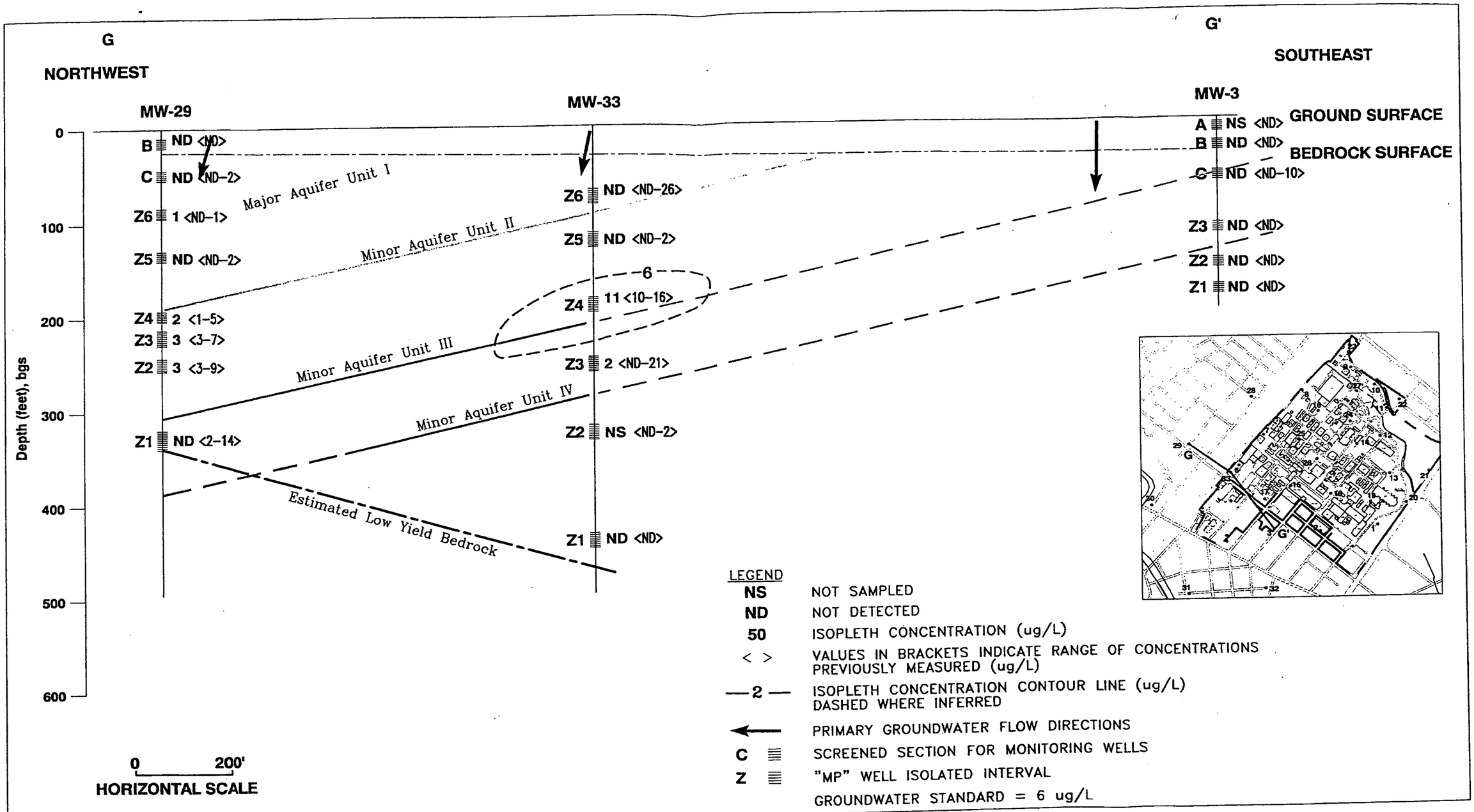

PREPARED BY: URS Dames & Moore	A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS RAHWAY PLANT RAHWAY, NEW JERSEY		ISOPLETH MAP OF CHLOROFORM COCs IN GROUNDWATER CROSS-SECTION G-G'
AUTHOR: CB	SCALE: SEE ABOVE	DATE: 01/01	REV. 0

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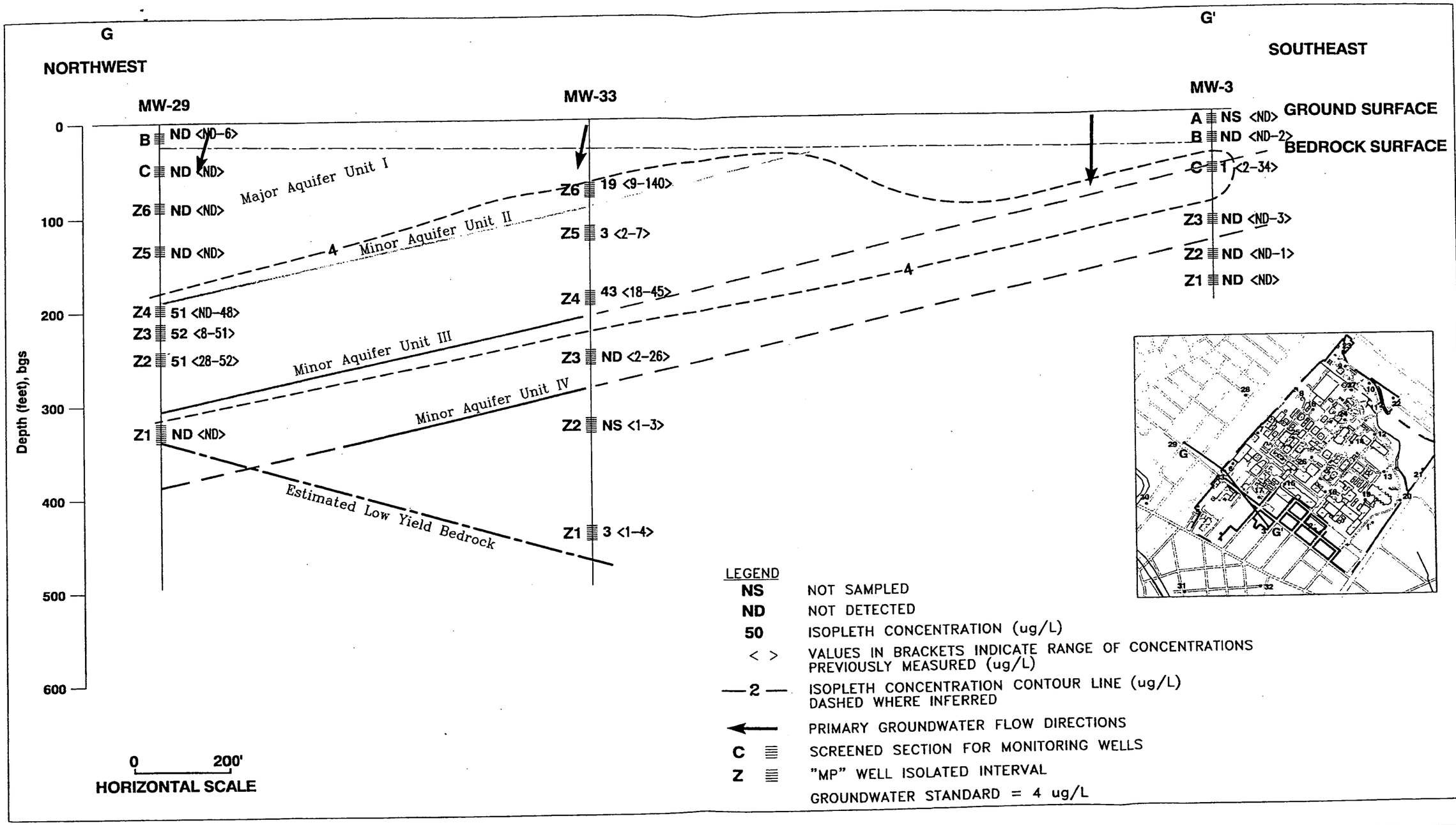

LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C ≡	SCREENED SECTION FOR MONITORING WELLS
Z ≡	"MP" WELL ISOLATED INTERVAL
	GROUNDWATER STANDARD = 4 ug/L

PREPARED BY: URS Dames & Moore

A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS
RAHWAY PLANT
RAHWAY, NEW JERSEY

ISOPLETH MAP OF CHLOROBENZENE
COCs IN GROUNDWATER
CROSS-SECTION G-G'

AUTHOR:	SCALE:	DATE:	REV.
CB	SEE ABOVE	01/01	0

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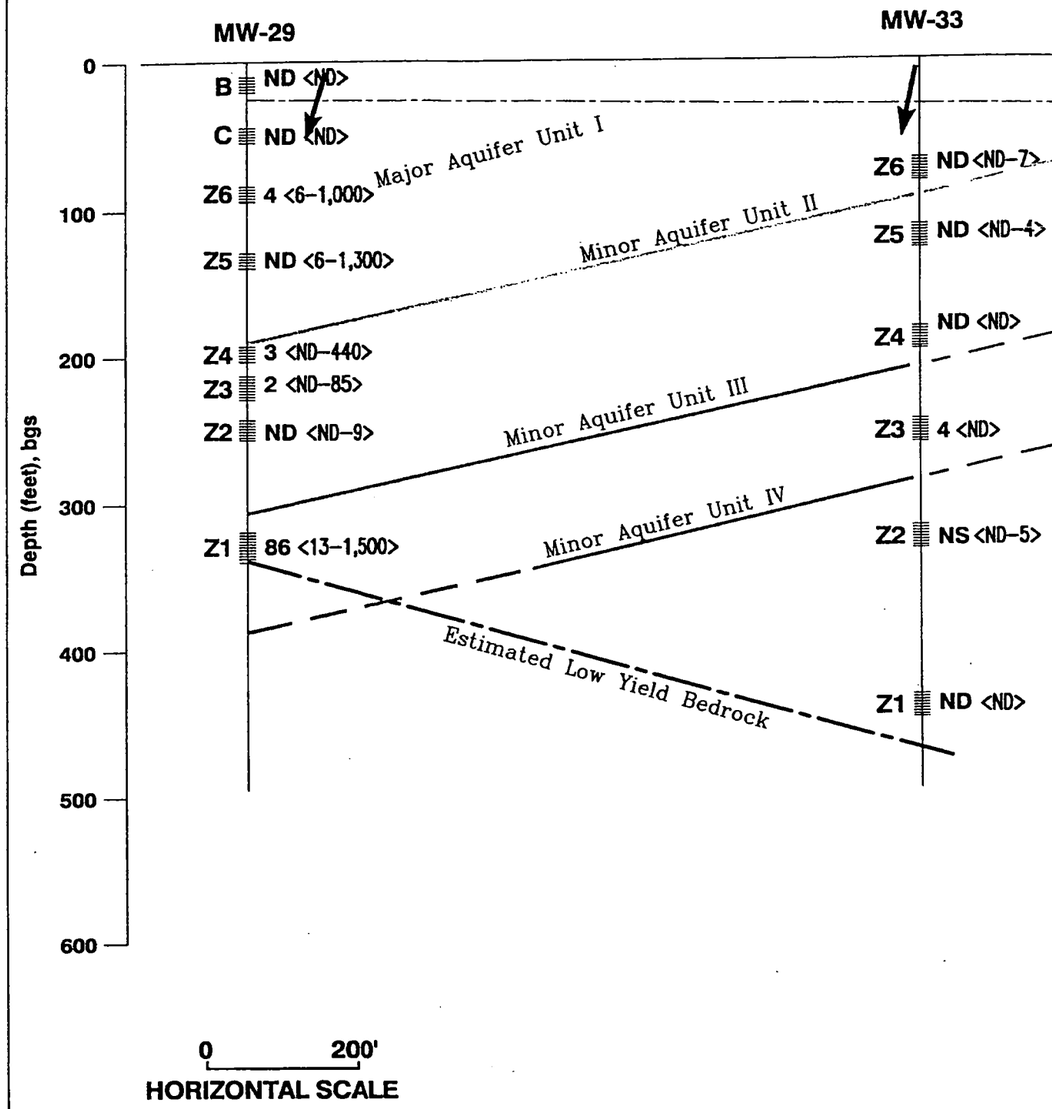
G

NORTHWEST

G'

SOUTHEAST



LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C ≡	SCREENED SECTION FOR MONITORING WELLS
Z ≡	"MP" WELL ISOLATED INTERVAL
	GROUNDWATER STANDARD = 700 ug/L

PREPARED BY: URS Dames & Moore

AUTHOR: CB

A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS
RAHWAY PLANT
RAHWAY, NEW JERSEY

SCALE: SEE ABOVE

DATE: 01/01

REV. 0

ISOPLETH MAP OF CARBON DISULFIDE COCs IN GROUNDWATER CROSS-SECTION G-G'

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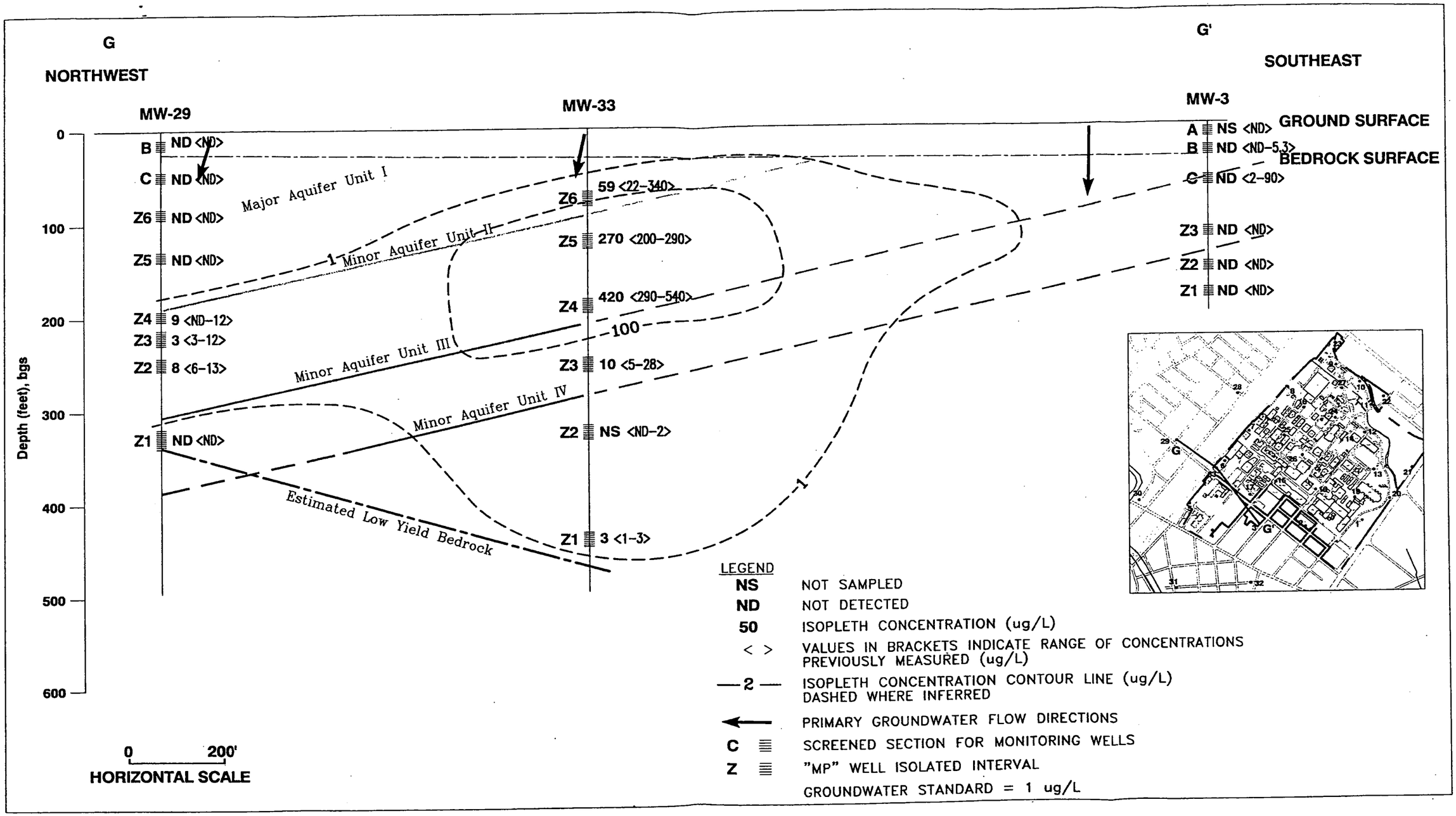

PREPARED BY: URS Dames & Moore	A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS RAHWAY PLANT RAHWAY, NEW JERSEY			ISOPLETH MAP OF BENZENE COCs IN GROUNDWATER CROSS-SECTION G-G'
AUTHOR: CB	SCALE: SEE ABOVE	DATE: 01/01	REV. 0	

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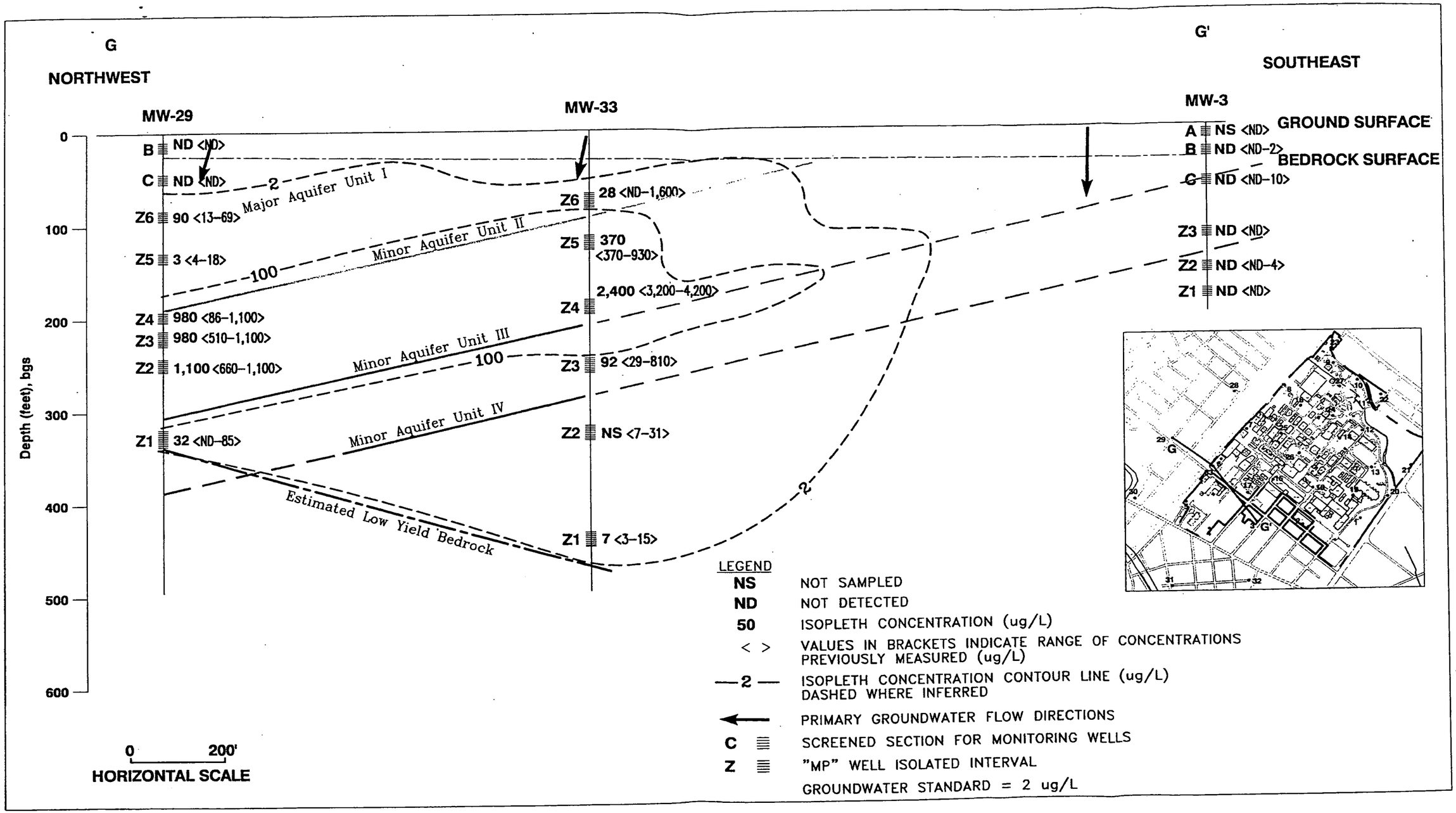

	PREPARED BY: URS Dames & Moore	A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS RAHWAY PLANT RAHWAY, NEW JERSEY		ISOPLETH MAP OF 1,2 DICHLOROETHANE COCs IN GROUNDWATER CROSS-SECTION G-G'
	AUTHOR: CB	SCALE: SEE ABOVE	DATE: 01/01	REV. 0

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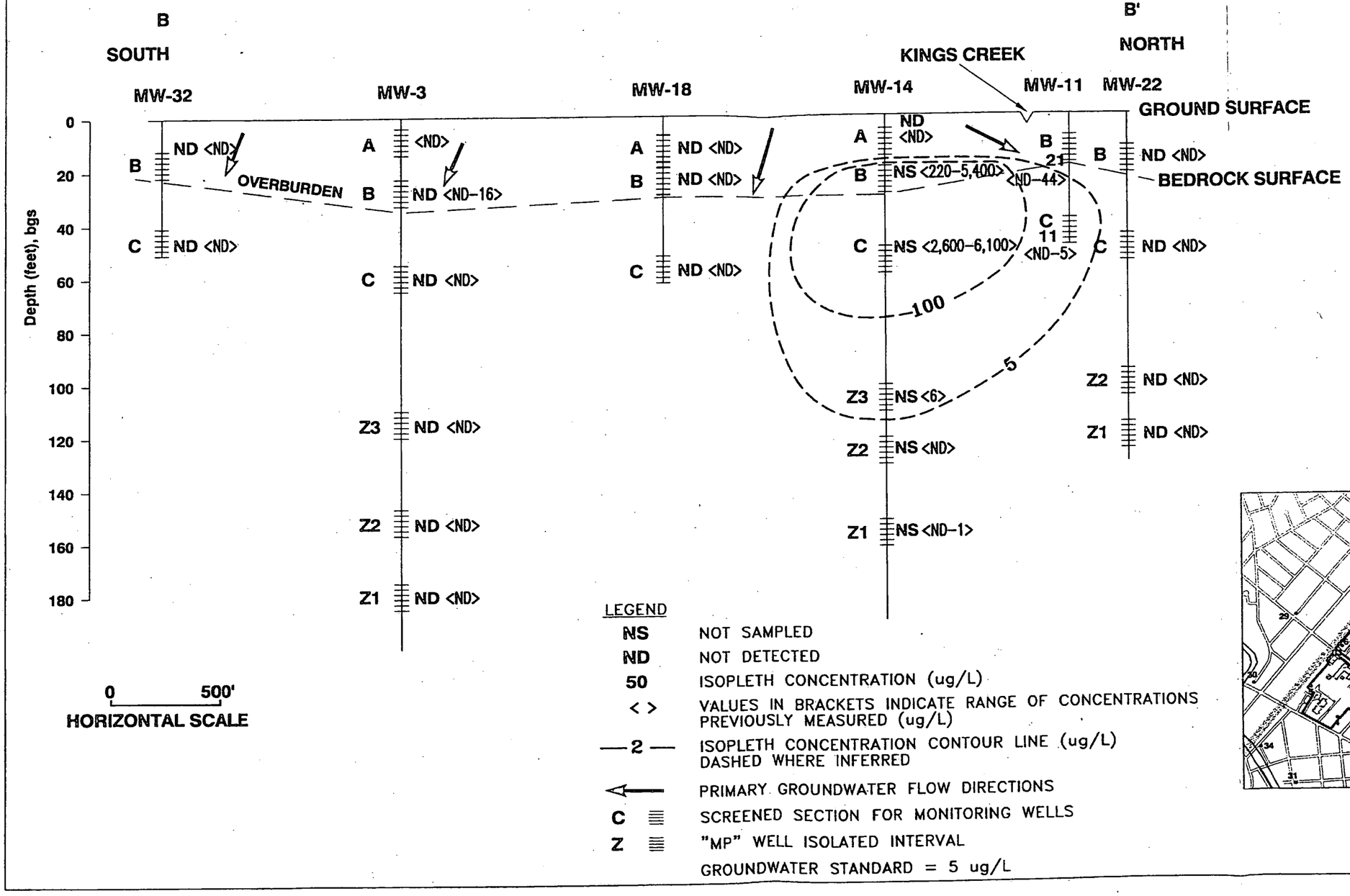

PREPARED BY: URS Dames & Moore	A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS RAHWAY PLANT RAHWAY, NEW JERSEY			ISOPLETH MAP OF VINYL CHLORIDE COCs IN GROUNDWATER CROSS-SECTION B-B'
AUTHOR: CB	SCALE: SEE ABOVE	DATE: 01/01	REV. 0	

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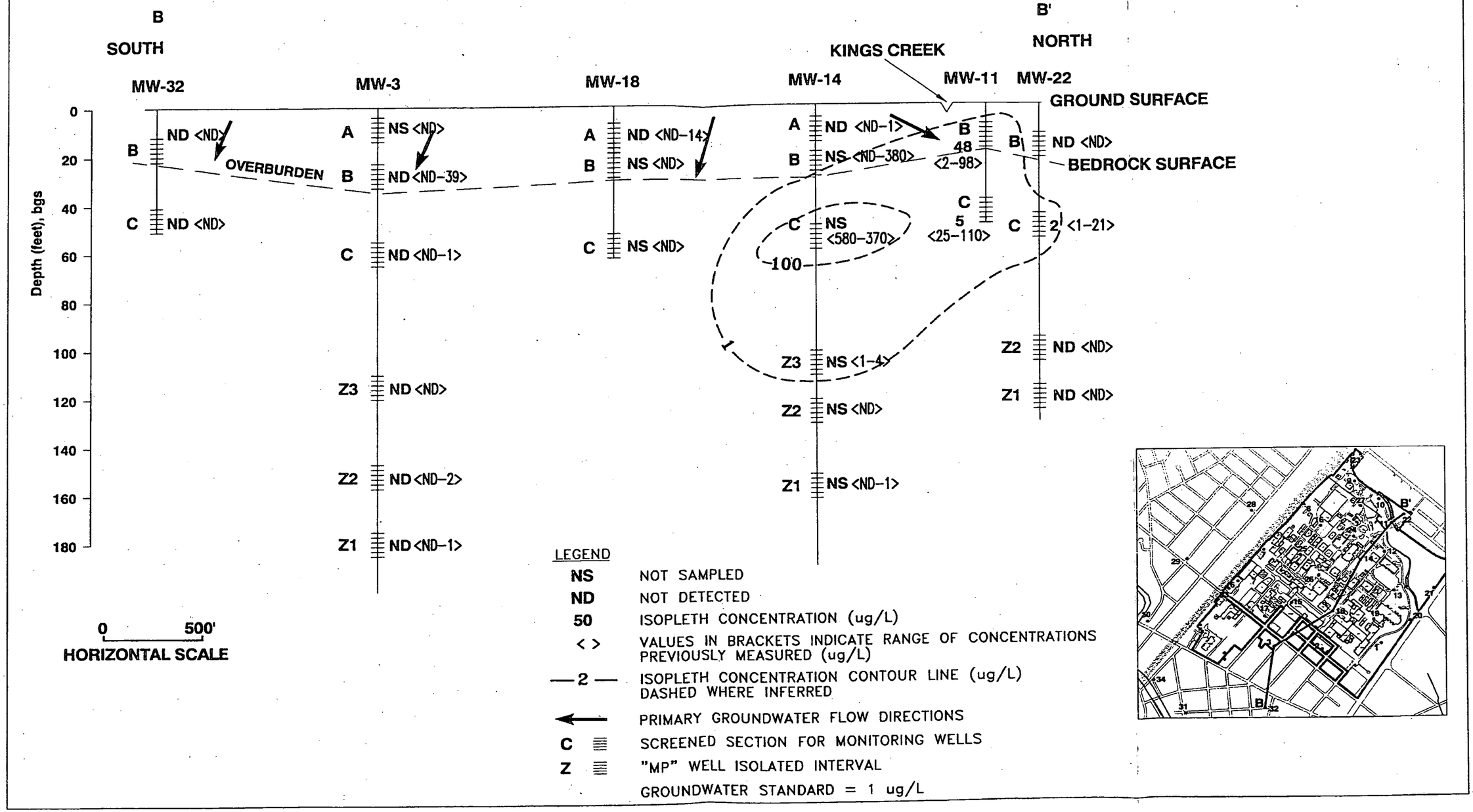

PREPARED BY: URS Dames & Moore	A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS RAHWAY PLANT RAHWAY, NEW JERSEY			ISOPLETH MAP OF TRICHLOROETHENE COCs IN GROUNDWATER CROSS-SECTION B-B'
AUTHOR: CB	SCALE: SEE ABOVE	DATE: 01/01	REV. 0	

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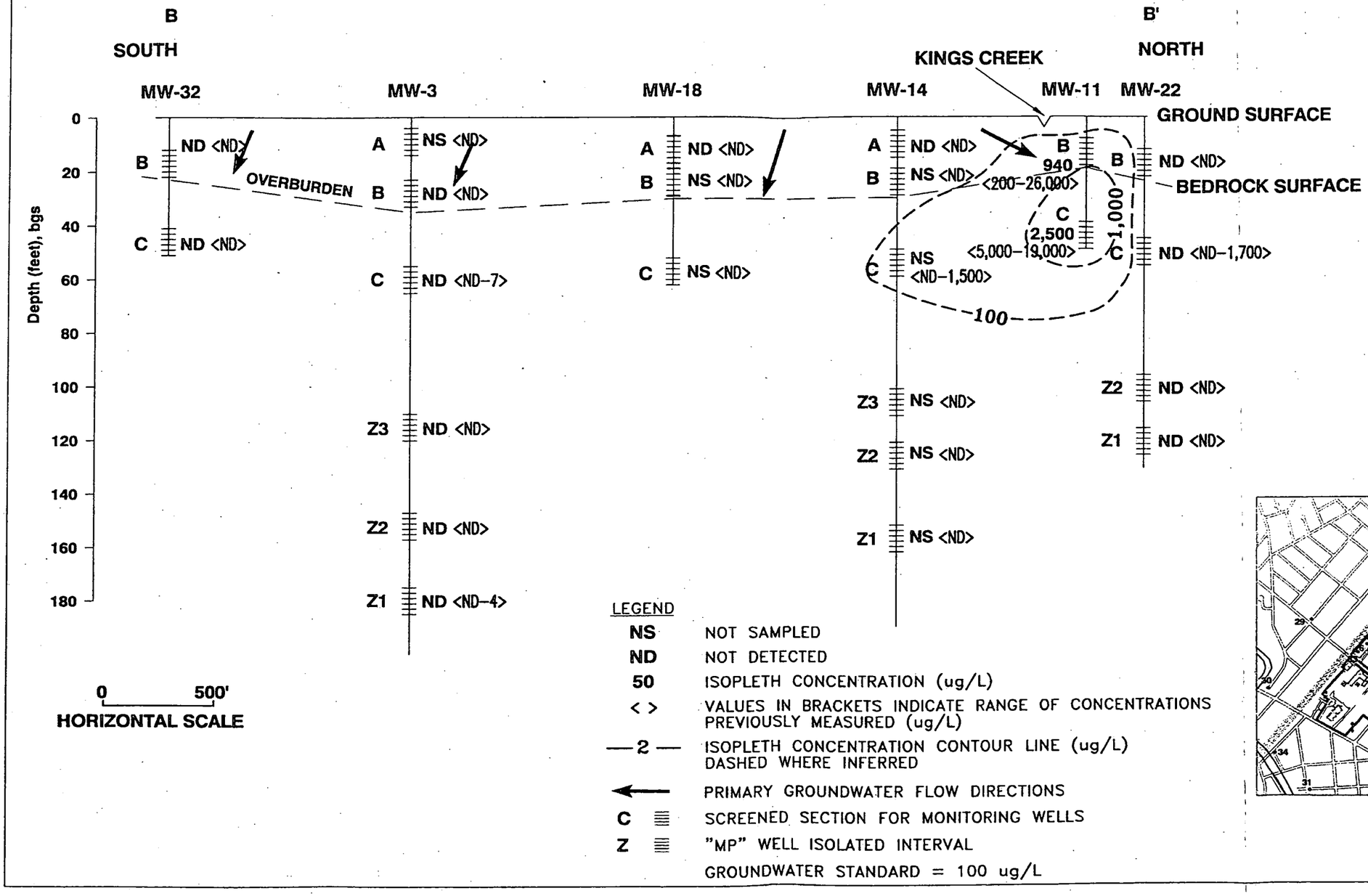

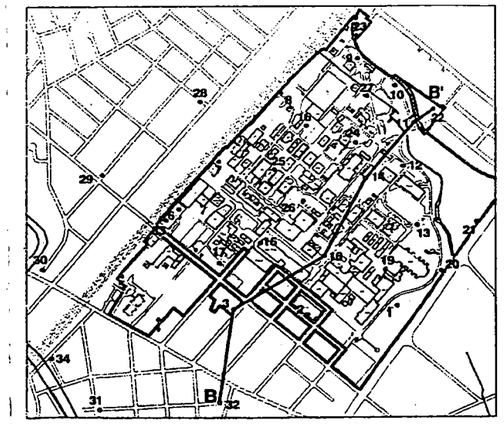

PREPARED BY: URS Dames & Moore	A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS RAHWAY PLANT RAHWAY, NEW JERSEY		ISOPLETH MAP OF TETRAHYDROFURAN COCs IN GROUNDWATER CROSS-SECTION B-B'
AUTHOR: CB	SCALE: SEE ABOVE	DATE: 01/01	REV. 0

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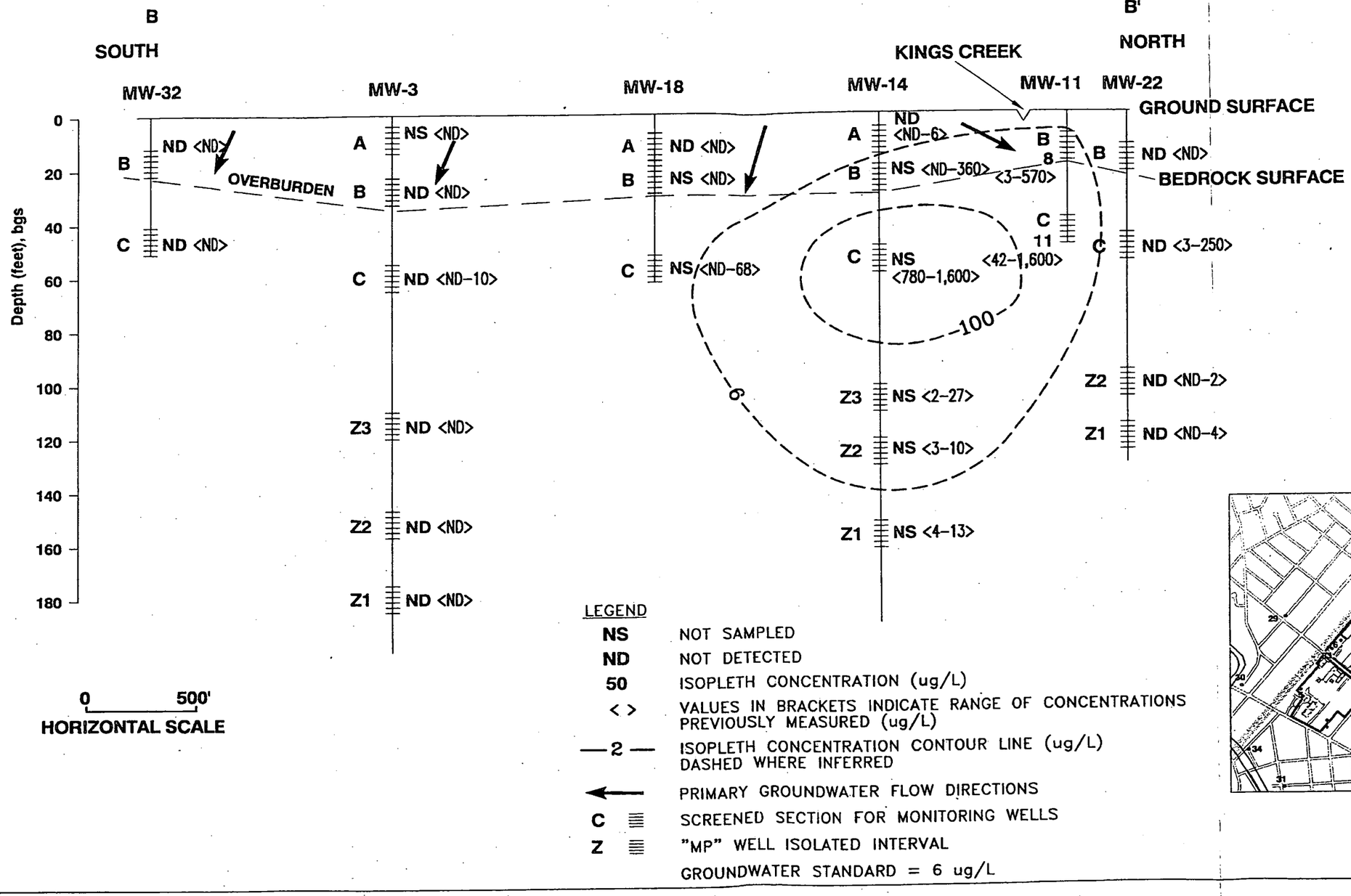
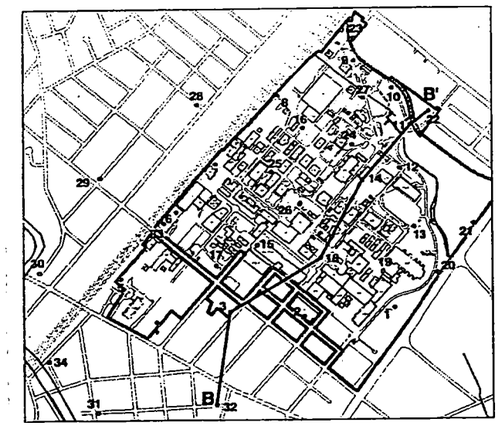


LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C	SCREENED SECTION FOR MONITORING WELLS
Z	"MP" WELL ISOLATED INTERVAL
	GROUNDWATER STANDARD = 6 ug/L



PREPARED BY: URS Dames & Moore	A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS RAHWAY PLANT RAHWAY, NEW JERSEY		ISOPLETH MAP OF CHLOROFORM COCs IN GROUNDWATER CROSS-SECTION B-B'
AUTHOR: CB	SCALE: SEE ABOVE	DATE: 01/01	REV. 0

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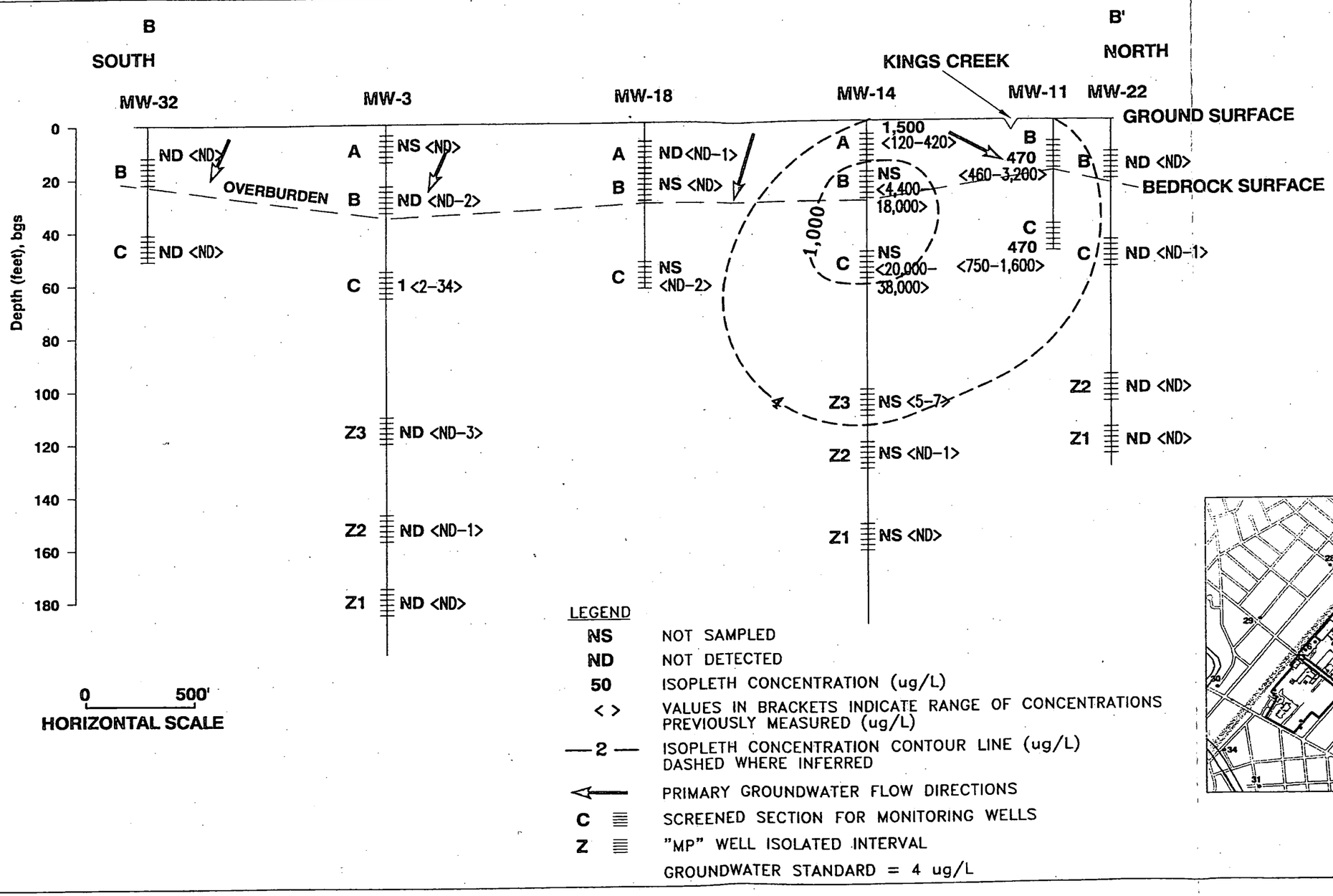
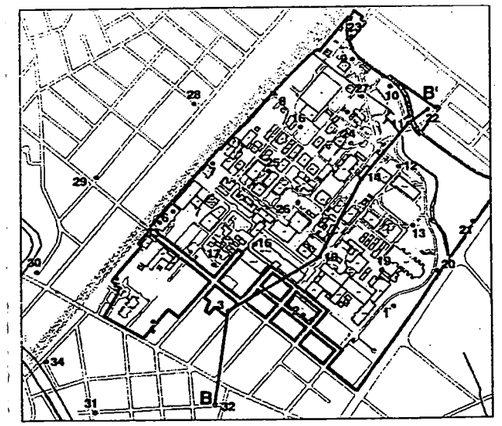


LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C	SCREENED SECTION FOR MONITORING WELLS
Z	"MP" WELL ISOLATED INTERVAL

GROUNDWATER STANDARD = 4 ug/L



PREPARED BY: URS Dames & Moore

A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS
RAHWAY PLANT
RAHWAY, NEW JERSEY

ISOPLETH MAP OF CHLOROBENZENE
COCs IN GROUNDWATER
CROSS-SECTION B-B'

AUTHOR:	SCALE:	DATE:	REV.
CB	SEE ABOVE	01/01	0

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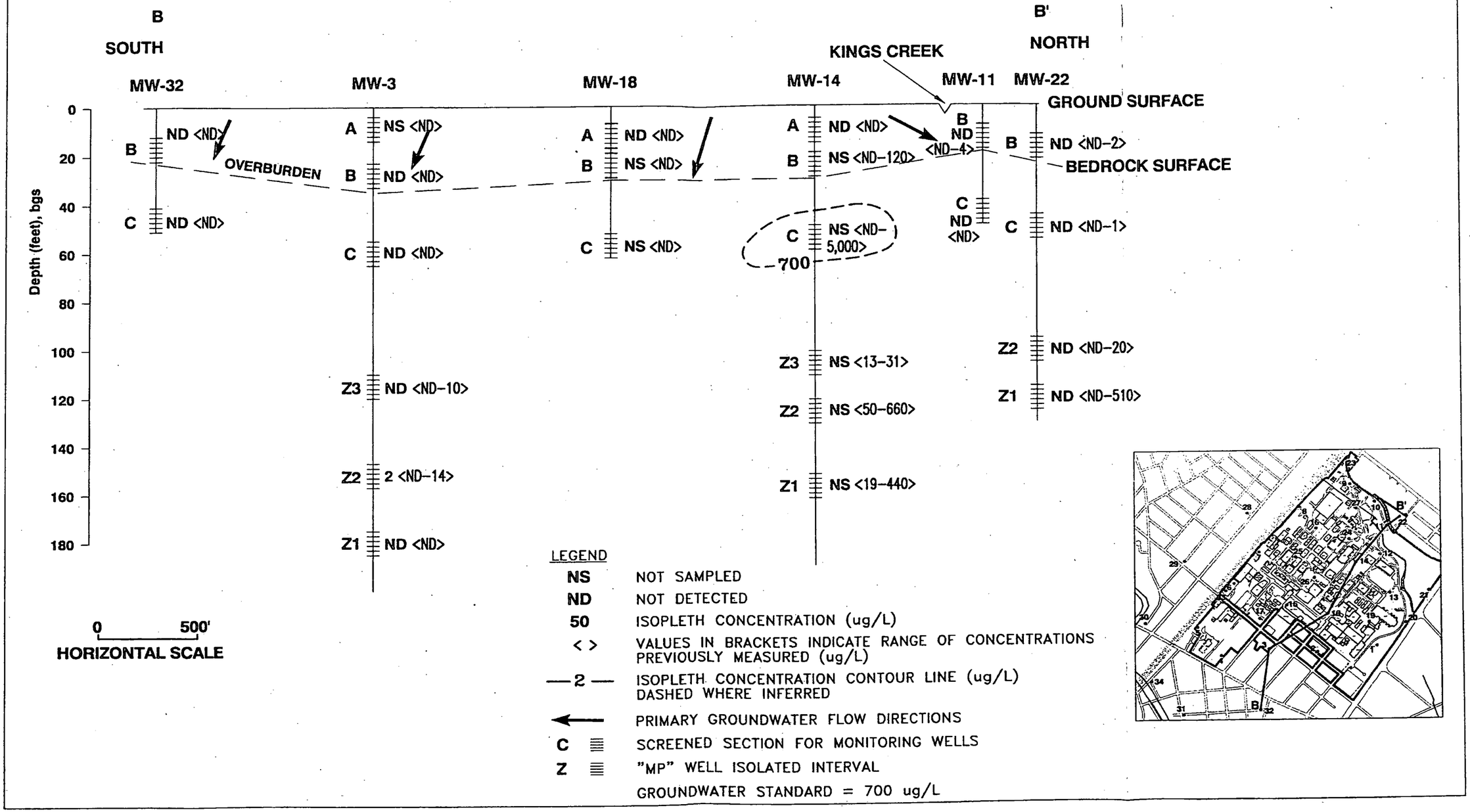

PREPARED BY: URS Dames & Moore	A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS RAHWAY PLANT RAHWAY, NEW JERSEY			ISOPLETH MAP OF CARBON DISULFIDE COCs IN GROUNDWATER CROSS-SECTION B-B'
AUTHOR: CB	SCALE: SEE ABOVE	DATE: 01/01	REV. 0	

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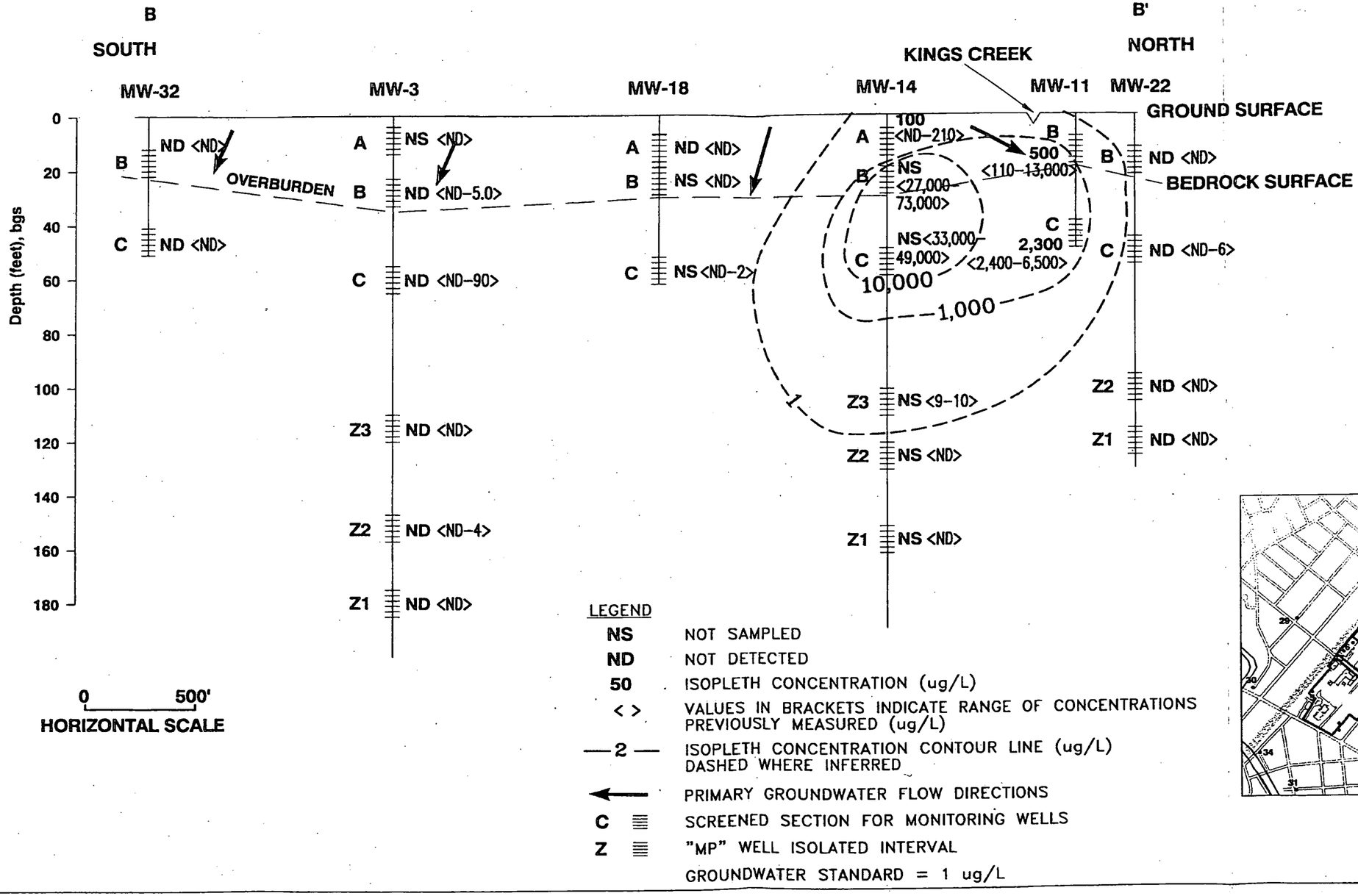

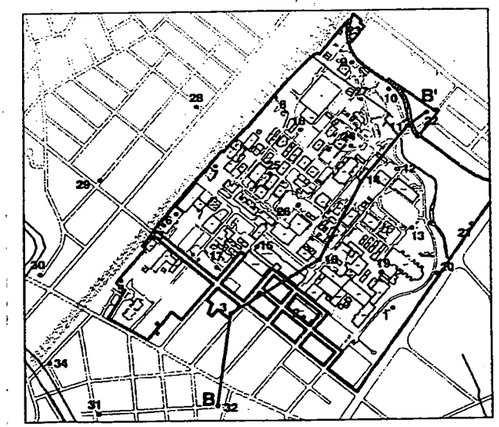

PREPARED BY: URS Dames & Moore	A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS RAHWAY PLANT RAHWAY, NEW JERSEY			ISOPLETH MAP OF BENZENE COCs IN GROUNDWATER CROSS-SECTION B-B'
AUTHOR: CB	SCALE: SEE ABOVE	DATE: 01/01	REV. 0	

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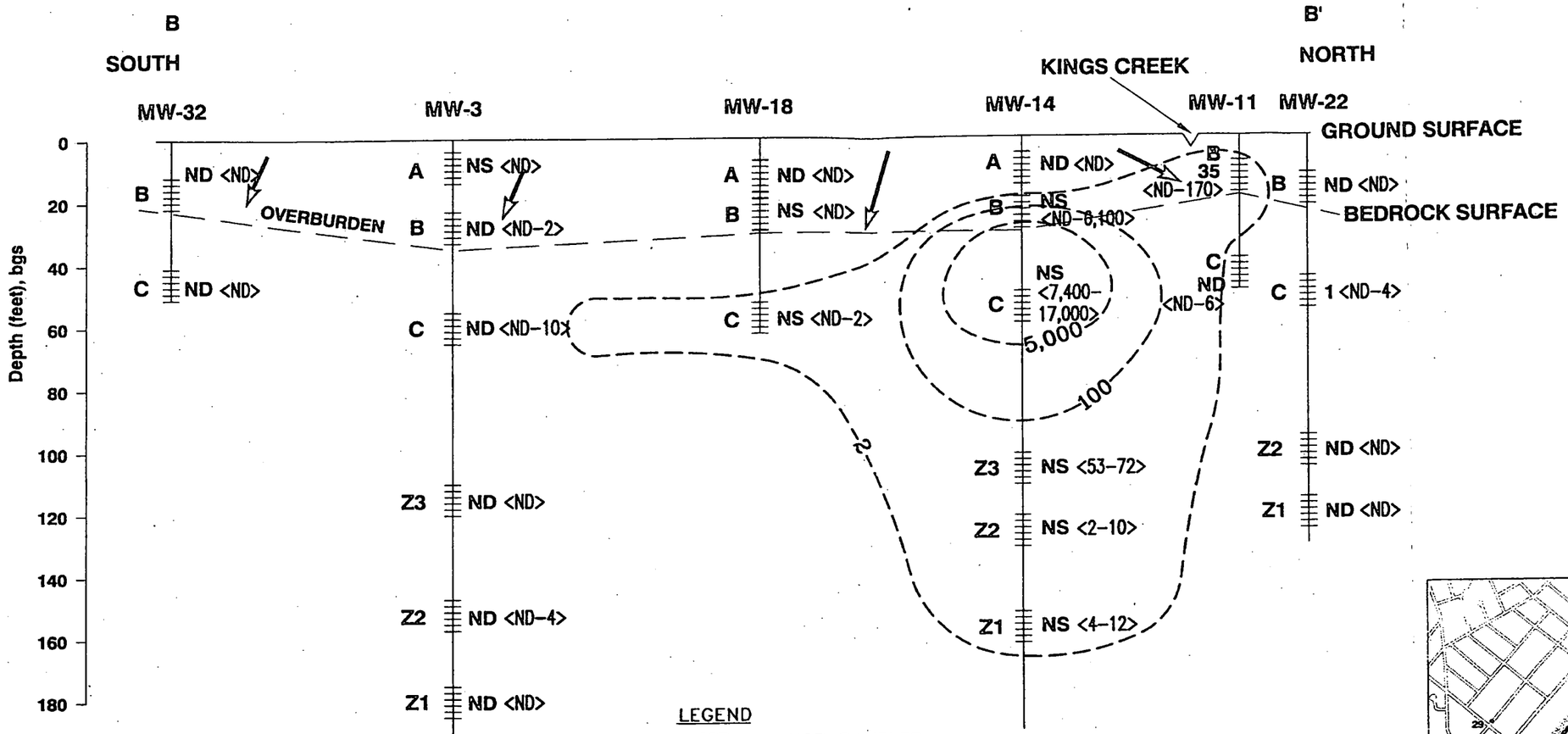
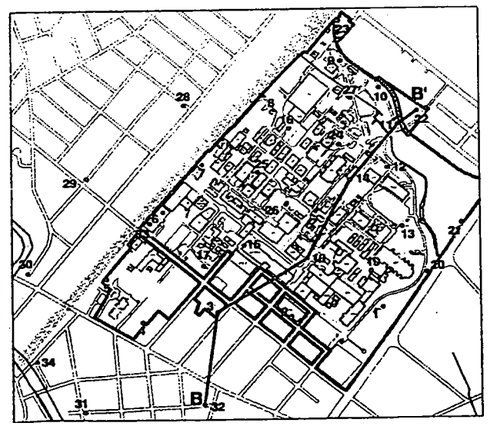


0 500'
HORIZONTAL SCALE

LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
⟵	PRIMARY GROUNDWATER FLOW DIRECTIONS
C ≡	SCREENED SECTION FOR MONITORING WELLS
Z ≡	"MP" WELL ISOLATED INTERVAL
	GROUNDWATER STANDARD = 2 ug/L



PREPARED BY: URS Dames & Moore

A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS
RAHWAY PLANT
RAHWAY, NEW JERSEY

ISOPLETH MAP OF 1,2 DICHLOROETHANE
COCs IN GROUNDWATER
CROSS-SECTION B-B'

AUTHOR:	SCALE:	DATE:	REV.
CB	SEE ABOVE	01/01	0

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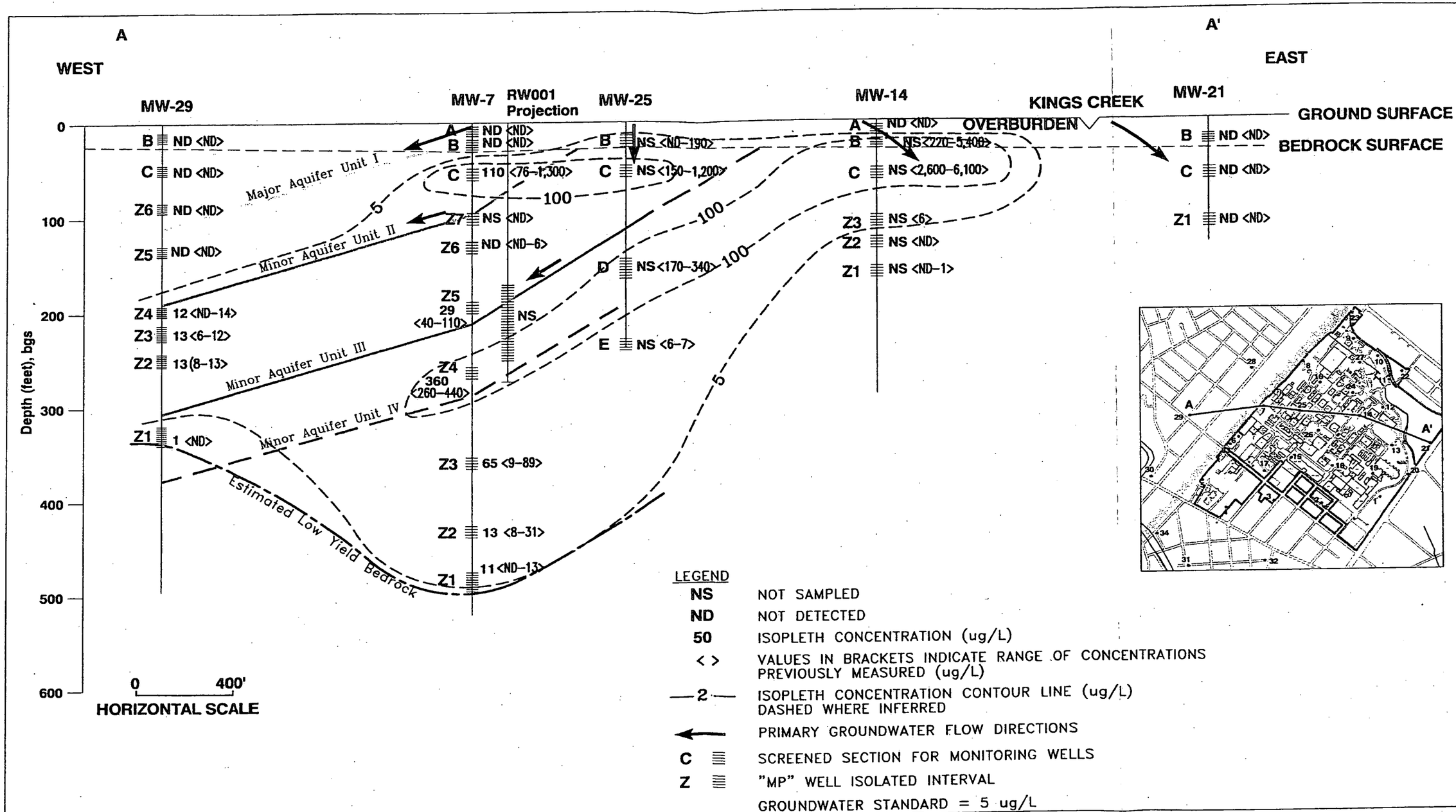

LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C ≡	SCREENED SECTION FOR MONITORING WELLS
Z ≡	"MP" WELL ISOLATED INTERVAL
	GROUNDWATER STANDARD = 5 ug/L

PREPARED BY: URS Dames & Moore	A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS RAHWAY PLANT RAHWAY, NEW JERSEY		ISOPLETH MAP OF VINYL CHLORIDE COCs IN GROUNDWATER CROSS-SECTION A-A'
AUTHOR: CB	SCALE: SEE ABOVE	DATE: 01/01	REV. 0

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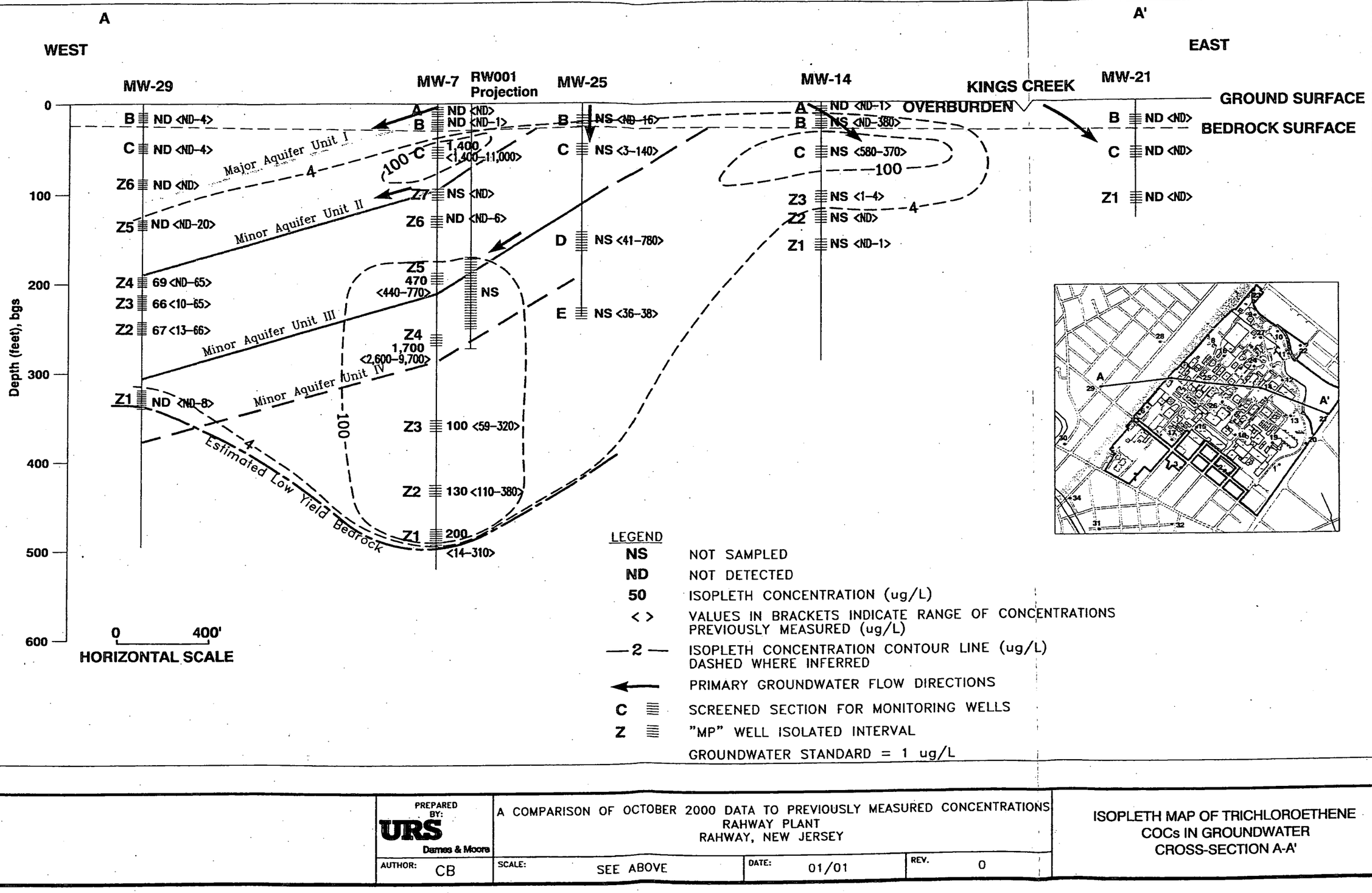

LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
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< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C ≡	SCREENED SECTION FOR MONITORING WELLS
Z ≡	"MP" WELL ISOLATED INTERVAL
	GROUNDWATER STANDARD = 1 ug/L

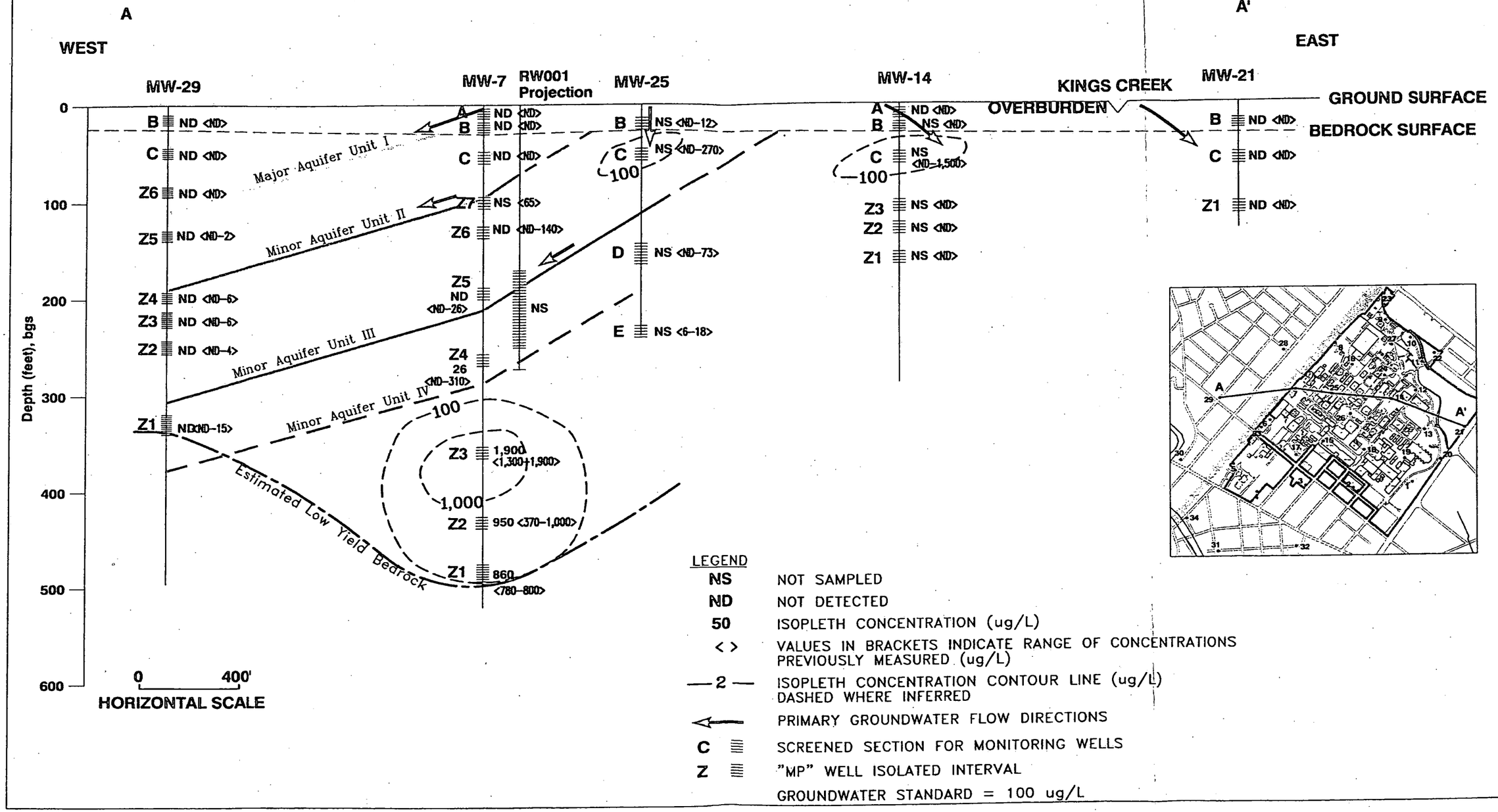
PREPARED BY: URS Dames & Moore

A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS
RAHWAY PLANT
RAHWAY, NEW JERSEY

AUTHOR:	SCALE:	DATE:	REV.
CB	SEE ABOVE	01/01	0

ISOPLETH MAP OF TRICHLOROETHENE
COCs IN GROUNDWATER
CROSS-SECTION A-A'

P:\02492 Merck\147-Rahway\Oct 2000 IGMR\graphics\APPENDIXA-THF.DWG Layout1 01/18/2001 02:01:09 PM kdembin Tektronix Phaser 780 17x11.pc3 1:1



LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
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< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C ≡	SCREENED SECTION FOR MONITORING WELLS
Z ≡	"MP" WELL ISOLATED INTERVAL
	GROUNDWATER STANDARD = 100 ug/L

PREPARED BY: URS Dames & Moore	A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS RAHWAY PLANT RAHWAY, NEW JERSEY			ISOPLETH MAP OF TETRAHYDROFURAN COCs IN GROUNDWATER CROSS-SECTION A-A'
AUTHOR: CB	SCALE: SEE ABOVE	DATE: 01/01	REV. 0	

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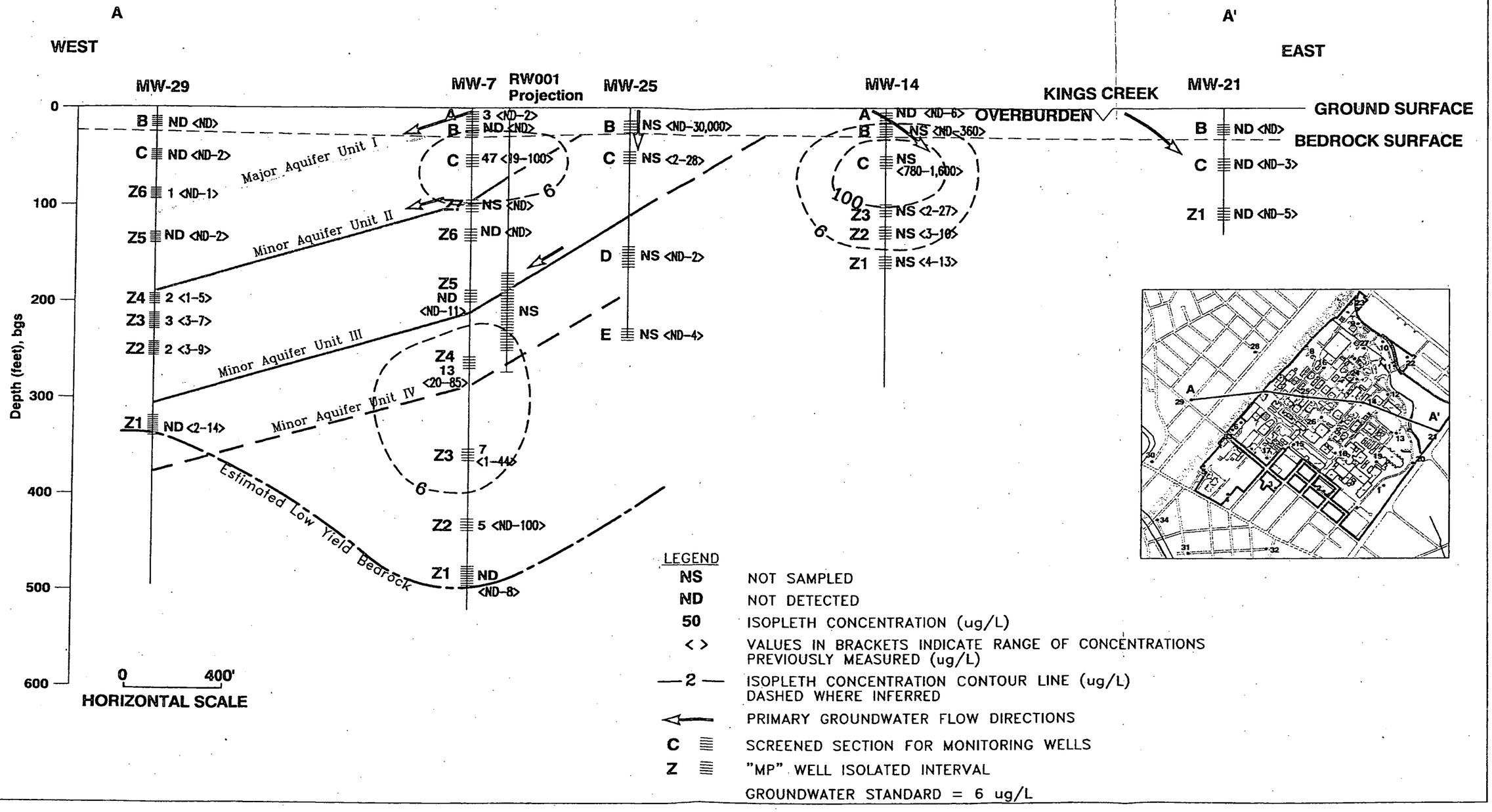

LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
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< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C	SCREENED SECTION FOR MONITORING WELLS
Z	"MP" WELL ISOLATED INTERVAL
	GROUNDWATER STANDARD = 6 ug/L

PREPARED BY: URS Dames & Moore	A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS RAHWAY PLANT RAHWAY, NEW JERSEY			ISOPLETH MAP OF CHLOROFORM COCs IN GROUNDWATER CROSS-SECTION A-A'
AUTHOR: CB	SCALE: SEE ABOVE	DATE: 01/01	REV. 0	

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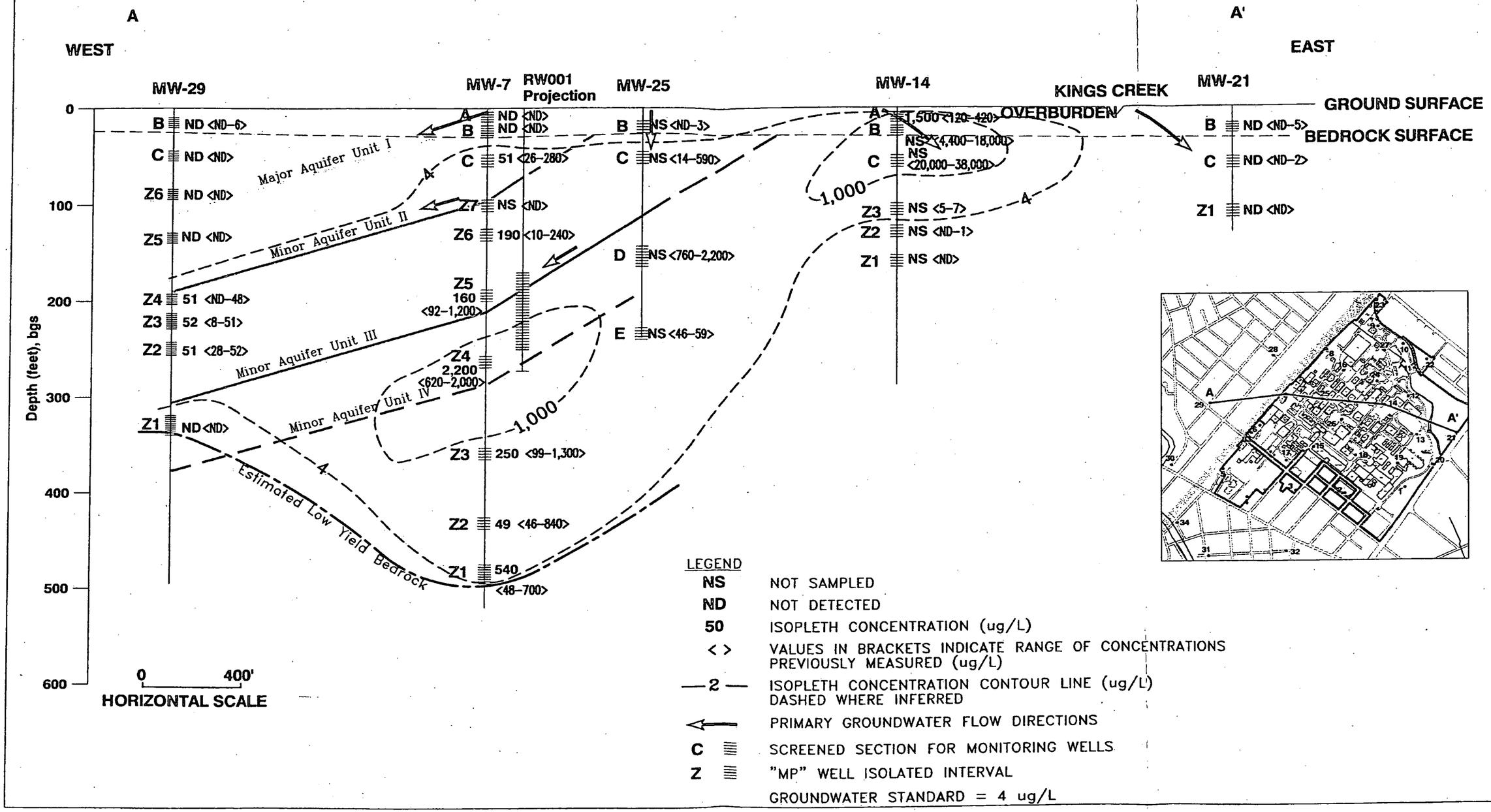

LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
⟵	PRIMARY GROUNDWATER FLOW DIRECTIONS
C ≣	SCREENED SECTION FOR MONITORING WELLS
Z ≣	"MP" WELL ISOLATED INTERVAL
	GROUNDWATER STANDARD = 4 ug/L

PREPARED BY: URS Dames & Moore

A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS
RAHWAY PLANT
RAHWAY, NEW JERSEY

ISOPLETH MAP OF CHLOROBENZENE COCs IN GROUNDWATER CROSS-SECTION A-A'

AUTHOR:	SCALE:	DATE:	REV.
CB	SEE ABOVE	01/01	0

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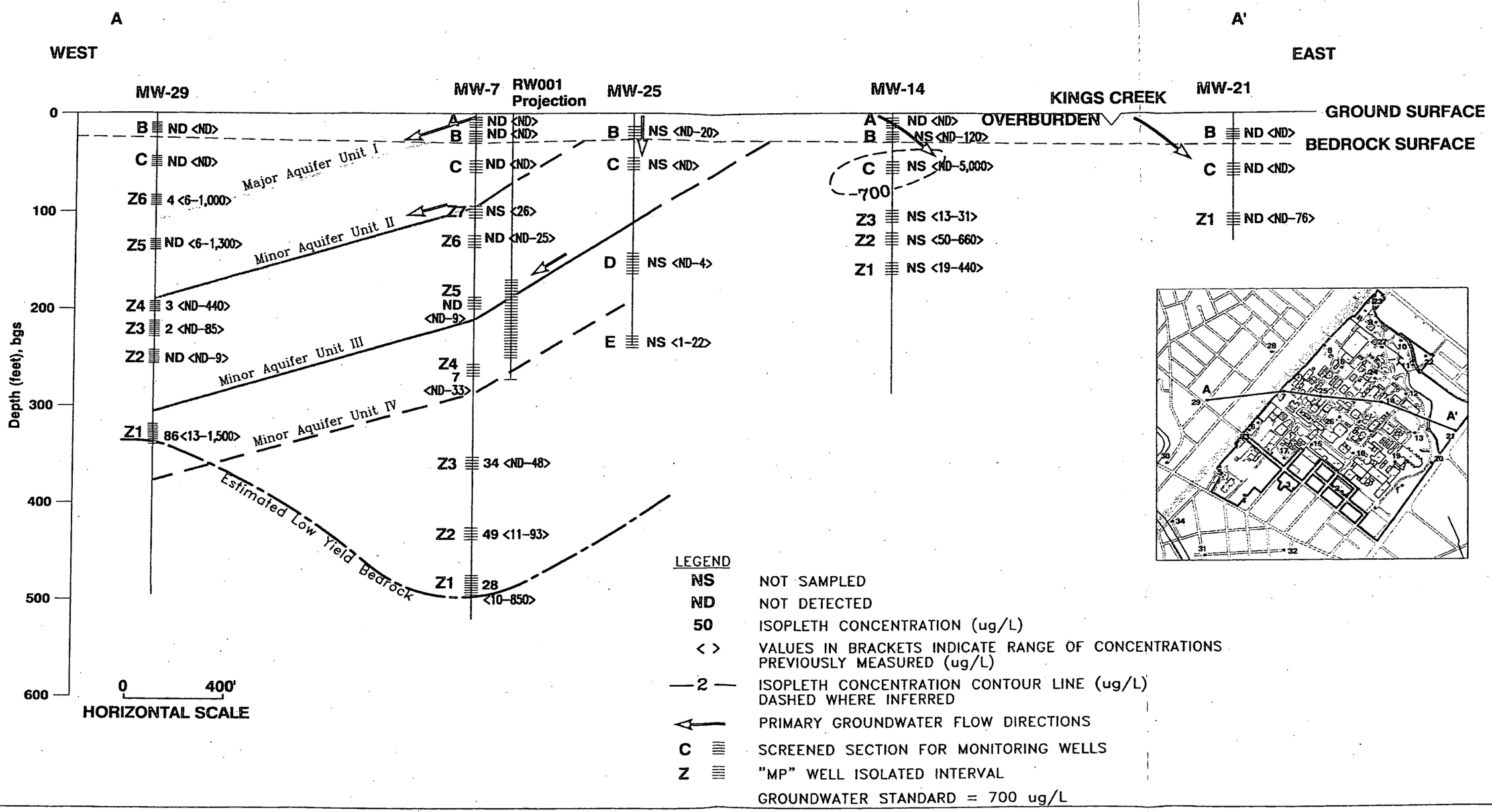

LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C ≡	SCREENED SECTION FOR MONITORING WELLS
Z ≡	"MP" WELL ISOLATED INTERVAL
	GROUNDWATER STANDARD = 700 ug/L

PREPARED BY: URS Dames & Moore

A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS
RAHWAY PLANT
RAHWAY, NEW JERSEY

ISOPLETH MAP OF CARBON DISULFIDE
COCs IN GROUNDWATER
CROSS-SECTION A-A'

AUTHOR:	SCALE:	DATE:	REV.
CB	SEE ABOVE	01/01	0

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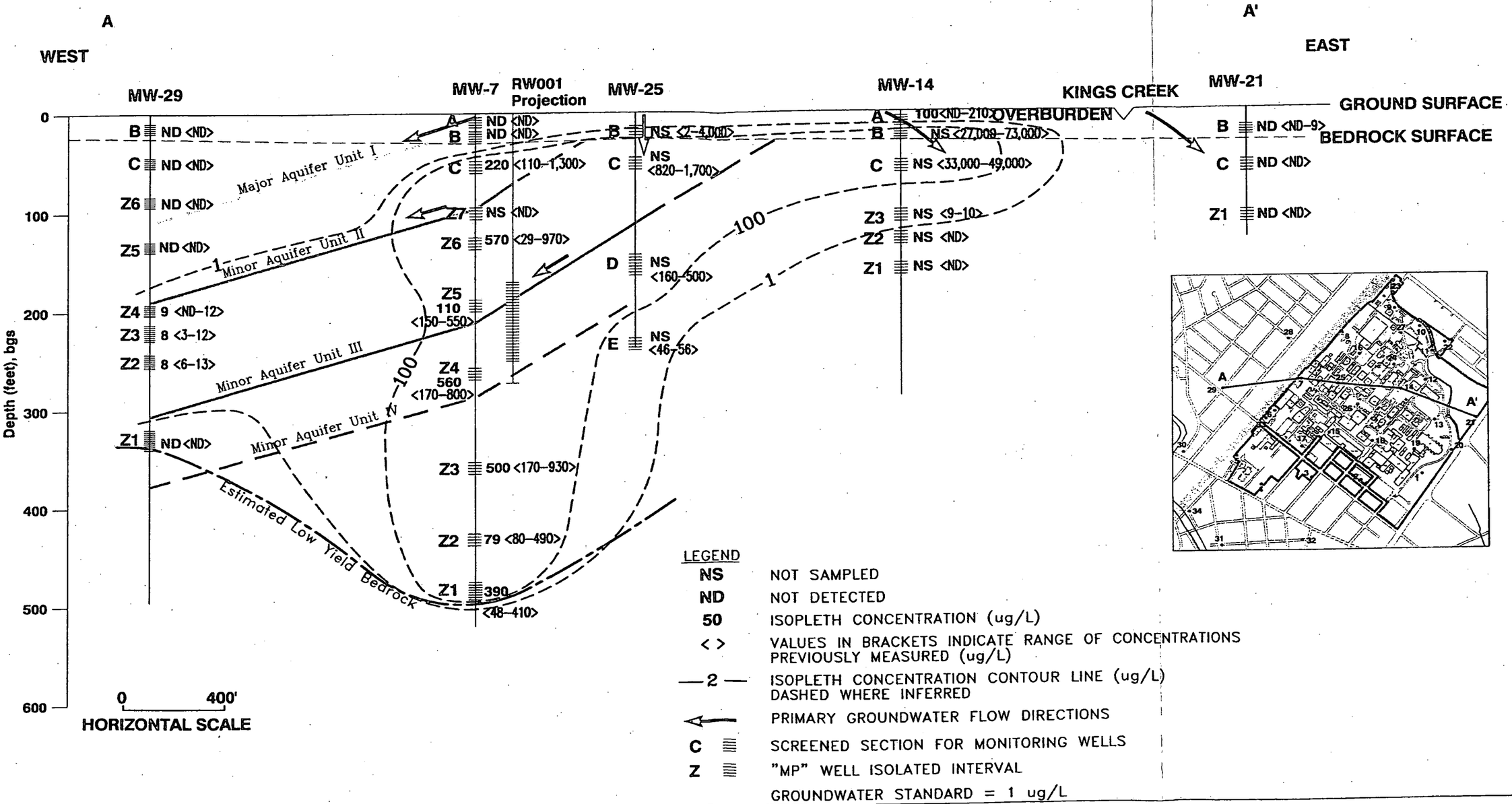


LEGEND

NS	NOT SAMPLED
ND	NOT DETECTED
50	ISOPLETH CONCENTRATION (ug/L)
< >	VALUES IN BRACKETS INDICATE RANGE OF CONCENTRATIONS PREVIOUSLY MEASURED (ug/L)
—2—	ISOPLETH CONCENTRATION CONTOUR LINE (ug/L) DASHED WHERE INFERRED
←	PRIMARY GROUNDWATER FLOW DIRECTIONS
C ≡	SCREENED SECTION FOR MONITORING WELLS
Z ≡	"MP" WELL ISOLATED INTERVAL
	GROUNDWATER STANDARD = 1 ug/L

PREPARED BY: URS Dames & Moore

A COMPARISON OF OCTOBER 2000 DATA TO PREVIOUSLY MEASURED CONCENTRATIONS
RAHWAY PLANT
RAHWAY, NEW JERSEY

AUTHOR: CB | SCALE: SEE ABOVE | DATE: 01/01 | REV. 0

ISOPLETH MAP OF BENZENE
COCs IN GROUNDWATER
CROSS-SECTION A-A'

SAFETY KLEEN IMPACT TO GROUNDWATER INFORMATION

APPENDIX L

Table 2
Groundwater Sampling Results - July 1999
Volatile Organic Compounds
NJPDES/DGW Permit No. NJ0002224
Safety-Kleen Corporation
Lindedn Recycle Center
Lindedn, New Jersey

SAMPLE LOCATION	MW-1S	MW-1D	MW-2S	MW-2D	MW-3S	MW-3D	MW-4S	MW-4D	MW-5S	MW-5D	MW-6S	MW-6D	MW-7S	MW-7D	MW-8S	MW-8D	FIELD BLANK	FIELD BLANK
SAMPLE DATE	7/21/99	7/21/99	7/22/99	7/22/99	7/21/99	7/21/99	7/22/99	7/22/99	7/21/99	7/21/99	7/22/99	7/22/99	7/22/99	7/22/99	7/21/99	7/21/99	7/21/99	7/22/99
SAMPLED INTERVAL (FEET)	3.0-13.0	29.3-49.5	3.0-13.0	29.7-48.8	3.0-13.0	53.1-69.8	4.0-14.0	26.0-48.8	3.0-13.0	33.0-48.2	10.0-20.0	35.3-55.2	6.0-16.0	33.3-49.5	12.0-22.0	31.8-48.5	—	—
VOLATILES (mg/l)																		
Acetone	ND	ND	15.00 J	3.000	ND	ND	ND	0.580 J	ND	ND	0.004 J	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	ND	0.680	ND	0.014 J	ND	0.180 J	ND	ND	ND	0.280 J	ND	0.150 J	0.076	0.074 J	ND	ND
2-Butanone	ND	ND	38.00	3.800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	ND	0.002 J	ND	0.670	ND	0.150	0.270	8.000	9.300	0.120	0.002 J	2.800	ND	3.000	0.390	2.100	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.038 J	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	0.008	ND	ND	0.011	ND	0.071 J	ND	ND	ND	ND	ND	ND	ND	0.150	ND	ND	ND
1,1-Dichloroethane	ND	0.011	1.700 J	ND	0.039	ND	0.048 J	0.190 J	ND	ND	0.005	ND	ND	ND	0.910	0.036 J	ND	ND
Ethylbenzene	ND	ND	4.100 J	0.550	ND	0.078	ND	0.210 J	ND	ND	ND	ND	ND	ND	0.190	ND	ND	ND
Methylene Chloride	ND	ND	14.00	0.053 J	ND	ND	ND	ND	34.00	ND	ND	ND	ND	ND	ND	0.018 J	ND	0.001 J
4-Methyl-2-pentanone	ND	ND	10.00 J	3.500	ND	ND	ND	0.660 J	ND	ND	ND	ND	ND	ND	0.960	ND	ND	ND
Toluene	ND	ND	120.0	1.300	ND	1.000	ND	2.400	0.710 J	0.012 J	ND	0.170 J	ND	ND	0.960	0.072 J	ND	ND
1,1,1-Trichloroethane	ND	0.014	6.700	ND	0.016	ND	0.270	ND	ND	0.035 J	ND	ND	ND	ND	1.200	ND	ND	ND
Trichloroethene	ND	0.003 J	1.200 J	0.110 J	ND	ND	ND	ND	ND	ND	0.003 J	2.000	ND	1.400	ND	ND	ND	ND
Tetrachloroethene	ND	ND	5.900	ND	ND	ND	0.035 J	ND	ND	ND	0.001 J	0.320 J	ND	0.400	ND	ND	ND	ND
1,1,2,2 Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	0.020	ND	ND	0.008 J	ND	0.400	0.180 J	12.00	0.130	ND	.32 J	ND	0.980	1.400	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.330	ND	ND	ND
trans - 1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	0.110 J	ND	0.083	ND	0.330	ND	0.530	ND	ND	ND	ND
cis - 1,2-Dichloroethene	ND	0.043	66.00	0.450	0.044	ND	3.300	ND	51.00	1.800	0.006	7.400	ND	15.000	0.700	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.092	ND	ND	ND
Xylenes (Total)	ND	ND	21.00	2.200	ND	0.180	ND	0.190 J	ND	ND	ND	ND	ND	ND	0.610	ND	ND	ND
TOTAL	0.000	0.096	271.6	16.15	0.110	1.408	4.240	10.40	106.3	2.133	0.011	12.53	0.000	21.31	7.968	2.100	ND	ND

NOTE: ONLY DETECTED VOLATILE ORGANICS ARE LISTED.
mg/L - UNITS IN MILLIGRAMS PER LITER.
ND - ANALYTE NOT DETECTED ABOVE PRACTICAL QUANTITATION LIMIT.
B - ANALYTE ALSO DETECTED IN ASSOCIATED LABORATORY BLANK.
J - EXCEEDS MDL

Table 3
Groundwater Sampling Results - July 1999
Dissolved Metals
NJPDES/DGW Permit No. NJ0002224
Safety-Kleen Corporation
Linden Recycle Center
Linden, New Jersey

SAMPLE LOCATION	MW-1S	MW-1D	MW-2S	MW-2D	MW-3S	MW-3D	MW-4S	MW-4D	MW-5S	MW-5D	MW-6S	MW-6D	MW-7S	MW-7D	MW-8S	MW-8D	FIELD BLANK	FIELD BLANK
SAMPLE DATE	07/21/99	07/21/99	07/22/99	07/22/99	07/21/99	07/21/99	07/22/99	07/22/99	07/21/99	07/21/99	07/22/99	07/22/99	07/22/99	07/22/99	07/21/99	07/21/99	07/21/99	07/22/99
SAMPLED INTERVAL (FEET)	3.0-13.0	29.3-49.5	3.0-13.0	29.7-48.8	3.0-13.0	53.1-69.8	4.0-14.0	26.0-48.8	3.0-13.0	33.0-48.2	10.0-20.0	35.3-55.2	6.0-16.0	33.3-49.5	12.0-22.0	31.8-48.5	---	---
DISSOLVED METALS (mg/L)																		
Iron (dissolved)	121	2.08	68.4	93.0	0.07 B	0.25	12.1	35.3	139	1.17	0.23	0.32	0.84	0.19	60.6	2.66	NA	NA
Manganese (dissolved)	1.16	0.74	0.95	14.9	1.44	1.76	7.30	10.8	9.70	0.43	3.28	0.85	4.37	0.61	0.89	2.60	NA	NA
Sodium (dissolved)	54.6	20.0	92.0	125	19.9	26.3	30.3	49.6	80.4	16.4	26.8	20.3	57.3	19.7	133	35.0	NA	NA

mg/L - UNITS IN MILLIGRAMS PER LITER.

ND - ANALYTE NOT DETECTED ABOVE PRACTICAL QUANTITATION LIMIT.

NA - NOT ANALYZED.

B - ESTIMATED RESULT. RESULT IS LESS THAN RL AND WAS DETECTED IN THE BLANK.

Table 4
Groundwater Sampling Results - July 1999
General Parameters
NJPDES/DGW Permit No. NJ0002224
Safety-Kleen Corporation
Linden Recycle Center
Linden, New Jersey

SAMPLE LOCATION	MW-1S	MW-1D	MW-2S	MW-2D	MW-3S	MW-3D	MW-4S	MW-4D	MW-5S	MW-5D	MW-6S	MW-6D	MW-7S	MW-7D	MW-8S	MW-8D	FIELD BLANK	FIELD BLANK
SAMPLE DATE	07/21/99	07/21/99	07/22/99	07/22/99	07/21/99	07/21/99	07/22/99	07/22/99	07/21/99	07/21/99	07/22/99	07/22/99	07/22/99	07/22/99	07/21/99	07/21/99	07/21/99	07/22/99
SAMPLED INTERVAL (FEET)	3.0-13.0	29.3-49.8	3.0-13.0	29.7-48.8	3.0-13.0	63.1-69.8	4.0-14.0	26.0-48.8	3.0-13.0	33.0-48.2	10.0-20.0	38.3-58.2	6.0-16.0	33.3-49.5	12.0-22.0	31.8-48.5	—	—
GENERAL PARAMETERS (mg/L)																		
Chloride (dissolved)	98.7	38.2	461	1560	71.1	242	69.1	374	788	97.2	19.1	81.4	66.9	76.4	862	163	NA	NA
Sulfate (dissolved)	1780	39.2	117	5.50	60.2	14.1	61.9	9.70	26.8	14.7	352	31.0	9.30	27.0	47.8	56.2	NA	NA
Total Dissolved Solids	739	383	1400	6310	480	1270	430	1700	42.0	528	598	559	707	517	3200	1180	NA	NA
Total Organic Carbon	94.4	4.50	205	92.7	8.90	14.9	16.0	94.0	306	6.80	11.8	4.20	7.70	5.80	29.5	19.5	NA	NA
Total Organic Halogens	0.19	0.19	85.3	2.39	0.12	2.30	2.35	4.12	34.2	1.40	0.10	9.04	0.14	7.09	0.28	1.20	NA	NA
pH (s.u.)	6.36	6.41	NA	6.65	6.30	6.67	6.21	6.24	5.60	6.85	6.38	7.34	6.50	7.37	7.11	6.90	NA	NA
Floating Product Thickness (ft)	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP

mg/L - UNITS IN MILLIGRAMS PER LITER.
ND - ANALYTE NOT DETECTED ABOVE PRACTICAL QUANTITATION LIMIT.
NA - NOT ANPLYZED.
NP - PRODUCT NOT DETECTED

Table 5
Sampling Results for MW-2S
NJPDES/DGW Permit No. NJ0002224
Safety-Kleen Corporation
Lindedn Recycle Center
Linden, New Jersey

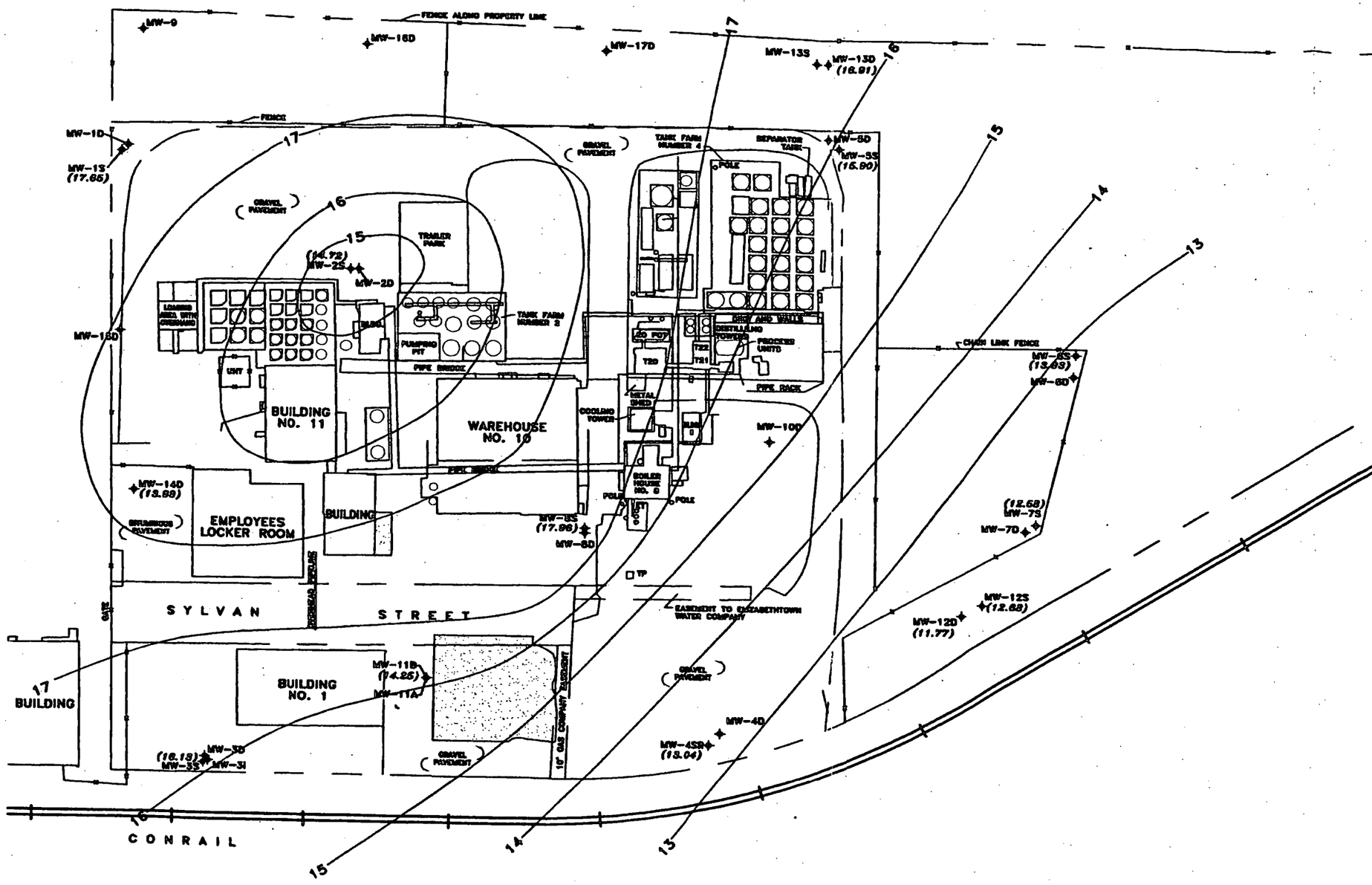
SAMPLE LOCATION	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2S	MW-2	MW-2S	MW-2S
SAMPLE DATE	06/27/97	07/09/97	07/28/97	09/25/97	10/24/97	11/11/97	12/15/97	01/30/98	02/23/98	03/19/98	04/17/98	05/28/98	06/27/98	07/23/98	08/29/98	10/09/98	10/21/98	11/17/98	12/30/98	01/28/99	02/10/99	03/03/99	04/22/99	05/28/99	06/22/99	07/22/9	08/30/9	09/21/99
SAMPLED INTERVAL (FEET)	3.0-13.0	3.0-13.0	3.0-13.0	3.0-13.0	3.0-13.0	3.0-13.0	3.0-13.0	3.0-13.0	3.0-13.0	3.0-13.0	3.0-13.0	3.0-13.0	3.0-13.0	3.0-13.0	3.0-13.0	3.0-13.0	3.0-13.0	3.0-13.0	3.0-13.0	3.0-13.0	3.0-13.0	3.0-13.0	3.0-13.0	3.0-13.0	3.0-13.0	.0-13.	3.0-13.0	3.0-13.0
ANALYTE																														
VOLATILES (ug/L)																														
Acetone	18	28	54	21	12	49	26	290	44	140	360	200	290	170	48	18	61	11	ND	130	80	ND	320	270	ND	15	12	22		
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
2-Butanone	21	17	39	ND	18	120	31	990	150	340	900	ND	690	470	130	27	80	17	ND	200	120	70	600	640	390	38	24	39		
Carbon disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
1,1-Dichloroethene	ND	ND	ND	3	2	3	3	ND	1	ND	ND	4	ND	ND	3	2.0	2	3	15	7	5	ND	10	ND	ND	2	ND	2		
1,1-Dichloroethane	2	ND	ND	3	2	3	3	10	2	ND	ND	4	ND	ND	4	3	3	5	23	13	3	ND	9	ND	ND	4	5	5		
Ethylbenzene	4	4	3	4	ND	4	3	10	2	ND	ND	4	ND	ND	3	2.0	2	3	15	7	5	ND	10	ND	ND	2	ND	2		
Methylene Chloride	21	18	29	16	9	38	20	86	22	32	44	94	80	93	28	12	21	8	45	54	47	25	150	85	96	14	10	16		
4-Methyl-2-pentanone	9	5	14	7	ND	14	9	110	34	ND	75	53	90	93	35	6	10	7.0	ND	39	31	19	450	130	86	10	8	11		
Styrene	ND	ND	77	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Toluene	130	120	100	120	140	140	130	230	46	83	77	160	130	90	120	170	140	150	1200	160	90	120	260	170	110	120	130	110		
1,1,1-Trichloroethane	5	5	4	7	4	13	7	28	6	ND	ND	19	20	17	5.0	7	4.0	5	31	13	ND	7	40	17	16	6.7	4	4		
Trichloroethene	ND	ND	ND	4	ND	9	ND	12	2	ND	ND	5	ND	ND	ND	ND	2	ND	30	5	ND	ND	9	ND	ND	1	ND	ND		
Tetrachloroethene	5	5	4	7	6	9.0	7	29	5.0	9.0	10	12	ND	9	6	6	7	4	15	13	4	ND	18	11	ND	5.9	5	5		
1,1,2,2 Tetrachloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
trans - 1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
cis - 1,2-Dichloroethene	89	ND	ND	78	78	78	79	82	19	25	25	84	73	44	77	98	82	100	840	190	88	90	170	88	ND	66	82	83		
1,2-Dichloroethane	ND	3	3	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Xylenes (Total)	22	18	18	21	25	22	27	56	12	ND	ND	24	14	ND	22	26	19	25	170	77	15	22	45	30	12	21	24	24		
TOTAL	308	221	342	285	282	499	341	1937	345	809	1491	663	1387	986	478	374	430	334	2169	901	482	353	2081	1421	712	291	304	320		

NOTE: ONLY DETECTED VOLATILE, BASE/NEUTRAL, AND ACID ORGANICS ARE LISTED.

ug/L - UNITS IN MILLIGRAMS PER LITER. ppm - PARTS PER MILLION. ug/L - UNITS IN MICROGRAMS PER LITER.
NS - LIMITATION NOT SPECIFIED BY PERMIT.
J - ESTIMATED RESULT. RESULT IS LESS THAN RL
B - ANALYTE ALSO DETECTED IN ASSOCIATED LABORATORY BLANK.
NA - NOT ANALYZED.

DRAWING NUMBER	778822-B1		
APPROVED BY	T. Glancey	10/20/99	
CHECKED BY	S. Kakol	10/20/99	
DRAWN	C. Agabiti	10/20/99	
OFFICE	Trenton, NJ		
X-REF	---		
IMAGE	---		

PLOT DATE: 10/20/99
FORMAT REVISED: 3/25/99



SOURCE: MASER SOLINSKI & ASSOCIATES, P.A.
MATAWAN, NEW JERSEY
MONITORING WELL LOCATION PLAN FOR
SAFETY-KLEEN CORPORATION CITY OF LINDEN
UNION COUNTY NEW JERSEY
JOB NO. 91033A SHEET 1 of 1
MAP NO. 2033MW1 DATED MARCH 16, 1992

SCALE
0 50 100 FEET

LEGEND

MW-3D	SHALLOW MONITORING WELL
MW-3S	DEEP MONITORING WELL
MW-4SR	SHALLOW REPLACEMENT MONITORING WELL
(18.82)	RELATIVE WATER LEVEL ELEVATION IN FEET
	INFERRED GROUNDWATER ELEVATION CONTOUR IN FEET
UHT	UNDERGROUND HOLDING TANK
TP	TRANSFORMER PAD
ET	ELECTRIC TRANSFORMER
	CONCRETE

NOTE:
MW-10D LOCATION IS APPROXIMATE.

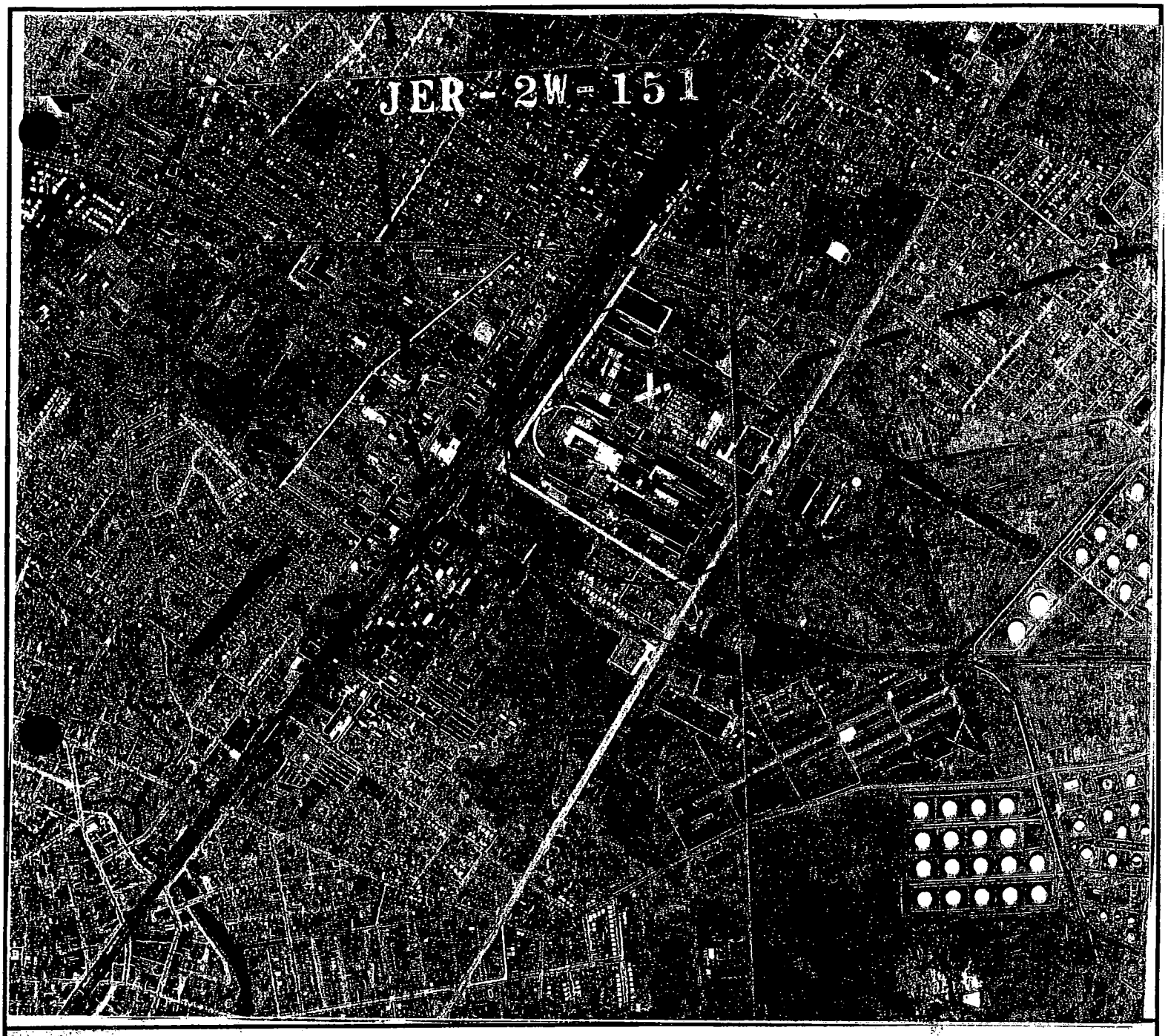
IT CORPORATION

SAFETY KLEEN CORPORATION
LINDEN, NJ

FIGURE 1
GROUNDWATER ELEVATION CONTOUR MAP
SHALLOW WELLS
7/21/99

FRACTURE TRACE ANALYSIS FIGURE

APPENDIX M



INTERPRETED FRACTURE LINEAMENTS MAP

N

General Motors
Route 1
Linden, Union County, New Jersey

BELL PROJECT # EOG01-93089-02	**Figure 4-2**

HISTORICAL SOIL DATA TABLES

APPENDIX N

TABLE N

ANALYTICAL RESULTS SUMMARY
HISTO[redacted]SOILS
LIN[redacted]NJ

Sample Location:		B-1	B-2	B-3	B-4	B-5	BEC-5D	BEC-5D	BEC-6D	BEC-6D	BEC-7D	BEC-7D	BEC-8D	BEC-8D	BEC-9D
Sample Name:		89001-6001	89001-6002	89001-6003	89001-6004	89001-6005	93089-BEC5D	93089-BEC5D	93089-BEC6D	93089-BEC6D	93089-BEC7D	93089-BEC7D	93089-BEC8D	93089-BEC8D	93089-BEC9D
Sample Date:		11/14/90	11/14/90	11/14/90	11/14/90	11/14/90	7/3/95	7/3/95	6/29/95	7/8/95	6/29/95	7/8/95	6/30/95	6/30/95	6/30/95
Analysis Date:		11/14/90	11/14/90	11/14/90	11/14/90	11/14/90	7/3/95	7/8/95	6/29/95	7/8/95	6/29/95	7/8/95	6/30/95	7/11/95	6/30/95
Sample Depth:		(9-11)	(11-13)	(5-7)	(9-11)	(11-13)									
Parameters	Units														
Metals															
Aluminum	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls															
Aroclor-1016 (PCB-1016)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides															
4,4'-DDD	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlordane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products															
Total Petroleum Hydrocarbons	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatiles															
1,2-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl naphthalene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzidine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzoic acid	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE N

ANALYTICAL RESULTS SUMMARY
HISTORIC - SOILS
LINDEN, NJ

Sample Location:		B-1	B-2	B-3	B-4	B-5	BEC-5D	BEC-5D	BEC-6D	BEC-6D	BEC-7D	BEC-7D	BEC-8D	BEC-8D	BEC-9D
Sample Name:		I99001-6001	I99001-6002	I99001-6003	I99001-6004	I99001-6005	93089-BEC5D	93089-BEC5D	93089-BEC6D	93089-BEC6D	93089-BEC7D	93089-BEC7D	93089-BEC8D	93089-BEC8D	93089-BEC9D
Sample Date:		11/14/90	11/14/90	11/14/90	11/14/90	11/14/90	7/3/95	7/3/95	6/29/95	6/29/95	6/29/95	6/29/95	6/30/95	6/30/95	6/30/95
Analysis Date:		11/14/90	11/14/90	11/14/90	11/14/90	11/14/90	7/3/95	7/8/95	6/29/95	7/8/95	6/29/95	7/8/95	6/30/95	7/11/95	6/30/95
Sample Depth:		(9-11)	(11-13)	(5-7)	(9-11)	(11-13)									
Parameters	*Units*														
Benzyl Alcohol	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyridine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL NON-TARGETED BASE NEUTRALS	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL TARGETED BASE NEUTRALS	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatiles															
1,1,1-Trichloroethane	ug/Kg	ND (25)	6.8 JB	ND (25)	ND (25)	6.2 JB	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
1,1,2,2-Tetrachloroethane	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
1,1,2-Trichloroethane	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
1,1-Dichloroethane	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
1,1-Dichloroethene	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
1,2-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
1,2-Dichloropropane	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
1,3-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	ug/Kg	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
2-Hexanone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
Bromodichloromethane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
Bromoform	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
Bromomethane	ug/Kg	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
Carbon disulfide	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
Chlorobenzene	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
Chloroethane	ug/Kg	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
Chloroform (Trichloromethane)	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
Chloromethane	ug/Kg	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
cis-1,2-Dichloroethene	ug/Kg	-	-	-	-	-	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
cis-1,3-Dichloropropene	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
Dibromochloromethane	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
Dibromomethane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diisopropyl ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
m&p-Xylene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert Butyl Ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	1.4 B	-	2.3 B	-	1.9 B	-	8.8 B	-
o-Xylene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tert-Butyl Alcohol	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
Toluene	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
Total VOCS	ug/Kg	ND	-	ND	ND	6.2	-	1.4	-	2.3	-	1.9	-	8.8	-
trans-1,2-Dichloroethene	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
trans-1,3-Dichloropropene	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
Trichloroethene	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
Trichlorofluoromethane (CFC-11)	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
Vinyl acetate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/Kg	ND (50)	ND (50)	ND (50)	ND (50)	ND (50)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-
Xylene (total)	ug/Kg	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	ND (1.2)	-	ND (1.1)	-	ND (1.4)	-	ND (1.2)	-

Volatile TICS

TABLE N

ANALYTICAL RESULTS SUMMARY
HISTOR[redacted]OILS
LIND[redacted]NJ

Sample Location:		B-1	B-2	B-3	B-4	B-5	BEC-5D	BEC-5D	BEC-6D	BEC-6D	BEC-7D	BEC-7D	BEC-8D	BEC-8D	BEC-9D
Sample Name:		89001-6001	89001-6002	89001-6003	89001-6004	89001-6005	93089-BEC5D	93089-BEC5D	93089-BEC6D	93089-BEC6D	93089-BEC7D	93089-BEC7D	93089-BEC8D	93089-BEC8D	93089-BEC9D
Sample Date:		11/14/90	11/14/90	11/14/90	11/14/90	11/14/90	7/3/95	7/3/95	6/29/95	6/29/95	6/29/95	6/29/95	6/30/95	6/30/95	6/30/95
Analysis Date:		11/14/90	11/14/90	11/14/90	11/14/90	11/14/90	7/3/95	7/8/95	6/29/95	7/8/95	6/29/95	7/8/95	6/30/95	7/11/95	6/30/95
Sample Depth:		(9-11)	(11-13)	(5-7)	(9-11)	(11-13)									
Parameters	*Units*														
Acetone A	ug/Kg	-	-	-	-	-	-	-	-	6.0	-	8.0	-	-	-
C10H12 aromatic A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10H14 aromatic A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C9H10 aromatic A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylnaphthalene A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylnaphthalene B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene isomer A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene isomer B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	52	-
Unknown A	ug/Kg	-	-	-	-	-	-	-	-	-	-	12	-	-	-
Unknown B	ug/Kg	-	-	-	-	-	-	-	-	-	-	19	-	-	-
Unknown C	ug/Kg	-	-	-	-	-	-	-	-	-	-	7.2	-	-	-
Unknown D	ug/Kg	-	-	-	-	-	-	-	-	-	-	9.3	-	-	-
Unknown Hydrocarbon A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon C	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE N

ANALYTICAL RESULTS SUMMARY
HISTORIC - SOILS
LINDEN, NJ

Sample Location:		BEC-9D	PE-02	PE-02	PE-02	PE-03	PE-03	PE-03	PE-04	PE-04	PE-04	PE-05	PE-05	PE-05	PE-06	PE-06
Sample Name:		93089-BEC9D	89001-6002	89001-6002	89001-6002	89001-6003	89001-6003	89001-6003	89001-6004	89001-6004	89001-6004	89001-6005	89001-6005	89001-6005	89001-6006	89001-6006
Sample Date:		6/30/95	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89
Analysis Date:		7/11/95	3/13/89	3/15/89	3/17/89	3/13/89	3/15/89	3/17/89	3/13/89	3/15/89	3/17/89	3/13/89	3/15/89	3/17/89	3/13/89	3/15/89
Sample Depth:																
Parameters	*Units*															
Metals																
Aluminum	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls																
Aroclor-1016 (PCB-1016)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides																
4,4'-DDD	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlordane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products																
Total Petroleum Hydrocarbons	mg/Kg	-	-	21.0	-	-	16.0	-	-	9.0	-	-	1280.0	-	-	1800.0
Semi-Volatiles																
1,2-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl naphthalene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzidine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzoic acid	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE N

ANALYTICAL RESULTS SUMMARY
HISTORIC SOILS
LINDEN, NJ

Sample Location:		BEC-9D	PE-02	PE-12	PE-02	PE-03	PE-03	PE-03	PE-04	PE-04	PE-04	PE-05	PE-05	PE-05	PE-06	PE-06
Sample Name:		93089-BEC9D	89001-6002	89001-6002	89001-6002	89001-6003	89001-6003	89001-6003	89001-6004	89001-6004	89001-6004	89001-6005	89001-6005	89001-6005	89001-6006	89001-6006
Sample Date:		6/30/95	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89
Analysis Date:		7/11/95	3/13/89	3/15/89	3/17/89	3/13/89	3/15/89	3/17/89	3/13/89	3/15/89	3/17/89	3/13/89	3/15/89	3/17/89	3/13/89	3/15/89
Sample Depth:																
Parameters	**Units**															
Benzyl Alcohol	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyridine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL NON-TARGETED BASE NEUTRALS	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL TARGETED BASE NEUTRALS	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatiles																
1,1,1-Trichloroethane	ug/Kg	ND (1.2)	-	-	ND (5.9)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
1,1,2,2-Tetrachloroethane	ug/Kg	ND (1.2)	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
1,1,2-Trichloroethane	ug/Kg	ND (1.2)	-	-	ND (5.9)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
1,1-Dichloroethane	ug/Kg	ND (1.2)	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
1,1-Dichloroethene	ug/Kg	ND (1.2)	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
1,2-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	ug/Kg	ND (1.2)	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
1,2-Dichloropropane	ug/Kg	ND (1.2)	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
1,3-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	ug/Kg	ND (1.2)	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
2-Hexanone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	ug/Kg	-	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
Acrylonitrile	ug/Kg	-	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
Benzene	ug/Kg	ND (1.2)	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
Bromodichloroethane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/Kg	ND (1.2)	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
Bromoform	ug/Kg	ND (1.2)	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
Bromomethane	ug/Kg	ND (1.2)	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
Carbon disulfide	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	ug/Kg	ND (1.2)	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
Chlorobenzene	ug/Kg	ND (1.2)	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
Chloroethane	ug/Kg	ND (1.2)	-	-	ND (5.9)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
Chloroform (Trichloromethane)	ug/Kg	ND (1.2)	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
Chloromethane	ug/Kg	ND (1.2)	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
cis-1,2-Dichloroethene	ug/Kg	ND (1.2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/Kg	ND (1.2)	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
Dibromochloromethane	ug/Kg	ND (1.2)	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
Dibromomethane	ug/Kg	-	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
Diisopropyl ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/Kg	ND (1.2)	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
m&p-Xylene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert Butyl Ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/Kg	3.1 B	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
o-Xylene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tert-Butyl Alcohol	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	ug/Kg	ND (1.2)	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
Toluene	ug/Kg	ND (1.2)	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
Total VOCS	ug/Kg	3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/Kg	ND (1.2)	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
trans-1,3-Dichloropropene	ug/Kg	ND (1.2)	-	-	ND (5.8)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
Trichloroethene	ug/Kg	ND (1.2)	-	-	ND (5.9)	-	-	ND (6.0)	-	-	ND (6.3)	-	-	ND (12350)	-	-
Trichlorofluoromethane (CFC-11)	ug/Kg	ND (1.2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/Kg	ND (1.2)	-	-	ND (11.6)	-	-	ND (12.0)	-	-	ND (12.6)	-	-	ND (24700)	-	-
Xylene (total)	ug/Kg	ND (1.2)	-	-	ND (5800)	-	-	ND (6000)	-	-	ND (6300)	-	-	116000	-	-
Volatile TIC'S																

TABLE N

ANALYTICAL RESULTS SUMMARY
HISTORIC - SOILS
LINDEN, NJ

Sample Location:		BEC-9D	PE-01	PE-02	PE-02	PE-03	PE-03	PE-03	PE-04	PE-04	PE-04	PE-05	PE-05	PE-05	PE-06	PE-06
Sample Name:		93089-BEC9D	89001-6002	89001-6002	89001-6002	89001-6003	89001-6003	89001-6003	89001-6004	89001-6004	89001-6004	89001-6005	89001-6005	89001-6005	89001-6006	89001-6006
Sample Date:		6/30/95	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89	3/13/89
Analysis Date:		7/11/95	3/13/89	3/15/89	3/17/89	3/13/89	3/15/89	3/17/89	3/13/89	3/15/89	3/17/89	3/13/89	3/15/89	3/17/89	3/13/89	3/15/89
Sample Depth:																
Parameters	Units															
Acetone A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10H12 aromatic A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10H14 aromatic A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C9H10 aromatic A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylnaphthalene A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylnaphthalene B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene isomer A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene isomer B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown D	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon C	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE N

ANALYTICAL RESULTS SUMMARY
HISTORICAL SOILS
LINDEN, NJ

Sample Location:		PE-06	PE-07	PE-07	PE-07	PE-07	PE-07	PE-01	PE-01	PE-01	PE-08	PE-08	PE-08	PE-09	PE-09	PE-09
Sample Name:		89001-6006	89001-6007	89001-6007	89001-6007	89001-6013(DUP)	89001-6013(DUP)	89001-6001	89001-6001	89001-6001	89001-6008	89001-6008	89001-6008	89001-6009	89001-6009	89001-6009
Sample Date:		3/13/89	3/20/89	3/20/89	3/20/89	3/20/89	3/20/89	3/13/89	3/13/89	3/13/89	3/20/89	3/20/89	3/20/89	3/20/89	3/20/89	3/20/89
Analysis Date:		3/17/89	3/20/89	3/22/89	3/26/89	3/22/89	3/26/89	3/13/89	3/15/89	3/17/89	3/20/89	3/22/89	3/26/89	3/20/89	3/22/89	3/26/89
Sample Depth:																
						Duplicate	Duplicate									
Parameters	Units															
Metals																
Aluminum	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls																
Aroclor-1016 (PCB-1016)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides																
4,4'-DDD	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlordane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products																
Total Petroleum Hydrocarbons	mg/Kg	-	-	215.0	-	218.0	-	-	15.0	-	-	86.0	-	-	98.0	-
Semi-Volatiles																
1,2-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl naphthalene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzidine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzoic acid	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ANALYTICAL RESULTS SUMMARY
HISTORIC - SOILS
LINDEN, NJ

Sample Location:		*PE-06*	*PE-07*	*PE-07*	*PE-07*	*PE-07*	*PE-07*	*PE-01*	*PE-01*	*PE-01*	*PE-08*	*PE-08*	*PE-08*	*PE-09*	*PE-09*	*PE-09*
Sample Name:		*89001-6006*	*89001-6007*	*89001-6007*	*89001-6007*	*89001-6013(DUP)*	*89001-6013(DUP)*	*89001-6001*	*89001-6001*	*89001-6001*	*89001-6008*	*89001-6008*	*89001-6008*	*89001-6009*	*89001-6009*	*89001-6009*
Sample Date:		*3/13/89*	*3/20/89*	*3/20/89*	*3/20/89*	*3/20/89*	*3/20/89*	*3/13/89*	*3/13/89*	*3/13/89*	*3/20/89*	*3/20/89*	*3/20/89*	*3/20/89*	*3/20/89*	*3/20/89*
Analysis Date:		*3/17/89*	*3/20/89*	*3/22/89*	*3/26/89*	*3/22/89*	*3/26/89*	*3/13/89*	*3/15/89*	*3/17/89*	*3/20/89*	*3/22/89*	*3/26/89*	*3/20/89*	*3/22/89*	*3/26/89*
Sample Depth:																
						Duplicate	*Duplicate*									
Parameters	*Units*															
Benzyl Alcohol	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyridine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL NON-TARGETED BASE NEUTRALS	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL TARGETED BASE NEUTRALS	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatiles																
1,1,1-Trichloroethane	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
1,1,2,2-Tetrachloroethane	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
1,1,2-Trichloroethane	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
1,1-Dichloroethane	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
1,1-Dichloroethene	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
1,2-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
1,2-Dichloropropane	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
1,3-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
2-Hexanone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
Acrylonitrile	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
Benzene	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
Bromodichloroethane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
Bromoform	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
Bromomethane	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
Carbon disulfide	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
Chlorobenzene	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
Chloroethane	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
Chloroform (Trichloromethane)	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
Chloromethane	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
cis-1,2-Dichloroethene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
Dibromochloromethane	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
Dibromomethane	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
Diisopropyl ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
m&p-Xylene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert Butyl Ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
o-Xylene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tert-Butyl Alcohol	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
Toluene	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
Total VOCS	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
trans-1,3-Dichloropropene	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
Trichloroethene	ug/Kg	ND (30340)	-	-	ND	-	ND (5.9)	-	-	ND (5.9)	-	-	ND (5.8)	-	-	ND (5.8)
Trichlorofluoromethane (CFC-11)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/Kg	ND (60680)	-	-	ND	-	ND (11.8)	-	-	ND (11.8)	-	-	ND (11.6)	-	-	ND (11.6)
Xylene (total)	ug/Kg	191700	-	-	ND	-	ND (5900)	-	-	ND (5900)	-	-	ND (5800)	-	-	ND (5800)
Volatile TICS																

TABLE N

ANALYTICAL RESULTS SUMMARY
HISTORIC FILL/SOILS
LINDEN, NJ

Sample Location:		PE-06	PE-07	PE-07	PE-07	PE-07	PE-07	PE-01	PE-01	PE-01	PE-08	PE-08	PE-08	PE-09	PE-09	PE-09
Sample Name:		89001-6006	89001-6007	89001-6007	89001-6007	89001-6013(DUP)	89001-6013(DUP)	89001-6001	89001-6001	89001-6001	89001-6008	89001-6008	89001-6008	89001-6009	89001-6009	89001-6009
Sample Date:		3/13/89	3/20/89	3/20/89	3/20/89	3/20/89	3/20/89	3/13/89	3/13/89	3/13/89	3/20/89	3/20/89	3/20/89	3/20/89	3/20/89	3/20/89
Analysis Date:		3/17/89	3/20/89	3/22/89	3/26/89	3/22/89	3/26/89	3/13/89	3/15/89	3/17/89	3/20/89	3/22/89	3/26/89	3/20/89	3/22/89	3/26/89
Sample Depth:																
						Duplicate	Duplicate									
Parameters	Units															
Acetone A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10H12 aromatic A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10H14 aromatic A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C9H10 aromatic A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylnaphthalene A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylnaphthalene B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene isomer A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene isomer B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown D	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon C	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE N

ANALYTICAL RESULTS SUMMARY
HISTORIC - SOILS
LINDEN, NJ

Sample Location:		PE-10	PE-10	PE-10	PE-11	PE-11	PE-11	SB-01	SB-01	SB-01	SB-01	SB-01	SB-02	SB-02	SB-02	SB-02	SB-02
Sample Name:		89001-6010	89001-6010	89001-6010	89001-6011	89001-6011	89001-6011	87005-6001	93089-6001	93011-6107	93089-6101	93089-6101	87005-6002	93089-6002	93011-6106	93089-6102	93089-6102
Sample Date:		3/20/89	3/20/89	3/20/89	3/20/89	3/20/89	3/20/89	10/5/93	12/7/94	4/18/96	10/7/96	10/7/96	10/5/93	12/7/94	4/18/96	10/7/96	10/7/96
Analysis Date:		3/20/89	3/22/89	3/26/89	3/20/89	3/22/89	3/26/89	10/5/93	12/7/94	4/18/96	10/7/96	10/20/96	10/5/93	12/7/94	4/18/96	10/7/96	10/17/96
Sample Depth:								(3-4)		(10.5-)	(11-13)	(11-13)	(3-4)		(10.5-)	(3-5)	(3-5)
Parameters	*Units*																
Metals																	
Aluminum	mg/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Antimony	mg/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Arsenic	mg/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Barium	mg/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Beryllium	mg/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Cadmium	mg/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Calcium	mg/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Chromium	mg/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Cobalt	mg/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Copper	mg/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Iron	mg/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Lead	mg/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Magnesium	mg/Kg	-	-	-	-	-	-	ND	ND (1.0)	-	-	-	ND	ND (1.0)	-	-	-
Manganese	mg/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Mercury	mg/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Nickel	mg/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Potassium	mg/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Selenium	mg/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Silver	mg/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Sodium	mg/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Thallium	mg/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Vanadium	mg/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Zinc	mg/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Polychlorinated Biphenyls																	
Aroclor-1016 (PCB-1016)	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Pesticides																	
4,4'-DDD	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
4,4'-DDE	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
4,4'-DDT	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Aldrin	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
alpha-BHC	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
beta-BHC	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Chlordane	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
delta-BHC	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Dieldrin	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Endosulfan I	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Endosulfan II	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Endosulfan sulfate	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Endrin	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Endrin aldehyde	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Endrin ketone	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
gamma-BHC (Lindane)	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Heptachlor	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Heptachlor epoxide	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Methoxychlor	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Toxaphene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Petroleum Products																	
Total Petroleum Hydrocarbons	mg/Kg	-	258.0	-	-	180.0	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatiles																	
1,2-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
1,3-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
1,4-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
2,2'-oxybis(1-Chloropropane)	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
2,4-Dinitrotoluene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
2,6-Dinitrotoluene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
2-Chloronaphthalene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
2-Methyl naphthalene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
2-Nitroaniline	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
3,3'-Dichlorobenzidine	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
3-Nitroaniline	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
4-Bromophenyl phenyl ether	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
4-Chloroaniline	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
4-Chlorophenyl phenyl ether	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
4-Nitroaniline	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Acenaphthene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Acenaphthylene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Anthracene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Benzidine	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Benzo(a)anthracene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Benzo(a)pyrene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Benzo(b)fluoranthene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Benzo(g,h,i)perylene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Benzo(k)fluoranthene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Benzoic acid	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-

TABLE N

ANALYTICAL RESULTS SUMMARY
HISTO[redacted]OILS
LIN[redacted]NJ

Sample Location:		PE-10	PE-10	PE-10	PE-11	PE-11	PE-11	SB-01	SB-01	SB-01	SB-01	SB-01	SB-02	SB-02	SB-02	SB-02	SB-02
Sample Name:		89001-6010	89001-6010	89001-6010	89001-6011	89001-6011	89001-6011	87005-6001	93089-6001	93011-6107	93089-6101	93089-6101	87005-6002	93089-6002	93011-6106	93089-6102	93089-6102
Sample Date:		3/20/89	3/20/89	3/20/89	3/20/89	3/20/89	3/20/89	10/5/93	12/7/94	4/18/96	10/7/96	10/7/96	10/5/93	12/7/94	4/18/96	10/7/96	10/7/96
Analysis Date:		3/20/89	3/22/89	3/26/89	3/20/89	3/22/89	3/26/89	10/5/93	12/7/94	4/18/96	10/7/96	10/20/96	10/5/93	12/7/94	4/18/96	10/7/96	10/17/96
Sample Depth:								(3-4)		(10.5-)	(11-13)	(11-13)	(3-4)		(10.5-)	(3-5)	(3-5)
Parameters	*Units*																
Benzyl Alcohol	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
bis(2-Chloroethoxy)methane	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
bis(2-Chloroethyl)ether	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
bis(2-Ethylhexyl)phthalate	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Butyl benzylphthalate	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Chrysene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Di-n-butylphthalate	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Di-n-octyl phthalate	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Dibenz[a,h]anthracene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Dibenzofuran	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Diethyl phthalate	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Dimethyl phthalate	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Fluoranthene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Fluorene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Hexachlorobenzene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Hexachlorobutadiene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Hexachlorocyclopentadiene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Hexachloroethane	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Isophorone	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
N-Nitroso-di-n-propylamine	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
N-Nitrosodimethylamine	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
N-Nitrosodiphenylamine	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Naphthalene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Nitrobenzene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Phenanthrene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Pyrene	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Pyridine	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
TOTAL NON-TARGETED BASE NEUTRALS	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
TOTAL TARGETED BASE NEUTRALS	ug/Kg	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-
Volatiles																	
1,1,1-Trichloroethane	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
1,1,2,2-Tetrachloroethane	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
1,1,2-Trichloroethane	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
1,1-Dichloroethane	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
1,1-Dichloroethene	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
1,2-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-
1,2-Dichloroethane	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
1,2-Dichloropropane	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
1,3-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-
1,4-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-
2-Butanone	ug/Kg	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-
2-Chloroethyl vinyl ether	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
2-Hexanone	ug/Kg	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-
4-Methyl-2-pentanone	ug/Kg	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-
Acetone	ug/Kg	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-
Acrolein	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	-	-	-	-	-	-	-	-
Benzene	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
Bromodichloroethane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
Bromoform	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
Bromomethane	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
Carbon disulfide	ug/Kg	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-
Carbon tetrachloride	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
Chlorobenzene	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
Chloroethane	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
Chloroform (Trichloromethane)	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
Chloromethane	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
cis-1,2-Dichloroethene	ug/Kg	-	-	-	-	-	-	-	-	-	-	ND (6.0)	-	-	-	-	ND (140)
cis-1,3-Dichloropropene	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
Dibromochloromethane	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
Dibromomethane	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	-	-	-	-	-	-	-	-
Diisopropyl ether	ug/Kg	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-
Ethylbenzene	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
m&p-Xylene	ug/Kg	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-
Methyl Tert Butyl Ether	ug/Kg	-	-	-	-	-	-	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
Methylene chloride	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	11 B	-	-	ND	-	ND (140)
o-Xylene	ug/Kg	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-
Styrene	ug/Kg	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-
Tert-Butyl Alcohol	ug/Kg	-	-	-	-	-	-	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
Tetrachloroethene	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
Toluene	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
Total VOCS	ug/Kg	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-
trans-1,2-Dichloroethene	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
trans-1,3-Dichloropropene	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
Trichloroethene	ug/Kg	-	-	ND (5.8)	-	-	ND (5.9)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
Trichlorofluoromethane (CFC-11)	ug/Kg	-	-	-	-	-	-	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
Vinyl acetate	ug/Kg	-	-	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-
Vinyl chloride	ug/Kg	-	-	ND (11.6)	-	-	ND (11.8)	-	-	ND	-	ND (6.0)	-	-	ND	-	ND (140)
Xylene (total)	ug/Kg	-	-	ND (5800)	-	-	ND (5900)	-	-	-	-	ND (6.0)	-	-	-	-	ND (140)
Volatile TICS																	

TABLE N

ANALYTICAL RESULTS SUMMARY
HISTORIC - SOILS
LINDEN, NJ

Sample Location:		*PE-10*	*PE-10*	*PE-10*	*PE-11*	*PE-11*	*PE-11*	*SB-01*	*SB-01*	*SB-01*	*SB-01*	*SB-01*	*SB-02*	*SB-02*	*SB-02*	*SB-02*	*SB-02*
Sample Name:		*89001-6010*	*89001-6010*	*89001-6010*	*89001-6011*	*89001-6011*	*89001-6011*	*87005-6001*	*93089-6001*	*93011-6107*	*93089-6101*	*93089-6101*	*87005-6002*	*93089-6002*	*93011-6106*	*93089-6102*	*93089-6102*
Sample Date:		*3/20/89*	*3/20/89*	*3/20/89*	*3/20/89*	*3/20/89*	*3/20/89*	*10/5/93*	*12/7/94*	*4/18/96*	*10/7/96*	*10/7/96*	*10/5/93*	*12/7/94*	*4/18/96*	*10/7/96*	*10/17/96*
Analysis Date:		*3/20/89*	*3/22/89*	*3/26/89*	*3/20/89*	*3/22/89*	*3/26/89*	*10/5/93*	*12/7/94*	*4/18/96*	*10/7/96*	*10/20/96*	*10/5/93*	*12/7/94*	*4/18/96*	*10/7/96*	*10/17/96*
Sample Depth:								(3-4)		(10.5-)	(11-13)	(11-13)	(3-4)		(10.5-)	(3-5)	(3-5)
Parameters	*Units*																
Acetone A	ug/Kg	-	-	-	-	-	-	-	-	-	-	1400	-	-	-	-	-
C10H12 aromatic A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10H14 aromatic A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C9H10 aromatic A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylnaphthalene A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1400
Dimethylnaphthalene B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2200
Methylnaphthalene isomer A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3900
Methylnaphthalene isomer B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2600
Naphthalene A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6200
Unknown A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown D	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon C	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE N

ANALYTICAL RESULTS SUMMARY
HISTORIC FILL SOILS
LINDEN, NJ

Sample Location:		SB-03	SB-03	SB-03	SB-03	SB-03	SB-03	SB-03	SB-03	SB-04	SB-04	SB-04	SB-05	SB-05	SB-05	SB-05
Sample Name:		87005-6003	87005-6003	93089-6003	93011-6108	93089-6103a	93089-6103a	93089-6103b	93089-6103b	93011-6003	93089-6104	93089-6104	93089-6005	93011-6005	93089-6105	93089-6105
Sample Date:		10/5/93	10/5/93	12/7/94	4/18/96	10/8/96	10/8/96	10/8/96	10/8/96	4/18/96	10/8/96	10/8/96	12/7/93	4/18/96	10/9/96	10/9/96
Analysis Date:		10/5/93	10/5/93	12/7/94	4/18/96	10/8/96	10/21/96	10/8/96	10/20/96	4/18/96	10/8/96	10/20/96	12/7/93	4/18/96	10/8/96	10/18/96
Sample Depth:		(3-4)	(3-4) Duplicate		(10.5-)	(3-5)	(3-5)	(9-11)	(9-11)	(0-1)	(5-7)	(5-7)		(0-1)	(3-5)	(3-5)
Parameters	*Units*															
Metals																
Aluminum	mg/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/Kg	ND	ND	13	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls																
Aroclor-1016 (PCB-1016)	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides																
4,4'-DDD	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlordane	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products																
Total Petroleum Hydrocarbons	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatiles																
1,2-Dichlorobenzene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl naphthalene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzidine	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzoic acid	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE N

ANALYTICAL RESULTS SUMMARY
HISTORIC - SOILS
LINDEN, NJ

Sample Location:		*SB-03*	*SB-03*	*SB-03*	*SB-03*	*SB-03*	*SB-03*	*SB-03*	*SB-03*	*SB-04*	*SB-04*	*SB-04*	*SB-05*	*SB-05*	*SB-05*	*SB-05*
Sample Name:		*#7005-6003*	*#7005-6003*	*93089-6003*	*93011-6108*	*93089-6103a*	*93089-6103a*	*93089-6103b*	*93089-6103b*	*93011-6003*	*93089-6104*	*93089-6104*	*93089-6005*	*93011-6005*	*93089-6105*	*93089-6105*
Sample Date:		*10/5/93*	*10/5/93*	*12/7/94*	*4/18/96*	*10/8/96*	*10/8/96*	*10/8/96*	*10/20/96*	*4/18/96*	*10/8/96*	*10/8/96*	*12/7/93*	*4/18/96*	*10/9/96*	*10/9/96*
Analysis Date:		*10/5/93*	*10/5/93*	*12/7/94*	*4/18/96*	*10/8/96*	*10/21/96*	*10/8/96*	*10/20/96*	*4/18/96*	*10/8/96*	*10/20/96*	*12/7/93*	*4/18/96*	*10/9/96*	*10/18/96*
Sample Depth:		*(3-4)*	*(3-4) Duplicate*		*(10.5-)*	*(3-5)*	*(3-5)*	*(9-11)*	*(9-11)*	*(0-1)*	*(5-7)*	*(5-7)*		*(0-1)*	*(3-5)*	*(3-5)*
Parameters	*Units*															
Benzyl Alcohol	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitroso-di-n-propylamine	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyridine	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL NON-TARGETED BASE NEUTRALS	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL TARGETED BASE NEUTRALS	ug/Kg	ND	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatiles																
1,1,1-Trichloroethane	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (6)	ND	-	ND (160)
1,1,2,2-Tetrachloroethane	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (2)	ND	-	ND (160)
1,1,2-Trichloroethane	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (4)	ND	-	ND (160)
1,1-Dichloroethane	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (6)	ND	-	ND (160)
1,1-Dichloroethene	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (2)	ND	-	ND (160)
1,2-Dichlorobenzene	ug/Kg	-	-	-	ND	-	-	-	-	ND	-	-	ND (6)	ND	-	-
1,2-Dichloroethane	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (2)	ND	-	ND (160)
1,2-Dichloropropane	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (1)	ND	-	ND (160)
1,3-Dichlorobenzene	ug/Kg	-	-	-	ND	-	-	-	-	ND	-	-	ND (6)	ND	-	-
1,4-Dichlorobenzene	ug/Kg	-	-	-	ND	-	-	-	-	ND	-	-	ND (6)	ND	-	-
2-Butanone	ug/Kg	-	-	-	ND	-	-	-	-	ND	-	-	ND (30)	ND	-	-
2-Chloroethyl vinyl ether	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (12)	ND	-	ND (160)
2-Hexanone	ug/Kg	-	-	-	ND	-	-	-	-	ND	-	-	ND (24)	ND	-	-
4-Methyl-2-pentanone	ug/Kg	-	-	-	ND	-	-	-	-	ND	-	-	ND (30)	ND	-	-
Acetone	ug/Kg	-	-	-	ND	-	-	-	-	ND	-	-	ND (24)	ND	-	-
Acrolein	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	1.6	ND (1)	ND	-	ND (160)
Bromodichloromethane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	ND (1)	-	-	-
Bromodichloromethane	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	-	ND	-	ND (160)
Bromoform	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (5)	ND	-	ND (160)
Bromomethane	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (12)	ND	-	ND (160)
Carbon disulfide	ug/Kg	-	-	-	ND	-	-	-	-	ND	-	-	ND (6)	ND	-	-
Carbon tetrachloride	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (2)	ND	-	ND (160)
Chlorobenzene	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (5)	ND	-	ND (160)
Chloroethane	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (12)	ND	-	ND (160)
Chloroform (Trichloromethane)	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (6)	ND	-	ND (160)
Chloromethane	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (12)	ND	-	ND (160)
cis-1,2-Dichloroethene	ug/Kg	-	-	-	-	-	ND (1.4)	-	ND (1.2)	-	-	ND (1.2)	-	-	-	ND (160)
cis-1,3-Dichloropropene	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (6)	ND	-	ND (160)
Dibromochloromethane	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (6)	ND	-	ND (160)
Dibromomethane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diisopropyl ether	ug/Kg	-	-	-	ND	-	-	-	-	ND	-	-	ND (6)	ND	-	-
Ethylbenzene	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (6)	ND	-	ND (160)
m&p-Xylene	ug/Kg	-	-	-	ND	-	-	-	-	ND	-	-	ND (6)	ND	-	-
Methyl Tert Butyl Ether	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (6)	ND	-	-
Methylene chloride	ug/Kg	-	-	-	ND	-	3.8 B	-	1.1 JB	ND	-	1.6 B	2 J	ND	-	ND (160)
o-Xylene	ug/Kg	-	-	-	ND	-	-	-	-	ND	-	-	ND (6)	ND	-	-
Styrene	ug/Kg	-	-	-	ND	-	-	-	-	ND	-	-	ND (6)	ND	-	-
Tert-Butyl Alcohol	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (120)	ND	-	-
Tetrachloroethene	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (1)	ND	-	ND (160)
Toluene	ug/Kg	-	-	-	ND	-	3.8	-	ND (1.2)	ND	-	2.3	ND (6)	ND	-	ND (160)
Total VOCS	ug/Kg	-	-	-	ND	-	-	-	-	ND	-	-	2	ND	-	-
trans-1,2-Dichloroethene	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (6)	ND	-	ND (160)
trans-1,3-Dichloropropene	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (6)	ND	-	ND (160)
Trichloroethene	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (1)	ND	-	ND (160)
Trichlorofluoromethane (CFC-11)	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (6)	ND	-	ND (160)
Vinyl Acetate	ug/Kg	-	-	-	ND	-	-	-	-	ND	-	-	ND (12)	ND	-	-
Vinyl chloride	ug/Kg	-	-	-	ND	-	ND (1.4)	-	ND (1.2)	ND	-	ND (1.2)	ND (6)	ND	-	ND (160)
Xylene (total)	ug/Kg	-	-	-	-	-	3.1	-	ND (1.2)	-	-	1.8	-	-	-	ND (160)
Volatile TICS																

TABLE N

ANALYTICAL RESULTS SUMMARY
HISTORIC FILL SOILS
LINDEN, NJ

Sample Location:		SB-03	SB-03	SB-03	SB-03	SB-03	SB-03	SB-03	SB-03	SB-04	SB-04	SB-04	SB-05	SB-05	SB-05	SB-05
Sample Name:		87005-6003	87005-6003	93089-6003	93011-6108	93089-6103a	93089-6103a	93089-6103b	93089-6103b	93011-6003	93089-6104	93089-6104	93089-6005	93011-6005	93089-6105	93089-6105
Sample Date:		10/5/93	10/5/93	12/7/94	4/18/96	10/8/96	10/8/96	10/8/96	10/8/96	4/18/96	10/8/96	10/8/96	12/7/93	4/18/96	10/9/96	10/9/96
Analysis Date:		10/5/93	10/5/93	12/7/94	4/18/96	10/8/96	10/21/96	10/8/96	10/20/96	4/18/96	10/8/96	10/20/96	12/7/93	4/18/96	10/9/96	10/18/96
Sample Depth:		(3-4)	(3-4) Duplicate		(10.5-)	(3-5)	(3-5)	(9-11)	(9-11)	(0-1)	(5-7)	(5-7)		(0-1)	(3-5)	(3-5)
Parameters	Units															
Acetone A	ug/Kg	-	-	-	-	-	8.5	-	69	-	-	25	-	-	-	-
C10H12 aromatic A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10H14 aromatic A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C9H10 aromatic A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylnaphthalene A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylnaphthalene B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene isomer A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene isomer B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene A	ug/Kg	-	-	-	-	-	17	-	-	-	-	-	-	-	-	5500
Unknown A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown D	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon C	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE N

ANALYTICAL RESULTS SUMMARY
HISTORIC - SOILS
LINDEN, NJ

Sample Location:		SB-06	SB-06	SB-07	SB-07	SB-08	SB-08	SB-08	SB-08	SB-09	SB-09	SB-10	SB-10	SB-10	SB-12	SB-12
Sample Name:		93089-6106	93089-6106	93089-6107	93089-6107	93089-6108a	93089-6108a	93089-6108b	93089-6108b	93089-6109	93089-6109	93089-6110a	93089-6110a	93089-6110b	93089-6112	93089-6112
Sample Date:		10/9/96	10/9/96	10/9/96	10/9/96	10/9/96	10/9/96	10/9/96	10/9/96	10/9/96	10/9/96	10/9/96	10/22/96	10/9/96	10/10/96	10/10/96
Analysis Date:		10/9/96	10/22/96	10/9/96	10/21/96	10/9/96	10/18/96	10/9/96	10/21/96	10/9/96	10/22/96	10/9/96	10/22/96	10/22/96	10/10/96	10/20/96
Sample Depth:		(7-9)	(7-9)	(29-31)	(29-31)	(5-7)	(5-7)	(27-29)	(27-29)	(7-9)	(7-9)	(15-17)	(15-17)	(19-21)	(6-8)	(6-8)
Parameters	*Units*															
Metals																
Aluminum	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls																
Aroclor-1016 (PCB-1016)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides																
4,4'-DDD	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlordane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products																
Total Petroleum Hydrocarbons	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatiles																
1,2-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl naphthalene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzidine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzoic acid	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ANALYTICAL R[illegible]TS SUMMARY
HISTO[illegible]OILS
LIN[illegible], NJ

Sample Location:		SB-06	SB-06	SB-07	SB-07	SB-08	SB-08	SB-08	SB-08	SB-09	SB-09	SB-10	SB-10	SB-10	SB-12	SB-12
Sample Name:		93089-6106	93089-6106	93089-6107	93089-6107	93089-6108a	93089-6108a	93089-6108b	93089-6108b	93089-6109	93089-6109	93089-6110a	93089-6110a	93089-6110b	93089-6112	93089-6112
Sample Date:		10/9/96	10/9/96	10/9/96	10/9/96	10/9/96	10/9/96	10/9/96	10/9/96	10/9/96	10/9/96	10/9/96	10/9/96	10/9/96	10/10/96	10/10/96
Analysis Date:		10/9/96	10/22/96	10/9/96	10/21/96	10/9/96	10/18/96	10/9/96	10/21/96	10/9/96	10/22/96	10/9/96	10/22/96	10/22/96	10/10/96	10/21/96
Sample Depth:		(7-9)	(7-9)	(29-31)	(29-31)	(5-7)	(5-7)	(27-29)	(27-29)	(7-9)	(7-9)	(15-17)	(15-17)	(19-21)	(6-8)	(6-8)
Parameters	*Units*															
Benzyl Alcohol	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyridine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL NON-TARGETED BASE NEUTRALS	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL TARGETED BASE NEUTRALS	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatiles																
1,1,1-Trichloroethane	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (180)
1,1,2,2-Tetrachloroethane	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (180)
1,1,2-Trichloroethane	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (160)
1,1-Dichloroethane	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (160)
1,1-Dichloroethene	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (160)
1,2-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (160)
1,2-Dichloropropane	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (160)
1,3-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (160)
2-Hexanone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (160)
Bromodichloroethane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (180)
Bromoform	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (160)
Bromomethane	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (160)
Carbon disulfide	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (180)
Chlorobenzene	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (180)
Chloroethane	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (160)
Chloroform (Trichloromethane)	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (180)
Chloromethane	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (160)
cis-1,2-Dichloroethene	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (180)
cis-1,3-Dichloropropene	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (180)
Dibromochloromethane	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (160)
Dibromomethane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diisopropyl ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (160)
m&p-Xylene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert Butyl Ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/Kg	-	1.5 B	-	4.8 B	-	ND (160)	-	5.3 B	-	ND (1.2)	-	0.9 JB	-	-	ND (180)
o-Xylene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tert-Butyl Alcohol	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (180)
Toluene	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (180)
Total VOCS	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (180)
trans-1,3-Dichloropropene	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (180)
Trichloroethene	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (180)
Trichlorofluoromethane (CFC-11)	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (160)
Vinyl acetate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (160)	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (160)
Xylene (total)	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	80 J	-	ND (1.2)	-	ND (1.2)	-	ND (1.2)	-	-	ND (160)
Volatile TICS																

TABLE N

ANALYTICAL RESULTS SUMMARY
HISTORIC - SOILS
LINDEN, NJ

Sample Location:		*SB-06*	*SB-06*	*SB-07*	*SB-07*	*SB-08*	*SB-08*	*SB-08*	*SB-08*	*SB-09*	*SB-09*	*SB-10*	*SB-10*	*SB-10*	*SB-12*	*SB-12*
Sample Name:		*93089-6106*	*93089-6106*	*93089-6107*	*93089-6107*	*93089-6108a*	*93089-6108a*	*93089-6108b*	*93089-6108b*	*93089-6109*	*93089-6109*	*93089-6110a*	*93089-6110a*	*93089-6110b*	*93089-6112*	*93089-6112*
Sample Date:		*10/9/96*	*10/9/96*	*10/9/96*	*10/9/96*	*10/9/96*	*10/9/96*	*10/9/96*	*10/9/96*	*10/9/96*	*10/9/96*	*10/9/96*	*10/9/96*	*10/9/96*	*10/10/96*	*10/10/96*
Analysis Date:		*10/9/96*	*10/22/96*	*10/9/96*	*10/21/96*	*10/9/96*	*10/18/96*	*10/9/96*	*10/21/96*	*10/9/96*	*10/22/96*	*10/9/96*	*10/22/96*	*10/22/96*	*10/10/96*	*10/20/96*
Sample Depth:		*(7-9)*	*(7-9)*	*(29-31)*	*(29-31)*	*(5-7)*	*(5-7)*	*(27-29)*	*(27-29)*	*(7-9)*	*(7-9)*	*(15-17)*	*(15-17)*	*(19-21)*	*(6-8)*	*(6-8)*
Parameters	*Units*															
Acetone A	ug/Kg	-	61	-	53	-	-	-	970	-	14	-	610	640	-	-
C10H12 aromatic A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	17	-	-	51000
C10H14 aromatic A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73000
C9H10 aromatic A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylnaphthalene A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylnaphthalene B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene isomer A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene isomer B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown A	ug/Kg	-	-	-	-	-	-	-	-	-	6.2	-	-	-	-	-
Unknown B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown D	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon A	ug/Kg	-	-	-	-	-	7000	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon B	ug/Kg	-	-	-	-	-	3200	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon C	ug/Kg	-	-	-	-	-	2400	-	-	-	-	-	-	-	-	-

Notes:
J
B
ND

TABLE N

ANALYTICAL RESULTS SUMMARY
HISTO[redacted]OILS
LIN[redacted]NJ

Sample Location:		SB-13	SB-13	SB-13	SB-13	SB-16	SB-16	SB-17	SB-17	SB-18	SB-18	SB-18	SB-18	SB-23	SB-23
Sample Name:		93089-6113a	93089-6113a	93089-6113b	93089-6113b	93089-6116	93089-6116	93089-6117	93089-6117	93089-6118a	93089-6118a	93089-6118b	93089-6118b	93089-6123	93089-6123
Sample Date:		10/10/96	10/10/96	10/10/96	10/10/96	10/11/96	10/11/96	10/11/96	10/11/96	10/11/96	10/24/96	10/11/96	10/11/96	10/15/96	10/15/96
Analysis Date:		10/10/96	10/23/96	10/10/96	10/23/96	10/11/96	10/23/96	10/11/96	10/23/96	10/11/96	10/24/96	10/11/96	10/23/96	10/15/96	10/25/96
Sample Depth:		(8-10)	(8-10)	(14-16)	(14-16)	(6-8)	(6-8)	(7-9)	(7-9)	(9-11)	(9-11)	(11-13)	(11-13)	(6-8)	(6-8)
Parameters	*Units*														
Metals															
Aluminum	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls															
Aroclor-1016 (PCB-1016)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides															
4,4'-DDD	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlordane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (Lindane)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products															
Total Petroleum Hydrocarbons	mg/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatiles															
1,2-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl naphthalene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzidine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzoic acid	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE N

ANALYTICAL RESULTS SUMMARY
HISTORIC - SOILS
LINDEN, NJ

Sample Location:		SB-13	SB-13	SB-13	SB-13	SB-16	SB-16	SB-17	SB-17	SB-18	SB-18	SB-18	SB-18	SB-23	SB-23
Sample Name:		93089-6113a	93089-6113a	93089-6113b	93089-6113b	93089-6116	93089-6116	93089-6117	93089-6117	93089-6118a	93089-6118a	93089-6118b	93089-6118b	93089-6123	93089-6123
Sample Date:		10/10/96	10/10/96	10/10/96	10/10/96	10/11/96	10/11/96	10/11/96	10/11/96	10/11/96	10/24/96	10/11/96	10/23/96	10/15/96	10/15/96
Analysis Date:		10/10/96	10/23/96	10/10/96	10/23/96	10/11/96	10/23/96	10/11/96	10/23/96	10/11/96	10/24/96	10/11/96	10/23/96	10/15/96	10/25/96
Sample Depth:		(8-10)	(8-10)	(14-16)	(14-16)	(6-8)	(6-8)	(7-9)	(7-9)	(9-11)	(9-11)	(11-13)	(11-13)	(6-8)	(6-8)
Parameters	*Units*														
Benzyl Alcohol	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyridine	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL NON-TARGETED BASE NEUTRALS	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL TARGETED BASE NEUTRALS	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatiles															
1,1,1-Trichloroethane	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
1,1,2,2-Tetrachloroethane	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
1,1,2-Trichloroethane	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
1,1-Dichloroethane	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
1,1-Dichloroethene	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
1,2-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
1,2-Dichloropropane	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
1,3-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
2-Hexanone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	4.0	-	0.8 J	-	9.2	-	ND (1.2)
Bromodichloromethane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
Bromoform	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
Bromomethane	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
Carbon disulfide	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
Chlorobenzene	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
Chloroethane	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
Chloroform (Trichloromethane)	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
Chloromethane	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
cis-1,2-Dichloroethene	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	9.2	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
cis-1,3-Dichloropropene	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
Dibromochloromethane	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
Dibromomethane	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diisopropyl ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	71	-	ND (1.2)	-	4.0	-	ND (1.2)
m&p-Xylene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert Butyl Ether	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/Kg	-	2.6 B	-	2.5 B	-	6.4	-	7.3 B	-	3.0 B	-	4.8 B	-	2.7 B
o-Xylene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tert-Butyl Alcohol	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
Toluene	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	33	-	0.9 J	-	2.6	-	ND (1.2)
Total VOCS	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7
trans-1,2-Dichloroethene	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
trans-1,3-Dichloropropene	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
Trichloroethene	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
Trichlorofluoromethane (CFC-11)	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
Vinyl Acetate	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	ND (2.5)	-	ND (1.2)	-	ND (1.3)	-	ND (1.2)
Xylene (total)	ug/Kg	-	ND (1.2)	-	ND (1.2)	-	ND (1.1)	-	320	-	ND (1.2)	-	7.8	-	ND (1.2)
Volatile TICS															

TABLE N

ANALYTICAL RESULTS SUMMARY
HISTO[redacted]OILS
LIN[redacted]NJ

Sample Location:		SB-13	SB-13	SB-13	SB-13	SB-16	SB-16	SB-17	SB-17	SB-18	SB-18	SB-18	SB-18	SB-23	SB-23
Sample Name:		93089-6113a	93089-6113a	93089-6113b	93089-6113b	93089-6116	93089-6116	93089-6117	93089-6117	93089-6118a	93089-6118a	93089-6118b	93089-6118b	93089-6123	93089-6123
Sample Date:		10/10/96	10/10/96	10/10/96	10/10/96	10/11/96	10/11/96	10/11/96	10/23/96	10/11/96	10/24/96	10/11/96	10/23/96	10/15/96	10/25/96
Analysis Date:		10/10/96	10/23/96	10/10/96	10/23/96	10/11/96	10/23/96	10/11/96	10/23/96	10/11/96	10/24/96	10/11/96	10/23/96	10/15/96	10/25/96
Sample Depth:		(8-10)	(8-10)	(14-16)	(14-16)	(6-8)	(6-8)	(7-9)	(7-9)	(9-11)	(9-11)	(11-13)	(11-13)	(6-8)	(6-8)
Parameters	*Units*														
Acetone A	ug/Kg	-	-	-	-	-	-	-	15	-	7.0	-	9.2	-	-
C10H12 aromatic A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10H14 aromatic A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C9H10 aromatic A	ug/Kg	-	-	-	-	-	-	-	.17	-	-	-	-	-	-
Dimethylnaphthalene A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethylnaphthalene B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene isomer A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylnaphthalene isomer B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene A	ug/Kg	-	-	-	-	-	-	-	19	-	-	-	7.2	-	-
Unknown A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	17	-	-
Unknown D	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon A	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon B	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon C	ug/Kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-

= Estimated Value.
= <CRDL but >= Instrument Detection Limit (IDL).
= Non-detect at associated level.

HISTORICAL GROUNDWATER DATA TABLES

APPENDIX O

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		BEC-1B	BEC-1B	BEC-1D	BEC-1D	BEC-1D	BEC-1D	BEC-1D	BEC-1S	BEC-1S	BEC-1S	BEC-1S	BEC-1SR	BEC-1SR	BEC-1SR	BEC-2B	BEC-2B	BEC-2D
Sample ID:		2310	2310	2010	89001-2014	89001-2010	93089-2302A	93089-2302A	2001	89001-2001	93089-2201	93089-2201	93089-2401	93089-2401	93089-2401	2311	2311	2071
Sample Date:		8/8/95	8/8/95	11/8/90	12/12/90	12/15/90	8/10/95	8/10/95	11/8/90	12/12/90	4/20/95	4/20/95	3/12/96	3/12/96	3/25/96	8/8/95	8/12/95	11/8/90
Analysis Date:		8/9/95	8/12/95	11/9/90	12/12/90	12/15/90	8/10/95	8/16/95	11/8/90	12/12/90	4/20/95	5/1/95	3/12/96	3/13/96	3/25/96	8/8/95	8/12/95	11/8/90
Sample Depth:																		
Parameters	**Units**																	
Metals																		
Antimony	mg/L	-	-	-	-	ND (0.01)	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	ND (0.01)	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	ND (0.01)	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	ND (0.01)	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	0.001	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	0.03	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	0.11	-	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	-	-	-	-	-	-	-	-	-	-	19.8	-	6.7	-	-	-	-
Mercury	mg/L	-	-	-	-	ND (0.002)	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	ND (0.01)	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	ND (0.01)	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	ND (0.01)	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	ND (0.01)	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	0.11	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls																		
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	ND (0.5)	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	ND (0.5)	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	ND (0.5)	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	ND (0.5)	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	ND (0.5)	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	ND (1.0)	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	ND (1.0)	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides																		
4,4'-DDD	ug/L	-	-	-	-	ND (0.1)	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	ND (0.1)	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	ND (0.1)	-	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	ND (0.05)	-	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	ND (0.05)	-	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	ND (0.05)	-	-	-	-	-	-	-	-	-	-	-	-
Chlordane	ug/L	-	-	-	-	ND (0.5)	-	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	ND (0.05)	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	ND (0.1)	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	ND (0.1)	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	ND (0.1)	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	ND (0.1)	-	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	ND (0.1)	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	ND (0.05)	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	ND (0.05)	-	-	-	-	-	-	-	-	-	-	-	-
tau-BHC	ug/L	-	-	-	-	ND (0.05)	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	ND (1.0)	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatiles																		
1,2,4-Trichlorobenzene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
1,2-Dichlorobenzene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
1,2-Diphenylhydrazine	ug/L	-	-	-	-	ND (10.0)	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
1,4-Dichlorobenzene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
2,6-Dinitrotoluene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
2-Chloronaphthalene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl naphthalene	ug/L	-	-	-	-	ND (10.0)	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	ND (20)	ND (20)	ND (50.0)	-	-	ND (20)	ND (20)	-	-	-	-	-	-	-	ND (20)
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloronapthalene	ug/L	-	-	-	-	ND (10.0)	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Acenaphthylene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Anthracene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Benzidine	ug/L	-	-	ND (20)	ND (20)	ND (10.0)	-	-	ND (20)	ND (20)	-	-	-	-	-	-	-	ND (20)
Benzo(a)anthracene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Benzo(a)pyrene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		BEC-1B	BEC-1B	BEC-1D	BEC-1D	BEC-1D	BEC-1D	BEC-1D	BEC-1S	BEC-1S	BEC-1S	BEC-1S	BEC-1SR	BEC-1SR	BEC-1SR	BEC-2B	BEC-2B	BEC-2D
Sample ID:		2310	2310	2010	89001-2014	89001-2010	93089-2302A	93089-2302A	2001	89001-2001	93089-2201	93089-2201	93089-2401	93089-2401	93089-2401	2311	2311	2011
Sample Date:		8/9/95	8/9/95	11/8/90	12/12/90	12/15/90	8/10/95	8/10/95	11/8/90	12/12/90	4/20/95	4/20/95	3/12/96	3/12/96	3/12/96	8/8/95	8/8/95	11/8/90
Analysis Date:		8/9/95	8/12/95	11/8/90	12/12/90	12/15/90	8/10/95	8/16/95	11/8/90	12/12/90	4/20/95	5/1/95	3/12/96	3/13/96	3/25/96	8/8/95	8/12/95	11/8/90
Sample Depth:																		
Parameters	*Units*																	
Benzo(b)fluoranthene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Benzo(g,h,i)perylene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Benzo(k)fluoranthene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Benzoic acid	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl Alcohol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
bis(2-Chloroethyl)ether	ug/L	-	-	ND (10)	4.6 J	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	0.39 J
bis(2-Ethylhexyl)phthalate	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Butyl benzylphthalate	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Chrysene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Di-n-butylphthalate	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Di-n-octyl phthalate	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Dibenz(a,h)anthracene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Dibenzofuran	ug/L	-	-	-	-	ND (10.0)	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Dimethyl phthalate	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Fluoranthene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Fluorene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Hexachlorobenzene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Hexachlorobutadiene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Hexachlorocyclopentadiene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Hexachloroethane	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Indeno(1,2,3-cd)pyrene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Isophorone	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
N-Nitrosodi-n-propylamine	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
N-Nitrosodimethylamine	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
N-Nitrosodiphenylamine	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Naphthalene	ug/L	-	-	0.40 J	ND (10)	ND (10.0)	-	-	ND (10)	2.3 J	-	-	-	-	-	-	-	ND (10)
Nitrobenzene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	ug/L	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
Pyridine	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Targeted Compounds	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL NON-TARGETED BASE NEUTRALS	ug/L	-	-	-	ND	-	-	-	-	ND	-	-	-	-	-	-	-	-
TOTAL TARGETED BASE NEUTRALS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile TICS																		
1,2,3,4-Tetrahydro-naphthalene A	ug/L	-	-	-	-	-	-	-	5	5	-	-	-	-	-	-	-	-
1,2,3,4-Tetramethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-2-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one,2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	ug/L	-	-	4.6 J	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	-	-	-	-	-	-	-	ND (10)
2,4,4-Trimethyl-2-pentene A	ug/L	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-
Benzene, 1,3,5-trimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethyl-2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-propyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, ethyl-1,2,4-trimeth A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)thiophene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexanone A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopropane, pentyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclotetrasiloxane, octamethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl cyclohexane (isomers) A	ug/L	-	-	-	-	-	-	-	10	9	-	-	-	-	-	-	-	-
Dodecanamide, n,n-bis(2-hydroxyethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexanedioic acid, mono(2-eth A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indane A	ug/L	-	-	-	-	-	-	-	-	37	-	-	-	-	-	-	-	-
Tetrachloroethene A	ug/L	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
Unknown A	ug/L	-	-	-	5	-	-	-	8	-	-	-	-	-	-	-	-	4
Unknown B	ug/L	-	-	-	44	-	-	-	8	-	-	-	-	-	-	-	-	33
Unknown C	ug/L	-	-	-	-	-	-	-	5	8	-	-	-	-	-	-	-	-
Unknown D	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene(ortho) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatiles																		
1,1,1-Trichloroethane	ug/L	-	ND (2.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	-	ND (0.2)	-	ND (0.4)	ND (5.0)
1,1,2,2-Tetrachloroethane	ug/L	-	ND (3.3)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	ND (5.0)	ND (5.0)	-	ND (0.3)	-	-	ND (0.3)	-	ND (0.7)	ND (5.0)
1,1,2-Trichloroethane	ug/L	-	ND (4.3)	3.6 J	ND (5.0)	ND (5.0)	-	ND (0.4)	ND (5.0)	ND (5.0)	-	ND (0.4)	-	-	ND (0.4)	-	ND (0.9)	ND (5.0)
1,1-Dichloroethane	ug/L	-	ND (3.1)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	ND (5.0)	ND (5.0)	-	ND (0.3)	-	-	ND (0.3)	-	ND (0.6)	ND (5.0)
1,1-Dichloroethene	ug/L	-	ND (5.5)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.6)	ND (5.0)	ND (5.0)	-	ND (0.6)	-	-	ND (0.6)	-	7.3	ND (5.0)
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	ug/L	-	ND (2.2)	30	53	ND (5.0)	-	25	ND (5.0)	ND (5.0)	-	ND (0.2)	-	-	ND (0.2)	-	4.6	8.6
1,2-Dichloropropane	ug/L	-	ND (4.6)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.5)	ND (5.0)	ND (5.0)	-	ND (0.5)	-	-	ND (0.5)	-	ND (0.9)	ND (5.0)
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL R[illegible]TS SUMMARY
HISTORIC - [illegible]NDWATER
LIND[illegible], NJ

Sample Location:		BEC-1B	BEC-1B	BEC-1D	BEC-1D	BEC-1D	BEC-1D	BEC-1D	BEC-1S	BEC-1S	BEC-1S	BEC-1S	BEC-1SR	BEC-1SR	BEC-1SR	BEC-2B	BEC-2B	BEC-2D
Sample ID:		2310	2310	2010	89001-2014	89001-2010	93089-2302A	93089-2302A	2001	89001-2001	93089-2201	93089-2201	93089-2401	93089-2401	93089-2401	2311	2311	2011
Sample Date:		8/9/95	8/9/95	11/8/90	12/12/90	12/15/90	8/10/95	8/10/95	11/8/90	12/12/90	4/20/95	4/20/95	3/12/96	3/12/96	3/12/96	8/8/95	8/8/95	11/8/90
Analysis Date:		8/9/95	8/12/95	11/8/90	12/12/90	12/15/90	8/10/95	8/16/95	11/8/90	12/12/90	4/20/95	5/1/95	3/12/96	3/13/96	3/25/96	8/8/95	8/12/95	11/8/90
Sample Depth:																		
Parameters	*Units*																	
2-Butanone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	ug/L	-	ND (4.6)	ND (10)	ND (10)	ND (5.0)	-	ND (0.5)	ND (10)	ND (10)	-	ND (0.5)	-	-	ND (0.5)	-	ND (0.9)	ND (10)
2-Hexanone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	ug/L	-	-	-	-	ND (5.0)	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	ug/L	-	-	-	-	ND (5.0)	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	ug/L	-	180	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	2.8 J	2.6 J	-	1.8	-	-	ND (0.2)	-	ND (0.5)	ND (5.0)
Bromodichloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	-	ND (1.9)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	-	ND (0.2)	-	ND (0.4)	ND (5.0)
Bromoform	ug/L	-	11	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	ND (5.0)	ND (5.0)	-	ND (0.3)	-	-	ND (0.3)	-	ND (0.6)	ND (5.0)
Bromomethane	ug/L	-	ND (2.7)	ND (10)	ND (10)	ND (5.0)	-	ND (0.3)	ND (10)	ND (10)	-	ND (0.3)	-	-	ND (0.3)	-	ND (0.5)	ND (10)
Carbon disulfide	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	ug/L	-	ND (1.6)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	-	ND (0.2)	-	ND (0.3)	ND (5.0)
Chlorobenzene	ug/L	-	12	3.4 J	6.5	ND (5.0)	-	4.7	ND (5.0)	ND (5.0)	-	ND (0.1)	-	-	ND (0.1)	-	8.2	ND (5.0)
Chloroethane	ug/L	-	ND (10)	ND (10)	ND (10)	ND (5.0)	-	ND (1.0)	ND (10)	ND (10)	-	ND (1.0)	-	-	ND (1.0)	-	ND (2.1)	ND (10)
Chloroform (Trichloromethane)	ug/L	-	33	3.7 J	2.8 J	ND (5.0)	-	ND (0.2)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	-	ND (0.2)	-	7.0	1.4 J
Chloromethane	ug/L	-	ND (9.3)	ND (10)	ND (10)	ND (5.0)	-	ND (0.9)	ND (10)	ND (10)	-	ND (0.9)	-	-	ND (0.9)	-	ND (1.9)	ND (10)
cis-1,2-Dichloroethene	ug/L	-	36	-	-	-	-	23	-	-	-	ND (1.0)	-	-	ND (1.0)	-	39	-
cis-1,3-Dichloropropene	ug/L	-	ND (3.3)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	ND (5.0)	ND (5.0)	-	ND (0.3)	-	-	ND (0.3)	-	ND (0.7)	ND (5.0)
Cyclobutane, 1,2-diethyl-	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	-	ND (2.3)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	-	ND (0.2)	-	ND (0.5)	ND (5.0)
Dibromomethane	ug/L	-	-	-	-	ND (5.0)	-	-	-	-	-	-	-	-	-	-	-	-
Diisopropyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/L	-	ND (2.4)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	ND (5.0)	ND (5.0)	-	10	-	-	1.7	-	ND (0.5)	ND (5.0)
m&p-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert Butyl Ether	ug/L	-	ND (10)	-	-	-	-	ND (1.0)	-	-	-	-	-	-	ND (1.0)	-	ND (2.0)	-
Methylene chloride	ug/L	-	ND (10)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (1.0)	ND (5.0)	ND (5.0)	-	ND (1.0)	-	-	ND (1.0)	-	ND (2.1)	ND (5.0)
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tert-Butyl Alcohol	ug/L	-	ND (2500)	-	-	-	-	ND (250)	-	-	-	-	-	-	ND (250)	-	ND (500)	-
Tetrachloroethene	ug/L	-	ND (1.0)	11	14	ND (5.0)	-	8.3	ND (5.0)	ND (5.0)	-	ND (0.1)	-	-	ND (0.1)	-	ND (0.2)	1.4 J
Toluene	ug/L	-	ND (1.8)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	ND (5.0)	ND (5.0)	-	0.5	-	-	0.5	-	ND (0.4)	ND (5.0)
Total Targeted Compounds	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total VOCS	ug/L	-	-	-	ND	-	-	-	-	ND	-	-	-	-	30.2	-	-	-
trans-1,2-Dichloroethene	ug/L	-	18	36	48	ND (5.0)	-	4.9	ND (5.0)	ND (5.0)	-	ND (0.3)	-	-	ND (0.3)	-	2.2	7.9
trans-1,3-Dichloropropene	ug/L	-	ND (3.1)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	ND (5.0)	ND (5.0)	-	ND (0.3)	-	-	ND (0.3)	-	ND (0.6)	ND (5.0)
Trichloroethene	ug/L	-	490	300	430	11.3	-	260	ND (5.0)	ND (5.0)	-	ND (0.4)	-	-	ND (0.4)	-	230	70
Trichlorofluoromethane (CFC-11)	ug/L	-	ND (2.3)	ND (5.0)	ND (5.0)	-	-	ND (0.2)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	-	ND (0.2)	-	ND (0.5)	ND (5.0)
Vinyl acetate	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/L	-	ND (3.9)	ND (10)	ND (10)	ND (10.0)	-	ND (0.4)	ND (10)	ND (10)	-	ND (0.4)	-	-	ND (0.4)	-	ND (0.8)	ND (10)
Xylene (total)	ug/L	-	ND (10)	6.9	ND (5.0)	ND (5.0)	-	ND (1.0)	ND (5.0)	ND (5.0)	-	14	-	-	28	-	ND (2.0)	ND (5.0)
Volatile TICS																		
1,2,3,4-Tetramethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,5-Tetramethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Hexdiene, 2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Methanonaphthalene, 1,4- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Pentadiene, 2,3,4-trimet A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Pentadiene, 2,3,4-trimet B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethenyl-2-methyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-2-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-3-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Hexane, 5,5-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Methylethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Methylethyl-benzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Pentene, 3,4-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-5-ol, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-1,2-d A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-1,6-d A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-4-met A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Pyrazole, 4,5-dihydro-1,5 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl naphthalene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylbutane A	ug/L	-	-	-	-	-	-	-	-	20	-	-	-	-	-	-	-	-
2-Methylpentane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Hexene, 2,2-dimethyl-, (Z)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Hipten-2-one A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Ethyl-1,2-dimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,2,4,5-tetramethyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,2-diethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethyl-2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethylpropyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-(1-methylethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-(1-methylethyl)- B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-propyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		*BEC-1D*	*BEC-1B*	*BEC-1D*	*BEC-1D*	*BEC-1D*	*BEC-1D*	*BEC-1D*	*BEC-1S*	*BEC-1S*	*BEC-1S*	*BEC-1S*	*BEC-1SR*	*BEC-1SR*	*BEC-1SR*	*BEC-2B*	*BEC-2B*	*BEC-2D*
Sample ID:		2310	2310	2010	89001-2014	89001-2010	93089-2302A	93089-2302A	2001	89001-2001	93089-2201	93089-2201	93089-2401	93089-2401	93089-2401	2311	2311	2011
Sample Date:		8/8/95	8/9/95	11/8/90	12/12/90	12/15/90	8/10/95	8/10/95	11/8/90	12/12/90	4/20/95	4/20/95	3/12/96	3/12/96	3/25/96	8/8/95	8/8/95	11/8/90
Analysis Date:		8/8/95	8/12/95	11/8/90	12/12/90	12/15/90	8/10/95	8/16/95	11/8/90	12/12/90	4/20/95	5/1/95	3/12/96	3/13/96	3/25/96	8/8/95	8/12/95	11/8/90
Sample Depth:																		
Parameters	*Units*																	
Benzene, 1-methylpropyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 2-ethenyl-1,4-dimet A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 2-ethly-1,4-dimethy A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl Alcohol A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butane, 1-(1-methylpropoxy)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butane, 2-ethoxy- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10H12 aromatic *A	ug/L	-	-	-	-	-	-	-	-	-	-	3.9	-	-	3.3	-	-	-
C9H10 aromatic A	ug/L	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-
Cycloheptane, methyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopentene, 4,4-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopropane, 1-(2-methylbut)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclotetrasiloxane, octamethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diisopropyl ether A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl cyclohexane (isomers) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dodecanamide, n,n-bis(2-hydroxyethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ether A	ug/L	-	70	-	-	-	-	21	-	-	-	-	-	-	-	-	-	-
Ethyl Methyl Benzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylcyclobutane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylmethyl benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indan, 1-methyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indane A	ug/L	-	-	-	-	-	-	-	-	92	-	-	-	-	-	-	-	-
Naphthalene, 1,2,3,4-tetrahy A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrahydrofuran A	ug/L	-	-	-	15	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene A	ug/L	-	-	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown A	ug/L	-	-	10	-	-	-	-	10	24	-	4.4	-	-	4.7	-	-	-
Unknown B	ug/L	-	-	8	-	-	-	-	-	33	-	3.8	-	-	-	-	-	-
Unknown C	ug/L	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown D	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Aldehyde A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Alkane A	ug/L	-	-	-	-	-	-	-	9.0	-	-	-	-	-	-	-	-	-
Unknown Alkane B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C10H20 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C8H16 A	ug/L	-	-	-	-	-	-	-	-	89	-	-	-	-	-	-	-	-
Unknown Hydrocarbon A	ug/L	-	-	-	-	-	-	-	-	43	-	-	-	-	-	-	-	-
Unknown Hydrocarbon B	ug/L	-	-	-	-	-	-	-	-	20	-	-	-	-	-	-	-	-
Unknown isomer of trimethyl benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	3.8	-	-	-	-	-	-
Xylene(-ortho) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL R[illegible]TS SUMMARY
HISTORIC - [illegible]NDWATER
LINDEN, NJ

Sample Location:		*BEC-2D*	*BEC-2D*	*BEC-2D*	*BEC-2D*	*BEC-2S*	*BEC-2S*	*BEC-2S*	*BEC-2S*	*BEC-2S*	*BEC-2S*	*BEC-2S*	*BEC-2S*	*BEC-2S*	*BEC-2S*
Sample ID:		*89001-2015*	*89001-2011*	*93089-2302*	*93089-2302*	*89001-03-2002*	*89001-03-2002*	*89001-03-2002*	*89001-03-2006*	*89001-03-2006*	*89001-2002*	*89001-2005*	*93089-2100*	*93089-2202*	*93089-2202*
Sample Date:		*12/12/90*	*12/15/90*	*8/9/95*	*8/9/95*	*9/1/89*	*9/1/89*	*9/1/89*	*9/1/89*	*9/1/89*	*12/15/90*	*12/15/90*	*4/20/94*	*4/20/95*	*4/20/95*
Analysis Date:		*12/12/90*	*12/15/90*	*8/9/95*	*8/15/95*	*9/1/89*	*9/5/89*	*9/11/89*	*9/6/89*	*9/11/89*	*12/15/90*	*12/15/90*	*4/20/94*	*4/20/95*	*5/1/95*
Sample Depth:															
									Duplicate	Duplicate		Duplicate			
Parameters	*Units*														
Metals															
Antimony	mg/L	-	ND (0.01)	-	-	-	-	-	-	-	ND (0.01)	ND (0.01)	-	-	-
Arsenic	mg/L	-	ND (0.01)	-	-	-	-	-	-	-	ND (0.01)	ND (0.01)	-	-	-
Beryllium	mg/L	-	ND (0.01)	-	-	-	-	-	-	-	ND (0.01)	ND (0.01)	-	-	-
Cadmium	mg/L	-	ND (0.01)	-	-	-	-	-	-	-	ND (0.01)	ND (0.01)	-	-	-
Chromium	mg/L	-	0.01	-	-	-	-	-	-	-	ND (0.01)	ND (0.01)	-	-	-
Copper	mg/L	-	0.01	-	-	-	-	-	-	-	ND (0.01)	ND (0.01)	-	-	-
Lead	mg/L	-	0.05	-	-	-	-	-	-	-	0.04	0.04	-	-	-
Lead	ug/L	-	-	-	-	-	-	-	-	-	-	-	56	-	26.8
Mercury	mg/L	-	ND (0.002)	-	-	-	-	-	-	-	ND (0.002)	ND (0.002)	-	-	-
Nickel	mg/L	-	ND (0.01)	-	-	-	-	-	-	-	ND (0.01)	ND (0.01)	-	-	-
Selenium	mg/L	-	ND (0.01)	-	-	-	-	-	-	-	ND (0.01)	ND (0.01)	-	-	-
Silver	mg/L	-	ND (0.01)	-	-	-	-	-	-	-	ND (0.01)	ND (0.01)	-	-	-
Thallium	mg/L	-	ND (0.01)	-	-	-	-	-	-	-	ND (0.01)	ND (0.01)	-	-	-
Zinc	mg/L	-	ND (0.01)	-	-	-	-	-	-	-	ND (0.01)	ND (0.01)	-	-	-
Polychlorinated Biphenyls															
Aroclor-1016 (PCB-1016)	ug/L	-	ND (0.5)	-	-	-	-	-	-	-	ND (0.5)	ND (0.5)	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	ND (0.5)	-	-	-	-	-	-	-	ND (0.5)	ND (0.5)	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	ND (0.5)	-	-	-	-	-	-	-	ND (0.5)	ND (0.5)	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	ND (0.5)	-	-	-	-	-	-	-	ND (0.5)	ND (0.5)	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	ND (0.5)	-	-	-	-	-	-	-	ND (0.5)	ND (0.5)	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	ND (1.0)	-	-	-	-	-	-	-	ND (1.0)	ND (1.0)	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	ND (1.0)	-	-	-	-	-	-	-	ND (1.0)	ND (1.0)	-	-	-
Pesticides															
4,4'-DDD	ug/L	-	ND (0.1)	-	-	-	-	-	-	-	ND (0.1)	ND (0.1)	-	-	-
4,4'-DDE	ug/L	-	ND (0.1)	-	-	-	-	-	-	-	ND (0.1)	ND (0.1)	-	-	-
4,4'-DDT	ug/L	-	ND (0.1)	-	-	-	-	-	-	-	ND (0.1)	ND (0.1)	-	-	-
Aldrin	ug/L	-	ND (0.05)	-	-	-	-	-	-	-	ND (0.05)	ND (0.05)	-	-	-
alpha-BHC	ug/L	-	ND (0.05)	-	-	-	-	-	-	-	ND (0.05)	ND (0.05)	-	-	-
beta-BHC	ug/L	-	ND (0.05)	-	-	-	-	-	-	-	ND (0.05)	ND (0.05)	-	-	-
Chlordane	ug/L	-	ND (0.5)	-	-	-	-	-	-	-	ND (0.5)	ND (0.5)	-	-	-
delta-BHC	ug/L	-	ND (0.05)	-	-	-	-	-	-	-	ND (0.05)	ND (0.05)	-	-	-
Dieldrin	ug/L	-	ND (0.1)	-	-	-	-	-	-	-	ND (0.1)	ND (0.1)	-	-	-
Endosulfan I	ug/L	-	ND (0.1)	-	-	-	-	-	-	-	ND (0.1)	ND (0.1)	-	-	-
Endosulfan II	ug/L	-	ND (0.1)	-	-	-	-	-	-	-	ND (0.1)	ND (0.1)	-	-	-
Endrin	ug/L	-	ND (0.1)	-	-	-	-	-	-	-	ND (0.1)	ND (0.1)	-	-	-
Endrin aldehyde	ug/L	-	ND (0.1)	-	-	-	-	-	-	-	ND (0.1)	ND (0.1)	-	-	-
Heptachlor	ug/L	-	ND (0.05)	-	-	-	-	-	-	-	ND (0.05)	ND (0.05)	-	-	-
Heptachlor epoxide	ug/L	-	ND (0.05)	-	-	-	-	-	-	-	ND (0.05)	ND (0.05)	-	-	-
tau-BHC	ug/L	-	ND (0.05)	-	-	-	-	-	-	-	ND (0.05)	ND (0.05)	-	-	-
Toxaphene	ug/L	-	ND (1.0)	-	-	-	-	-	-	-	ND (1.0)	ND (1.0)	-	-	-
Semi-Volatiles															
1,2,4-Trichlorobenzene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
1,2-Dichlorobenzene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
1,2-Diphenylhydrazine	ug/L	-	ND (10.0)	-	-	-	-	-	-	-	ND (10.0)	ND (10.0)	-	-	-
1,3-Dichlorobenzene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
1,4-Dichlorobenzene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
2,4-Dinitrotoluene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
2,6-Dinitrotoluene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
2-Chloronaphthalene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
2-Methyl naphthalene	ug/L	-	ND (10.0)	-	-	-	-	-	-	-	ND (10.0)	ND (10.0)	ND (5)	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
3,3'-Dichlorobenzidine	ug/L	ND (80)	ND (50.0)	-	-	-	-	ND (20)	-	ND (20.0)	ND (50.0)	ND (50.0)	ND (5)	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
4-Bromophenyl phenyl ether	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
4-Chloronapthalene	ug/L	-	ND (10.0)	-	-	-	-	-	-	-	ND (10.0)	ND (10.0)	-	-	-
4-Chlorophenyl phenyl ether	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
Acenaphthene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Acenapthylene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Anthracene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Benzidine	ug/L	ND (80)	ND (10.0)	-	-	-	-	ND (20)	-	ND (20.0)	ND (10.0)	ND (10.0)	ND (10)	-	-
Benzo(a)anthracene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Benzo(a)pyrene	ug/L	ND (40)	ND (10.0)	-	-	-	-	-	-	-	ND (10.0)	ND (10.0)	ND (5)	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		BEC-2D	BEC-2D	BEC-2D	BEC-2D	BEC-2S	BEC-2S	BEC-2S	BEC-2S	BEC-2S	BEC-2S	BEC-2S	BEC-2S	BEC-2S	BEC-2S
Sample ID:		89001-2015	89001-2011	93089-2302	93089-2302	89001-03-2002	89001-03-2002	89001-03-2002	89001-03-2006	89001-03-2006	89001-2002	89001-2005	93089-2100	93089-2202	93089-2202
Sample Date:		12/12/90	12/15/90	8/9/95	8/9/95	9/1/89	9/1/89	9/1/89	9/1/89	9/1/89	12/15/90	12/15/90	4/20/94	4/20/95	4/20/95
Analysis Date:		12/12/90	12/15/90	8/9/95	8/15/95	9/1/89	9/5/89	9/11/89	9/6/89	9/11/89	12/15/90	12/15/90	4/20/94	4/20/95	5/1/95
Sample Depth:															
									Duplicate	Duplicate		Duplicate			
Parameters	*Units*														
Benzo(b)fluoranthene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Benzo(g,h,i)perylene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Benzo(k)fluoranthene	ug/L	ND (40)	ND (10.0)	-	-	-	-	-	-	-	ND (10.0)	ND (10.0)	ND (5)	-	-
Benzoic acid	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (10)	-	-
Benzyl Alcohol	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
bis(2-Chloroethoxy)methane	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
bis(2-Chloroethyl)ether	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
bis(2-Ethylhexyl)phthalate	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Butyl benzylphthalate	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Chrysene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Di-n-butylphthalate	ug/L	ND (40)	ND (10.0)	-	-	-	-	7 BJ	-	8 BJ	ND (10.0)	ND (10.0)	ND (5)	-	-
Di-n-octyl phthalate	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Dibenz(a,h)anthracene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Dibenzofuran	ug/L	-	ND (10.0)	-	-	-	-	-	-	-	ND (10.0)	ND (10.0)	ND (5)	-	-
Diethyl phthalate	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Dimethyl phthalate	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Fluoranthene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Fluorene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Hexachlorobenzene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Hexachlorobutadiene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Hexachlorocyclopentadiene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Hexachloroethane	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Indeno(1,2,3-cd)pyrene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Isophorone	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
N-Nitroso-di-n-propylamine	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
N-Nitrosodimethylamine	ug/L	ND (40)	ND (10.0)	-	-	-	-	-	-	-	ND (10.0)	ND (10.0)	ND (5)	-	-
N-Nitrosodiphenylamine	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Naphthalene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Nitrobenzene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
Phenanthrene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
Pyrene	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
Pyridine	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
Total Targeted Compounds	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL NON-TARGETED BASE NEUTRALS	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
TOTAL TARGETED BASE NEUTRALS	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND	-	-
Semi-Volatile TICS															
1,2,3,4-Tetrahydro-naphthalene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4-Tetramethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-2-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one,2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	ug/L	ND (40)	ND (10.0)	-	-	-	-	ND (10)	-	ND (10.0)	ND (10.0)	ND (10.0)	ND (5)	-	-
2,4,4-Trimethyl-2-pentene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,3,5-trimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethyl-2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-propyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, ethyl-1,2,4-trimeth A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)thiophene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexanone A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopropane, pentyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclotetrasiloxane, octamethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl cyclohexane (isomers) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dodecanamide, n,n-bis(2-hydroxyethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexanedioic acid, mono(2-eth A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown A	ug/L	16	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown D	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene(ortho) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatiles															
1,1,1-Trichloroethane	ug/L	ND (5.0)	ND (5.0)	-	ND (0.4)	-	ND (5)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (5)	-	ND (0.2)
1,1,2,2-Tetrachloroethane	ug/L	ND (5.0)	ND (5.0)	-	ND (0.7)	-	ND (5)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (2)	-	ND (0.3)
1,1,2-Trichloroethane	ug/L	ND (5.0)	ND (5.0)	-	ND (0.9)	-	ND (5)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (3)	-	ND (0.4)
1,1-Dichloroethane	ug/L	ND (5.0)	ND (5.0)	-	ND (0.6)	-	ND (5)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (5)	-	ND (0.3)
1,1-Dichloroethene	ug/L	ND (5.0)	ND (5.0)	-	ND (1.1)	-	ND (5)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (2)	-	ND (0.6)
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	ND (5)	-	ND (5.0)	-	-	-	ND (5)	-	-
1,2-Dichloroethane	ug/L	16	ND (5.0)	-	22	-	ND (5)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (2)	-	ND (0.2)
1,2-Dichloropropane	ug/L	ND (5.0)	ND (5.0)	-	ND (0.9)	-	ND (5)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (1)	-	ND (0.5)
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	ND (5)	-	ND (5.0)	-	-	-	ND (5)	-	-
1,3-Dichloropropene	ug/L	-	-	-	-	-	ND (5)	-	ND (5.0)	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	ND (5)	-	ND (5.0)	-	-	-	ND (5)	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		*BEC-2D*	*BEC-2D*	*BEC-2D*	*BEC-2D*	*BEC-2S*	*BEC-2S*	*BEC-2S*	*BEC-2S*	*BEC-2S*	*BEC-2S*	*BEC-2S*	*BEC-2S*	*BEC-2S*	*BEC-2S*
Sample ID:		*89001-2015*	*89001-2071*	*93089-2302*	*93089-2302*	*89001-03-2002*	*89001-03-2002*	*89001-03-2002*	*89001-03-2006*	*89001-03-2006*	*89001-2002*	*89001-2005*	*93089-2100*	*93089-2202*	*93089-2202*
Sample Date:		*12/12/90*	*12/15/90*	*8/9/95*	*8/9/95*	*9/1/89*	*9/1/89*	*9/1/89*	*9/1/89*	*9/1/89*	*12/15/90*	*12/15/90*	*4/20/94*	*4/20/95*	*4/20/95*
Analysis Date:		*12/12/90*	*12/15/90*	*8/9/95*	*8/15/95*	*9/1/89*	*9/5/89*	*9/11/89*	*9/6/89*	*9/11/89*	*12/15/90*	*12/15/90*	*4/20/94*	*4/20/95*	*5/1/95*
Sample Depth:															
									Duplicate	Duplicate		Duplicate			
Parameters	*Units*														
2-Butanone	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (25)	-	-
2-Chloroethyl vinyl ether	ug/L	ND (10)	ND (5.0)	-	ND (0.9)	-	ND (10)	-	ND (10.0)	-	ND (5.0)	ND (5.0)	ND (10)	-	ND (0.5)
2-Hexanone	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (20)	-	-
4-Methyl-2-pentanone	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (25)	-	-
Acetone	ug/L	-	-	-	-	-	-	-	-	-	-	-	21	-	-
Acrolein	ug/L	-	ND (5.0)	-	-	-	ND (50)	-	ND (50.0)	-	ND (5.0)	ND (5.0)	-	-	-
Acrylonitrile	ug/L	-	ND (5.0)	-	-	-	ND (50)	-	ND (50.0)	-	ND (5.0)	ND (5.0)	-	-	-
Benzene	ug/L	ND (5.0)	ND (5.0)	-	ND (0.5)	-	ND (5)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (1)	-	ND (0.2)
Bromodichloromethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (1)	-	-
Bromodichloromethane	ug/L	ND (5.0)	ND (5.0)	-	ND (0.4)	-	ND (5)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (0.2)
Bromoform	ug/L	ND (5.0)	ND (5.0)	-	ND (0.6)	-	ND (5)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (4)	-	ND (0.3)
Bromomethane	ug/L	ND (10)	ND (5.0)	-	ND (0.5)	-	ND (10)	-	ND (10.0)	-	ND (5.0)	ND (5.0)	ND (10)	-	ND (0.3)
Carbon disulfide	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
Carbon tetrachloride	ug/L	ND (5.0)	ND (5.0)	-	ND (0.3)	-	ND (5)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (2)	-	ND (0.2)
Chlorobenzene	ug/L	2.3 J	ND (5.0)	-	5.0	-	ND (5)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (4)	-	ND (0.1)
Chloroethane	ug/L	ND (10)	ND (5.0)	-	ND (2.1)	-	ND (10)	-	ND (10.0)	-	ND (5.0)	ND (5.0)	ND (10)	-	ND (1.0)
Chloroform (Trichloromethane)	ug/L	ND (5.0)	ND (5.0)	-	ND (0.4)	-	ND (2)	-	ND (2.0)	-	ND (5.0)	ND (5.0)	ND (5)	-	ND (0.2)
Chloromethane	ug/L	ND (10)	ND (5.0)	-	ND (1.9)	-	ND (10)	-	ND (10.0)	-	ND (5.0)	ND (5.0)	ND (10)	-	ND (0.9)
cis-1,2-Dichloroethene	ug/L	-	-	-	15	-	-	-	-	-	-	-	-	-	ND (1.0)
cis-1,3-Dichloropropene	ug/L	ND (5.0)	ND (5.0)	-	ND (0.7)	-	-	-	-	-	ND (5.0)	ND (5.0)	ND (5)	-	ND (0.3)
Cyclobutane, 1,2-diethyl-	ug/L	-	-	-	-	-	-	-	-	4 J	-	-	-	-	-
Dibromochloromethane	ug/L	ND (5.0)	ND (5.0)	-	ND (0.5)	-	ND (5)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (5)	-	ND (0.2)
Dibromomethane	ug/L	-	ND (5.0)	-	-	-	-	-	-	-	ND (5.0)	ND (5.0)	-	-	-
Diisopropyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
Ethylbenzene	ug/L	ND (5.0)	ND (5.0)	-	ND (0.5)	-	ND (5)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (5)	-	ND (0.2)
m&p-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
Methyl Tert Butyl Ether	ug/L	-	-	-	ND (2.0)	-	-	-	-	-	-	-	ND (5)	-	-
Methylene chloride	ug/L	ND (5.0)	ND (5.0)	-	ND (2.1)	-	4 JB	-	19 B	-	ND (5.0)	ND (5.0)	ND (2)	-	ND (1.0)
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
Styrene	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-
Tert-Butyl Alcohol	ug/L	-	-	-	ND (500)	-	-	-	-	-	-	-	ND (100)	-	-
Tetrachloroethene	ug/L	2.1 J	ND (5.0)	-	3.6	-	ND (5)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (1)	-	ND (0.1)
Toluene	ug/L	ND (5.0)	ND (5.0)	-	ND (0.4)	-	ND (5)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (5)	-	ND (0.2)
Total Targeted Compounds	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total VOCS	ug/L	-	-	-	-	-	-	-	-	-	-	-	21	-	-
trans-1,2-Dichloroethene	ug/L	12	ND (5.0)	-	6.4	-	ND (5)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (5)	-	ND (0.3)
trans-1,3-Dichloropropene	ug/L	ND (5.0)	ND (5.0)	-	ND (0.6)	-	-	-	-	-	ND (5.0)	ND (5.0)	ND (5)	-	ND (0.3)
Trichloroethene	ug/L	95	12.3	-	160	-	ND (5)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (1)	-	ND (0.4)
Trichlorofluoromethane (CFC-11)	ug/L	ND (5.0)	-	-	ND (0.5)	-	-	-	-	-	-	-	ND (5)	-	ND (0.2)
Vinyl acetate	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (10)	-	-
Vinyl chloride	ug/L	ND (10)	ND (10.0)	-	ND (0.8)	-	ND (10)	-	ND (10.0)	-	ND (10.0)	ND (10.0)	ND (5)	-	ND (0.4)
Xylene (total)	ug/L	ND (5.0)	ND (5.0)	-	ND (2.0)	-	ND (5)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (1.0)
Volatile TICS															
1,2,3,4-Tetramethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,5-Tetramethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Hexadiene, 2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Methanonaphthalene, 1,4- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Pentadiene, 2,3,4-trimet A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Pentadiene, 2,3,4-trimet B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethenyl-2-methyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-2-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-3-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Hexane, 5,5-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Methylethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Methylethyl-benzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Pentene, 3,4-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-5-ol, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-1,2-d A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-1,6-d A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-4-met A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Pyrazole, 4,5-dihydro-1,5 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl naphthalene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylbutane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylpentane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Hexene, 2,2-dimethyl-, (Z)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Hepten-2-one A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Ethyl-1,2-dimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,2,4,5-tetramethyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,2-diethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethyl-2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethylpropyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-(1-methylethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-(1-methylethyl)- B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-propyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		*BEC-2D*	*BEC-2D*	*BEC-2D*	*BEC-2D*	*BEC-2S*	*BEC-2S*	*BEC-2S*	*BEC-2S*	*BEC-2S*	*BEC-2S*	*BEC-2S*	*BEC-2S*	*BEC-2S*	*BEC-2S*
Sample ID:		*89001-2015*	*89001-2017*	*93089-2302*	*93089-2302*	*89001-03-2002*	*89001-03-2002*	*89001-03-2002*	*89001-03-2006*	*89001-03-2006*	*89001-2002*	*89001-2005*	*93089-2100*	*93089-2202*	*93089-2202*
Sample Date:		*12/12/90*	*12/15/90*	*8/9/95*	*8/9/95*	*9/1/89*	*9/1/89*	*9/1/89*	*9/1/89*	*9/1/89*	*12/15/90*	*12/15/90*	*4/20/94*	*4/20/95*	*4/20/95*
Analysis Date:		*12/12/90*	*12/15/90*	*8/9/95*	*8/15/95*	*9/1/89*	*9/5/89*	*9/11/89*	*9/6/89*	*9/11/89*	*12/15/90*	*12/15/90*	*4/20/94*	*4/20/95*	*5/1/95*
Sample Depth:															
									Duplicate	Duplicate		Duplicate			
Parameters	*Units*														
Benzene, 1-methylpropyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 2-ethenyl-1,4-dimet A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 2-ethly-1,4-dimethy A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl Alcohol A	ug/L	-	-	-	-	-	-	-	-	3 J	-	-	-	-	-
Butane, 1-(1-methylpropoxy)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butane, 2-ethoxy- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10H12 aromatic A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C9H10 aromatic A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cycloheptane, methyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopentene, 4,4-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopropane, 1-(2-methylbut)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclotetrasiloxane, octamethyl- A	ug/L	-	-	-	-	-	-	-	-	6 J	-	-	-	-	-
Diisopropyl ether A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl cyclohexane (isomers) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dodecanamide, n,n-bis(2-hydroxyethyl)- A	ug/L	-	-	-	-	-	-	-	-	14 J	-	-	-	-	-
Ether A	ug/L	8.5	-	-	29	-	-	-	-	-	-	-	-	-	-
Ethyl Methyl Benzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylcyclobutane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylmethyl benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
H-Indene-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indan, 1-methyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,2,3,4-tetrahy A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrahydrofuran A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloromethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown D	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Aldehyde A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Alkane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Alkane B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C10H20 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C6H16 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown isomer of trimethyl benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene(ortho) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		BEC-2S	BEC-2S	BEC-2S	BEC-3B	BEC-3B	BEC-3D	BEC-3D	BEC-3D	BEC-3S	BEC-3S	BEC-3S	BEC-3S	BEC-3S	BEC-3S	BEC-3S
Sample ID:		93089-2402	93089-2402	93089-2402	2312	2312	89001-2016	93089-2303	93089-2303	89001-03-2003	89001-03-2003	89001-03-2003	2003	89001-2003	89001-2003	93089-2101
Sample Date:		3/12/96	3/12/96	3/12/96	8/8/95	8/8/95	12/12/90	8/10/95	8/10/95	9/1/89	9/1/89	9/1/89	11/8/90	12/12/90	12/15/90	4/20/94
Analysis Date:		3/12/96	3/13/96	3/25/96	8/8/95	8/12/95	12/12/90	8/10/95	8/16/95	9/1/89	9/6/89	9/11/89	11/8/90	12/12/90	12/15/90	4/20/94
Sample Depth:																
Parameters	**Units**															
Metals																
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.01)	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.01)	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.01)	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.01)	-
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.01)	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	0.04	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54
Lead	ug/L	-	52.2	-	-	-	-	-	-	-	-	-	-	-	ND (0.002)	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.01)	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.01)	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.01)	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.01)	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.01)	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls																
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.5)	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.5)	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.5)	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.5)	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.5)	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)	-
Pesticides																
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.1)	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.1)	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.1)	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.05)	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.05)	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.05)	-
Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.5)	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.05)	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.1)	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.1)	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.1)	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.1)	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.1)	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.05)	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.05)	-
tau-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (0.05)	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1.0)	-
Semi-Volatiles																
1,2,4-Trichlorobenzene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
1,2-Diphenylhydrazine	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (10.0)	-
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
2-Chloronaphthalene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
2-Methyl naphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (10.0)	ND (5)
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	ND (20)	-	-	-	-	ND (20)	ND (30)	ND (20)	ND (50.0)	ND (5)
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
4-Chloronapthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (10.0)	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
Acenaphthene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
Acenaphthylene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
Anthracene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
Benzidine	ug/L	-	-	-	-	-	ND (20)	-	-	-	-	ND (20)	ND (30)	ND (20)	ND (10.0)	ND (10)
Benzo(a)anthracene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
Benzo(a)pyrene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	-	ND (15)	ND (10)	ND (10.0)	ND (5)

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		BEC-2S	BEC-2S	BEC-2S	BEC-3B	BEC-3B	BEC-3D	BEC-3D	BEC-3D	BEC-3S	BEC-3S	BEC-3S	BEC-3S	BEC-3S	BEC-3S	BEC-3S
Sample ID:		93089-2402	93089-2402	93089-2402	2312	2312	89001-2016	93089-2303	93089-2303	89001-03-2003	89001-03-2003	89001-03-2003	2003	89001-2003	89001-2003	93089-2101
Sample Date:		3/12/96	3/12/96	3/12/96	8/8/95	8/8/95	12/12/90	8/10/95	8/10/95	9/1/89	9/1/89	9/1/89	11/8/90	12/12/90	12/15/90	4/20/94
Analysis Date:		3/12/96	3/13/96	3/25/96	8/8/95	8/12/95	12/12/90	8/10/95	8/16/95	9/1/89	9/6/89	9/11/89	11/8/90	12/12/90	12/15/90	4/20/94
Sample Depth:																
Parameters	*Units*															
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	-	ND (15)	ND (10)	ND (10.0)	ND (5)
Benzoic acid	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (10)
Benzyl Alcohol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
bis(2-Ethylhexyl)phthalate	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
Butyl benzylphthalate	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
Chrysene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
Di-n-butylphthalate	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
Di-n-octyl phthalate	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (10.0)	ND (5)
Diethyl phthalate	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
Dimethyl phthalate	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
Fluoranthene	ug/L	-	-	-	-	-	0.15 J	-	-	-	-	2 J	ND (15)	ND (10)	ND (10.0)	ND (5)
Fluorene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
Hexachlorobenzene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
Hexachlorobutadiene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
Hexachloroethane	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
Isophorone	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
N-Nitrosodimethylamine	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	-	ND (15)	ND (10)	ND (10.0)	ND (5)
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
Naphthalene	ug/L	-	-	-	-	-	0.44 J	-	-	-	-	120	ND (15)	ND (10)	ND (10.0)	ND (5)
Nitrobenzene	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
Phenanthrene	ug/L	-	-	-	-	-	0.33 J	-	-	-	-	2 J	ND (15)	ND (10)	ND (10.0)	ND (5)
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
Pyrene	ug/L	-	-	-	-	-	0.35 J	-	-	-	-	2 J	ND (15)	ND (10)	ND (10.0)	ND (5)
Pyridine	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
Total Targeted Compounds	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL NON-TARGETED BASE NEUTRALS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	ND
TOTAL TARGETED BASE NEUTRALS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND
Semi-Volatile TICS																
1,2,3,4-Tetrahydronaphthalene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4-Tetramethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-2-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one,2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	ug/L	-	-	-	-	-	ND (10)	-	-	-	-	ND (10)	ND (15)	ND (10)	ND (10.0)	ND (5)
2,4,4-Trimethyl-2-pentene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,3,5-trimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethyl-2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-propyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, ethyl-1,2,4-trimeth A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)thiophene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexanone A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopropane, pentyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclotetrasiloxane, octamethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl cyclohexane (isomers) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dodecanamide, n,n-bis(2-hydroxyethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexanedioic acid, mono(2-eth A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown D	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene(ortho) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatiles																
1,1,1-Trichloroethane	ug/L	-	-	ND (0.2)	-	ND (0.2)	ND (5.0)	-	ND (0.2)	-	ND (167)	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5)
1,1,2,2-Tetrachloroethane	ug/L	-	-	ND (0.3)	-	ND (0.3)	ND (5.0)	-	ND (0.3)	-	ND (167)	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (2)
1,1,2-Trichloroethane	ug/L	-	-	ND (0.4)	-	ND (0.4)	ND (5.0)	-	ND (0.4)	-	ND (167)	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (3)
1,1-Dichloroethane	ug/L	-	-	ND (0.3)	-	ND (0.3)	ND (5.0)	-	ND (0.3)	-	ND (167)	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5)
1,1-Dichloroethene	ug/L	-	-	ND (0.6)	-	ND (0.6)	ND (5.0)	-	0.6	-	ND (167)	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (2)
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	ND (167)	-	-	-	-	ND (5)
1,2-Dichloroethane	ug/L	-	-	ND (0.2)	-	ND (0.2)	16	-	9.0	-	ND (167)	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (2)
1,2-Dichloropropane	ug/L	-	-	ND (0.5)	-	ND (0.5)	ND (5.0)	-	ND (0.5)	-	ND (167)	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (1)
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	ND (167)	-	-	-	-	ND (5)
1,3-Dichloropropene	ug/L	-	-	-	-	-	-	-	-	-	ND (167)	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	ND (167)	-	-	-	-	ND (5)

TABLE O

ANALYTICAL R[illegible]S SUMMARY
HISTORIC - G[illegible]NDWATER
LINDEN, NJ

Sample Location:		BEC-2S	BEC-2S	BEC-2S	BEC-3B	BEC-3B	BEC-3D	BEC-3D	BEC-3D	BEC-3S	BEC-3S	BEC-3S	BEC-3S	BEC-3S	BEC-3S	BEC-3S
Sample ID:		93089-2402	93089-2402	93089-2402	2312	2312	89001-2016	93089-2303	93089-2303	89001-03-2003	89001-03-2003	89001-03-2003	2003	89001-2003	89001-2003	93089-2101
Sample Date:		3/12/96	3/12/96	3/12/96	8/8/95	8/8/95	12/12/90	8/10/95	8/10/95	9/1/89	9/1/89	9/1/89	11/8/90	12/12/90	12/15/90	4/20/94
Analysis Date:		3/12/96	3/13/96	3/25/96	8/8/95	8/12/95	12/12/90	8/10/95	8/16/95	9/1/89	9/6/89	9/11/89	11/8/90	12/12/90	12/15/90	4/20/94
Sample Depth:																
Parameters	*Units*															
2-Butanone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (25)
2-Chloroethyl vinyl ether	ug/L	-	-	ND (0.5)	-	ND (0.5)	ND (10)	-	ND (0.5)	-	ND (333)	-	ND (10)	ND (10)	ND (5.0)	ND (10)
2-Hexanone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (20)
4-Methyl-2-pentanone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (25)
Acetone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (20)
Acrolein	ug/L	-	-	-	-	-	-	-	-	-	ND (1670)	-	-	-	ND (5.0)	-
Acrylonitrile	ug/L	-	-	-	-	-	-	-	-	-	ND (50)	-	-	-	ND (5.0)	-
Benzene	ug/L	-	-	ND (0.2)	-	ND (0.2)	ND (5.0)	-	ND (0.2)	-	380	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (1)
Bromodichloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (1)
Bromodichloromethane	ug/L	-	-	ND (0.2)	-	ND (0.2)	3.9 J	-	ND (0.2)	-	ND (167)	-	ND (5.0)	ND (5.0)	ND (5.0)	-
Bromoform	ug/L	-	-	ND (0.3)	-	ND (0.3)	ND (5.0)	-	ND (0.3)	-	ND (167)	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (4)
Bromomethane	ug/L	-	-	ND (0.3)	-	ND (0.3)	ND (10)	-	ND (0.3)	-	ND (333)	-	ND (10)	ND (10)	ND (5.0)	ND (10)
Carbon disulfide	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
Carbon tetrachloride	ug/L	-	-	ND (0.2)	-	ND (0.2)	ND (5.0)	-	ND (0.2)	-	ND (167)	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (2)
Chlorobenzene	ug/L	-	-	ND (0.1)	-	ND (0.1)	ND (5.0)	-	16	-	ND (167)	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (4)
Chloroethane	ug/L	-	-	ND (1.0)	-	ND (1.0)	ND (10)	-	ND (1.0)	-	ND (333)	-	ND (10)	ND (10)	ND (5.0)	ND (10)
Chloroform (Trichloromethane)	ug/L	-	-	ND (0.2)	-	ND (0.2)	26	-	2.5	-	ND (167)	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5)
Chloromethane	ug/L	-	-	ND (0.9)	-	ND (0.9)	ND (10)	-	ND (0.9)	-	ND (333)	-	ND (10)	ND (10)	ND (5.0)	ND (10)
cis-1,2-Dichloroethene	ug/L	-	-	ND (1.0)	-	4.9	-	-	30	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/L	-	-	ND (0.3)	-	ND (0.3)	ND (5.0)	-	ND (0.3)	-	-	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5)
Cyclobutane, 1,2-diethyl-	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	-	-	ND (0.2)	-	ND (0.2)	ND (5.0)	-	ND (0.2)	-	ND (167)	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5)
Dibromomethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5.0)	-
Diisopropyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
Ethylbenzene	ug/L	-	-	ND (0.2)	-	ND (0.2)	2.5 J	-	ND (0.2)	-	ND (167)	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5)
m&p-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
Methyl Tert Butyl Ether	ug/L	-	-	ND (1.0)	-	ND (1.0)	-	-	ND (1.0)	-	-	-	-	-	-	ND (5)
Methylene chloride	ug/L	-	-	ND (1.0)	-	ND (1.0)	ND (5.0)	-	ND (1.0)	-	752 B	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (2)
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
Styrene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (5)
Tert-Butyl Alcohol	ug/L	-	-	ND (250)	-	ND (250)	-	-	ND (250)	-	-	-	-	-	-	ND (100)
Tetrachloroethene	ug/L	-	-	ND (0.1)	-	ND (0.1)	ND (5.0)	-	3.3	-	ND (167)	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (1)
Toluene	ug/L	-	-	ND (0.2)	-	0.4	1.2 J	-	ND (0.2)	-	3000	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5)
Total Targeted Compounds	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total VOCS	ug/L	-	-	ND	-	-	-	-	-	-	-	-	-	ND	-	30
trans-1,2-Dichloroethene	ug/L	-	-	ND (0.3)	-	ND (0.3)	12	-	7.6	-	ND (167)	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5)
trans-1,3-Dichloropropene	ug/L	-	-	ND (0.3)	-	ND (0.3)	ND (5.0)	-	ND (0.3)	-	-	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5)
Trichloroethene	ug/L	-	-	ND (0.4)	-	22	ND (5.0)	-	100	-	ND (167)	-	ND (5.0)	ND (5.0)	ND (5.0)	30
Trichlorofluoromethane (CFC-11)	ug/L	-	-	ND (0.2)	-	ND (0.2)	ND (5.0)	-	ND (0.2)	-	-	-	ND (5.0)	ND (5.0)	-	ND (5)
Vinyl acetate	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (10)
Vinyl chloride	ug/L	-	-	ND (0.4)	-	ND (0.4)	ND (10)	-	1.3	-	ND (333)	-	ND (10)	ND (10)	ND (10.0)	ND (5)
Xylene (total)	ug/L	-	-	ND (1.0)	-	ND (1.0)	19	-	ND (1.0)	-	4760	-	ND (5.0)	ND (5.0)	ND (5.0)	-
Volatile TICS																
1,2,3,4-Tetramethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	21 J	-	-	-	-	-
1,2,3,5-Tetramethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	12 J	-	-	-	-
1,2,3-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	3800	65 J	-	-	-	-
1,2,4-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Hexdiene, 2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Methanonaphthalene, 1,4- A	ug/L	-	-	-	-	-	-	-	-	-	-	14 J	-	-	-	-
1,4-Pentadiene, 2,3,4-trimet A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Pentadiene, 2,3,4-trimet B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethenyl-2-methyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	60 J	-	-	-	-
1-Ethyl-2-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	2400	64 J	-	-	-	-
1-Ethyl-3-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	84 J	-	-	-	-
1-Ethyl-4-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Hexane, 5,5-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Methylethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	1000	46 J	-	-	-	-
1-Methylethyl-benzene B	ug/L	-	-	-	-	-	-	-	-	-	1300	-	-	-	-	-
1-Pentene, 3,4-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-5-ol, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-1,2-d A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-1,6-d A	ug/L	-	-	-	-	-	-	-	-	-	-	10 J	-	-	-	-
1H-Indene, 2,3-dihydro-4-met A	ug/L	-	-	-	-	-	-	-	-	-	1100	-	-	-	-	-
1H-Pyrazole, 4,5-dihydro-1,5 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl naphthalene A	ug/L	-	-	-	-	-	-	-	-	-	-	37 J	-	-	-	-
2-Methylbutane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylpentane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Hexene, 2,2-dimethyl-, (Z)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Hepten-2-one A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Ethyl-1,2-dimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	10 J	-	-	-	-
Acetone A	ug/L	-	-	-	-	3.6	-	-	-	-	-	-	-	-	-	-
Benzene, 1,2,4,5-tetramethyl A	ug/L	-	-	-	-	-	-	-	-	-	940	-	-	-	-	-
Benzene, 1,2-diethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethyl-2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	820	-	-	-	-	-
Benzene, 1-ethylpropyl- A	ug/L	-	-	-	-	-	-	-	-	-	470	-	-	-	-	-
Benzene, 1-methyl-3-(1-methylethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	990	86 J	-	-	-	-
Benzene, 1-methyl-3-(1-methylethyl)- B	ug/L	-	-	-	-	-	-	-	-	-	1200	-	-	-	-	-
Benzene, 1-methyl-3-propyl A	ug/L	-	-	-	-	-	-	-	-	-	76 J	-	-	-	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		*BEC-2S*	*BEC-2S*	*BEC-2S*	*BEC-3B*	*BEC-3B*	*BEC-3D*	*BEC-3D*	*BEC-3D*	*BEC-3S*	*BEC-3S*	*BEC-3S*	*BEC-3S*	*BEC-3S*	*BEC-3S*	*BEC-3S*
Sample ID:		*93089-2402*	*93089-2402*	*93089-2402*	*2312*	*2312*	*89001-2016*	*93089-2303*	*93089-2303*	*89001-03-2003*	*89001-03-2003*	*89001-03-2003*	*2003*	*89001-2003*	*89001-2003*	*93089-2101*
Sample Date:		*3/12/96*	*3/12/96*	*3/12/96*	*8/8/95*	*8/8/95*	*12/12/90*	*8/10/95*	*8/10/95*	*9/1/89*	*9/1/89*	*9/1/89*	*11/8/90*	*12/12/90*	*12/15/90*	*4/20/94*
Analysis Date:		*3/12/96*	*3/13/96*	*3/25/96*	*8/8/95*	*8/12/95*	*12/12/90*	*8/10/95*	*8/16/95*	*9/1/89*	*9/6/89*	*9/11/89*	*11/8/90*	*12/12/90*	*12/15/90*	*4/20/94*
Sample Depth:																
Parameters	*Units*															
Benzene, 1-methylpropyl- A	ug/L	-	-	-	-	-	-	-	-	-	1500	-	-	-	-	-
Benzene, 2-ethenyl-1,4-dimet A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 2-ethly-1,4-dimethy A	ug/L	-	-	-	-	-	-	-	-	-	920	-	-	-	-	-
Benzyl Alcohol A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butane, 1-(1-methylpropoxy)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butane, 2-ethoxy- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10H12 aromatic A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C9H10 aromatic A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cycloheptane, methyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopentene, 4,4-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopropane, 1-(2-methylbut)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclotetrasiloxane, octamethyl- A	ug/L	-	-	-	-	-	-	-	-	-	1100	-	-	-	-	-
Diisopropyl ether A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl cyclohexane (isomers) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dodecanamide, n,n-bis(2-hydroxyethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ether A	ug/L	-	-	-	-	-	-	-	34	-	-	-	-	-	-	-
Ethyl Methyl Benzene B	ug/L	-	-	-	-	-	3.6	-	-	-	-	-	-	-	-	-
Ethylcyclobutane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylmethyl benzene A	ug/L	-	-	-	-	-	7.9	-	-	-	-	-	-	-	-	-
Hexane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
H-Indene-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indan, 1-methyl- A	ug/L	-	-	-	-	-	-	-	-	-	1100	20 J	-	-	-	-
Indane A	ug/L	-	-	-	-	-	-	-	-	-	1200	-	-	-	-	-
Naphthalene, 1,2,3,4-tetrahy A	ug/L	-	-	-	-	-	-	-	-	-	-	10 J	-	-	-	-
Tetrahydrofuran A	ug/L	-	-	-	-	-	-	-	-	-	-	-	8.2	-	-	-
Toluene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown A	ug/L	-	-	-	-	-	-	-	-	-	-	14 J	-	-	-	-
Unknown B	ug/L	-	-	-	-	-	-	-	-	-	-	16 J	-	-	-	-
Unknown C	ug/L	-	-	-	-	-	-	-	-	-	-	25 J	-	-	-	-
Unknown D	ug/L	-	-	-	-	-	-	-	-	-	-	12 J	-	-	-	-
Unknown Aldehyde A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Alkane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Alkane B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C10H20 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C8H16 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown isomer of trimethyl benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene(ortho) A	ug/L	-	-	-	-	-	-	-	-	-	-	94 J	-	-	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		BEC-3S	BEC-3S	BEC-3S	BEC-3S	BEC-3S	BEC-3S	BEC-4B	BEC-4D	BEC-4D	BEC-4D	BEC-4D	BEC-4S	BEC-4S	BEC-4S	BEC-4S
Sample ID:		93089-2103	93089-2205	93089-2205	93089-2403	93089-2403	93089-2403	2313	2313	89001-2017	93089-2304	93089-2304	89001-03-2004	89001-03-2004	89001-03-2004	2004
Sample Date:		4/20/94	4/20/95	4/20/95	3/12/96	3/12/96	3/12/96	8/8/95	8/8/95	12/12/90	8/10/95	8/10/95	9/1/89	9/1/89	9/1/89	11/8/90
Analysis Date:		4/20/94	4/20/95	5/1/95	3/12/96	3/13/96	3/25/96	8/8/95	8/14/95	12/12/90	8/10/95	8/16/95	9/1/89	9/5/89	9/13/89	11/8/90
Sample Depth:																
		Duplicate														
Parameters	Units															
Metals																
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	56	-	37.0	-	98.7	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls																
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides																
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
tau-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatiles																
1,2,4-Trichlorobenzene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
1,2-Dichlorobenzene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
1,2-Diphenylhydrazine	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
1,4-Dichlorobenzene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
2,4,5-Trichlorophenol	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
2,6-Dinitrotoluene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
2-Chloronaphthalene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
2-Chlorophenol	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	ND (5)	-	-	-	-	-	-	-	ND (20)	-	-	-	-	ND (20.0)	ND (30)
3-Nitroaniline	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
4-Chloro-3-methylphenol	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
4-Nitroaniline	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Acenaphthylene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Anthracene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Benzidine	ug/L	ND (10)	-	-	-	-	-	-	-	ND (20)	-	-	-	-	ND (20.0)	ND (30)
Benzo(a)anthracene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Benzo(a)pyrene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	-	ND (15)

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		BEC-3S	BEC-3S	BEC-3S	BEC-3S	BEC-3S	BEC-3S	BEC-4B	BEC-4B	BEC-4D	BEC-4D	BEC-4D	BEC-4S	BEC-4S	BEC-4S	BEC-4S
Sample ID:		93089-2103	93089-2205	93089-2205	93089-2403	93089-2403	93089-2403	2313	2313	89001-2017	93089-2304	93089-2304	89001-03-2004	89001-03-2004	89001-03-2004	2004
Sample Date:		4/20/94	4/20/95	4/20/95	3/12/96	3/12/96	3/12/96	8/8/95	8/8/95	12/12/90	8/10/95	8/10/95	9/1/89	9/1/89	9/1/89	11/8/90
Analysis Date:		4/20/94	4/20/95	5/1/95	3/12/96	3/13/96	3/25/96	8/8/95	8/14/95	12/12/90	8/10/95	8/16/95	9/1/89	9/5/89	9/13/89	11/8/90
Sample Depth:																
Parameters	*Units*	Duplicate														
Benzo(b)fluoranthene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Benzo(g,h,i)perylene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Benzo(k)fluoranthene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	-	ND (15)
Benzoic acid	ug/L	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl Alcohol	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
bis(2-Chloroethyl)ether	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
bis(2-Ethylhexyl)phthalate	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Butyl benzylphthalate	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Chrysene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Di-n-butylphthalate	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Di-n-octyl phthalate	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Dibenz(a,h)anthracene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Dibenzofuran	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Diethyl phthalate	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Fluoranthene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Fluorene	ug/L	ND (5)	-	-	-	-	-	-	-	0.14 J	-	-	-	-	ND (10.0)	ND (15)
Hexachlorobenzene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Hexachlorobutadiene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Hexachlorocyclopentadiene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Hexachloroethane	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Indeno(1,2,3-cd)pyrene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Isophorone	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
N-Nitrosodi-n-propylamine	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
N-Nitrosodimethylamine	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
N-Nitrosodiphenylamine	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	-	ND (15)
Naphthalene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Nitrobenzene	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	2 J	ND (15)
Pentachlorophenol	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Phenanthrene	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	ND (10.0)	ND (15)
Pyrene	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyridine	ug/L	ND (5)	-	-	-	-	-	-	-	0.14 J	-	-	-	-	ND (10.0)	ND (15)
Total Targeted Compounds	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL NON-TARGETED BASE NEUTRALS	ug/L	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL TARGETED BASE NEUTRALS	ug/L	ND	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile TICS																
1,2,3,4-Tetrahydro-naphthalene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4-Tetramethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	6 J	-
1-Ethyl-2-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	16 J	-
1-Ethyl-4-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	11 J	-
1H-Inden-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	12 J	-
1H-Inden-1-one,2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	5 J	-
2,2'-oxybis(1-Chloropropane)	ug/L	ND (5)	-	-	-	-	-	-	-	ND (10)	-	-	-	-	8 J	-
2,4,4-Trimethyl-2-pentene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	ND (10.0)	ND (15)
Benzene, 1,3,5-trimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethyl-2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	13 J	-
Benzene, 1-methyl-3-propyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	11 J	-
Benzene, ethyl-1,2,4-trimeth A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	7 J	-
Benzo[b]thiophene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	6 J	-
Carbazole A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexanone A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopropane, pentyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclotetrasiloxane, octamethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	6 J	-
Dimethyl cyclohexane (isomers) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	7 J	-
Dodecanamide, n,n-bis(2-hydroxyethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexanedioic acid, mono(2-eth A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	17 J	-
1H-Indene-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	26 J	-
Indane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	8 J	-
Tetrachloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	7 J	-
Unknown B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	9 J	-
Unknown C	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	7 J	-
Unknown D	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	9 J	-
Xylene(ortho) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	34 J	-
Volatiles																
1,1,1-Trichloroethane	ug/L	ND (5)	-	ND (0.2)	-	-	ND (0.2)	-	ND (2.0)	52	-	8.0	-	9	-	ND (5.0)
1,1,2,2-Tetrachloroethane	ug/L	ND (2)	-	ND (0.3)	-	-	ND (0.3)	-	ND (3.3)	ND (5.0)	-	ND (0.3)	-	ND (5.0)	-	ND (5.0)
1,1,2-Trichloroethane	ug/L	ND (3)	-	ND (0.4)	-	-	ND (0.4)	-	ND (4.3)	ND (5.0)	-	ND (0.4)	-	ND (5.0)	-	ND (5.0)
1,1-Dichloroethane	ug/L	ND (5)	-	ND (0.3)	-	-	ND (0.3)	-	ND (3.1)	ND (5.0)	-	ND (0.3)	-	ND (5.0)	-	ND (5.0)
1,1-Dichloroethene	ug/L	ND (2)	-	ND (0.6)	-	-	ND (0.6)	-	ND (5.5)	ND (5.0)	-	ND (0.6)	-	ND (5.0)	-	ND (5.0)
1,2-Dichlorobenzene	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	ND (5.0)	-	-
1,2-Dichloroethane	ug/L	ND (2)	-	ND (0.2)	-	-	ND (0.2)	-	ND (2.2)	ND (5.0)	-	ND (0.2)	-	ND (5.0)	-	ND (5.0)
1,2-Dichloropropane	ug/L	ND (1)	-	ND (0.5)	-	-	ND (0.5)	-	ND (4.6)	ND (5.0)	-	ND (0.5)	-	ND (5.0)	-	ND (5.0)
1,3-Dichlorobenzene	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	ND (5.0)	-	-
1,3-Dichloropropene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	ND (5.0)	-	-
1,4-Dichlorobenzene	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	433	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		BEC-3S	BEC-3S	BEC-3S	BEC-3S	BEC-3S	BEC-3S	BEC-4B	BEC-4B	BEC-4D	BEC-4D	BEC-4D	BEC-4S	BEC-4S	BEC-4S	BEC-4S
Sample ID:		93089-2203	93089-2205	93089-2205	93089-2403	93089-2403	93089-2403	2313	2313	89001-2017	93089-2304	93089-2304	89001-03-2004	89001-03-2004	89001-03-2004	2004
Sample Date:		4/20/94	4/20/95	4/20/95	3/12/96	3/12/96	3/12/96	8/8/95	8/8/95	12/12/90	8/10/95	8/10/95	9/1/89	9/1/89	9/1/89	11/8/90
Analysis Date:		4/20/94	4/20/95	5/1/95	3/12/96	3/13/96	3/25/96	8/8/95	8/14/95	12/12/90	8/10/95	8/16/95	9/1/89	9/5/89	9/13/89	11/8/90
Sample Depth:																
		Duplicate														
Parameters	Units															
2-Butanone	ug/L	ND (25)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	ug/L	ND (10)	-	ND (0.5)	-	-	ND (0.5)	-	ND (4.6)	ND (10)	-	ND (0.5)	-	ND (10.0)	-	ND (10)
2-Hexanone	ug/L	ND (20)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone	ug/L	ND (25)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ug/L	ND (20)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	ND (50.0)	-	-
Acrylonitrile	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	ND (50.0)	-	-
Benzene	ug/L	ND (1)	-	ND (0.2)	-	-	ND (0.2)	-	300	ND (5.0)	-	ND (0.2)	-	20	-	ND (5.0)
Bromodichloromethane	ug/L	ND (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	-	-	ND (0.2)	-	-	ND (0.2)	-	ND (1.9)	ND (5.0)	-	ND (0.2)	-	ND (5.0)	-	ND (5.0)
Bromoform	ug/L	ND (4)	-	ND (0.3)	-	-	ND (0.3)	-	ND (3.0)	ND (5.0)	-	ND (0.3)	-	ND (5.0)	-	ND (5.0)
Bromomethane	ug/L	ND (10)	-	ND (0.3)	-	-	ND (0.3)	-	ND (2.7)	ND (10)	-	ND (0.3)	-	ND (10.0)	-	ND (10)
Carbon disulfide	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	ug/L	ND (2)	-	ND (0.2)	-	-	ND (0.2)	-	ND (1.6)	ND (5.0)	-	ND (0.2)	-	ND (5.0)	-	ND (5.0)
Chlorobenzene	ug/L	ND (4)	-	ND (0.1)	-	-	ND (0.1)	-	350	ND (5.0)	-	ND (0.1)	-	ND (5.0)	-	ND (5.0)
Chloroethane	ug/L	ND (10)	-	ND (1.0)	-	-	ND (1.0)	-	ND (10)	ND (10)	-	ND (1.0)	-	ND (10.0)	-	ND (10)
Chloroform (Trichloromethane)	ug/L	ND (5)	-	ND (0.2)	-	-	ND (0.2)	-	47	21	-	1.8	-	ND (2.0)	-	ND (5.0)
Chloromethane	ug/L	ND (10)	-	ND (0.9)	-	-	ND (0.9)	-	ND (9.3)	ND (10)	-	ND (0.9)	-	ND (10.0)	-	ND (10)
cis-1,2-Dichloroethene	ug/L	-	-	ND (1.0)	-	-	ND (1.0)	-	140	-	-	ND (1.0)	-	-	-	-
cis-1,3-Dichloropropene	ug/L	ND (5)	-	ND (0.3)	-	-	ND (0.3)	-	ND (3.3)	ND (5.0)	-	ND (0.3)	-	-	-	ND (5.0)
Cyclohexane, 1,2-diethyl-	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	ND (5)	-	ND (0.2)	-	-	ND (0.2)	-	ND (2.3)	ND (5.0)	-	ND (0.2)	-	ND (5.0)	-	ND (5.0)
Dibromomethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diisopropyl ether	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/L	ND (5)	-	ND (0.2)	-	-	ND (0.2)	-	ND (2.4)	ND (5.0)	-	ND (0.2)	-	ND (5.0)	-	ND (5.0)
m&p-Xylene	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert Butyl Ether	ug/L	ND (5)	-	-	-	-	ND (1.0)	-	ND (10)	-	-	ND (1.0)	-	-	-	-
Methylene chloride	ug/L	ND (2)	-	ND (1.0)	-	-	ND (1.0)	-	62	ND (5.0)	-	ND (1.0)	-	8 B	-	ND (5.0)
o-Xylene	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	ND (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tert-Butyl Alcohol	ug/L	ND (100)	-	-	-	-	ND (250)	-	ND (2500)	-	-	ND (250)	-	-	-	-
Tetrachloroethene	ug/L	ND (1)	-	ND (0.1)	-	-	ND (0.1)	-	24	ND (5.0)	-	0.2	-	ND (5.0)	-	ND (5.0)
Toluene	ug/L	ND (5)	-	ND (0.2)	-	-	ND (0.2)	-	ND (1.8)	88	-	ND (0.2)	-	1 J	-	ND (5.0)
Total Targeted Compounds	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total VOCS	ug/L	ND (28)	-	-	-	-	ND	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/L	ND (5)	-	ND (0.3)	-	-	ND (0.3)	-	59	ND (5.0)	-	ND (0.3)	-	ND (5.0)	-	ND (5.0)
trans-1,3-Dichloropropene	ug/L	ND (5)	-	ND (0.3)	-	-	ND (0.3)	-	ND (3.1)	ND (5.0)	-	ND (0.3)	-	-	-	ND (5.0)
Trichloroethene	ug/L	28	-	ND (0.4)	-	-	ND (0.4)	-	1100	1.4 J	-	7.5	-	ND (5.0)	-	ND (5.0)
Trichlorofluoromethane (CFC-11)	ug/L	ND (5)	-	ND (0.2)	-	-	ND (0.2)	-	ND (2.3)	ND (5.0)	-	ND (0.2)	-	-	-	ND (5.0)
Vinyl acetate	ug/L	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/L	ND (5)	-	ND (0.4)	-	-	ND (0.4)	-	34	ND (10)	-	ND (0.4)	-	ND (10.0)	-	ND (10)
Xylene (total)	ug/L	-	-	ND (1.0)	-	-	ND (1.0)	-	ND (10)	ND (5.0)	-	ND (1.0)	-	7	-	ND (5.0)
Volatile TICS																
1,2,3,4-Tetramethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,5-Tetramethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene A	ug/L	-	-	-	-	-	-	-	99	-	-	-	-	-	-	-
1,4-Hexadiene, 2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Methanonaphthalene, 1,4- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Pentadiene, 2,3,4-trimet A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	26	-	-
1,4-Pentadiene, 2,3,4-trimet B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	42	-	-
1-Ethenyl-2-methyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-2-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-3-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	19	-	-
1-Ethyl-4-methylbenzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Hexene, 5,5-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Methylethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	22	-	-
1-Methylethyl-benzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Pentene, 3,4-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	44	-	-
1H-Inden-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-5-ol, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-1,2-d A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-1,6-d A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-4-met A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Pyrazole, 4,5-dihydro-1,5 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl naphthalene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	120	-	-
2-Methylbutane A	ug/L	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-
2-Methylpentane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Hexene, 2,2-dimethyl-, (Z)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	25	-	-
3-Hepten-2-one A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Ethyl-1,2-dimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,2,4,5-tetramethyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,2-diethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethyl-2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethylpropyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-
Benzene, 1-methyl-3-(1-methylethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-(1-methylethyl)- B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-propyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		*BEC-3S*	*BEC-3S*	*BEC-3S*	*BEC-3S*	*BEC-3S*	*BEC-3S*	*BEC-4B*	*BEC-4B*	*BEC-4D*	*BEC-4D*	*BEC-4D*	*BEC-4S*	*BEC-4S*	*BEC-4S*	*BEC-4S*
Sample ID:		*93089-2103*	*93089-2205*	*93089-2205*	*93089-2403*	*93089-2403*	*93089-2403*	*2313*	*2313*	*89001-2017*	*93089-2304*	*93089-2304*	*89001-03-2004*	*89001-03-2004*	*89001-03-2004*	*2004*
Sample Date:		*4/20/94*	*4/20/95*	*4/20/95*	*3/12/96*	*3/12/96*	*3/12/96*	*8/8/95*	*8/8/95*	*12/12/90*	*8/10/95*	*8/10/95*	*9/1/89*	*9/1/89*	*9/1/89*	*11/8/90*
Analysis Date:		*4/20/94*	*4/20/95*	*5/1/95*	*3/12/96*	*3/13/96*	*3/25/96*	*8/8/95*	*8/14/95*	*12/12/90*	*8/10/95*	*8/16/95*	*9/1/89*	*9/5/89*	*9/13/89*	*11/8/90*
Sample Depth:																
Parameters	*Units*	Duplicate														
Benzene, 1-methylpropyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 2-ethenyl-1,4-dimet A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 2-ethly-1,4-dimethy A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl Alcohol A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butane, 1-(1-methylpropoxy)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butane, 2-ethoxy- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	45	-	-	-
C10H12 aromatic A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C9H10 aromatic A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cycloheptane, methyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	16	-	-	-
Cyclohexane A	ug/L	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-
Cyclopentene, 4,4-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	19	-	-	-
Cyclopropane, 1-(2-methylbut)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclotetrasiloxane, octamethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diisopropyl ether A	ug/L	-	-	-	-	-	-	-	47	-	-	-	-	-	-	-
Dimethyl cyclohexane (isomers) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dodecanamide, n,n-bis(2-hydroxyethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ether A	ug/L	-	-	-	-	-	-	-	730	-	-	-	-	-	-	-
Ethyl Methyl Benzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylcyclobutane A	ug/L	-	-	-	-	-	-	-	-	17	-	-	-	-	-	-
Ethyldimethyl benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane A	ug/L	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-
1H-Indene-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indan, 1-methyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	25	-	-	-
Indane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	48	-	-	-
Naphthalene, 1,2,3,4-tetrahy A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrahydrofuran A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36
Toluene A	ug/L	-	-	-	-	-	-	-	-	13	-	-	-	-	-	-
Trichloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown A	ug/L	-	-	-	-	-	-	-	-	-	-	-	51	-	-	-
Unknown B	ug/L	-	-	-	-	-	-	-	-	-	-	-	72	-	-	-
Unknown C	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown D	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Aldehyde A	ug/L	-	-	5.6	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Alkane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Alkane B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C10H20 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C8H16 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown isomer of trimethyl benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene(ortho) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		BEC-4S	BEC-4S	BEC-4S	BEC-5D	BEC-5D	BEC-5S	BEC-5S	BEC-5S	BEC-5S	BEC-5S	BEC-5S	BEC-5S	BEC-5S	BEC-5S
Sample ID:		89001-2004	93089-2314	93089-2314	93089-2305	93089-2305	89001-03-2005	89001-03-2005	89001-03-2005	2005	89001-2005	93089-2102	93089-2203	93089-2203	93089-2404	93089-2404
Sample Date:		12/12/90	8/10/95	8/10/95	8/9/95	8/9/95	9/1/89	9/1/89	9/1/89	11/8/90	12/12/90	4/20/94	4/20/95	4/20/95	3/12/96	3/13/96
Analysis Date:		12/12/90	8/10/95	8/16/95	8/9/95	8/15/95	9/1/89	9/6/89	9/11/89	11/8/90	12/12/90	4/20/94	4/20/95	5/2/95	3/12/96	3/13/96
Sample Depth:																
Parameters	**Units**															
Metals																
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	-	-	-	-	-	-	-	-	-	-	44	-	52.7	-	10.9
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls																
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides																
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
tau-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatiles																
1,2,4-Trichlorobenzene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
1,2-Dichlorobenzene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
1,2-Diphenylhydrazine	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
1,4-Dichlorobenzene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
2,4-Dinitrotoluene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
2,6-Dinitrotoluene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
2-Chloronaphthalene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
2-Methyl naphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	ND (20)	-	-	-	-	-	-	ND (20.0)	ND (50)	ND (20)	ND (5)	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
4-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
Acenaphthene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Acenaphthylene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Anthracene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Benzidine	ug/L	ND (20)	-	-	-	-	-	-	ND (20.0)	ND (50)	ND (20)	ND (10)	-	-	-	-
Benzo(a)anthracene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Benzo(a)pyrene	ug/L	ND (10)	-	-	-	-	-	-	-	ND (30)	ND (10)	ND (5)	-	-	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		*BEC-4S*	*BEC-4S*	*BEC-4S*	*BEC-5D*	*BEC-5D*	*BEC-5S*	*BEC-5S*	*BEC-5S*	*BEC-5S*	*BEC-5S*	*BEC-5S*	*BEC-5S*	*BEC-5S*	*BEC-5S*	*BEC-5S*
Sample ID:		*89001-2004*	*93089-2314*	*93089-2314*	*93089-2305*	*93089-2305*	*89001-03-2005*	*89001-03-2005*	*89001-03-2005*	*2005*	*89001-2005*	*93089-2102*	*93089-2203*	*93089-2203*	*93089-2404*	*93089-2404*
Sample Date:		*12/12/90*	*8/10/95*	*8/10/95*	*8/9/95*	*8/9/95*	*9/1/89*	*9/1/89*	*9/1/89*	*11/8/90*	*12/12/90*	*4/20/94*	*4/20/95*	*4/20/95*	*3/12/96*	*3/12/96*
Analysis Date:		*12/12/90*	*8/10/95*	*8/16/95*	*8/9/95*	*8/15/95*	*9/1/89*	*9/6/89*	*9/11/89*	*11/8/90*	*12/12/90*	*4/20/94*	*4/20/95*	*5/2/95*	*3/12/96*	*3/13/96*
Sample Depth:																
Parameters	*Units*															
Benzo(b)fluoranthene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Benzo(g,h,i)perylene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Benzo(k)fluoranthene	ug/L	ND (10)	-	-	-	-	-	-	-	ND (30)	ND (10)	ND (5)	-	-	-	-
Benzoic acid	ug/L	-	-	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-
Benzyl Alcohol	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
bis(2-Ethylhexyl)phthalate	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	4.8 J	ND (5)	-	-	-	-
Butyl benzylphthalate	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Chrysene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Di-n-butylphthalate	ug/L	ND (10)	-	-	-	-	-	-	6 BJ	ND (30)	ND (10)	ND (5)	-	-	-	-
Di-n-octyl phthalate	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Dibenz(a,h)anthracene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
Diethyl phthalate	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Dimethyl phthalate	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Fluoranthene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Fluorene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Hexachlorobenzene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Hexachlorobutadiene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Hexachlorocyclopentadiene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Hexachloroethane	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Isophorone	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
N-Nitrosodimethylamine	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
N-Nitrosodiphenylamine	ug/L	ND (10)	-	-	-	-	-	-	-	ND (30)	ND (10)	ND (5)	-	-	-	-
Naphthalene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Nitrobenzene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
Phenanthrene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
Pyrene	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
Pyridine	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
Total Targeted Compounds	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL NON-TARGETED BASE NEUTRALS	ug/L	ND	-	-	-	-	-	-	-	-	ND	ND	-	-	-	-
TOTAL TARGETED BASE NEUTRALS	ug/L	-	-	-	-	-	-	-	-	-	-	ND	-	-	-	-
Semi-Volatile TIC'S																
1,2,3,4-Tetrahydronaphthalene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4-Tetramethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-2-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one,2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	ug/L	ND (10)	-	-	-	-	-	-	ND (10.0)	ND (30)	ND (10)	ND (5)	-	-	-	-
2,4,4-Trimethyl-2-pentene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,3,5-trimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethyl-2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-propyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, ethyl-1,2,4-trimeth A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)thiophene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexanone A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopropane, pentyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclotetrasiloxane, octamethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl cyclohexane (isomers) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dodecanamide, n,n-bis(2-hydroxyethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexanedioic acid, mono(2-eth A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown A	ug/L	10	-	-	-	-	-	-	-	-	5	-	-	-	-	-
Unknown B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown D	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene(ortho) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatiles																
1,1,1-Trichloroethane	ug/L	ND (5.0)	-	ND (0.2)	-	ND (0.4)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (5)	-	ND (0.2)	-	-
1,1,2,2-Tetrachloroethane	ug/L	ND (5.0)	-	ND (0.3)	-	ND (0.7)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (2)	-	ND (0.3)	-	-
1,1,2-Trichloroethane	ug/L	ND (5.0)	-	ND (0.4)	-	ND (0.9)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (3)	-	ND (0.4)	-	-
1,1-Dichloroethane	ug/L	ND (5.0)	-	ND (0.3)	-	ND (0.6)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (5)	-	ND (0.3)	-	-
1,1-Dichloroethene	ug/L	ND (5.0)	-	ND (0.6)	-	ND (1.1)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (2)	-	ND (0.6)	-	-
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	-	ND (5.0)	-	-	-	ND (5)	-	-	-	-
1,2-Dichloroethane	ug/L	ND (5.0)	-	ND (0.2)	-	12	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (2)	-	ND (0.2)	-	-
1,2-Dichloropropane	ug/L	ND (5.0)	-	ND (0.5)	-	ND (0.9)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (1)	-	ND (0.5)	-	-
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	-	ND (5.0)	-	-	-	1 J	-	-	-	-
1,3-Dichloropropene	ug/L	-	-	-	-	-	-	ND (5.0)	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	-	ND (5.0)	-	-	-	ND (5)	-	-	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		BEC-4S	BEC-4S	BEC-4S	BEC-5D	BEC-5D	BEC-5S	BEC-5S	BEC-5S	BEC-5S	BEC-5S	BEC-5S	BEC-5S	BEC-5S	BEC-5S	BEC-5S
Sample ID:		89001-2004	93089-2314	93089-2314	93089-2305	93089-2305	89001-03-2005	89001-03-2005	89001-03-2005	2005	89001-2005	93089-2102	93089-2203	93089-2203	93089-2404	93089-2404
Sample Date:		12/12/90	8/10/95	8/10/95	8/9/95	8/9/95	9/1/89	9/1/89	9/1/89	11/8/90	12/12/90	4/20/94	4/20/95	4/20/95	3/12/96	3/12/96
Analysis Date:		12/12/90	8/10/95	8/16/95	8/9/95	8/15/95	9/1/89	9/6/89	9/11/89	11/8/90	12/12/90	4/20/94	4/20/95	5/2/95	3/12/96	3/13/96
Sample Depth:																
Parameters	*Units*															
2-Butanone	ug/L	-	-	-	-	-	-	-	-	-	-	ND (25)	-	-	-	-
2-Chloroethyl vinyl ether	ug/L	ND (10)	-	ND (0.5)	-	ND (0.9)	-	ND (10.0)	-	ND (10)	ND (10)	ND (10)	-	ND (0.5)	-	-
2-Hexanone	ug/L	-	-	-	-	-	-	-	-	-	-	ND (20)	-	-	-	-
4-Methyl-2-pentanone	ug/L	-	-	-	-	-	-	-	-	-	-	ND (25)	-	-	-	-
Acetone	ug/L	-	-	-	-	-	-	-	-	-	-	9 J	-	-	-	-
Acrolein	ug/L	-	-	-	-	-	-	ND (50.0)	-	-	-	-	-	-	-	-
Acrylonitrile	ug/L	-	-	-	-	-	-	ND (50.0)	-	-	-	-	-	-	-	-
Benzene	ug/L	ND (5.0)	-	ND (0.2)	-	ND (0.5)	-	11	-	ND (5.0)	ND (5.0)	ND (1)	-	ND (0.2)	-	-
Bromodichloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	ND (1)	-	-	-	-
Bromodichloromethane	ug/L	ND (5.0)	-	ND (0.2)	-	ND (0.4)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	-	-	ND (0.2)	-	-
Bromoform	ug/L	ND (5.0)	-	ND (0.3)	-	ND (0.6)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (4)	-	ND (0.3)	-	-
Bromomethane	ug/L	ND (10)	-	ND (0.3)	-	ND (0.5)	-	ND (10.0)	-	ND (10)	ND (10)	ND (10)	-	ND (0.3)	-	-
Carbon disulfide	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
Carbon tetrachloride	ug/L	ND (5.0)	-	ND (0.2)	-	ND (0.3)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (2)	-	ND (0.2)	-	-
Chlorobenzene	ug/L	ND (5.0)	-	ND (0.1)	-	9.0	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (4)	-	ND (0.1)	-	-
Chloroethane	ug/L	ND (10)	-	ND (1.0)	-	ND (2.1)	-	ND (10.0)	-	ND (10)	ND (10)	ND (10)	-	ND (1.0)	-	-
Chloroform (Trichloromethane)	ug/L	1.3 J	-	ND (0.2)	-	3.1	-	ND (2.0)	-	ND (5.0)	ND (5.0)	ND (5)	-	ND (0.2)	-	-
Chloromethane	ug/L	ND (10)	-	ND (0.9)	-	ND (1.9)	-	ND (10.0)	-	ND (10)	ND (10)	ND (10)	-	ND (0.9)	-	-
cis-1,2-Dichloroethene	ug/L	-	-	ND (1.0)	-	18	-	-	-	-	-	-	-	ND (1.0)	-	-
cis-1,3-Dichloropropene	ug/L	ND (5.0)	-	ND (0.3)	-	ND (0.7)	-	-	-	ND (5.0)	ND (5.0)	ND (5)	-	ND (0.3)	-	-
Cyclobutane, 1,2-diethyl-	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	ND (5.0)	-	ND (0.2)	-	ND (0.5)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (5)	-	ND (0.2)	-	-
Dibromomethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diisopropyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
Ethylbenzene	ug/L	ND (5.0)	-	ND (0.2)	-	ND (0.5)	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (5)	-	ND (0.2)	-	-
m&p-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
Methyl Tert Butyl Ether	ug/L	-	-	ND (1.0)	-	ND (2.0)	-	-	-	-	-	ND (5)	-	-	-	-
Methylene chloride	ug/L	ND (5.0)	-	ND (1.0)	-	ND (2.1)	-	ND (4.0)	-	ND (5.0)	ND (5.0)	ND (2)	-	ND (1.0)	-	-
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
Styrene	ug/L	-	-	-	-	-	-	-	-	-	-	ND (5)	-	-	-	-
Tert-Butyl Alcohol	ug/L	-	-	ND (250)	-	ND (500)	-	-	-	-	-	ND (100)	-	-	-	-
Tetrachloroethene	ug/L	ND (5.0)	-	ND (0.1)	-	6.0	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (1)	-	ND (0.1)	-	-
Toluene	ug/L	ND (5.0)	-	ND (0.2)	-	ND (0.4)	-	2 J	-	ND (5.0)	ND (5.0)	ND (5)	-	ND (0.2)	-	-
Total Targeted Compounds	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total VOCS	ug/L	ND	-	-	-	-	-	-	-	-	ND	10	-	-	-	-
trans-1,2-Dichloroethene	ug/L	ND (5.0)	-	ND (0.3)	-	5.0	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (5)	-	ND (0.3)	-	-
trans-1,3-Dichloropropene	ug/L	ND (5.0)	-	ND (0.3)	-	ND (0.6)	-	-	-	ND (5.0)	ND (5.0)	ND (5)	-	ND (0.3)	-	-
Trichloroethene	ug/L	ND (5.0)	-	ND (0.4)	-	120	-	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (1)	-	ND (0.4)	-	-
Trichlorofluoromethane (CFC-11)	ug/L	ND (5.0)	-	ND (0.2)	-	ND (0.5)	-	-	-	ND (5.0)	ND (5.0)	ND (5)	-	ND (0.2)	-	-
Vinyl acetate	ug/L	-	-	-	-	-	-	-	-	-	-	ND (10)	-	-	-	-
Vinyl chloride	ug/L	ND (10)	-	ND (0.4)	-	ND (0.8)	-	ND (10.0)	-	ND (10)	ND (10)	ND (5)	-	ND (0.4)	-	-
Xylene (total)	ug/L	ND (5.0)	-	ND (1.0)	-	ND (2.0)	-	5	-	ND (5.0)	ND (5.0)	-	-	ND (1.0)	-	-
Volatile TICS																
1,2,3,4-Tetramethyl-benzene A	ug/L	-	-	-	-	-	-	20	7 J	-	-	-	-	-	-	-
1,2,3,5-Tetramethylbenzene A	ug/L	-	-	-	-	-	-	-	9 J	-	-	-	-	-	-	-
1,2,3-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	7 J	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	7 J	-	-	-	-	-	-	-
1,2-Dichlorobenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Hexdiene, 2,3-dimethyl- A	ug/L	-	-	-	-	-	-	46	-	-	-	-	-	-	-	-
1,4-Methanonaphthalene, 1,4- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Pentadiene, 2,3,4-trimet A	ug/L	-	-	-	-	-	-	25	-	-	-	-	-	-	-	-
1,4-Pentadiene, 2,3,4-trimet B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethenyl-2-methyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-2-methylbenzene A	ug/L	-	-	-	-	-	-	-	13 J	-	-	-	-	-	-	-
1-Ethyl-3-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene A	ug/L	-	-	-	-	-	-	-	12 J	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene B	ug/L	-	-	-	-	-	-	-	6 J	-	-	-	-	-	-	-
1-Hexane, 5,5-dimethyl- A	ug/L	-	-	-	-	-	-	48	-	-	-	-	-	-	-	-
1-Methylethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Methylethyl-benzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Pentene, 3,4-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	20 J	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- B	ug/L	-	-	-	-	-	-	-	6 J	-	-	-	-	-	-	-
1H-Inden-5-ol, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	9 J	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-1,2-d A	ug/L	-	-	-	-	-	-	-	12 J	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-1,6-d A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-4-met A	ug/L	-	-	-	-	-	-	-	13 J	-	-	-	-	-	-	-
1H-Pyrazole, 4,5-dihydro-1,5 A	ug/L	-	-	-	-	-	-	28	-	-	-	-	-	-	-	-
2-Methyl naphthalene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylbutane A	ug/L	-	-	-	-	-	-	170	-	-	-	-	-	-	-	-
2-Methylpentane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Hexene, 2,2-dimethyl-, (Z)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Hepten-2-one A	ug/L	-	-	-	-	-	-	64	-	-	-	-	-	-	-	-
4-Ethyl-1,2-dimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-
Acetone A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,2,4,5-tetramethyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,2-diethyl- A	ug/L	-	-	-	-	-	-	-	10 J	-	-	-	-	-	-	-
Benzene, 1-ethyl-2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethylpropyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-(1-methylethyl)- A	ug/L	-	-	-	-	-	-	34	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-(1-methylethyl)- B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-propyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		*BEC-4S*	*BEC-4S*	*BEC-4S*	*BEC-5D*	*BEC-5D*	*BEC-5S*	*BEC-5S*	*BEC-5S*	*BEC-5S*	*BEC-5S*	*BEC-5S*	*BEC-5S*	*BEC-5S*	*BEC-5S*	*BEC-5S*
Sample ID:		*89001-2004*	*93089-2314*	*93089-2314*	*93089-2305*	*93089-2305*	*89001-03-2005*	*89001-03-2005*	*89001-03-2005*	*2005*	*89001-2005*	*93089-2102*	*93089-2203*	*93089-2203*	*93089-2404*	*93089-2404*
Sample Date:		*12/12/90*	*8/10/95*	*8/10/95*	*8/9/95*	*8/9/95*	*9/1/89*	*9/1/89*	*9/1/89*	*11/8/90*	*12/12/90*	*4/20/94*	*4/20/95*	*5/2/95*	*3/12/96*	*3/12/96*
Analysis Date:		*12/12/90*	*8/10/95*	*8/16/95*	*8/9/95*	*8/15/95*	*9/1/89*	*9/6/89*	*9/11/89*	*11/8/90*	*12/12/90*	*4/20/94*	*4/20/95*	*5/2/95*	*3/12/96*	*3/13/96*
Sample Depth:																
Parameters	*Units*															
Benzene, 1-methylpropyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 2-ethenyl-1,4-dimet A	ug/L	-	-	-	-	-	-	14	-	-	-	-	-	-	-	-
Benzene, 2-ethly-1,4-dimethy A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl Alcohol A	ug/L	-	-	-	-	-	-	-	7 J	-	-	-	-	-	-	-
Butane, 1-(1-methylpropoxy)- A	ug/L	-	-	-	-	-	-	38	-	-	-	-	-	-	-	-
Butane, 2-ethoxy- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10H12 aromatic A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C9H10 aromatic A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	17	-	-
Cycloheptane, methyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	9.2	-	-
Cyclohexane A	ug/L	-	-	-	-	-	-	45	-	-	-	-	-	-	-	-
Cyclopentane, 1,4-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopropane, 1-(2-methylbut)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclotetrasiloxane, octamethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diisopropyl ether A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl cyclohexane (isomers) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dodecanamide, n,n-bis(2-hydroxyethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ether A	ug/L	-	-	-	-	26	-	-	16 J	-	-	-	-	-	-	-
Ethyl Methyl Benzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylcyclobutane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylmethyl benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
H-Indene-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	19	-	-	-	-	-	-	-	-
Indan, 1-methyl- A	ug/L	-	-	-	-	-	-	48	33 J	-	-	-	-	-	-	-
Indane A	ug/L	-	-	-	-	-	-	75	-	-	-	-	-	-	-	-
Naphthalene, 1,2,3,4-tetrahy A	ug/L	-	-	-	-	-	-	-	7 J	-	-	-	-	-	-	-
Tetrahydrofuran A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown A	ug/L	-	-	-	-	-	-	24	10 J	-	-	-	-	-	-	-
Unknown B	ug/L	-	-	-	-	-	-	-	6 J	-	-	-	-	-	-	-
Unknown C	ug/L	-	-	-	-	-	-	-	5 J	-	-	-	-	-	-	-
Unknown D	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Aldehyde A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Alkane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-
Unknown Alkane B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C10H20 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	8.6	-	-
Unknown C6H16 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown isomer of trimethyl benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene(ortho) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		BEC-5S	BEC-5S	BEC-5S	BEC-6D	BEC-6D	BEC-6S	BEC-6S	BEC-6S	BEC-7D	BEC-7D	BEC-7S	BEC-7S	BEC-7S	BEC-7S	BEC-8D	BEC-8D
Sample ID:		93089-2404	93089-2405DUP	93089-2405DUP	2306	2306	2006	89001-2006	89001-2006	2307	2307	2007	89001-2007	89001-2007	93089-2315	93089-2315	2308	2308
Sample Date:		3/12/96	3/12/96	3/12/96	8/9/95	8/9/95	11/8/90	12/12/90	12/12/90	8/8/95	8/8/95	11/8/90	12/12/90	12/12/90	8/9/95	8/15/95	8/8/95	8/12/95
Analysis Date:		3/25/96	3/13/96	3/25/96	8/9/95	8/14/95	11/8/90	12/12/90	12/15/90	8/8/95	8/11/95	11/8/90	12/12/90	12/15/90	8/9/95	8/15/95	8/8/95	8/12/95
Sample Depth:																		
Parameters	Units		Duplicate	Duplicate														
Metals																		
Antimony	mg/L	-	-	-	-	-	-	-	ND (0.01)	-	-	-	-	ND (0.01)	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	ND (0.01)	-	-	-	-	ND (0.01)	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	ND (0.01)	-	-	-	-	ND (0.01)	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	ND (0.01)	-	-	-	-	ND (0.01)	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	ND (0.01)	-	-	-	-	0.01	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	ND (0.01)	-	-	-	-	ND (0.01)	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	0.04	-	-	-	-	0.06	-	-	-	-
Lead	ug/L	-	14.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	ND (0.002)	-	-	-	-	ND (0.002)	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	ND (0.01)	-	-	-	-	ND (0.01)	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	ND (0.01)	-	-	-	-	ND (0.01)	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	ND (0.01)	-	-	-	-	ND (0.01)	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	ND (0.01)	-	-	-	-	ND (0.01)	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	ND (0.01)	-	-	-	-	0.02	-	-	-	-
Polychlorinated Biphenyls																		
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	ND (0.5)	-	-	-	-	ND (0.5)	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	ND (0.5)	-	-	-	-	ND (0.5)	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	ND (0.5)	-	-	-	-	ND (0.5)	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	ND (0.5)	-	-	-	-	ND (0.5)	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	ND (0.5)	-	-	-	-	ND (0.5)	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	ND (1.0)	-	-	-	-	ND (1.0)	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	ND (1.0)	-	-	-	-	ND (1.0)	-	-	-	-
Pesticides																		
4,4'-DDD	ug/L	-	-	-	-	-	-	-	ND (0.1)	-	-	-	-	ND (0.1)	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	ND (0.1)	-	-	-	-	ND (0.1)	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	ND (0.1)	-	-	-	-	ND (0.1)	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	ND (0.05)	-	-	-	-	ND (0.05)	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	ND (0.05)	-	-	-	-	ND (0.05)	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	ND (0.05)	-	-	-	-	ND (0.05)	-	-	-	-
Chlordane	ug/L	-	-	-	-	-	-	-	ND (0.5)	-	-	-	-	ND (0.5)	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	ND (0.05)	-	-	-	-	ND (0.05)	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	ND (0.1)	-	-	-	-	ND (0.1)	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	ND (0.1)	-	-	-	-	ND (0.1)	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	ND (0.1)	-	-	-	-	ND (0.1)	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	ND (0.1)	-	-	-	-	ND (0.1)	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	ND (0.1)	-	-	-	-	ND (0.1)	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	ND (0.05)	-	-	-	-	ND (0.05)	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	ND (0.05)	-	-	-	-	ND (0.05)	-	-	-	-
tau-BHC	ug/L	-	-	-	-	-	-	-	ND (0.05)	-	-	-	-	ND (0.05)	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	ND (1.0)	-	-	-	-	ND (1.0)	-	-	-	-
Semi-Volatiles																		
1,2,4-Trichlorobenzene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
1,2-Diphenylhydrazine	ug/L	-	-	-	-	-	-	-	ND (10.0)	-	-	-	-	ND (10.0)	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	-	ND (10.0)	-	-	-	-	ND (10.0)	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	ND (20)	ND (20)	ND (50.0)	-	-	ND (20)	ND (20)	ND (50.0)	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloronapthalene	ug/L	-	-	-	-	-	-	-	ND (10.0)	-	-	-	-	ND (10.0)	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Benzidine	ug/L	-	-	-	-	-	ND (20)	ND (20)	ND (10.0)	-	-	ND (20)	ND (20)	ND (10.0)	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		*BEC-5S*	*BEC-5S*	*BEC-5S*	*BEC-6D*	*BEC-6D*	*BEC-6S*	*BEC-6S*	*BEC-6S*	*BEC-7D*	*BEC-7D*	*BEC-7S*	*BEC-7S*	*BEC-7S*	*BEC-7S*	*BEC-7S*	*BEC-8D*	*BEC-8D*
Sample ID:		*93089-2404*	*93089-2405DUP*	*93089-2405DUP*	*2306*	*2306*	*2006*	*89001-2006*	*89001-2006*	*2307*	*2307*	*2007*	*89001-2007*	*89001-2007*	*93089-2315*	*93089-2315*	*2308*	*2308*
Sample Date:		*3/12/96*	*3/12/96*	*3/12/96*	*8/9/95*	*8/9/95*	*11/8/90*	*12/12/90*	*12/15/90*	*8/8/95*	*8/8/95*	*11/8/90*	*12/12/90*	*12/15/90*	*8/9/95*	*8/15/95*	*8/8/95*	*8/12/95*
Analysis Date:		*3/25/96*	*3/13/96*	*3/25/96*	*8/9/95*	*8/14/95*	*11/8/90*	*12/12/90*	*12/15/90*	*8/8/95*	*8/11/95*	*11/8/90*	*12/12/90*	*12/15/90*	*8/9/95*	*8/15/95*	*8/8/95*	*8/12/95*
Sample Depth:																		
Parameters	*Units*		Duplicate	Duplicate														
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Benzoic acid	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl Alcohol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
bis(2-Ethylhexyl)phthalate	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Butyl benzylphthalate	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Di-n-butylphthalate	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Di-n-octyl phthalate	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-	ND (10.0)	-	-	-	-	ND (10.0)	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
N-Nitrosodimethylamine	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Naphthalene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Nitrobenzene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
Pyridine	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Targeted Compounds	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL NON-TARGETED BASE NEUTRALS	ug/L	-	-	-	-	-	-	ND	-	-	-	-	ND	-	-	-	-	-
TOTAL TARGETED BASE NEUTRALS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile TICS																		
1,2,3,4-Tetrahydronaphthalene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4-Tetramethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-2-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one,2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	ug/L	-	-	-	-	-	ND (10)	ND (10)	ND (10.0)	-	-	ND (10)	ND (10)	ND (10.0)	-	-	-	-
2,4,4-Trimethyl-2-pentene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,3,5-trimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethyl-2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-propyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, ethyl-1,2,4-trimeth A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)thiophene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexanone A	ug/L	-	-	-	-	-	-	-	-	-	-	130	-	-	-	-	-	-
Cyclopropane, pentyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclotetrasiloxane, octamethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl cyclohexane (isomers) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dodecanamide, n,n-bis(2-hydroxyethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexanedioic acid, mono(2-eth A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown A	ug/L	-	-	-	-	-	-	-	-	-	-	-	42	-	-	-	-	-
Unknown B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown D	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene(ortho) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatiles																		
1,1,1-Trichloroethane	ug/L	ND (0.2)	-	ND (0.2)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	ND (0.4)
1,1,2,2-Tetrachloroethane	ug/L	ND (0.3)	-	ND (0.3)	-	ND (0.3)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	-	ND (0.7)
1,1,2-Trichloroethane	ug/L	ND (0.4)	-	ND (0.4)	-	ND (0.4)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.4)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.4)	-	ND (0.9)
1,1-Dichloroethane	ug/L	ND (0.3)	-	ND (0.3)	-	ND (0.3)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	-	ND (0.6)
1,1-Dichloroethene	ug/L	ND (0.6)	-	ND (0.6)	-	ND (0.6)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.6)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.6)	-	3.7
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	ug/L	ND (0.2)	-	ND (0.2)	-	1.2	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	ND (0.4)
1,2-Dichloropropane	ug/L	ND (0.5)	-	ND (0.5)	-	ND (0.5)	ND (5.0)	ND	ND (5.0)	-	ND (0.5)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.5)	-	ND (0.9)
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	-	[redacted]	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene	ug/L	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL R[illegible]S SUMMARY
HISTORIC - G[illegible]DWATER
LINDEN, NJ

Sample Location:		BEC-5S	BEC-5S	BEC-5S	BEC-6D	BEC-6D	BEC-6S	BEC-6S	BEC-6S	BEC-7D	BEC-7D	BEC-7S	BEC-7S	BEC-7S	BEC-7S	BEC-7S	BEC-8D	BEC-8D
Sample ID:		93089-2404	93089-2405DUP	93089-2405DUP	2306	2306	2006	89001-2006	89001-2006	2307	2307	2007	89001-2007	89001-2007	93089-2315	93089-2315	2308	2308
Sample Date:		3/12/96	3/12/96	3/12/96	8/9/95	8/9/95	11/8/90	12/12/90	12/15/90	8/8/95	8/8/95	11/8/90	12/12/90	12/15/90	8/9/95	8/9/95	8/8/95	8/8/95
Analysis Date:		3/25/96	3/13/96	3/25/96	8/9/95	8/14/95	11/8/90	12/12/90	12/15/90	8/8/95	8/11/95	11/8/90	12/12/90	12/15/90	8/9/95	8/15/95	8/8/95	8/12/95
Sample Depth:																		
			Duplicate	Duplicate														
Parameters	*Units*																	
2-Butanone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	ug/L	ND (0.5)	-	ND (0.5)	-	ND (0.5)	ND (10)	ND (10)	ND (5.0)	-	ND (0.5)	ND (10)	ND (10)	ND (5.0)	-	ND (0.5)	-	ND (0.9)
2-Hexanone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	ug/L	-	-	-	-	-	-	-	ND (5.0)	-	-	-	-	ND (5.0)	-	-	-	-
Acrylonitrile	ug/L	-	-	-	-	-	-	-	ND (5.0)	-	-	-	-	ND (5.0)	-	-	-	-
Benzene	ug/L	ND (0.2)	-	ND (0.2)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	ND (0.5)
Bromodichloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	ND (0.2)	-	ND (0.2)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	ND (0.4)
Bromoform	ug/L	ND (0.3)	-	ND (0.3)	-	ND (0.3)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	-	ND (0.6)
Bromomethane	ug/L	ND (0.3)	-	ND (0.3)	-	ND (0.3)	ND (10)	ND (10)	ND (5.0)	-	ND (0.3)	ND (10)	ND (10)	ND (5.0)	-	ND (0.3)	-	ND (0.5)
Carbon disulfide	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	ug/L	ND (0.2)	-	ND (0.2)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	ND (0.3)
Chlorobenzene	ug/L	ND (0.1)	-	ND (0.1)	-	1.7	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.1)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.1)	-	ND (0.3)
Chloroethane	ug/L	ND (1.0)	-	ND (1.0)	-	ND (1.0)	ND (10)	ND (10)	ND (5.0)	-	ND (1.0)	ND (10)	ND (10)	ND (5.0)	-	ND (1.0)	-	ND (2.1)
Chloroform (Trichloromethane)	ug/L	ND (0.2)	-	ND (0.2)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	ND (0.4)
Chloromethane	ug/L	ND (0.9)	-	ND (0.9)	-	ND (0.9)	ND (10)	ND (10)	ND (5.0)	-	ND (0.9)	ND (5.0)	ND (10)	ND (5.0)	-	ND (0.9)	-	ND (1.9)
cis-1,2-Dichloroethene	ug/L	ND (1.0)	-	ND (1.0)	-	2.8	-	-	-	-	ND (1.0)	-	-	-	-	ND (1.0)	-	8.0
cis-1,3-Dichloropropene	ug/L	ND (0.3)	-	ND (0.3)	-	ND (0.3)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	-	ND (0.7)
Cyclobutane, 1,2-diethyl-	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	ND (0.2)	-	ND (0.2)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	ND (0.5)
Dibromomethane	ug/L	-	-	-	-	-	-	-	ND (5.0)	-	-	-	-	ND (5.0)	-	-	-	-
Diisopropyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/L	0.4	-	0.4	-	ND (0.2)	ND (5.0)	23 J	ND (5.0)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	ND (0.5)
m&p-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert Butyl Ether	ug/L	ND (1.0)	-	ND (1.0)	-	ND (1.0)	-	-	-	-	ND (1.0)	-	-	-	-	ND (1.0)	-	ND (2.0)
Methylene chloride	ug/L	ND (1.0)	-	ND (1.0)	-	ND (1.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (1.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (1.0)	-	ND (2.1)
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tert-Butyl Alcohol	ug/L	ND (250)	-	ND (250)	-	ND (250)	-	-	-	-	ND (250)	-	-	-	-	ND (250)	-	ND (500)
Tetrachloroethene	ug/L	ND (0.1)	-	ND (0.1)	-	0.7	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.1)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.1)	-	ND (0.2)
Toluene	ug/L	ND (0.2)	-	ND (0.2)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	ND (0.4)
Total Targeted Compounds	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total VOCS	ug/L	0.4	-	0.4	-	-	-	ND	-	-	-	-	ND	-	-	-	-	-
trans-1,2-Dichloroethene	ug/L	ND (0.3)	-	ND (0.3)	-	0.7	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	-	ND (0.6)
trans-1,3-Dichloropropene	ug/L	ND (0.3)	-	ND (0.3)	-	ND (0.3)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	-	ND (0.6)
Trichloroethene	ug/L	ND (0.4)	-	ND (0.4)	-	12	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.4)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.4)	-	200
Trichlorofluoromethane (CFC-11)	ug/L	ND (0.2)	-	ND (0.2)	-	ND (0.2)	ND (5.0)	ND (5.0)	-	-	ND (0.2)	ND (5.0)	ND (5.0)	-	-	ND (0.2)	-	ND (0.5)
Vinyl acetate	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/L	ND (0.4)	-	ND (0.4)	-	ND (0.4)	ND (10)	ND (10)	ND (10.0)	-	ND (0.4)	ND (10)	ND (10)	ND (10.0)	-	ND (0.4)	-	ND (0.8)
Xylene (total)	ug/L	ND (1.0)	-	ND (1.0)	-	ND (1.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (1.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (1.0)	-	ND (2.0)
Volatile TICS																		
1,2,3,4-Tetramethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,5-Tetramethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Hexdiene, 2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Methanonaphthalene, 1,4- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Pentadiene, 2,3,4-trimet A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Pentadiene, 2,3,4-trimet B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethenyl-2-methyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-2-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-3-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Hexane, 5,5-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Methylethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Methylethyl-benzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Pentene, 3,4-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-5-ol, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-1,2-d A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-1,6-d A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-4-met A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Pyrazole, 4,5-dihydro-1,5 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl naphthalene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylbutane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylpentane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Hexene, 2,2-dimethyl-, (Z)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Hepten-2-one A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Ethyl-1,2-dimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,2,4,5-tetramethyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,2-diethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethyl-2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethylpropyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-(1-methylethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-(1-methylethyl)- B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-propyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		*BEC-5S*	*BEC-5S*	*BEC-5S*	*BEC-6D*	*BEC-6D*	*BEC-6S*	*BEC-6S*	*BEC-6S*	*BEC-7D*	*BEC-7D*	*BEC-7S*	*BEC-7S*	*BEC-7S*	*BEC-7S*	*BEC-7S*	*BEC-8D*	*BEC-8D*
Sample ID:		*93089-2404*	*93089-2405DUP*	*93089-2405DUP*	*2306*	*2306*	*2006*	*89001-2006*	*89001-2006*	*2307*	*2307*	*2007*	*89001-2007*	*89001-2007*	*93089-2315*	*93089-2315*	*2308*	*2308*
Sample Date:		*3/12/96*	*3/12/96*	*3/12/96*	*8/9/95*	*8/9/95*	*11/8/90*	*12/12/90*	*12/15/90*	*8/8/95*	*8/8/95*	*11/8/90*	*12/12/90*	*12/15/90*	*8/9/95*	*8/15/95*	*8/8/95*	*8/12/95*
Analysis Date:		*3/25/96*	*3/13/96*	*3/25/96*	*8/9/95*	*8/14/95*	*11/8/90*	*12/12/90*	*12/15/90*	*8/8/95*	*8/11/95*	*11/8/90*	*12/12/90*	*12/15/90*	*8/9/95*	*8/15/95*	*8/8/95*	*8/12/95*
Sample Depth:																		
Parameters	*Units*		Duplicate	Duplicate														
Benzene, 1-methylpropyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 2-ethenyl-1,4-dimet A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 2-ethly-1,4-dimethy A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl Alcohol A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butane, 1-(1-methylpropoxy)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butane, 2-ethoxy- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10H12 aromatic A	ug/L	3.5	-	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C9H10 aromatic A	ug/L	9.6	-	8.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cycloheptane, methyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopentene, 4,4-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopropane, 1-(2-methylbut)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclotetrasiloxane, octamethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diisopropyl ether A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl cyclohexane (isomers) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dodecanamide, n,n-bis(2-hydroxyethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ether A	ug/L	-	-	-	-	4.0	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl Methyl Benzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylcyclobutane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylmethyl benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indan, 1-methyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,2,3,4-tetrahy A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrahydrofuran A	ug/L	-	-	-	-	-	9.7	-	-	-	-	-	23	-	-	-	-	-
Toluene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown D	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Aldehyde A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Alkane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Alkane B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C10H20 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C8H16 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown isomer of trimethyl benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene(ortho) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL R[illegible]S SUMMARY
HISTORIC - G[illegible]NDWATER
LINDEN, NJ

Sample Location:		BEC-4S	BEC-4S	BEC-9S	BEC-4S	BEC-4S	BEC-9D	BEC-9D	BEC-9S	BEC-9S	BEC-9S	BEC-9S	BEC-10S	BEC-10S	BEC-11S	BEC-12S	BEC-12S	BEC-12S
Sample ID:		2008	89001-2008	89001-2008	93089-2316	93089-2316	2309	2309	2009	2012DUP	89001-2009	89001-2009	89001-2010	89001-2018	89001-2011	89001-2012	93089-2318	93089-2318
Sample Date:		11/8/90	12/12/90	12/15/90	8/10/95	8/10/95	8/8/95	8/8/95	11/8/90	11/8/90	12/12/90	12/15/90	12/12/90	12/12/90	12/12/90	12/12/90	8/10/95	8/15/95
Analysis Date:		11/8/90	12/12/90	12/15/90	8/10/95	8/16/95	8/8/95	8/12/95	11/8/90	11/8/90	12/12/90	12/15/90	12/12/90	12/12/90	12/12/90	12/12/90	8/10/95	8/15/95
Sample Depth:										Duplicate								
Parameters	Units													Duplicate				
Metals																		
Antimony	mg/L	-	-	ND (0.01)	-	-	-	-	-	-	-	ND (0.01)	-	-	-	-	-	-
Arsenic	mg/L	-	-	ND (0.01)	-	-	-	-	-	-	-	ND (0.01)	-	-	-	-	-	-
Beryllium	mg/L	-	-	ND (0.01)	-	-	-	-	-	-	-	ND (0.01)	-	-	-	-	-	-
Cadmium	mg/L	-	-	ND (0.01)	-	-	-	-	-	-	-	ND (0.01)	-	-	-	-	-	-
Chromium	mg/L	-	-	ND (0.01)	-	-	-	-	-	-	-	ND (0.01)	-	-	-	-	-	-
Copper	mg/L	-	-	ND (0.01)	-	-	-	-	-	-	-	ND (0.01)	-	-	-	-	-	-
Lead	mg/L	-	-	0.05	-	-	-	-	-	-	-	0.05	-	-	-	-	-	-
Lead	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	ND (0.002)	-	-	-	-	-	-	-	ND (0.002)	-	-	-	-	-	-
Nickel	mg/L	-	-	ND (0.01)	-	-	-	-	-	-	-	ND (0.01)	-	-	-	-	-	-
Selenium	mg/L	-	-	ND (0.01)	-	-	-	-	-	-	-	ND (0.01)	-	-	-	-	-	-
Silver	mg/L	-	-	ND (0.01)	-	-	-	-	-	-	-	ND (0.01)	-	-	-	-	-	-
Thallium	mg/L	-	-	ND (0.01)	-	-	-	-	-	-	-	ND (0.01)	-	-	-	-	-	-
Zinc	mg/L	-	-	0.01	-	-	-	-	-	-	-	ND (0.01)	-	-	-	-	-	-
Polychlorinated Biphenyls																		
Aroclor-1016 (PCB-1016)	ug/L	-	-	ND (0.5)	-	-	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	ND (0.5)	-	-	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	ND (0.5)	-	-	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	ND (0.5)	-	-	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	ND (0.5)	-	-	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	ND (1.0)	-	-	-	-	-	-	-	ND (1.0)	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	ND (1.0)	-	-	-	-	-	-	-	ND (1.0)	-	-	-	-	-	-
Pesticides																		
4,4'-DDD	ug/L	-	-	ND (0.1)	-	-	-	-	-	-	-	ND (0.1)	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	ND (0.1)	-	-	-	-	-	-	-	ND (0.1)	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	ND (0.1)	-	-	-	-	-	-	-	ND (0.1)	-	-	-	-	-	-
Aldrin	ug/L	-	-	ND (0.05)	-	-	-	-	-	-	-	ND (0.05)	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	ND (0.05)	-	-	-	-	-	-	-	ND (0.05)	-	-	-	-	-	-
beta-BHC	ug/L	-	-	ND (0.05)	-	-	-	-	-	-	-	ND (0.05)	-	-	-	-	-	-
Chlordane	ug/L	-	-	ND (0.5)	-	-	-	-	-	-	-	ND (0.5)	-	-	-	-	-	-
delta-BHC	ug/L	-	-	ND (0.05)	-	-	-	-	-	-	-	ND (0.05)	-	-	-	-	-	-
Dieldrin	ug/L	-	-	ND (0.1)	-	-	-	-	-	-	-	ND (0.1)	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	ND (0.1)	-	-	-	-	-	-	-	ND (0.1)	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	ND (0.1)	-	-	-	-	-	-	-	ND (0.1)	-	-	-	-	-	-
Endrin	ug/L	-	-	ND (0.1)	-	-	-	-	-	-	-	ND (0.1)	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	ND (0.1)	-	-	-	-	-	-	-	ND (0.1)	-	-	-	-	-	-
Heptachlor	ug/L	-	-	ND (0.05)	-	-	-	-	-	-	-	ND (0.05)	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	ND (0.05)	-	-	-	-	-	-	-	ND (0.05)	-	-	-	-	-	-
tau-BHC	ug/L	-	-	ND (0.05)	-	-	-	-	-	-	-	ND (0.05)	-	-	-	-	-	-
Toxaphene	ug/L	-	-	ND (1.0)	-	-	-	-	-	-	-	ND (1.0)	-	-	-	-	-	-
Semi-Volatiles																		
1,2,4-Trichlorobenzene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
1,2-Dichlorobenzene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
1,2-Diphenylhydrazine	ug/L	-	-	ND (10.0)	-	-	-	-	-	-	-	ND (10.0)	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
1,4-Dichlorobenzene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
2,6-Dinitrotoluene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
2-Chloronaphthalene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl naphthalene	ug/L	-	-	ND (10.0)	-	-	-	-	-	-	-	ND (10.0)	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	ND (20)	ND (20)	ND (50.0)	-	-	-	-	ND (20)	ND (20)	ND (20)	ND (50.0)	ND (20)	ND (20)	ND (20)	ND (20)	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloronaphthalene	ug/L	-	-	ND (10.0)	-	-	-	-	-	-	-	ND (10.0)	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	7.6 J	8.8	ND (10)	0.42 J	-	-
Acenaphthylene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
Anthracene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	2.3 J	2.2	ND (10)	ND (10)	-	-
Benzidine	ug/L	ND (20)	ND (20)	ND (10.0)	-	-	-	-	ND (20)	ND (20)	ND (20)	ND (10.0)	ND (20)	ND (20)	ND (20)	ND (20)	-	-
Benzo(a)anthracene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
Benzo(a)pyrene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		BEC-8S	BEC-8S	BEC-8S	BEC-8S	BEC-8S	BEC-9D	BEC-9D	BEC-9S	BEC-9S	BEC-9S	BEC-9S	BEC-10S	BEC-10S	BEC-11S	BEC-12S	BEC-12S	BEC-12S
Sample ID:		2008	89001-2008	89001-2008	93089-2316	93089-2316	2309	2309	2009	2012DUP	89001-2009	89001-2009	89001-2010	89001-2018	89001-2011	89001-2012	93089-2318	93089-2318
Sample Date:		11/8/90	12/12/90	12/15/90	8/10/95	8/10/95	8/8/95	8/8/95	11/8/90	11/8/90	12/12/90	12/15/90	12/12/90	12/12/90	12/12/90	12/12/90	8/10/95	8/10/95
Analysis Date:		11/8/90	12/12/90	12/15/90	8/10/95	8/16/95	8/8/95	8/12/95	11/8/90	11/8/90	12/12/90	12/15/90	12/12/90	12/12/90	12/12/90	12/12/90	8/10/95	8/15/95
Sample Depth:																		
										Duplicate				Duplicate				
Parameters	*Units*																	
Benzo(b)fluoranthene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
Benzo(g,h,i)perylene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
Benzo(k)fluoranthene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
Benzoic acid	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl Alcohol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
bis(2-Chloroethyl)ether	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
bis(2-Ethylhexyl)phthalate	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
Butyl benzylphthalate	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
Chrysene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
Di-n-butylphthalate	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
Di-n-octyl phthalate	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
Dibenz(a,h)anthracene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
Dibenzofuran	ug/L	-	-	ND (10.0)	-	-	-	-	-	-	-	ND (10.0)	-	-	-	-	-	-
Diethyl phthalate	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
Dimethyl phthalate	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
Fluoranthene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	3.0 J	2.9	ND (10)	0.72 J	-	-
Fluorene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	9.2 J	11	ND (10)	0.38 J	-	-
Hexachlorobenzene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
Hexachlorobutadiene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
Hexachlorocyclopentadiene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
Hexachloroethane	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
Indeno(1,2,3-cd)pyrene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
Isophorone	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
N-Nitrosodi-n-propylamine	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
N-Nitrosodimethylamine	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
N-Nitrosodiphenylamine	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
Naphthalene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	3.9 J	5.3	ND (10)	ND (10)	-	-
Nitrobenzene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	12	14	ND (10)	0.62 J	-	-
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	1.8 J	1.5	ND (10)	0.48 J	-	-
Pyridine	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Targeted Compounds	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL NON-TARGETED BASE NEUTRALS	ug/L	-	ND	-	-	-	-	-	-	-	ND	-	ND	-	ND	ND	-	-
TOTAL TARGETED BASE NEUTRALS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile TICS																		
1,2,3,4-Tetrahydro-naphthalene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4-Tetramethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-2-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one,2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	ug/L	ND (10)	ND (10)	ND (10.0)	-	-	-	-	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	-
2,4,4-Trimethyl-2-pentene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,3,5-trimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethyl-2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-propyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, ethyl-1,2,4-trimeth A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)thiophene A	ug/L	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-
Carbazole A	ug/L	-	-	-	-	-	-	-	-	-	-	-	6	8	-	-	-	-
Cyclohexanone A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopropane, pentyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclotetrasiloxane, octamethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl cyclohexane (isomers) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dodecanamide, n,n-bis(2-hydroxyethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexanedioic acid, mono(2-eth A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown A	ug/L	6	5	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-
Unknown B	ug/L	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown D	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene(ortho) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatiles																		
1,1,1-Trichloroethane	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)
1,1,2,2-Tetrachloroethane	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	-	ND (0.3)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)
1,1,2-Trichloroethane	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.4)	-	ND (0.4)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.4)
1,1-Dichloroethane	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	-	78	ND (5.0)	ND (5.0)	ND (5.0)	6.1	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)
1,1-Dichloroethene	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.6)	-	1.8	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.6)
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	ND (0.2)	2.8 J	3.0 J	3.0 J	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)
1,2-Dichloropropane	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.5)	-	ND (0.5)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.5)
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	[illegible]	-	-	-	-	-	-	-	[illegible]	-
1,3-Dichloropropene	ug/L	-	-	-	-	-	-	-	[illegible]	-	-	-	-	-	-	-	[illegible]	-
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	[illegible]	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		BEC-8S	BEC-8S	BEC-8S	BEC-8S	BEC-8S	BEC-9D	BEC-9D	BEC-9S	BEC-9S	BEC-9S	BEC-10S	BEC-10S	BEC-11S	BEC-12S	DEC-12S	BEC-12S
Sample ID:		2008	89001-2008	89001-2008	93089-2316	93089-2316	2309	2309	2009	2012DUP	89001-2009	89001-2009	89001-2010	89001-2018	89001-2011	89001-2012	93089-2318
Sample Date:		11/8/90	12/12/90	12/15/90	8/10/95	8/10/95	8/8/95	8/8/95	11/8/90	11/8/90	12/12/90	12/15/90	12/12/90	12/12/90	12/12/90	12/12/90	8/10/95
Analysis Date:		11/8/90	12/12/90	12/15/90	8/10/95	8/16/95	8/8/95	8/8/95	8/12/95	11/8/90	12/12/90	12/15/90	12/12/90	12/12/90	12/12/90	12/12/90	8/10/95
Sample Depth:										Duplicate				Duplicate			
Parameters	*Units*																
2-Butanone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	ug/L	ND (10)	ND (10)	ND (5.0)	-	ND (0.5)	-	ND (0.5)	ND (10)	ND (10)	ND (10)	ND (5.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (0.5)
2-Hexanone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrolein	ug/L	-	-	ND (5.0)	-	-	-	-	-	-	-	ND (5.0)	-	-	-	-	-	-
Acrylonitrile	ug/L	-	-	ND (5.0)	-	-	-	-	-	-	-	ND (5.0)	-	-	-	-	-	-
Benzene	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)
Bromodichloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)
Bromoform	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	-	ND (0.3)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)
Bromomethane	ug/L	ND (10)	ND (10)	ND (5.0)	-	ND (0.3)	-	ND (0.3)	ND (10)	ND (10)	ND (10)	ND (5.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (0.3)
Carbon disulfide	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)
Chlorobenzene	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.1)	-	ND (0.1)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.1)
Chloroethane	ug/L	ND (10)	ND (10)	ND (5.0)	-	ND (1.0)	-	ND (1.0)	ND (10)	ND (10)	ND (10)	ND (5.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (1.0)
Chloroform (Trichloromethane)	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	3.3 J	3.7	5.8	6.7	-	ND (0.2)
Chloromethane	ug/L	ND (10)	ND (10)	ND (5.0)	-	ND (0.9)	-	ND (0.9)	ND (10)	ND (10)	ND (10)	ND (5.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (0.9)
cis-1,2-Dichloroethene	ug/L	-	-	-	-	ND (1.0)	-	11	-	-	-	-	-	-	-	-	-	ND (1.0)
cis-1,3-Dichloropropene	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	-	ND (0.3)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)
Cyclohexane, 1,2-diethyl-	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)
Dibromomethane	ug/L	-	-	ND (5.0)	-	-	-	-	-	-	-	ND (5.0)	-	-	-	-	-	-
Diisopropyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)
m&p-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Tert Butyl Ether	ug/L	-	-	-	-	ND (1.0)	-	ND (1.0)	-	-	-	-	-	-	-	-	-	ND (1.0)
Methylene chloride	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (1.0)	-	ND (1.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (1.0)
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tert-Butyl Alcohol	ug/L	-	-	-	-	ND (250)	-	ND (250)	-	-	-	-	-	-	-	-	-	ND (250)
Tetrachloroethene	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.1)	-	0.9	ND (5.0)	ND (5.0)	ND (5.0)	5.7	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.1)
Toluene	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)	-	ND (0.2)	ND (5.0)	1.2 J	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)
Total Targeted Compounds	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total VOCS	ug/L	-	ND	-	-	-	-	-	-	-	ND	-	ND	-	ND	ND	-	-
trans-1,2-Dichloroethene	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	-	ND (0.3)	3.4 J	3.6 J	3.7 J	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)
trans-1,3-Dichloropropene	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)	-	ND (0.3)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.3)
Trichloroethene	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.4)	-	8.8	20	21 N	22	109.5	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.4)
Trichlorofluoromethane (CFC-11)	ug/L	ND (5.0)	ND (5.0)	-	-	ND (0.2)	-	ND (0.2)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (0.2)
Vinyl acetate	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/L	ND (10)	ND (10)	ND (10.0)	-	ND (0.4)	-	1.5	ND (10)	ND (10)	ND (10)	ND (10.0)	ND (10)	ND (10)	ND (10)	ND (10)	-	ND (0.4)
Xylene (total)	ug/L	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (1.0)	-	ND (1.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)	-	ND (1.0)
Volatile TICS																		
1,2,3,4-Tetramethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,5-Tetramethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene A	ug/L	-	-	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-
1,4-Hexadiene, 2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Methanonaphthalene, 1,4- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Pentadiene, 2,3,4-trimet A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Pentadiene, 2,3,4-trimet B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethenyl-2-methyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-2-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-3-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Hexene, 5,5-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Methylethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Methylethyl-benzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Pentene, 3,4-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-5-ol, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-1,2-d A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-1,6-d A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-4-met A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Pyrazole, 4,5-dihydro-1,5 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl naphthalene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylbutane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylpentane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Hexene, 2,2-dimethyl-, (Z)- A	ug/L	-	-	-	-	-	-	-	9.0	-	-	-	-	-	-	-	-	-
3-Hepten-2-one A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Ethyl-1,2-dimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,2,4,5-tetramethyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,2-diethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethyl-2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethylpropyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-(1-methylethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-(1-methylethyl)- B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-propyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		BEC-8S	BEC-8S	BEC-8S	BEC-8S	BEC-8S	BEC-9D	BEC-9D	BEC-9S	BEC-9S	BEC-9S	BEC-9S	BEC-10S	BEC-10S	BEC-11S	BEC-12S	BEC-12S	BEC-12S
Sample ID:		2008	89001-2008	89001-2008	93089-2316	93089-2316	2309	2309	2009	2012DUP	89001-2009	89001-2009	89001-2010	89001-2018	89001-2011	89001-2012	93089-2318	93089-2318
Sample Date:		11/8/90	12/12/90	12/15/90	8/10/95	8/10/95	8/8/95	8/8/95	11/8/90	11/8/90	12/12/90	12/15/90	12/12/90	12/12/90	12/12/90	12/12/90	8/10/95	8/15/95
Analysis Date:		11/8/90	12/12/90	12/15/90	8/10/95	8/16/95	8/8/95	8/12/95	11/8/90	11/8/90	12/12/90	12/15/90	12/12/90	12/12/90	12/12/90	12/12/90	8/10/95	8/15/95
Sample Depth:										Duplicate				Duplicate				
Parameters	*Units*																	
Benzene, 1-methylpropyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 2-ethenyl-1,4-dimet A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 2-ethly-1,4-dimethy A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl Alcohol A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butane, 1-(1-methylpropoxy)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butane, 2-ethoxy- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10H12 aromatic A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C9H10 aromatic A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cycloheptane, methyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane A	ug/L	-	-	-	-	-	-	-	4.0	3.0	-	-	-	-	-	-	-	-
Cyclopentene, 4,4-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopropane, 1-(2-methylbut)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclotetrasiloxane, octamethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diisopropyl ether A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl cyclohexane (isomers) A	ug/L	-	-	-	-	-	-	-	-	9.0	10	-	-	-	-	-	-	-
Dodecanamide, n,n-bis(2-hydroxyethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ether A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl Methyl Benzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylcyclobutane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylmethyl benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indan, 1-methyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,2,3,4-tetrahy A	ug/L	-	-	-	-	-	-	-	2.0	3.0	-	-	-	-	-	-	-	-
Tetrahydrofuran A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene A	ug/L	-	-	-	-	-	-	-	23	2.0	-	-	-	-	-	-	-	-
Unknown A	ug/L	-	6.5	-	-	-	-	-	2.0	2.0	-	-	-	-	-	-	-	-
Unknown B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown D	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Aldehyde A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Alkane A	ug/L	-	-	-	-	-	-	3.7	-	-	-	-	-	-	-	-	-	-
Unknown Alkane B	ug/L	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-
Unknown C10H20 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C8H16 A	ug/L	-	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	-	-
Unknown Hydrocarbon A	ug/L	-	-	-	-	-	-	-	-	-	4.3	-	-	-	-	-	-	-
Unknown Hydrocarbon B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown isomer of trimethyl benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene(ortho) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		BEC-12S	BEC-13S	BEC-13S	BEC-13S	BEC-14S	BEC-14S	BEC-14S	BEC-14S	BEC-14S	BEC-14S	BEC-14S	HP-2	HP-3	HP-4	HP-5
Sample ID:		93089-2318A	89001-2013	93089-2319	93089-2319	93089-2204	93089-2204	93089-2320	93089-2320	93089-2406	93089-2406	93089-2406	93089-2002	93089-2003	93089-2004	93089-2005
Sample Date:		8/30/95	12/12/90	8/9/95	8/9/95	4/20/95	4/20/95	8/10/95	8/10/95	3/12/96	3/12/96	3/12/96	12/6/93	12/7/93	12/7/93	12/7/93
Analysis Date:		8/15/95	12/12/90	8/9/95	8/15/95	4/20/95	5/1/95	8/10/95	8/16/95	3/12/96	3/13/96	3/25/96	12/6/93	12/7/93	12/7/93	12/7/93
Sample Depth:													(22-)	(15-)	(14-)	(19-)
		Duplicate														
Parameters	Units															
Metals																
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	-	-	-	-	-	ND	-	-	-	3.2	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls																
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides																
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
tau-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatiles																
1,2,4-Trichlorobenzene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Diphenylhydrazine	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl naphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	ND (20)	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloronapthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzidine	ug/L	-	ND (20)	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		BEC-12S	BEC-13S	BEC-13S	BEC-13S	BEC-14S	BEC-14S	BEC-14S	BEC-14S	BEC-14S	BEC-14S	BEC-14S	HP-2	HP-3	HP-4	HP-5
Sample ID:		93089-2318A	93089-2013	93089-2319	93089-2319	93089-2204	93089-2204	93089-2320	93089-2320	93089-2406	93089-2406	93089-2406	93089-2002	93089-2003	93089-2004	93089-2005
Sample Date:		8/10/95	12/12/90	8/9/95	8/9/95	4/20/95	4/20/95	8/10/95	8/10/95	3/12/96	3/12/96	3/12/96	12/6/93	12/7/93	12/7/93	12/7/93
Analysis Date:		8/15/95	12/12/90	8/9/95	8/15/95	4/20/95	5/1/95	8/10/95	8/16/95	3/12/96	3/13/96	3/25/96	12/6/93	12/7/93	12/7/93	12/7/93
Sample Depth:													(22-)	(15-)	(14-)	(19-)
		Duplicate														
Parameters	Units															
Benzo(b)fluoranthene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzoic acid	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl Alcohol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloromethyl)ether	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyridine	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Targeted Compounds	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL NON-TARGETED BASE NEUTRALS	ug/L	-	ND	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL TARGETED BASE NEUTRALS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile TICS																
1,2,3,4-Tetrahydronaphthalene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4-Tetramethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-2-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one,2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	ug/L	-	ND (10)	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,4-Trimethyl-2-pentene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,3,5-trimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethyl-2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-propyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, ethyl-1,2,4-trimeth A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)thiophene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexanone A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopropane, pentyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclotetrasiloxane, octamethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl cyclohexane (isomers) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dodecanamide, n,n-bis(2-hydroxyethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexanedioic acid, mono(2-eth A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown D	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene(ortho) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatiles																
1,1,1-Trichloroethane	ug/L	ND (0.2)	ND (5.0)	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-	-	ND (0.2)	ND (25)	ND (5)	ND (25)	ND (5)
1,1,2,2-Tetrachloroethane	ug/L	ND (0.3)	ND (5.0)	-	ND (0.3)	-	ND (0.3)	-	ND (0.3)	-	-	ND (0.3)	ND (10)	ND (2)	ND (10)	ND (2)
1,1,2-Trichloroethane	ug/L	ND (0.4)	ND (5.0)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	-	ND (0.4)	ND (15)	ND (3)	ND (15)	ND (3)
1,1-Dichloroethane	ug/L	ND (0.3)	ND (5.0)	-	ND (0.3)	-	ND (0.3)	-	ND (0.3)	-	-	ND (0.3)	ND (25)	ND (5)	ND (25)	ND (5)
1,1-Dichloroethene	ug/L	ND (0.6)	ND (5.0)	-	ND (0.6)	-	ND (0.6)	-	ND (0.6)	-	-	ND (0.6)	5 J	ND (2)	ND (10)	ND (2)
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (25)	ND (5)	ND (25)	ND (5)
1,2-Dichloroethane	ug/L	ND (0.2)	ND (5.0)	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-	-	ND (0.2)	39	ND (2)	ND (10)	ND (2)
1,2-Dichloropropane	ug/L	ND (0.5)	ND (5.0)	-	ND (0.5)	-	ND (0.5)	-	ND (0.5)	-	-	ND (0.5)	ND (5)	ND (1)	ND (5)	ND (1)
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (25)	ND (5)	ND [redacted]	ND (5)
1,3-Dichloropropene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (25)	ND (5)	ND [redacted]	ND (5)

TABLE O

ANALYTICAL RE[illegible] SUMMARY
HISTORIC - GR[illegible] DWATER
LINDEN, NJ

Sample Location:		BEC-12S	BEC-13S	BEC-13S	BEC-13S	BEC-14S	BEC-14S	BEC-14S	BEC-14S	BEC-14S	BEC-14S	BEC-14S	HP-2	HP-3	HP-4	HP-5
Sample ID:		93089-2318A	89001-2013	93089-2319	93089-2319	93089-2204	93089-2204	93089-2320	93089-2320	93089-2406	93089-2406	93089-2406	93089-2102	93089-2003	93089-2004	93089-2005
Sample Date:		8/10/95	12/12/90	8/9/95	8/9/95	4/20/95	4/20/95	8/10/95	8/10/95	3/12/96	3/12/96	3/12/96	12/6/93	12/7/93	12/7/93	12/7/93
Analysis Date:		8/15/95	12/12/90	8/9/95	8/15/95	4/20/95	5/1/95	8/10/95	8/16/95	3/12/96	3/13/96	3/25/96	12/6/93	12/7/93	12/7/93	12/7/93
Sample Depth:													(22-)	(15-)	(14-)	(19-)
		Duplicate														
Parameters	Units															
2-Butanone	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (125)	ND (25)	ND (125)	ND (25)
2-Chloroethyl vinyl ether	ug/L	ND (0.5)	ND (10)	-	ND (0.5)	-	ND (0.5)	-	ND (0.5)	-	-	ND (0.5)	ND (50)	ND (10)	ND (50)	ND (10)
2-Hexanone	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (100)	ND (20)	ND (100)	ND (20)
4-Methyl-2-pentanone	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (125)	ND (25)	ND (125)	ND (25)
Acetone	ug/L	-	-	-	-	-	-	-	-	-	-	-	16 J	120	190	14 J
Acrolein	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	ug/L	ND (0.2)	ND (5.0)	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-	-	ND (0.2)	ND (5)	ND (1)	ND (5)	ND (1)
Bromodichloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	ND (0.2)	ND (5)	ND (1)	ND (5)	ND (1)
Bromodichloromethane	ug/L	ND (0.2)	ND (5.0)	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-	-	-	-	-	-	-
Bromoform	ug/L	ND (0.3)	ND (5.0)	-	ND (0.3)	-	ND (0.3)	-	ND (0.3)	-	-	ND (0.2)	ND (20)	ND (4)	ND (20)	ND (4)
Bromomethane	ug/L	ND (0.3)	ND (10)	-	ND (0.3)	-	ND (0.3)	-	ND (0.3)	-	-	ND (0.3)	ND (50)	ND (10)	ND (50)	ND (10)
Carbon disulfide	ug/L	-	-	-	-	-	-	-	-	-	-	ND (0.3)	ND (25)	ND (5)	ND (25)	ND (5)
Carbon tetrachloride	ug/L	ND (0.2)	ND (5.0)	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-	-	-	ND (10)	ND (2)	ND (10)	ND (2)
Chlorobenzene	ug/L	ND (0.1)	ND (5.0)	-	ND (0.1)	-	ND (0.1)	-	ND (0.1)	-	-	ND (0.2)	ND (10)	ND (2)	ND (10)	ND (2)
Chloroethane	ug/L	ND (1.0)	ND (10)	-	ND (1.0)	-	ND (1.0)	-	ND (1.0)	-	-	ND (0.1)	51	ND (4)	ND (20)	ND (4)
Chloroform (Trichloromethane)	ug/L	ND (0.2)	3.5 J	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-	-	ND (1.0)	ND (50)	ND (10)	ND (50)	ND (10)
Chloromethane	ug/L	ND (0.9)	ND (10)	-	ND (0.9)	-	ND (0.9)	-	ND (0.9)	-	-	ND (0.2)	ND (25)	ND (5)	ND (25)	ND (5)
cis-1,2-Dichloroethene	ug/L	ND (1.0)	-	-	ND (1.0)	-	3.0	-	2.4	-	-	ND (0.9)	ND (50)	ND (10)	ND (50)	ND (10)
cis-1,3-Dichloropropene	ug/L	ND (0.3)	ND (5.0)	-	ND (0.3)	-	ND (0.3)	-	ND (0.3)	-	-	2.5	-	-	-	-
Cyclobutane, 1,2-diethyl-	ug/L	-	-	-	-	-	-	-	-	-	-	ND (0.3)	ND (25)	ND (5)	ND (25)	ND (5)
Dibromochloromethane	ug/L	ND (0.2)	ND (5.0)	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-	-	-	-	-	-	-
Dibromomethane	ug/L	-	-	-	-	-	-	-	-	-	-	ND (0.2)	ND (25)	ND (5)	ND (25)	ND (5)
Diisopropyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/L	ND (0.2)	ND (5.0)	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-	-	ND (0.2)	ND (25)	ND (5)	ND (25)	ND (5)
m&p-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (25)	ND (5)	ND (25)	ND (5)
Methyl Tert Butyl Ether	ug/L	ND (1.0)	-	-	ND (1.0)	-	-	-	2.0	-	-	2.8	ND (25)	ND (5)	ND (25)	ND (5)
Methylene chloride	ug/L	ND (1.0)	ND (5.0)	-	ND (1.0)	-	ND (1.0)	-	1.3	-	-	ND (1.0)	ND (10)	ND (2)	ND (10)	ND (2)
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (25)	ND (5)	ND (25)	ND (5)
Styrene	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (25)	ND (5)	ND (25)	ND (5)
Tert-Butyl Alcohol	ug/L	ND (250)	-	-	ND (250)	-	-	-	ND (250)	-	-	ND (250)	ND (500)	ND (100)	ND (500)	ND (100)
Tetrachloroethene	ug/L	ND (0.1)	ND (5.0)	-	ND (0.1)	-	ND (0.1)	-	ND (0.1)	-	-	ND (0.1)	25	ND (1)	ND (5)	ND (1)
Toluene	ug/L	ND (0.2)	ND (5.0)	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-	-	ND (0.2)	ND (25)	ND (5)	ND (25)	ND (5)
Total Targeted Compounds	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total VOCS	ug/L	-	ND	-	-	-	-	-	-	-	-	8.0	742	120	190	14
trans-1,2-Dichloroethene	ug/L	ND (0.3)	ND (5.0)	-	ND (0.3)	-	ND (0.3)	-	ND (0.3)	-	-	ND (0.3)	31	ND (5)	ND (25)	ND (5)
trans-1,3-Dichloropropene	ug/L	ND (0.3)	ND (5.0)	-	ND (0.3)	-	ND (0.3)	-	ND (0.3)	-	-	ND (0.3)	ND (25)	ND (5)	ND (25)	ND (5)
Trichloroethene	ug/L	ND (0.4)	ND (5.0)	-	ND (0.4)	-	3.5	-	2.9	-	-	2.7	550	ND (1)	ND (5)	ND (1)
Trichlorofluoromethane (CFC-11)	ug/L	ND (0.2)	ND (5.0)	-	ND (0.2)	-	ND (0.2)	-	ND (0.2)	-	-	ND (0.2)	ND (25)	ND (5)	ND (25)	ND (5)
Vinyl acetate	ug/L	-	-	-	-	-	-	-	-	-	-	-	ND (50)	ND (10)	ND (50)	ND (10)
Vinyl chloride	ug/L	ND (0.4)	ND (10)	-	ND (0.4)	-	ND (0.4)	-	ND (0.4)	-	-	ND (0.4)	25 J	ND (5)	ND (25)	ND (5)
Xylene (total)	ug/L	ND (1.0)	ND (5.0)	-	ND (1.0)	-	ND (1.0)	-	ND (1.0)	-	-	ND (1.0)	-	-	-	-
Volatile TICS																
1,2,3,4-Tetramethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,5-Tetramethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Hexadiene, 2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Methanonaphthalene, 1,4- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Pentadiene, 2,3,4-trimet A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Pentadiene, 2,3,4-trimet B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethenyl-2-methyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-2-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-3-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Hexane, 5,5-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Methylethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Methylethyl-benzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Pentene, 3,4-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-5-ol, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-1,2-d A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-1,6-d A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-4-met A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Pyrazole, 4,5-dihydro-1,5 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl naphthalene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylbutane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylpentane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Hexene, 2,2-dimethyl-, (Z)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Hepten-2-one A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Ethyl-1,2-dimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,2,4,5-tetramethyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,2-diethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethyl-2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethylpropyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-(1-methylethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-(1-methylethyl)- B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-propyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		BEC-12S	BEC-13S	BEC-13S	BEC-13S	BEC-14S	BEC-14S	BEC-14S	BEC-14S	BEC-14S	BEC-14S	BEC-14S	HP-2	HP-3	HP-4	HP-5
Sample ID:		93089-2318A	89001-2013	93089-2319	93089-2319	93089-2204	93089-2204	93089-2320	93089-2320	93089-2406	93089-2406	93089-2406	93089-2002	93089-2003	93089-2004	93089-2005
Sample Date:		8/10/95	12/12/90	8/9/95	8/9/95	8/20/95	8/20/95	8/10/95	8/10/95	3/12/96	3/12/96	3/12/96	12/6/93	12/7/93	12/7/93	12/7/93
Analysis Date:		8/15/95	12/12/90	8/9/95	8/15/95	8/20/95	5/1/95	8/10/95	8/16/95	3/12/96	3/13/96	3/25/96	12/6/93	12/7/93	12/7/93	12/7/93
Sample Depth:													(22-)	(15-)	(14-)	(19-)
Parameters	*Units*	Duplicate														
Benzene, 1-methylpropyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 2-ethenyl-1,4-dimet A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 2-ethly-1,4-dimethy A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl Alcohol A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butane, 1-(1-methylpropoxy)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butane, 2-ethoxy- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10H12 aromatic A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C9H10 aromatic A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cycloheptane, methyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopentene, 4,4-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopropane, 1-(2-methylbut)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclotetrasiloxane, octamethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diisopropyl ether A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl cyclohexane (isomers) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dodecanamide, n,n-bis(2-hydroxyethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ether A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl Methyl Benzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylcyclobutane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylmethyl benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indan, 1-methyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,2,3,4-tetrahy A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrahydrofuran A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown D	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Aldehyde A	ug/L	-	-	-	-	-	4.0	-	-	-	-	-	-	-	-	-
Unknown Alkane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Alkane B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C10H20 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C8H16 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown isomer of trimethyl benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene(ortho) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL RE[illegible] SUMMARY
HISTORIC - GR[illegible]DWATER
LINDEN, NJ

Sample Location:		HP-6	HP-7	HP-7	HP-8	HP-8	HP-9	HP-10	PE-02	PE-03	PE-04	PE-05	PE-06	PE-07	PE-14	PE-21	PE-29
Sample ID:		93089-2001	93089-2002	93089-2003	93089-2004	93089-2007	93089-2005	93089-2006	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Date:		4/8/94	4/8/94	4/8/94	4/20/94	4/20/94	4/20/94	4/20/94	1/29/91	1/29/91	1/29/91	1/29/91	1/29/91	1/9/91	1/9/91	1/9/91	1/9/91
Analysis Date:		4/8/94	4/8/94	4/8/94	4/20/94	4/20/94	4/20/94	4/20/94	1/29/91	1/29/91	1/29/91	1/29/91	1/29/91	1/9/91	1/9/91	1/9/91	1/9/91
Sample Depth:		(10-)	(8-10)	(8-10)													
				Duplicate		Duplicate											
Parameters	*Units*																
Metals																	
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls																	
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides																	
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iso-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatiles																	
1,2,4-Trichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	560
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Diphenylhydrazine	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	320 J
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	53 J	180 J	1500
2-Methyl naphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chloronapthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzidine	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		*HP-6*	*HP-7*	*HP-7*	*HP-8*	*HP-8*	*HP-9*	*HP-10*	*PE-02*	*PE-03*	*PE-04*	*PE-05*	*PE-06*	*PE-07*	*PE-14*	*PE-21*	*PE-29*
Sample ID:		*93089-2001*	*93089-2002*	*93089-2003*	*93089-2004*	*93089-2007*	*93089-2005*	*93089-2006*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*
Sample Date:		*4/8/94*	*4/8/94*	*4/8/94*	*4/20/94*	*4/20/94*	*4/20/94*	*4/20/94*	*1/29/91*	*1/29/91*	*1/29/91*	*1/29/91*	*1/29/91*	*1/9/91*	*1/9/91*	*1/9/91*	*1/9/91*
Analysis Date:		*4/8/94*	*4/8/94*	*4/8/94*	*4/20/94*	*4/20/94*	*4/20/94*	*4/20/94*	*1/29/91*	*1/29/91*	*1/29/91*	*1/29/91*	*1/29/91*	*1/9/91*	*1/9/91*	*1/9/91*	*1/9/91*
Sample Depth:		*(10-)*	*(8-10)*	*(8-10)*													
Parameters	*Units*			Duplicate		Duplicate											
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	86 J	ND	ND	ND
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	86 J	ND	ND	ND
Benzoic acid	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl Alcohol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	200 J	ND	ND	ND
Butyl benzylphthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	250 J	ND	ND	200 J
Fluorene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitroso-di-n-propylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	ND	1500
Naphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	ND	ND	47 J	ND
Nitrobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	97 J	57 J	260 J	530
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	120 J	ND	ND	ND
Pyridine	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Targeted Compounds	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	839	110	487	4610
TOTAL NON-TARGETED BASE NEUTRALS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL TARGETED BASE NEUTRALS	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-Volatile TIC'S																	
1,2,3,4-Tetrahydro-naphthalene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4-Tetramethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-2-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methelbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one,2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,4-Trimethyl-2-pentene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,3,5-trimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethyl-2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-propyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, ethyl-1,2,4-trimeth A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)thiophene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexanone A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopropane, pentyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclotetrasiloxane, octamethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl cyclohexane (isomers) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dodecanamide, n,n-bis(2-hydroxyethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexanedioic acid, mono(2-eth A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown D	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene(ortho) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatiles																	
1,1,1-Trichloroethane	ug/L	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/L	ND (3)	ND (3)	ND (3)	ND (3)	ND (3)	ND (3)	ND (3)	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/L	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	ug/L	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	ug/L	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	[redacted] (1)	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	ND (5)	ND (5)	ND (5)	1 J	1 J	1 J	[redacted] (5)	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	ND (5)	ND (5)	ND (5)	ND (5)	2 J	1 J	[redacted] J	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		HP-6	HP-7	HP-7	HP-8	HP-8	HP-9	HP-10	PE-02	PE-03	PE-04	PE-05	PE-06	PE-07	PE-14	PE-21	PE-29
Sample ID:		93089-2001	93089-2002	93089-2003	93089-2004	93089-2007	93089-2005	93089-2006	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN
Sample Date:		4/8/94	4/8/94	4/8/94	4/20/94	4/20/94	4/20/94	4/20/94	1/29/91	1/29/91	1/29/91	1/29/91	1/29/91	1/9/91	1/9/91	1/9/91	1/9/91
Analysis Date:		4/8/94	4/8/94	4/8/94	4/20/94	4/20/94	4/20/94	4/20/94	1/29/91	1/29/91	1/29/91	1/29/91	1/29/91	1/9/91	1/9/91	1/9/91	1/9/91
Sample Depth:		(10-)	(8-10)	(8-10)													
				Duplicate		Duplicate											
Parameters	Units																
2-Butanone	ug/L	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	ug/L	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-	-	-	-
2-Hexanone	ug/L	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND (20)	ND	ND	ND	ND	ND	-	-	-	-
4-Methyl-2-pentanone	ug/L	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND (25)	ND	ND	ND	ND	ND	-	-	-	-
Acetone	ug/L	ND (20)	8 J	8 J	8 J	ND (20)	100	10 J	-	-	-	-	-	-	-	-	-
Acrolein	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	ug/L	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	ug/L	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	-	-	-	-	-	-	-	-	-
Bromomethane	ug/L	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-	-	-	-
Carbon disulfide	ug/L	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	2 J	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	ug/L	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	ND (2)	-	-	-	-	-	-	-	-	-
Chlorobenzene	ug/L	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	ND (4)	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	ug/L	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-	-	-	-
Chloromethane	ug/L	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/L	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-	-	-	-
Cyclobutane, 1,2-diethyl-	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-	-	-	-
Dibromomethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diisopropyl ether	ug/L	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/L	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-	-	-	-
m&p-Xylene	ug/L	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND	47	ND	ND	ND	-	-	-	-
Methyl Tert Butyl Ether	ug/L	ND (5)	ND (5)	ND (5)	55	45	1 J	1 J	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/L	4	ND (2)	ND (2)	ND (2)	2 J	2 J	1 J	-	-	-	-	-	-	-	-	-
o-Xylene	ug/L	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND	55	ND	ND	ND	-	-	-	-
Styrene	ug/L	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-	-	-	-
Tert-Butyl Alcohol	ug/L	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	ND (100)	-	-	-	-	-	-	-	-	-
Tetrachloroethene	ug/L	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	-	-	-	-	-	-	-	-	-
Toluene	ug/L	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-	-	-	-
Total Targeted Compounds	ug/L	-	-	-	-	-	-	-	24	102	ND	ND	ND	-	-	-	-
Total VOCS	ug/L	5	8	8	64	50	105	15	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/L	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/L	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	24 J	ND	ND	ND	ND	-	-	-	-
Trichloroethene	ug/L	1	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND	ND	ND	ND	ND	-	-	-	-
Trichlorofluoromethane (CFC-11)	ug/L	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-	-	-	-
Vinyl acetate	ug/L	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/L	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	-	-	-	-	-	-	-	-	-
Xylene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile TICS																	
1,2,3,4-Tetramethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,5-Tetramethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Hexdiene, 2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Methanonaphthalene, 1,4- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Pentadiene, 2,3,4-trimet A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Pentadiene, 2,3,4-trimet B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethenyl-2-methyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-2-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-3-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Hexane, 5,5-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Methylethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Methylethyl-benzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-Pentene, 3,4-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Inden-5-ol, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-1,2-d A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-1,6-d A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-4-met A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1H-Pyrazole, 4,5-dihydro-1,5 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methyl naphthalene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylbutane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylpentane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Hexene, 2,2-dimethyl-, (Z)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-Hipten-2-one A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Ethyl-1,2-dimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,2,4,5-tetramethyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1,2-diethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethyl-2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethylpropyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-(1-methylethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-(1-methylethyl)- B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-propyl A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		*HP-6*	*HP-7*	*HP-7*	*HP-8*	*HP-8*	*HP-9*	*HP-10*	*PE-02*	*PE-03*	*PE-04*	*PE-05*	*PE-06*	*PE-07*	*PE-14*	*PE-21*	*PE-29*
Sample ID:		*93089-2001*	*93089-2002*	*93089-2003*	*93089-2004*	*93089-2007*	*93089-2005*	*93089-2006*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*
Sample Date:		*4/8/94*	*4/8/94*	*4/8/94*	*4/20/94*	*4/20/94*	*4/20/94*	*4/20/94*	*1/29/91*	*1/29/91*	*1/29/91*	*1/29/91*	*1/29/91*	*1/9/91*	*1/9/91*	*1/9/91*	*1/9/91*
Analysis Date:		*4/8/94*	*4/8/94*	*4/8/94*	*4/20/94*	*4/20/94*	*4/20/94*	*4/20/94*	*1/29/91*	*1/29/91*	*1/29/91*	*1/29/91*	*1/29/91*	*1/9/91*	*1/9/91*	*1/9/91*	*1/9/91*
Sample Depth:		*(10-)*	*(8-10)*	*(8-10)*													
				Duplicate		Duplicate											
Parameters	*Units*																
Benzene, 1-methylpropyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 2-ethenyl-1,4-dimet A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene, 2-ethly-1,4-dimethy A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzyl Alcohol A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butane, 1-(1-methylpropoxy)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butane, 2-ethoxy- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C10H12 aromatic A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C9H10 aromatic A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cycloheptane, methyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopentene, 4,4-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclopropane, 1-(2-methylbut)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclotetrasiloxane, octamethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Diisopropyl ether A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl cyclohexane (isomers) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dodecanamide, n,n-bis(2-hydroxyethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ether A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl Methyl Benzene B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylcyclobutane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylmethyl benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
H-Indene-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indan, 1-methyl- A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Indane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,2,3,4-tetrahy A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrahydrofuran A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown D	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Aldehyde A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Alkane A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Alkane B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C10H20 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown C8H16 A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon B	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unknown isomer of trimethyl benzene A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Xylene(ortho) A	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL [redacted]TS SUMMARY
HISTORIC - [redacted]NDWATER
LINDEN, NJ

Sample Location:		*PE-36*	*PE-42*	*PE-46*	*PE-53*	*PE-54*	*PE-55*	*PE-64*	*PE-65*	*PE-66*	*PE-69*
Sample ID:		*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*
Sample Date:		*1/9/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*
Analysis Date:		*1/9/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*
Sample Depth:											
Parameters	*Units*										
Metals											
Antimony	mg/L	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/L	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/L	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/L	-	-	-	-	-	-	-	-	-	-
Chromium	mg/L	-	-	-	-	-	-	-	-	-	-
Copper	mg/L	-	-	-	-	-	-	-	-	-	-
Lead	mg/L	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury	mg/L	-	-	-	-	-	-	-	-	-	-
Nickel	mg/L	-	-	-	-	-	-	-	-	-	-
Selenium	mg/L	-	-	-	-	-	-	-	-	-	-
Silver	mg/L	-	-	-	-	-	-	-	-	-	-
Thallium	mg/L	-	-	-	-	-	-	-	-	-	-
Zinc	mg/L	-	-	-	-	-	-	-	-	-	-
Polychlorinated Biphenyls											
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-
tau-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-
Semi-Volatiles											
1,2,4-Trichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	ND	ND	-	ND	-	-	ND	-	-	-
1,2-Diphenylhydrazine	ug/L	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	ND	ND	-	ND	-	-	ND	-	-	-
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	ND	80 J	-	ND	-	-	ND	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-
4-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	-	-	-	-	-
Benzidine	ug/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		*PE-36*	*PE-42*	*PE-46*	*PE-53*	*PE-54*	*PE-55*	*PE-64*	*PE-65*	*PE-66*	*PE-69*
Sample ID:		*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*
Sample Date:		*1/9/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*
Analysis Date:		*1/9/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*
Sample Depth:											
Parameters	*Units*										
Benzo(b)fluoranthene	ug/L	ND	ND	-	ND	-	-	ND	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	ND	ND	-	ND	-	-	ND	-	-	-
Benzoic acid	ug/L	-	-	-	-	-	-	-	-	-	-
Benzyl Alcohol	ug/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate	ug/L	ND	ND	-	57 J	-	-	ND	-	-	-
Butyl benzylphthalate	ug/L	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate	ug/L	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	ND	ND	-	ND	-	-	ND	-	-	-
Fluorene	ug/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodimethylamine	ug/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	ND	ND	-	ND	-	-	ND	-	-	-
Naphthalene	ug/L	ND	ND	-	ND	-	-	ND	-	-	-
Nitrobenzene	ug/L	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	ND	ND	-	ND	-	-	ND	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-
Pyrene	ug/L	ND	ND	-	ND	-	-	ND	-	-	-
Pyridine	ug/L	-	-	-	-	-	-	-	-	-	-
Total Targeted Compounds	ug/L	ND	80	-	57	-	-	ND	-	-	-
TOTAL NON-TARGETED BASE NEUTRALS	ug/L	-	-	-	-	-	-	-	-	-	-
TOTAL TARGETED BASE NEUTRALS	ug/L	-	-	-	-	-	-	-	-	-	-
Semi-Volatile TICS											
1,2,3,4-Tetrahydronaphthalene A	ug/L	-	-	-	-	-	-	-	-	-	-
1,2,3,4-Tetramethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-
1-Ethyl-2-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one,2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-
2,2'-oxybis(1-Chloropropane)	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,4-Trimethyl-2-pentene A	ug/L	-	-	-	-	-	-	-	-	-	-
Benzene, 1,3,5-trimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethyl-2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-propyl A	ug/L	-	-	-	-	-	-	-	-	-	-
Benzene, ethyl-1,2,4-trimeth A	ug/L	-	-	-	-	-	-	-	-	-	-
Benzo[b]thiophene A	ug/L	-	-	-	-	-	-	-	-	-	-
Carbazole A	ug/L	-	-	-	-	-	-	-	-	-	-
Cyclohexanone A	ug/L	-	-	-	-	-	-	-	-	-	-
Cyclopropane, pentyl- A	ug/L	-	-	-	-	-	-	-	-	-	-
Cyclotetrasiloxane, octamethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-
Dimethyl cyclohexane (isomers) A	ug/L	-	-	-	-	-	-	-	-	-	-
Dodecanamide, n,n-bis[2-hydroxyethyl]- A	ug/L	-	-	-	-	-	-	-	-	-	-
Hexanedioic acid, mono[2-eth A	ug/L	-	-	-	-	-	-	-	-	-	-
1H-Indene-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-
Indane A	ug/L	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-
Trichloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-
Unknown A	ug/L	-	-	-	-	-	-	-	-	-	-
Unknown B	ug/L	-	-	-	-	-	-	-	-	-	-
Unknown C	ug/L	-	-	-	-	-	-	-	-	-	-
Unknown D	ug/L	-	-	-	-	-	-	-	-	-	-
Xylene(ortho) A	ug/L	-	-	-	-	-	-	-	-	-	-
Volatiles											
1,1,1-Trichloroethane	ug/L	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/L	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/L	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	ug/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	ug/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-
1,3-Dichloropropene	ug/L	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL R[illegible]S SUMMARY
HISTORIC - G[illegible]NDWATER
LINDEN, NJ

Sample Location:		*PE-36*	*PE-42*	*PE-46*	*PE-53*	*PE-54*	*PE-55*	*PE-64*	*PE-65*	*PE-66*	*PE-69*
Sample ID:		*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*
Sample Date:		*1/9/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*
Analysis Date:		*1/9/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*
Sample Depth:											
Parameters	*Units*										
2-Butanone	ug/L	-	-	-	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	ug/L	-	-	-	-	-	-	-	-	-	-
2-Hexanone	ug/L	-	-	ND	-	3.0 J	ND	-	ND	ND	ND
4-Methyl-2-pentanone	ug/L	-	-	ND	-	ND	2.4 J	-	ND	ND	ND
Acetone	ug/L	-	-	-	-	-	-	-	-	-	-
Acrolein	ug/L	-	-	-	-	-	-	-	-	-	-
Acrylonitrile	ug/L	-	-	-	-	-	-	-	-	-	-
Benzene	ug/L	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	-	-	-	-	-	-	-	-	-	-
Bromoform	ug/L	-	-	-	-	-	-	-	-	-	-
Bromomethane	ug/L	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	ug/L	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	ug/L	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	ug/L	-	-	-	-	-	-	-	-	-	-
Chloromethane	ug/L	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/L	-	-	-	-	-	-	-	-	-	-
Cyclobutane, 1,2-diethyl-	ug/L	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	-	-	-	-	-	-	-	-	-	-
Dibromomethane	ug/L	-	-	-	-	-	-	-	-	-	-
Diisopropyl ether	ug/L	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/L	-	-	-	-	-	-	-	-	-	-
m&p-Xylene	ug/L	-	-	ND	-	ND	ND	-	3.0 J	ND	ND
Methyl Tert Butyl Ether	ug/L	-	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/L	-	-	-	-	-	-	-	-	-	-
o-Xylene	ug/L	-	-	ND	-	ND	ND	-	ND	ND	ND
Styrene	ug/L	-	-	-	-	-	-	-	-	-	-
Tert-Butyl Alcohol	ug/L	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	ug/L	-	-	-	-	-	-	-	-	-	-
Toluene	ug/L	-	-	-	-	-	-	-	-	-	-
Total Targeted Compounds	ug/L	-	-	ND	-	3.0	2.4	-	6.4	3.1	ND
Total VOCS	ug/L	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/L	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/L	-	-	ND	-	ND	ND	-	ND	ND	ND
Trichloroethene	ug/L	-	-	ND	-	ND	ND	-	3.4 J	3.1 J	ND
Trichlorofluoromethane (CFC-11)	ug/L	-	-	-	-	-	-	-	-	-	-
Vinyl acetate	ug/L	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/L	-	-	-	-	-	-	-	-	-	-
Xylene (total)	ug/L	-	-	-	-	-	-	-	-	-	-
Volatile TICS											
1,2,3,4-Tetramethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-
1,2,3,5-Tetramethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-
1,2,3-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene A	ug/L	-	-	-	-	-	-	-	-	-	-
1,4-Hexadiene, 2,3-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-
1,4-Methanonaphthalene, 1,4- A	ug/L	-	-	-	-	-	-	-	-	-	-
1,4-Pentadiene, 2,3,4-trimet A	ug/L	-	-	-	-	-	-	-	-	-	-
1,4-Pentadiene, 2,3,4-trimet B	ug/L	-	-	-	-	-	-	-	-	-	-
1-Ethenyl-2-methyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-
1-Ethyl-2-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-
1-Ethyl-3-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-
1-Ethyl-4-methylbenzene B	ug/L	-	-	-	-	-	-	-	-	-	-
1-Hexane, 5,5-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-
1-Methylethyl-benzene A	ug/L	-	-	-	-	-	-	-	-	-	-
1-Methylethyl-benzene B	ug/L	-	-	-	-	-	-	-	-	-	-
1-Pentene, 3,4-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-
1H-Inden-1-one, 2,3-dihydro- B	ug/L	-	-	-	-	-	-	-	-	-	-
1H-Inden-5-ol, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-1,2-d A	ug/L	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-1,6-d A	ug/L	-	-	-	-	-	-	-	-	-	-
1H-Indene, 2,3-dihydro-4-met A	ug/L	-	-	-	-	-	-	-	-	-	-
1H-Pyrazole, 4,5-dihydro-1,5 A	ug/L	-	-	-	-	-	-	-	-	-	-
2-Methyl naphthalene A	ug/L	-	-	-	-	-	-	-	-	-	-
2-Methylbutane A	ug/L	-	-	-	-	-	-	-	-	-	-
2-Methylpentane A	ug/L	-	-	-	-	-	-	-	-	-	-
3-Hexene, 2,2-dimethyl-, (Z)- A	ug/L	-	-	-	-	-	-	-	-	-	-
3-Hepten-2-one A	ug/L	-	-	-	-	-	-	-	-	-	-
4-Ethyl-1,2-dimethylbenzene A	ug/L	-	-	-	-	-	-	-	-	-	-
Acetone A	ug/L	-	-	-	-	-	-	-	-	-	-
Benzene, 1,2,4,5-tetramethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-
Benzene, 1,2-diethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethyl-2,2-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-
Benzene, 1-ethylpropyl- A	ug/L	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-(1-methylethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-(1-methylethyl)- B	ug/L	-	-	-	-	-	-	-	-	-	-
Benzene, 1-methyl-3-propyl A	ug/L	-	-	-	-	-	-	-	-	-	-

TABLE O

ANALYTICAL RESULTS SUMMARY
HISTORIC - GROUNDWATER
LINDEN, NJ

Sample Location:		*PE-36*	*PE-42*	*PE-46*	*PE-53*	*PE-54*	*PE-55*	*PE-64*	*PE-65*	*PE-66*	*PE-69*
Sample ID:		*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*	*UNKNOWN*
Sample Date:		*1/9/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*
Analysis Date:		*1/9/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*	*1/10/91*
Sample Depth:											
Parameters	*Units*										
Benzene, 1-methylpropyl- A	ug/L	-	-	-	-	-	-	-	-	-	-
Benzene, 2-ethenyl-1,4-dimet A	ug/L	-	-	-	-	-	-	-	-	-	-
Benzene, 2-ethly-1,4-dimethy A	ug/L	-	-	-	-	-	-	-	-	-	-
Benzyl Alcohol A	ug/L	-	-	-	-	-	-	-	-	-	-
Butane, 1-(1-methylpropoxy)- A	ug/L	-	-	-	-	-	-	-	-	-	-
Butane, 2-ethoxy- A	ug/L	-	-	-	-	-	-	-	-	-	-
C10H12 aromatic A	ug/L	-	-	-	-	-	-	-	-	-	-
C9H10 aromatic A	ug/L	-	-	-	-	-	-	-	-	-	-
Cycloheptane, methyl- A	ug/L	-	-	-	-	-	-	-	-	-	-
Cyclohexane A	ug/L	-	-	-	-	-	-	-	-	-	-
Cyclopentene, 4,4-dimethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-
Cyclopropane, 1-(2-methylbut)- A	ug/L	-	-	-	-	-	-	-	-	-	-
Cyclotetrasiloxane, octamethyl- A	ug/L	-	-	-	-	-	-	-	-	-	-
Diisopropyl ether A	ug/L	-	-	-	-	-	-	-	-	-	-
Dimethyl cyclohexane (isomers) A	ug/L	-	-	-	-	-	-	-	-	-	-
Dodecanamide, n,n-bis(2-hydroxyethyl)- A	ug/L	-	-	-	-	-	-	-	-	-	-
Ether A	ug/L	-	-	-	-	-	-	-	-	-	-
Ethyl Methyl Benzene B	ug/L	-	-	-	-	-	-	-	-	-	-
Ethylcyclobutane A	ug/L	-	-	-	-	-	-	-	-	-	-
Ethylmethyl benzene A	ug/L	-	-	-	-	-	-	-	-	-	-
Hexane A	ug/L	-	-	-	-	-	-	-	-	-	-
H-Indene-1-one, 2,3-dihydro- A	ug/L	-	-	-	-	-	-	-	-	-	-
Indan, 1-methyl- A	ug/L	-	-	-	-	-	-	-	-	-	-
Indane A	ug/L	-	-	-	-	-	-	-	-	-	-
Naphthalene, 1,2,3,4-tetrahy A	ug/L	-	-	-	-	-	-	-	-	-	-
Tetrahydrofuran A	ug/L	-	-	-	-	-	-	-	-	-	-
Toluene A	ug/L	-	-	-	-	-	-	-	-	-	-
Trichloroethene A	ug/L	-	-	-	-	-	-	-	-	-	-
Unknown A	ug/L	-	-	-	-	-	-	-	-	-	-
Unknown B	ug/L	-	-	-	-	-	-	-	-	-	-
Unknown C	ug/L	-	-	-	-	-	-	-	-	-	-
Unknown D	ug/L	-	-	-	-	-	-	-	-	-	-
Unknown Aldehyde A	ug/L	-	-	-	-	-	-	-	-	-	-
Unknown Alkane A	ug/L	-	-	-	-	-	-	-	-	-	-
Unknown Alkane B	ug/L	-	-	-	-	-	-	-	-	-	-
Unknown C10H20 A	ug/L	-	-	-	-	-	-	-	-	-	-
Unknown C5H10 A	ug/L	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon A	ug/L	-	-	-	-	-	-	-	-	-	-
Unknown Hydrocarbon B	ug/L	-	-	-	-	-	-	-	-	-	-
Unknown isomer of trimethyl benzene A	ug/L	-	-	-	-	-	-	-	-	-	-
Xylene(ortho) A	ug/L	-	-	-	-	-	-	-	-	-	-