EPA Region 5 Records Ctr.
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TECHNICAL MEMORANDUM
JUNE 1997 GROUNDWATER SAMPLING RESULTS REPORT

AMERICAN CHEMICAL SERVICE, INC.
NPL SITE
GRIFFITH, INDIANA

Montgomery Watson File No. 1252042

Prepared For:

ACS RD/RA Executive Committee

Prepared By:

Montgomery Watson
2100 Corporate Drive
Addison, Illinois 60101

October 1997

MONTGOMERY WATSON

APPENDIX C

LABORATORY ANALYTICAL DATA
LOWER AQUIFER – VOCs, SVOC, PCB/PESTICIDE

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW07-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 6/24/97 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645011

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0626113.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: not dec. Date Analyzed: 06/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	UJ 24	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	UJ 10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW07-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645011

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703807.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/04/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	31	
111-44-4	Bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW07-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645011

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703807.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/04/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylpnthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	2	J
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW07-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645011

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703807.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/04/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000104-76-7	1-HEXANOL, 2-ETHYL-	10.21	6	JN
000149-57-5	HEXANOIC ACID, 2-ETHYL-	11.90	9	JN
	UNKNOWN	17.99	75	J
	UNKNOWN	21.51	6	J
002440-22-4	DROMETRIZOLE	24.45	16	JN
	UNKNOWN	29.25	3	J

VALIDATED

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW07
ACS-EWMW07-02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645011

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P2070197_067.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/27/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/11/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

VALIDATED

1E

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWMW07-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645011

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0626113.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: not dec. Date Analyzed: 06/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

VALIDATED

FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW08-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 6/24/97 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645009

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0626111.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: not dec. Date Analyzed: 06/26/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane	1J	10	U
75-09-2	Methylene Chloride		10	U
67-64-1	Acetone	10J	8	J
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane	4J	10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
124-48-1	Dibromochloromethane		10	U
79-00-5	1,1,2-Trichloroethane		10	U
71-43-2	Benzene		10	U
10061-02-6	Trans-1,3-Dichloropropene		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-88-3	Toluene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW08-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645009

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703805.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/03/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW08-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645009

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703805.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/03/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorcbenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW08-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645009

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703805.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/03/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	8.95	2	J
	UNKNOWN	14.71	3	J

VALIDATED

FORM I SV-TIC

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW08
ACS-GWMW08-02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645009

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P2070197_065.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/27/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/11/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

VALIDATED

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWMW08-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645009

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0626111.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: not dec. Date Analyzed: 06/26/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW09-92 6-30-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704720

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0709J04.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: not dec. Date Analyzed: 07/09/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 10

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/l	Q
74-87-3	Chloromethane		100	U
74-83-9	Bromomethane		100	U
75-01-4	Vinyl Chloride		100	U
75-00-3	Chloroethane	J	2000	
75-09-2	Methylene Chloride		100	U
67-64-1	Acetone		100	U
75-15-0	Carbon Disulfide		100	U
75-35-4	1,1-Dichloroethene		100	U
75-34-3	1,1-Dichloroethane		100	U
540-59-0	1,2-Dichloroethene (total)		100	U
67-66-3	Chloroform		100	U
107-06-2	1,2-Dichloroethane	UJ	100	U
78-93-3	2-Butanone		100	U
71-55-6	1,1,1-Trichloroethane		100	U
56-23-5	Carbon Tetrachloride		100	U
75-27-4	Bromodichloromethane		100	U
78-87-5	1,2-Dichloropropane		100	U
10061-01-5	cis-1,3-Dichloropropene		100	U
79-01-6	Trichloroethene		100	U
124-48-1	Dibromochloromethane		100	U
79-00-5	1,1,2-Trichloroethane		100	U
71-43-2	Benzene		330	
10061-02-6	Trans-1,3-Dichloropropene		100	U
75-25-2	Bromoform		100	U
108-10-1	4-Methyl-2-Pentanone		100	U
591-78-6	2-Hexanone		100	U
127-18-4	Tetrachloroethene		100	U
108-88-3	Toluene		100	U
79-34-5	1,1,2,2-Tetrachloroethane		100	U
108-90-7	Chlorobenzene		100	U
100-41-4	Ethylbenzene		100	U
100-42-5	Styrene		100	U
1330-20-7	Xylene (total)		100	U

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW09-02 6-30-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704719

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0709J05.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: not dec. Date Analyzed: 07/09/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 16

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
74-87-3	Chloromethane	160	U
74-83-9	Bromomethane	160	U
75-01-4	Vinyl Chloride	160	U
75-00-3	Chloroethane	J 1700	
75-09-2	Methylene Chloride	160	U
67-64-1	Acetone	160	U
75-15-0	Carbon Disulfide	160	U
75-35-4	1,1-Dichloroethene	160	U
75-34-3	1,1-Dichloroethane	160	U
540-59-0	1,2-Dichloroethene (total)	160	U
67-66-3	Chloroform	160	U
107-06-2	1,2-Dichloroethane	UJ 160	U
78-93-3	2-Butanone	160	U
71-55-6	1,1,1-Trichloroethane	160	U
56-23-5	Carbon Tetrachloride	160	U
75-27-4	Bromodichloromethane	160	U
78-87-5	1,2-Dichloropropane	160	U
10061-01-5	cis-1,3-Dichloropropene	160	U
79-01-6	Trichloroethene	160	U
124-48-1	Dibromochloromethane	160	U
79-00-5	1,1,2-Trichloroethane	160	U
71-43-2	Benzene	280	
10061-02-6	Trans-1,3-Dichloropropene	160	U
75-25-2	Bromoform	160	U
108-10-1	4-Methyl-2-Pentanone	160	U
591-78-6	2-Hexanone	160	U
127-18-4	Tetrachloroethene	160	U
108-88-3	Toluene	160	U
79-34-5	1,1,2,2-Tetrachloroethane	160	U
108-90-7	Chlorobenzene	160	U
100-41-4	Ethylbenzene	160	U
100-42-5	Styrene	160	U
1330-20-7	Xylene (total)	160	U

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW09-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704719

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0708813.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	31	
111-44-4	Bis(2-Chloroethyl)Ether	39	
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	1	J
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW09-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704719

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0708813.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	7	J
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW09-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704719

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0708813.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	7.21	11	J
	SUBSTITUTED PROPANOL ISOMER	9.51	14	J
	UNKNOWN	9.97	15	J
	UNKNOWN	10.06	22	J
	UNKNOWN	10.11	11	J
000116-02-9	CYCLOHEXANOL, 3,3,5-TRIMETHY	10.51	28	JN
	UNKNOWN	11.53	39	J
	UNKNOWN	12.14	9	J
	UNKNOWN	13.01	7	J
	UNKNOWN	15.46	26	J
	UNKNOWN	15.73	12	J
000480-63-7	BENZOIC ACID, 2,4,6-TRIMETHY	16.47	13	JN
	UNKNOWN	16.72	15	J
	UNKNOWN	16.98	33	J
	UNKNOWN	17.29	27	J
000101-10-0	PROPANOIC ACID, 2-(3-CHLOROPHENOXY)	18.66	25	JN
	SECOBARBITAL ISOMER	21.28	6	J
	UNKNOWN	21.90	7	J
	UNKNOWN	22.26	15	J
	UNKNOWN	27.09	16	J

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW09-92

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704720

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0710H04.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	20	
111-44-4	Bis(2-Chloroethyl)Ether	42	
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	0.9	J
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW09-92

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704720

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0710H04.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Buty[illegible]nthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	U 10 5	J
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW09-92

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704720

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0710H04.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/10/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	7.22	13	J
	SUBSTITUTED PROPANOL ISOMER	9.53	13	J
	SUBSTITUTED PROPANOL ISOMER	9.62	12	J
	UNKNOWN	9.83	13	J
	UNKNOWN	10.09	17	J
	UNKNOWN	10.14	13	J
000873-94-9	CYCLOHEXANONE, 3,3,5-TRIMETHYL-	10.35	310	JN
	UNKNOWN	11.59	50	J
	UNKNOWN	15.49	27	J
	UNKNOWN	15.76	18	J
000480-63-7	BENZOIC ACID, 2,4,6-TRIMETHYL-	16.53	17	JN
	UNKNOWN	16.77	20	J
	UNKNOWN	16.83	14	J
	UNKNOWN	17.01	33	J
	UNKNOWN	17.34	33	J
000098-73-7	BENZOIC ACID, P-TERT-BUTYL-	17.59	63	JN
000101-10-0	PROPANOIC ACID, 2-(3-CHLOROP-	18.73	38	JN
	SECOBARBITAL ISOMER	21.33	10	J
	UNKNOWN	22.31	15	J
	UNKNOWN	27.14	14	J

(FENOXY)

VALIDATED

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW92
ACS-GWMW09-02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704719

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4071597_048.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 07/01/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:07/03/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/18/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
319-84-6	alpha-BHC		0.050	U
319-85-7	beta-BHC		0.050	U
319-86-8	delta-BHC		0.050	U
58-89-9	gamma-BHC (Lindane)		0.050	U
76-44-8	Heptachlor		0.050	U
309-00-2	Aldrin		0.050	U
1024-57-3	Heptachlor epoxide		0.050	U
959-98-8	Endosulfan I		0.050	U
60-57-1	Dieldrin		0.10	U
72-55-9	4,4'-DDE	U5	0.10	U
72-20-8	Endrin	U5	0.10	U
33213-65-9	Endosulfan II		0.10	U
72-54-8	4,4'-DDD	U5	0.10	U
1031-07-8	Endosulfan sulfate		0.10	U
50-29-3	4,4'-DDT	U5	0.10	U
72-43-5	Methoxychlor		0.50	U
53494-70-5	Endrin ketone	U5	0.10	U
7421-93-4	Endrin aldehyde	U5	0.10	U
5103-71-9	alpha-Chlordane		0.050	U
5103-74-2	gamma-Chlordane		0.050	U
8001-35-2	Toxaphene		5.0	U
12674-11-2	Aroclor-1016		1.0	U
11104-28-2	Aroclor-1221		2.0	U
11141-16-5	Aroclor-1232		1.0	U
53469-21-9	Aroclor-1242		1.0	U
12672-29-6	Aroclor-1248		1.0	U
11097-69-1	Aroclor-1254		1.0	U
11096-82-5	Aroclor-1260		1.0	U

VALIDATED

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW99
ACS-GWM409-92

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704720

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4071597_049.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 07/01/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:07/03/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/18/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
319-84-6	alpha-BHC		0.050	U
319-85-7	beta-BHC		0.050	U
319-86-8	delta-BHC		0.050	U
58-89-9	gamma-BHC (Lindane)		0.050	U
76-44-8	Heptachlor		0.050	U
309-00-2	Aldrin		0.050	U
1024-57-3	Heptachlor epoxide		0.050	U
959-98-8	Endosulfan I		0.050	U
60-57-1	Dieldrin		0.10	U
72-55-9	4,4'-DDE	UJ	0.10	U
72-20-8	Endrin	UJ	0.10	U
33213-65-9	Endosulfan II		0.10	U
72-54-8	4,4'-DDD	UJ	0.10	U
1031-07-8	Endosulfan sulfate		0.10	U
50-29-3	4,4'-DDT	UJ	0.10	U
72-43-5	Methoxychlor		0.50	U
53494-70-5	Endrin ketone	UJ	0.10	U
7421-93-4	Endrin aldehyde	UJ	0.10	U
5103-71-9	alpha-Chlordane		0.050	U
5103-74-2	gamma-Chlordane		0.050	U
8001-35-2	Toxaphene		5.0	U
12674-11-2	Aroclor-1016		1.0	U
11104-28-2	Aroclor-1221		2.0	U
11141-16-5	Aroclor-1232		1.0	U
53469-21-9	Aroclor-1242		1.0	U
12672-29-6	Aroclor-1248		1.0	U
11097-69-1	Aroclor-1254		1.0	U
11096-82-5	Aroclor-1260		1.0	U

VALIDAT

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW09-92

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704720

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0709J04.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: not dec. Date Analyzed: 07/09/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 10.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICs Found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW09-02

Lab Name: IEA-NC   Method: SOW 1/91

Lab Code: IEA   Case No.: 2240-059   SDG No.: 06511

Matrix: (soil/water) WATER   Lab Sample ID: 970704719

Sample wt/vol: 5 (g/mL) ml   Lab File ID: 0709J05.D

Level: (low/med) LOW   Date Received: 07/01/97

% Moisture: not dec.   Date Analyzed: 07/09/97

GC Column: DB-624   ID: 0.53(mm)   Dilution Factor: 16.0

Soil Extract Volume: (uL)   Soil Aliquot Volume: (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW10C-92 6-26-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651211

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0701J15.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: not dec. Date Analyzed: 07/02/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 5.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	7	J
75-00-3	Chloroethane	J 340	
75-09-2	Methylene Chloride	5	J
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	50	U
75-35-4	1,1-Dichloroethene	50	U
75-34-3	1,1-Dichloroethane	50	U
540-59-0	1,2-Dichloroethene (total)	50	U
67-66-3	Chloroform	50	U
107-06-2	1,2-Dichloroethane	UJ 50	U
78-93-3	2-Butanone	50	U
71-55-6	1,1,1-Trichloroethane	50	U
56-23-5	Carbon Tetrachloride	50	U
75-27-4	Bromodichloromethane	50	U
78-87-5	1,2-Dichloropropane	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
79-01-6	Trichloroethene	50	U
124-48-1	Dibromochloromethane	50	U
79-00-5	1,1,2-Trichloroethane	50	U
71-43-2	Benzene	50	U
10061-02-6	Trans-1,3-Dichloropropene	50	U
75-25-2	Bromoform	50	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	50	U
108-88-3	Toluene	50	U
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	50	U
100-42-5	Styrene	50	U
1330-20-7	Xylene (total)	50	U

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW10C-02 6-26-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651210

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0701J05.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: not dec. Date Analyzed: 07/01/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 25

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q
74-87-3	Chloromethane		250	U
74-83-9	Bromomethane		250	U
75-01-4	Vinyl Chloride		250	U
75-00-3	Chloroethane	J	440	
75-09-2	Methylene Chloride		250	U
67-64-1	Acetone		250	U
75-15-0	Carbon Disulfide		250	U
75-35-4	1,1-Dichloroethene		250	U
75-34-3	1,1-Dichloroethane		250	U
540-59-0	1,2-Dichloroethene (total)		250	U
67-66-3	Chloroform		250	U
107-06-2	1,2-Dichloroethane	UJ	250	U
78-93-3	2-Butanone		250	U
71-55-6	1,1,1-Trichloroethane		250	U
56-23-5	Carbon Tetrachloride		250	U
75-27-4	Bromodichloromethane		250	U
78-87-5	1,2-Dichloropropane		250	U
10061-01-5	cis-1,3-Dichloropropene		250	U
79-01-6	Trichloroethene		250	U
124-48-1	Dibromochloromethane		250	U
79-00-5	1,1,2-Trichloroethane		250	U
71-43-2	Benzene		250	U
10061-02-6	Trans-1,3-Dichloropropene		250	U
75-25-2	Bromoform		250	U
108-10-1	4-Methyl-2-Pentanone		250	U
591-78-6	2-Hexanone		250	U
127-18-4	Tetrachloroethene		250	U
108-88-3	Toluene		250	U
79-34-5	1,1,2,2-Tetrachloroethane		250	U
108-90-7	Chlorobenzene		250	U
100-41-4	Ethylbenzene		250	U
100-42-5	Styrene		250	U
1330-20-7	Xylene (total)		250	U

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW10C-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651210

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0708806.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	19	
111-44-4	Bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW10C-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651210

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0708806.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	10	J
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW10C-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651210

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0708806.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	7.90	8	J
	UNKNOWN	8.06	15	J
000111-96-6	ETHANE, 1,1'-OXYBIS[2-METHOXY]-	8.51	5	JN
	SUBSTITUTED PROPANOL ISOMER	9.49	22	J
	SUBSTITUTED PROPANOL ISOMER	9.56	27	J
	UNKNOWN	9.96	10	J
	UNKNOWN	10.01	10	J
	UNKNOWN	10.96	6	J
	UNKNOWN	11.63	110	J
	UNKNOWN	12.10	6	J
020324-33-8	2-PROPANOL, 1-[2-(2-METHOXY-1-METH	14.43	8	JN
	UNKNOWN	14.74	6	J
	METHYLATED BENZOIC ACID ISOMER	15.28	5	J
	UNKNOWN	20.82	7	J
	UNKNOWN	21.83	10	J
	UNKNOWN	24.09	5	J
	UNKNOWN	24.36	9	J
	UNKNOWN	24.62	10	J
	UNKNOWN	24.73	5	J
	UNKNOWN	26.06	8	J

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW10C-92

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651211

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0708807.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW10C-92

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651211

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0708807.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	U 10 3	J
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW10C-92

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651211

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0708807.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 20

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	7.90	7	J
	UNKNOWN	8.04	11	J
	SUBSTITUTED PROPANOL ISOMER	9.49	14	J
	SUBSTITUTED PROPANOL ISOMER	9.56	20	J
	SUBSTITUTED BENZENE	9.96	10	J
	UNKNOWN	10.01	5	J
	UNKNOWN	10.79	10	J
	UNKNOWN	10.96	6	J
	UNKNOWN	11.62	150	J
	UNKNOWN	11.91	7	J
	UNKNOWN	12.10	10	J
	UNKNOWN	14.43	8	J
	UNKNOWN	14.73	6	J
	UNKNOWN	21.84	10	J
000057-10-3	HEXADECANOIC ACID	22.64	9	JNX
	UNKNOWN	22.91	7	J
	UNKNOWN	24.36	5	J
	UNKNOWN	24.63	11	J
	UNKNOWN	26.06	7	J
000103-23-1	HEXANEDIOIC ACID, BIS(2-ETHYL HEXYL)	26.75	6	JN

FORM I SV-TIC

VALIDATED

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW10C2
ACS-GWMW10C-02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651210

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4071597_032.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:07/01/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/18/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
319-84-6	alpha-BHC		0.050	U
319-85-7	beta-BHC		0.050	U
319-86-8	delta-BHC		0.050	U
58-89-9	gamma-BHC (Lindane)		0.050	U
76-44-8	Heptachlor		0.050	U
309-00-2	Aldrin		0.050	U
1024-57-3	Heptachlor epoxide		0.050	U
959-98-8	Endosulfan I		0.050	U
60-57-1	Dieldrin		0.10	U
72-55-9	4,4'-DDE	UJ	0.10	U
72-20-8	Endrin	UJ	0.10	U
33213-65-9	Endosulfan II		0.10	U
72-54-8	4,4'-DDD	UJ	0.10	U
1031-07-8	Endosulfan sulfate		0.10	U
50-29-3	4,4'-DDT	UJ	0.10	U
72-43-5	Methoxychlor		0.50	U
53494-70-5	Endrin ketone	UJ	0.10	U
7421-93-4	Endrin aldehyde	UJ	0.10	U
5103-71-9	alpha-Chlordane		0.050	U
5103-74-2	gamma-Chlordane		0.050	U
8001-35-2	Toxaphene		5.0	U
12674-11-2	Aroclor-1016		1.0	U
11104-28-2	Aroclor-1221		2.0	U
11141-16-5	Aroclor-1232		1.0	U
53469-21-9	Aroclor-1242		1.0	U
12672-29-6	Aroclor-1248		1.0	U
11097-69-1	Aroclor-1254		1.0	U
11096-82-5	Aroclor-1260		1.0	U

VALIDATED

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW10C9
ACS-FWMW10C-92

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651211

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4071597_036.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:07/01/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/18/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
319-84-6	alpha-BHC		0.050	U
319-85-7	beta-BHC		0.050	U
319-86-8	delta-BHC		0.050	U
58-89-9	gamma-BHC (Lindane)		0.050	U
76-44-8	Heptachlor		0.050	U
309-00-2	Aldrin		0.050	U
1024-57-3	Heptachlor epoxide		0.050	U
959-98-8	Endosulfan I		0.050	U
60-57-1	Dieldrin		0.10	U
72-55-9	4,4'-DDE	U5	0.10	U
72-20-8	Endrin	U5	0.10	U
33213-65-9	Endosulfan II		0.10	U
72-54-8	4,4'-DDD	U5	0.10	U
1031-07-8	Endosulfan sulfate		0.10	U
50-29-3	4,4'-DDT	U5	0.10	U
72-43-5	Methoxychlor		0.50	U
53494-70-5	Endrin ketone	U5	0.10	U
7421-93-4	Endrin aldehyde	U5	0.10	U
5103-71-9	alpha-Chlordane	~~U5~~	0.050	U
5103-74-2	gamma-Chlordane		0.050	U
8001-35-2	Toxaphene		5.0	U
12674-11-2	Aroclor-1016		1.0	U
11104-28-2	Aroclor-1221		2.0	U
11141-16-5	Aroclor-1232		1.0	U
53469-21-9	Aroclor-1242		1.0	U
12672-29-6	Aroclor-1248		1.0	U
11097-69-1	Aroclor-1254		1.0	U
11096-82-5	Aroclor-1260		1.0	U

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW10C-92

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651211

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0701J15.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: not dec. Date Analyzed: 07/02/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 5.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000060-29-7	ETHER	4.17	3600	JN
000109-99-9	FURAN, TETRAHYDRO-	8.87	99	JN
	UNKNOWN HYDROCARBON	25.44	49	J
	UNKNOWN HYDROCARBON	27.04	78	J

FORM I VOA-TIC

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW10C-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651210

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0701J05.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: not dec. Date Analyzed: 07/01/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 25.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000060-29-7	ETHER	4.18	4500	JN

FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW21-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 6/3/97 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647617

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0706103.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. Date Analyzed: 07/06/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW21-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647617

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703812.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/04/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	9	J
111-44-4	Bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW21-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647617

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703812.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/04/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW21-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647617

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703812.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/04/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	8.94	4	J
	UNKNOWN	11.57	10	J
	UNKNOWN	17.42	7	J
	UNKNOWN	17.70	2	J

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW21
HCS-EWMW21-02

ab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647617

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4070197_065.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/26/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:07/01/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW21-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647617

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0706103.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. Date Analyzed: 07/06/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

VALIDATED

FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW30 [redacted]

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: [redacted] Case No.: 2240-064 7/1/97 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970705405

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0709J14.D

Level: (low/med) LOW Date Received: 07/02/97

% Moisture: not dec. Date Analyzed: 07/10/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane	UJ	10	U
75-09-2	Methylene Chloride		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	[redacted]		[redacted]	
107-06-2	1,2-Dichloroethane	UJ	10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane	UJ	10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
124-48-1	Dibromochloromethane		10	U
79-00-5	1,1,2-Trichloroethane		10	U
71-43-2	Benzene		10	U
10061-02-6	Trans-1,3-Dichloropropene		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-88-3	Toluene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW22-[redacted]

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IE[redacted] Case No.: 2240-064 7/1/97 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970705405

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0709J14.D

Level: (low/med) LOW Date Received: 07/02/97

% Moisture: not dec. Date Analyzed: 07/10/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane	UJ	10	U
75-09-2	Methylene Chloride		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	[redacted]		[redacted]	
107-06-2	1,2-Dichloroethane	UJ	10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane	UJ	10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
124-48-1	Dibromochloromethane		10	U
79-00-5	1,1,2-Trichloroethane		10	U
71-43-2	Benzene		10	U
10061-02-6	Trans-1,3-Dichloropropene		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-88-3	Toluene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW22-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970705405

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0710I11.D

Level: (low/med) LOW Date Received: 07/02/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/11/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/l	Q
108-95-2	[redacted]		~~100~~	
111-44-4	Bis(2-Chloroethyl)Ether		20	U
95-57-8	2-Chlorophenol		20	U
541-73-1	1,3-Dichlorobenzene		20	U
106-46-7	1,4-Dichlorobenzene		20	U
95-50-1	1,2-Dichlorobenzene		20	U
95-48-7	2-Methylphenol		20	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	UJ	20	U
106-44-5	4-Methylphenol		20	U
621-64-7	N-Nitrosodi-N-Propylamine		20	U
67-72-1	Hexachloroethane		20	U
98-95-3	Nitrobenzene		20	U
78-59-1	Isophorone		20	U
88-75-5	2-Nitrophenol		20	U
105-67-9	2,4-Dimethylphenol		20	U
111-91-1	Bis(2-Chloroethoxy) Methane		20	U
120-83-2	2,4-Dichlorophenol		20	U
120-82-1	1,2,4-Trichlorobenzene		20	U
91-20-3	Naphthalene		20	U
106-47-8	4-Chloroaniline		20	U
87-68-3	Hexachlorobutadiene	UJ	20	U
59-50-7	4-Chloro-3-Methylphenol		20	U
91-57-6	2-Methylnaphthalene		20	U
77-47-4	Hexachlorocyclopentadiene	UJ	20	U
88-06-2	2,4,6-Trichlorophenol		20	U
95-95-4	2,4,5-Trichlorophenol		50	U
91-58-7	2-Chloronaphthalene		20	U
88-74-4	2-Nitroaniline		50	U
131-11-3	Dimethylphthalate		20	U
208-96-8	Acenaphthylene		20	U
606-20-2	2,6-Dinitrotoluene		20	U
99-09-2	3-Nitroaniline		50	U
83-32-9	Acenaphthene		20	U

FORM I SV-1

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW22-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970705405

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0710I11.D

Level: (low/med) LOW Date Received: 07/02/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/11/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/l	Q
108-95-2	Phenol		~~100~~	
111-44-4	Bis(2-Chloroethyl)Ether		20	U
95-57-8	2-Chlorophenol		20	U
541-73-1	1,3-Dichlorobenzene		20	U
106-46-7	1,4-Dichlorobenzene		20	U
95-50-1	1,2-Dichlorobenzene		20	U
95-48-7	2-Methylphenol		20	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	UJ	20	U
106-44-5	4-Methylphenol		20	U
621-64-7	N-Nitrosodi-N-Propylamine		20	U
67-72-1	Hexachloroethane		20	U
98-95-3	Nitrobenzene		20	U
78-59-1	Isophorone		20	U
88-75-5	2-Nitrophenol		20	U
105-67-9	2,4-Dimethylphenol		20	U
111-91-1	Bis(2-Chloroethoxy) Methane		20	U
120-83-2	2,4-Dichlorophenol		20	U
120-82-1	1,2,4-Trichlorobenzene		20	U
91-20-3	Naphthalene		20	U
106-47-8	4-Chloroaniline		20	U
87-68-3	Hexachlorobutadiene	UJ	20	U
59-50-7	4-Chloro-3-Methylphenol		20	U
91-57-6	2-Methylnaphthalene		20	U
77-47-4	Hexachlorocyclopentadiene	UJ	20	U
88-06-2	2,4,6-Trichlorophenol		20	U
95-95-4	2,4,5-Trichlorophenol		50	U
91-58-7	2-Chloronaphthalene		20	U
88-74-4	2-Nitroaniline		50	U
131-11-3	Dimethylphthalate		20	U
208-96-8	Acenaphthylene		20	U
606-20-2	2,6-Dinitrotoluene		20	U
99-09-2	3-Nitroaniline		50	U
83-32-9	Acenaphthene		20	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW22-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970705405

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0710I11.D

Level: (low/med) LOW Date Received: 07/02/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/11/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	UJ 50	U
132-64-9	Dibenzofuran	20	U
121-14-2	2,4-Dinitrotoluene	20	U
84-66-2	Diethylphthalate	20	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
86-73-7	Fluorene	20	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	20	U
101-55-3	4-Bromophenyl-phenylether	20	U
118-74-1	Hexachlorobenzene	20	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
86-74-8	Carbazole	20	U
84-74-2	Di-N-Butylphthalate	20	U
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	20	U
85-68-7	Butylbenzylphthalate	20	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(A)Anthracene	20	U
218-01-9	Chrysene	20	U
117-81-7	[redacted]	[redacted]	
117-84-0	Di-N-Octylphthalate	20	U
205-99-2	Benzo(B)Fluoranthene	20	U
207-08-9	Benzo(K)Fluoranthene	20	U
50-32-8	Benzo(A)Pyrene	20	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	20	U
53-70-3	Dibenz(A,H)Anthracene	20	U
191-24-2	Benzo(G,H,I)Perylene	20	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW22-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970705405

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0710I11.D

Level: (low/med) LOW Date Received: 07/02/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/11/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	UJ 50	U
132-64-9	Dibenzofuran	20	U
121-14-2	2,4-Dinitrotoluene	20	U
84-66-2	Diethylphthalate	20	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
86-73-7	Fluorene	20	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	20	U
101-55-3	4-Bromophenyl-phenylether	20	U
118-74-1	Hexachlorobenzene	20	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
86-74-8	Carbazole	20	U
84-74-2	Di-N-Butylphthalate	20	U
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	20	U
85-68-7	Butylbenzylphthalate	20	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(A)Anthracene	20	U
218-01-9	Chrysene	20	U
117-81-7	[redacted]	[redacted]	[redacted]
117-84-0	Di-N-Octylphthalate	20	U
205-99-2	Benzo(B)Fluoranthene	20	U
207-08-9	Benzo(K)Fluoranthene	20	U
50-32-8	Benzo(A)Pyrene	20	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	20	U
53-70-3	Dibenz(A,H)Anthracene	20	U
191-24-2	Benzo(G,H,I)Perylene	20	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW22-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970705405

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0710I11.D

Level: (low/med) LOW Date Received: 07/02/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/11/97

Injection Volume: 2 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 8

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	7.99	9	J
	Unknown	10.04	44	J
000104-76-7	1-HEXANOL, 2-ETHYL-	10.10	53	JN
	Unknown	11.53	67	J
	Unknown	11.87	22	J
	Unknown	13.84	6	J
000087-41-2	1(3H)-ISOBENZOFURANONE	15.57	6	JN
000080-05-7	PHENOL, 4,4'-(1-METHYLETHYLI	25.26	4	JN

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW22-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970705405

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0710I11.D

Level: (low/med) LOW Date Received: 07/02/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/11/97

Injection Volume: 2 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 8

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	7.99	9	J
	Unknown	10.04	44	J
000104-76-7	1-HEXANOL, 2-ETHYL-	10.10	53	JN
	Unknown	11.53	67	J
	Unknown	11.87	22	J
	Unknown	13.84	6	J
000087-41-2	1(3H)-ISOBENZOFURANONE	15.57	6	JN
000080-05-7	PHENOL, 4,4'-(1-METHYLETHYLI	25.26	4	JN

FORM I SV-TIC

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW22
HCS-GWMW22-02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970705405

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4071597_054.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 07/02/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 07/03/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/19/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW22
ACS-GWMW22-07

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970705405

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4071597_054.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 07/02/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:07/03/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/19/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW22-02

Lab Name: IEA-NC　　Method: SOW 1/91

Lab Code: IEA　　Case No.: 2240-064　　SDG No.: 07050

Matrix: (soil/water) WATER　　Lab Sample ID: 970705405

Sample wt/vol: 5 (g/mL) ml　　Lab File ID: 0709J14.D

Level: (low/med) LOW　　Date Received: 07/02/97

% Moisture: not dec.　　Date Analyzed: 07/10/97

GC Column: DB-624 ID: 0.53(mm)　　Dilution Factor: 1.0

Soil Extract Volume: (uL)　　Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICs Found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

VALIDATED

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWMW22-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970705405

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0709J14.D

Level: (low/med) LOW Date Received: 07/02/97

% Moisture: not dec. Date Analyzed: 07/10/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW29-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970704717

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0709105.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: not dec. Date Analyzed: 07/09/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	UJ 10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	[redacted]	[redacted]	[redacted]
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW23-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 6/24/97 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644807

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0626109.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: not dec. Date Analyzed: 06/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane	UJ	10	U
75-09-2	Methylene Chloride		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane	UJ	10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
124-48-1	Dibromochloromethane		10	U
79-00-5	1,1,2-Trichloroethane		10	U
71-43-2	Benzene		10	U
10061-02-6	Trans-1,3-Dichloropropene		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-88-3	Toluene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW23-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644807

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0702812.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/03/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	J 29	
111-44-4	Bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW23-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644807

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0702812.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/03/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	J 4	J
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW23-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644807

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0702812.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/03/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 12

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	9.01	3	J
020324-32-7	2-PROPANOL, 1-(2-METHOXY-1-M	9.74	2	JN
	UNKNOWN HYDROCARBON	10.27	6	J
	UNKNOWN	11.55	3	J
000149-57-5	HEXANOIC ACID, 2-ETHYL-	11.94	8	JN
	UNKNOWN	12.99	2	J
000112-34-5	ETHANOL, 2-(2-BUTOXYETHOXY)-	13.07	5	JN
	UNKNOWN	14.72	2	J
	UNKNOWN	17.26	10	J
	UNKNOWN	17.48	6	J
000098-73-7	BENZOIC ACID, P-TERT-BUTYL-	17.60	4	JN
	UNKNOWN	17.77	5	J

VALIDATED

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW29
AES-GWMW29-02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970704717

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4071597_042.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 07/01/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 07/03/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/18/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
319-84-6	alpha-BHC		0.050	U
319-85-7	beta-BHC		0.050	U
319-86-8	delta-BHC		0.050	U
58-89-9	gamma-BHC (Lindane)		0.050	U
76-44-8	Heptachlor		0.050	U
309-00-2	Aldrin		0.050	U
1024-57-3	Heptachlor epoxide		0.050	U
959-98-8	Endosulfan I		0.050	U
60-57-1	Dieldrin	UJ	0.10	U
72-55-9	4,4'-DDE	UJ	0.10	U
72-20-8	Endrin	UJ	0.10	U
33213-65-9	Endosulfan II		0.10	U
72-54-8	4,4'-DDD	UJ	0.10	U
1031-07-8	Endosulfan sulfate		0.10	U
50-29-3	4,4'-DDT	UJ	0.10	U
72-43-5	Methoxychlor		0.50	U
53494-70-5	Endrin ketone	UJ	0.10	U
7421-93-4	Endrin aldehyde	UJ	0.10	U
5103-71-9	alpha-Chlordane		0.050	U
5103-74-2	gamma-Chlordane		0.050	U
8001-35-2	Toxaphene		5.0	U
12674-11-2	Aroclor-1016		1.0	U
11104-28-2	Aroclor-1221		2.0	U
11141-16-5	Aroclor-1232		1.0	U
53469-21-9	Aroclor-1242		1.0	U
12672-29-6	Aroclor-1248		1.0	U
11097-69-1	Aroclor-1254		1.0	U
11096-82-5	Aroclor-1260		1.0	U

VALIDATED

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW2302
ACS-GWMW2302

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644807

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P2070197_063.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/27/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/11/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

VALIDATED

1E

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWMW29-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970704717

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0709105.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: not dec. Date Analyzed: 07/09/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

VALIDATED

1E

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWMW23-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644807

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0626109.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: not dec. Date Analyzed: 06/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN HYDROCARBON	27.04	5	J

FORM I VOA-TIC

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW23-92

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 6/24/97 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644806

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0626108.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: not dec. Date Analyzed: 06/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

FORM I VOA

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW23-92

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644806

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0702811.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/03/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	J 7	J
111-44-4	Bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

FORM I SV-1

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO

ACS-GWMW23-92

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644806

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0702811.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/03/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN HYDROCARBON	9.01	3	J
	UNKNOWN	11.55	4	J
	UNKNOWN	14.72	2	J
	UNKNOWN	17.26	10	J
	UNKNOWN	17.48	6	J
000098-73-7	BENZOIC ACID, P-TERT-BUTYL-	17.58	2	JN
	UNKNOWN	17.77	4	J

VALIDATED

FORM I SV-TIC

1C

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW23-92

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644806

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0702811.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/03/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

VALIDATED

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW2392
ACS-GWMW23-92

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644806

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P2070197_059.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/27/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/10/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

VALIDATED

1E

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWMW23-92

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644806

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0626108.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: not dec. Date Analyzed: 06/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	SUBSTITUTED ALKANE	15.88	6	J

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW24-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 6/24/97 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645012

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0626114.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: not dec. Date Analyzed: 06/26/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	UJ 10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	104 8	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	UJ 10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW24-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645012

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703808.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/04/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/l	Q
108-95-2	Phenol	J	2	J
111-44-4	Bis(2-Chloroethyl)Ether		10	U
95-57-8	2-Chlorophenol	U	10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
95-48-7	2-Methylphenol	U	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)		10	U
106-44-5	4-Methylphenol	U	10	U
621-64-7	N-Nitrosodi-N-Propylamine		10	U
67-72-1	Hexachloroethane		10	U
98-95-3	Nitrobenzene		10	U
78-59-1	Isophorone		10	U
88-75-5	2-Nitrophenol	U	10	U
105-67-9	2,4-Dimethylphenol		10	U
111-91-1	Bis(2-Chloroethoxy) Methane		10	U
120-83-2	2,4-Dichlorophenol		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U
91-20-3	Naphthalene		10	U
106-47-8	4-Chloroaniline		10	U
87-68-3	Hexachlorobutadiene		10	U
59-50-7	4-Chloro-3-Methylphenol	U	10	U
91-57-6	2-Methylnaphthalene		10	U
77-47-4	Hexachlorocyclopentadiene		10	U
88-06-2	2,4,6-Trichlorophenol	UJ	10	U
95-95-4	2,4,5-Trichlorophenol	UJ	25	U
91-58-7	2-Chloronaphthalene		10	U
88-74-4	2-Nitroaniline		25	U
131-11-3	Dimethylphthalate		10	U
208-96-8	Acenaphthylene		10	U
606-20-2	2,6-Dinitrotoluene		10	U
99-09-2	3-Nitroaniline		25	U
83-32-9	Acenaphthene		10	U

 VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW24-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645012

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703808.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/04/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	UJ 25	U
100-02-7	4-Nitrophenol	UJ 25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	UJ 25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	UJ 25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	4	J
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW24-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645012

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703808.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/04/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	8.95	3	J
	UNKNOWN HYDROCARBON	12.87	2	J
	UNKNOWN	13.96	3	J
	UNKNOWN	14.75	25	J
	UNKNOWN	16.56	2	J

VALIDATED

FORM I SV-TIC

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW24
ACS-GWMW24-02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645012

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P2070197_068.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/27/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/11/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

VALIDATED

1E

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWMW24-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645012

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0626114.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: not dec. Date Analyzed: 06/26/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

VALIDATED

FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW28-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 6/24/97 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644805

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0626107.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: not dec. Date Analyzed: 06/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/l	Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane	UJ	10	U
75-09-2	Methylene Chloride		10	U
67-64-1	Acetone	104	7	J
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane	UJ	10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
124-48-1	Dibromochloromethane		10	U
79-00-5	1,1,2-Trichloroethane		10	U
71-43-2	Benzene		10	U
10061-02-6	Trans-1,3-Dichloropropene		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-88-3	Toluene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW28-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644805

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0702810.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/03/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	69	
111-44-4	Bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW28-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644805

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0702810.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/03/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	6	J
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW28-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644805

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0702810.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/03/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 8

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN HYDROCARBON	10.27	14	J
	UNKNOWN	11.55	6	J
000149-57-5	HEXANOIC ACID, 2-ETHYL-	12.02	22	JN
000065-85-0	BENZOIC ACID	12.75	3	JN
000112-34-5	ETHANOL, 2-(2-BUTOXYETHOXY)-	13.07	9	JN
000087-41-2	1(3H)-ISOBENZOFURANONE	15.76	4	JN
000098-73-7	BENZOIC ACID, P-TERT-BUTYL-	17.59	7	JN
000080-05-7	PHENOL, 4,4'-(1-METHYLETHYLIDE	25.46	4	JN

VALIDATED

FORM I SV-TIC

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW28
ACS-GWMW28-02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644805

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P2070197_058.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/27/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/10/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW50-02

Lab Name: IEA-NC   Method: SOW 1/91

Lab Code: IEA   Case No.: 2240-054   SDG No.: 06448

Matrix: (soil/water) WATER   Lab Sample ID: 970644803

Sample wt/vol: 5 (g/mL) ml   Lab File ID: 0626105.D

Level: (low/med) LOW   Date Received: 06/25/97

% Moisture: not dec.   Date Analyzed: 06/26/97

GC Column: DB-624 ID: 0.53(mm)   Dilution Factor: 1.0

Soil Extract Volume: (uL)   Soil Aliquot Volume: (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

VALIDATED

1E

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWMW28-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644805

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0626107.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: not dec. Date Analyzed: 06/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

VALIDATED

FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW29-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970704717

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0709105.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: not dec. Date Analyzed: 07/09/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	UJ 10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	[redacted]	[redacted]	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

FORM I VOA

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW29-02 6-30-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704717

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0709105.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: not dec. Date Analyzed: 07/09/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/l	Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane	UJ	10	U
75-09-2	Methylene Chloride		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane	UJ	10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
124-48-1	Dibromochloromethane		10	U
79-00-5	1,1,2-Trichloroethane		10	U
71-43-2	Benzene		3	J
10061-02-6	Trans-1,3-Dichloropropene		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-88-3	Toluene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW29-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704717

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0708811.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	32	
111-44-4	Bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

VALIDATED

1C

CLIENT SAMPLE NO

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW29-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704717

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0708811.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	24	
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW29-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704717

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0708811.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	SUBSTITUTED PROPANOL ISOMER	9.50	8	J
	SUBSTITUTED PROPANOL ISOMER	9.57	9	J
000104-76-7	1-HEXANOL, 2-ETHYL-	10.03	15	JN
	UNKNOWN	11.53	46	J
003302-10-1	HEXANOIC ACID, 3,5,5-TRIMETHYL-	12.09	4	JN
000065-85-0	BENZOIC ACID	12.57	3	JN
	UNKNOWN	14.37	5	J
	UNKNOWN	14.45	9	J
	UNKNOWN	14.50	4	J
	UNKNOWN	14.66	3	J
	UNKNOWN	14.71	3	J
000611-01-8	BENZOIC ACID, 2,4-DIMETHYL-	15.35	2	JN
000480-63-7	BENZOIC ACID, 2,4,6-TRIMETHYL-	16.40	8	JN
	UNKNOWN	16.75	2	J
	UNKNOWN	17.16	2	J
	UNKNOWN	17.50	8	J
000088-19-7	BENZENESULFONAMIDE, 2-METHYL	19.19	2	JN
	UNKNOWN	21.82	5	J
000057-10-3	HEXADECANOIC ACID	22.64	3	JNX
	UNKNOWN	24.63	6	J

VALIDATED

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW29
AMS-GW-MW29-022

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970704717

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4071597_042.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 07/01/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 07/03/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/18/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
319-84-6	alpha-BHC		0.050	U
319-85-7	beta-BHC		0.050	U
319-86-8	delta-BHC		0.050	U
58-89-9	gamma-BHC (Lindane)		0.050	U
76-44-8	Heptachlor		0.050	U
309-00-2	Aldrin		0.050	U
1024-57-3	Heptachlor epoxide		0.050	U
959-98-8	Endosulfan I		0.050	U
60-57-1	Dieldrin	UJ	0.10	U
72-55-9	4,4'-DDE	UJ	0.10	U
72-20-8	Endrin	UJ	0.10	U
33213-65-9	Endosulfan II		0.10	U
72-54-8	4,4'-DDD	UJ	0.10	U
1031-07-8	Endosulfan sulfate		0.10	U
50-29-3	4,4'-DDT	UJ	0.10	U
72-43-5	Methoxychlor		0.50	U
53494-70-5	Endrin ketone	UJ	0.10	U
7421-93-4	Endrin aldehyde	UJ	0.10	U
5103-71-9	alpha-Chlordane		0.050	U
5103-74-2	gamma-Chlordane		0.050	U
8001-35-2	Toxaphene		5.0	U
12674-11-2	Aroclor-1016		1.0	U
11104-28-2	Aroclor-1221		2.0	U
11141-16-5	Aroclor-1232		1.0	U
53469-21-9	Aroclor-1242		1.0	U
12672-29-6	Aroclor-1248		1.0	U
11097-69-1	Aroclor-1254		1.0	U
11096-82-5	Aroclor-1260		1.0	U

VALIDATED

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW29
ACS-GWMW29-02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704717

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4071597_042.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 07/01/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:07/03/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/18/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
319-84-6	alpha-BHC		0.050	U
319-85-7	beta-BHC		0.050	U
319-86-8	delta-BHC		0.050	U
58-89-9	gamma-BHC (Lindane)		0.050	U
76-44-8	Heptachlor		0.050	U
309-00-2	Aldrin		0.050	U
1024-57-3	Heptachlor epoxide		0.050	U
959-98-8	Endosulfan I		0.050	U
60-57-1	Dieldrin		0.10	U
72-55-9	4,4'-DDE	UJ	0.10	U
72-20-8	Endrin	UJ	0.10	U
33213-65-9	Endosulfan II		0.10	U
72-54-8	4,4'-DDD	UJ	0.10	U
1031-07-8	Endosulfan sulfate		0.10	U
50-29-3	4,4'-DDT	UJ	0.10	U
72-43-5	Methoxychlor		0.50	U
53494-70-5	Endrin ketone	UJ	0.10	U
7421-93-4	Endrin aldehyde	UJ	0.10	U
5103-71-9	alpha-Chlordane		0.050	U
5103-74-2	gamma-Chlordane		0.050	U
8001-35-2	Toxaphene		5.0	U
12674-11-2	Aroclor-1016		1.0	U
11104-28-2	Aroclor-1221		2.0	U
11141-16-5	Aroclor-1232		1.0	U
53469-21-9	Aroclor-1242		1.0	U
12672-29-6	Aroclor-1248		1.0	U
11097-69-1	Aroclor-1254		1.0	U
11096-82-5	Aroclor-1260		1.0	U

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW29-02

Lab Name: IEA-NC　　Method: SOW 1/91

Lab Code: IEA　　Case No.: 2240-064　　SDG No.: 07050

Matrix: (soil/water) WATER　　Lab Sample ID: 970704717

Sample wt/vol: 5 (g/mL) ml　　Lab File ID: 0709105.D

Level: (low/med) LOW　　Date Received: 07/01/97

% Moisture: not dec.　　Date Analyzed: 07/09/97

GC Column: DB-624　ID: 0.53(mm)　　Dilution Factor: 1.0

Soil Extract Volume: (uL)　　Soil Aliquot Volume: (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

VALIDATED

1E

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWMW29-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704717

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0709105.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: not dec. Date Analyzed: 07/09/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW30-02 6-26-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651209

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0701J09.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: not dec. Date Analyzed: 07/02/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane	UJ	10	U
75-09-2	Methylene Chloride		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane	UJ	10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
124-48-1	Dibromochloromethane		10	U
79-00-5	1,1,2-Trichloroethane		10	U
71-43-2	Benzene		10	U
10061-02-6	Trans-1,3-Dichloropropene		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-88-3	Toluene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW30-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651209

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0708805.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	40	
111-44-4	Bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW30-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651209

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0708805.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q
51-28-5	2,4-Dinitrophenol		25	U
100-02-7	4-Nitrophenol		25	U
132-64-9	Dibenzofuran		10	U
121-14-2	2,4-Dinitrotoluene		10	U
84-66-2	Diethylphthalate		10	U
7005-72-3	4-Chlorophenyl-phenylether		10	U
86-73-7	Fluorene		10	U
100-01-6	4-Nitroaniline		25	U
534-52-1	4,6-Dinitro-2-Methylphenol		25	U
86-30-6	N-Nitrosodiphenylamine		10	U
101-55-3	4-Bromophenyl-phenylether		10	U
118-74-1	Hexachlorobenzene		10	U
87-86-5	Pentachlorophenol		25	U
85-01-8	Phenanthrene		10	U
120-12-7	Anthracene		10	U
86-74-8	Carbazole		10	U
84-74-2	Di-N-Butylphthalate		10	U
206-44-0	Fluoranthene		10	U
129-00-0	Pyrene		10	U
85-68-7	Butylbenzylphthalate		10	U
91-94-1	3,3'-Dichlorobenzidine		10	U
56-55-3	Benzo(A)Anthracene		10	U
218-01-9	Chrysene		10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	u	10	J
117-84-0	Di-N-Octylphthalate		10	U
205-99-2	Benzo(B)Fluoranthene		10	U
207-08-9	Benzo(K)Fluoranthene		10	U
50-32-8	Benzo(A)Pyrene		10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene		10	U
53-70-3	Dibenz(A,H)Anthracene		10	U
191-24-2	Benzo(G,H,I)Perylene		10	U

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW30-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651209

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0708805.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000111-76-2	ETHANOL, 2-BUTOXY-	9.94	6	JN
000104-76-7	1-HEXANOL, 2-ETHYL-	9.99	20	JN
	UNKNOWN	11.48	49	J
000065-85-0	BENZOIC ACID	12.49	2	JN
	UNKNOWN	14.00	2	J
000087-41-2	1(3H)-ISOBENZOFURANONE	15.42	3	JN

VALIDATED

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW30
ACS-GWMW30-02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651209

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4071597_031.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:07/01/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/18/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
319-84-6	alpha-BHC		0.050	U
319-85-7	beta-BHC		0.050	U
319-86-8	delta-BHC		0.050	U
58-89-9	gamma-BHC (Lindane)		0.050	U
76-44-8	Heptachlor		0.050	U
309-00-2	Aldrin		0.050	U
1024-57-3	Heptachlor epoxide		0.050	U
959-98-8	Endosulfan I		0.050	U
60-57-1	Dieldrin		0.10	U
72-55-9	4,4'-DDE	UJ	0.10	U
72-20-8	Endrin	UJ	0.10	U
33213-65-9	Endosulfan II		0.10	U
72-54-8	4,4'-DDD	UJ	0.10	U
1031-07-8	Endosulfan sulfate		0.10	U
50-29-3	4,4'-DDT	UJ	0.10	U
72-43-5	Methoxychlor		0.50	U
53494-70-5	Endrin ketone	UJ	0.10	U
7421-93-4	Endrin aldehyde	UJ	0.10	U
5103-71-9	alpha-Chlordane		0.050	U
5103-74-2	gamma-Chlordane		0.050	U
8001-35-2	Toxaphene		5.0	U
12674-11-2	Aroclor-1016		1.0	U
11104-28-2	Aroclor-1221		2.0	U
11141-16-5	Aroclor-1232		1.0	U
53469-21-9	Aroclor-1242		1.0	U
12672-29-6	Aroclor-1248		1.0	U
11097-69-1	Aroclor-1254		1.0	U
11096-82-5	Aroclor-1260		1.0	U

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW30-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651209

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0701J09.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: not dec. Date Analyzed: 07/02/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN HYDROCARBON	27.04	14	J

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW31-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 6/25/97 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647616

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0701107.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. Date Analyzed: 07/01/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW31-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647616

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703811.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/04/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO

ACS-GWMW31-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647616

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703811.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/04/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	4	J
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW31-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647616

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703811.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/04/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	8.95	3	J

VALIDATED

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW31
HCS-GWMW31-02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647616

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4070197_064.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/26/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:07/01/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

VALIDATED

1E

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWMW31-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647616

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0701107.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. Date Analyzed: 07/01/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICs Found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW32-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 6/24/97 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645010

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0626112.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: not dec. Date Analyzed: 06/26/97

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	6	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW32-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645010

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703806.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/04/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q
108-95-2	Phenol	J	12	
111-44-4	Bis(2-Chloroethyl)Ether		10	U
95-57-8	2-Chlorophenol	UJ	10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
95-48-7	2-Methylphenol	UJ	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)		10	U
106-44-5	4-Methylphenol	UJ	10	U
621-64-7	N-Nitrosodi-N-Propylamine		10	U
67-72-1	Hexachloroethane		10	U
98-95-3	Nitrobenzene		10	U
78-59-1	Isophorone		10	U
88-75-5	2-Nitrophenol	UJ	10	U
105-67-9	2,4-Dimethylphenol	UJ	10	U
111-91-1	Bis(2-Chloroethoxy) Methane		10	U
120-83-2	2,4-Dichlorophenol	UJ	10	U
120-82-1	1,2,4-Trichlorobenzene		10	U
91-20-3	Naphthalene		10	U
106-47-8	4-Chloroaniline		10	U
87-68-3	Hexachlorobutadiene		10	U
59-50-7	4-Chloro-3-Methylphenol	UJ	10	U
91-57-6	2-Methylnaphthalene		10	U
77-47-4	Hexachlorocyclopentadiene		10	U
88-06-2	2,4,6-Trichlorophenol	UJ	10	U
95-95-4	2,4,5-Trichlorophenol	UJ	25	U
91-58-7	2-Chloronaphthalene		10	U
88-74-4	2-Nitroaniline		25	U
131-11-3	Dimethylphthalate		10	U
208-96-8	Acenaphthylene		10	U
606-20-2	2,6-Dinitrotoluene		10	U
99-09-2	3-Nitroaniline		25	U
83-32-9	Acenaphthene		10	U

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW32-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645010

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703806.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/04/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	UJ 25	U
100-02-7	4-Nitrophenol	UJ 25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	UJ 25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	UJ 25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW32-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645010

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703806.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/04/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN HYDROCARBON	8.74	2	J
	UNKNOWN	8.95	2	J
000104-76-7	1-HEXANOL, 2-ETHYL-	10.21	4	JN
000112-34-5	ETHANOL, 2-(2-BUTOXYETHOXY)-	13.01	4	JN
	UNKNOWN	14.73	15	J
	UNKNOWN HYDROCARBON	19.87	5	J

VALIDATED

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW32
ACS-GW-MW32-02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645010

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P2070197_066.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/27/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/11/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW32-02

Lab Name: IEA-NC   Method: SOW 1/91

Lab Code: IEA   Case No.: 2240-054   SDG No.: 06448

Matrix: (soil/water) WATER   Lab Sample ID: 970645010

Sample wt/vol: 5 (g/mL) ml   Lab File ID: 0626112.D

Level: (low/med) LOW   Date Received: 06/25/97

% Moisture: not dec.   Date Analyzed: 06/26/97

GC Column: DB-624   ID: 0.53(mm)   Dilution Factor: 1.0

Soil Extract Volume: (uL)   Soil Aliquot Volume: (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW33-02 6-26-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651104

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0701513.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: not dec. Date Analyzed: 07/01/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	U 10 6	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW33-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651104

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0707811.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	50	
111-44-4	Bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW33-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651104

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0707811.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	u 31	
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW33-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651104

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0707811.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 14

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	SUBSTITUTED PROPANOL ISOMER	9.64	24	J
	SUBSTITUTED PROPANOL ISOMER	9.71	32	J
000104-76-7	1-HEXANOL, 2-ETHYL-	10.16	27	JN
	UNKNOWN	11.53	25	J
003302-10-1	HEXANOIC ACID, 3,5,5-TRIMETHYL-	12.37	9	JN
	UNKNOWN	13.15	8	J
	SUBSTITUTED PROPANOL ISOMER	14.61	7	J
	SUBSTITUTED PROPANOL ISOMER	14.65	6	J
	UNKNOWN	15.86	18	J
	UNKNOWN	16.31	5	J
	UNKNOWN	17.40	18	J
000098-73-7	BENZOIC ACID, P-TERT-BUTYL-	17.58	9	JN
	UNKNOWN	17.66	5	J
000101-10-0	PROPANOIC ACID, 2-(3-CHLOROPHENOXY)	18.77	29	JN

VALIDATED

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW33
ACS-GWMW33-02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651104

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4071597_026.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:07/01/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/17/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
319-84-6	alpha-BHC		0.050	U
319-85-7	beta-BHC		0.050	U
319-86-8	delta-BHC		0.050	U
58-89-9	gamma-BHC (Lindane)		0.050	U
76-44-8	Heptachlor		0.050	U
309-00-2	Aldrin		0.050	U
1024-57-3	Heptachlor epoxide		0.050	U
959-98-8	Endosulfan I		0.050	U
60-57-1	Dieldrin		0.10	U
72-55-9	4,4'-DDE	UJ	0.10	U
72-20-8	Endrin	UJ	0.10	U
33213-65-9	Endosulfan II		0.10	U
72-54-8	4,4'-DDD	UJ	0.10	U
1031-07-8	Endosulfan sulfate		0.10	U
50-29-3	4,4'-DDT	UJ	0.10	U
72-43-5	Methoxychlor		0.50	U
53494-70-5	Endrin ketone	UJ	0.10	U
7421-93-4	Endrin aldehyde	UJ	0.10	U
5103-71-9	alpha-Chlordane		0.050	U
5103-74-2	gamma-Chlordane		0.050	U
8001-35-2	Toxaphene		5.0	U
12674-11-2	Aroclor-1016		1.0	U
11104-28-2	Aroclor-1221		2.0	U
11141-16-5	Aroclor-1232		1.0	U
53469-21-9	Aroclor-1242		1.0	U
12672-29-6	Aroclor-1248		1.0	U
11097-69-1	Aroclor-1254		1.0	U
11096-82-5	Aroclor-1260		1.0	U

VALIDATE

1E

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWMW33-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651104

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0701513.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: not dec. Date Analyzed: 07/01/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
109-87-5	DIMETHOXYMETHANE	5.48	24	JN
000075-65-0	2-PROPANOL, 2-METHYL-	6.78	16	JN
646-06-0	1,3-DIOXOLANE	9.26	10	JN
000109-99-9	FURAN, TETRAHYDRO-	9.63	140	JN
001072-47-5	1,3-DIOXOLANE, 4-METHYL-	11.04	10	JN
000123-91-1	1,4-DIOXANE	13.01	27	JN
000104-76-7	1-HEXANOL, 2-ETHYL-	24.06	12	JN

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW34-02 6-30-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704718

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0709J03.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: not dec. Date Analyzed: 07/09/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane	UJ	10	U
75-09-2	Methylene Chloride		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane	UJ	10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloroprop ne		10	U
79-01-6	Trichloroethene		10	U
124-48-1	Dibromochloromethane		10	U
79-00-5	1,1,2-Trichloroethane		10	U
71-43-2	Benzene		10	U
10061-02-6	Trans-1,3-Dichloropropene		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-88-3	Toluene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW34-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704718

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0708812.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	33	
111-44-4	Bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW34-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704718

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0708812.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	14	
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW34-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704718

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0708812.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	8.77	3	J
000104-76-7	1-HEXANOL, 2-ETHYL-	10.03	20	JN
	UNKNOWN	14.02	2	J
000087-41-2	1(3H)-ISOBENZOFURANONE	15.45	2	JN
000080-05-7	PHENOL, 4,4'-(1-METHYLETHYLI[illegible])	25.09	2	JN

FORM I SV-TIC

VALIDATED

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW34
ACS-GWMW34-02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704718

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4071597_045.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 07/01/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:07/03/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/18/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UC/L		Q
319-84-6	alpha-BHC		0.050	U
319-85-7	beta-BHC		0.050	U
319-86-8	delta-BHC		0.050	U
58-89-9	gamma-BHC (Lindane)		0.050	U
76-44-8	Heptachlor		0.050	U
309-00-2	Aldrin		0.050	U
1024-57-3	Heptachlor epoxide		0.050	U
959-98-8	Endosulfan I		0.050	U
60-57-1	Dieldrin		0.10	U
72-55-9	4,4'-DDE	UJ	0.10	U
72-20-8	Endrin	UJ	0.10	U
33213-65-9	Endosulfan II		0.10	U
72-54-8	4,4'-DDD	UJ	0.10	U
1031-07-8	Endosulfan sulfate		0.10	U
50-29-3	4,4'-DDT	UJ	0.10	U
72-43-5	Methoxychlor		0.50	U
53494-70-5	Endrin ketone	UJ	0.10	U
7421-93-4	Endrin aldehyde	UJ	0.10	U
5103-71-9	alpha-Chlordane		0.050	U
5103-74-2	gamma-Chlordane		0.050	U
8001-35-2	Toxaphene		5.0	U
12674-11-2	Aroclor-1016		1.0	U
11104-28-2	Aroclor-1221		2.0	U
11141-16-5	Aroclor-1232		1.0	U
53469-21-9	Aroclor-1242		1.0	U
12672-29-6	Aroclor-1248		1.0	U
11097-69-1	Aroclor-1254		1.0	U
11096-82-5	Aroclor-1260		1.0	U

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW34-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704718

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0709J03.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: not dec. Date Analyzed: 07/09/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW36-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 6/25/97 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647615

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0701106.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. Date Analyzed: 07/01/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW36-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647615

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0707803.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	120	
111-44-4	Bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
95-50-1	1,2-Dichlorobenzene	20	U
95-48-7	2-Methylphenol	20	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20	U
106-44-5	4-Methylphenol	20	U
621-64-7	N-Nitrosodi-N-Propylamine	20	U
67-72-1	Hexachloroethane	20	U
98-95-3	Nitrobenzene	20	U
78-59-1	Isophorone	20	U
88-75-5	2-Nitrophenol	20	U
105-67-9	2,4-Dimethylphenol	20	U
111-91-1	Bis(2-Chloroethoxy) Methane	20	U
120-83-2	2,4-Dichlorophenol	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
91-20-3	Naphthalene	20	U
106-47-8	4-Chloroaniline	20	U
87-68-3	Hexachlorobutadiene	20	U
59-50-7	4-Chloro-3-Methylphenol	20	U
91-57-6	2-Methylnaphthalene	20	U
77-47-4	Hexachlorocyclopentadiene	20	U
88-06-2	2,4,6-Trichlorophenol	20	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	20	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	20	U
208-96-8	Acenaphthylene	20	U
606-20-2	2,6-Dinitrotoluene	20	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	20	U

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW36-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647615

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0707803.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	20	U
121-14-2	2,4-Dinitrotoluene	20	U
84-66-2	Diethylphthalate	20	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
86-73-7	Fluorene	20	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine	20	U
101-55-3	4-Bromophenyl-phenylether	20	U
118-74-1	Hexachlorobenzene	20	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
86-74-8	Carbazole	20	U
84-74-2	Di-N-Butylphthalate	20	U
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	20	U
85-68-7	Butylbenzylphthalate	20	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(A)Anthracene	20	U
218-01-9	Chrysene	20	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	11	J
117-84-0	Di-N-Octylphthalate	20	U
205-99-2	Benzo(B)Fluoranthene	20	U
207-08-9	Benzo(K)Fluoranthene	20	U
50-32-8	Benzo(A)Pyrene	20	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	20	U
53-70-3	Dibenz(A,H)Anthracene	20	U
191-24-2	Benzo(G,H,I)Perylene	20	U

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW36-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647615

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0707803.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/97

Injection Volume: 2 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000104-76-7	1-HEXANOL, 2-ETHYL-	10.13	33	JN
	UNKNOWN ACID	11.68	41	J
000112-34-5	ETHANOL, 2-(2-BUTOXYETHOXY)-	12.92	29	JN
	UNKNOWN ACID	13.75	5	J
	UNKNOWN	14.16	9	J
000087-41-2	1(3H)-ISOBENZOFURANONE	15.59	5	JN
000080-05-7	PHENOL, 4,4'-(1-METHYLETHYLI	25.25	10	JN

VALIDATED

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW36
ACS-3WMW36-S2

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647615

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4070197_063.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/26/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:07/01/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWMW36-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647615

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0701106.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. Date Analyzed: 07/01/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICs Found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

VALIDATED

1A

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW50-02

Lab Name: IEA-NC Method: SOW 1/91

6/24/97

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644803

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0626105.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: not dec. Date Analyzed: 06/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane	UJ	10	U
75-09-2	Methylene Chloride		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane	UJ	10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
124-48-1	Dibromochloromethane		10	U
79-00-5	1,1,2-Trichloroethane		10	U
71-43-2	Benzene		10	U
10061-02-6	Trans-1,3-Dichloropropene		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-88-3	Toluene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW50-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644803

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0702808.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/03/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	18	
111-44-4	Bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

VALIDATED

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW50-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644803

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0702808.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/03/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	2	J
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW50-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644803

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0702808.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/26/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/03/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 9 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	9.01	2	J
	UNKNOWN	10.21	42	J
	UNKNOWN	11.67	32	J
000149-57-5	HEXANOIC ACID, 2-ETHYL-	11.96	7	JN
	UNKNOWN	14.02	4	J
	UNKNOWN	14.79	4	J
	UNKNOWN	17.23	8	J
000098-73-7	BENZOIC ACID, P-TERT-BUTYL-	17.57	2	JN
000101-10-0	PROPANOIC ACID, 2-(3-CHLOROP	18.83	2	JN

VALIDATED

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW50
ACS-GWMW50-02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644803

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P2070197_056.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/27/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/10/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

VALIDATED

VOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW51-02

DATE SAMPLED: 6/25/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970647912

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0627117.D

Level: (low/med) LOW Date Received: 06/26/97 (1)

% Moisture: not dec. Date Analyzed: 06/27/97 (2)

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane	UJ	10	U
75-09-2	Methylene Chloride		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane	UJ	10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
124-48-1	Dibromochloromethane		10	U
79-00-5	1,1,2-Trichloroethane		10	U
71-43-2	Benzene		10	U
10061-02-6	Trans-1,3-Dichloropropene		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		4	J
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-88-3	Toluene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

CLIENT SAMPLE

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW51-02

DATE SAMPLED: 6/25/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970647912

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 7021414.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/27/97 (2)

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/97 (6)

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER = 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q
108-95-2	Phenol	J	25	
111-44-4	Bis(2-Chloroethyl)Ether		10	U
95-57-8	2-Chlorophenol		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
95-48-7	2-Methylphenol		10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)		10	U
106-44-5	4-Methylphenol		10	U
621-64-7	N-Nitrosodi-N-Propylamine		10	U
67-72-1	Hexachloroethane	UJ	10	U
98-95-3	Nitrobenzene		10	U
78-59-1	Isophorone		10	U
88-75-5	2-Nitrophenol		10	U
105-67-9	2,4-Dimethylphenol		10	U
111-91-1	Bis(2-Chloroethoxy) Methane		10	U
120-83-2	2,4-Dichlorophenol		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U
91-20-3	Naphthalene		10	U
106-47-8	4-Chloroaniline		10	U
87-68-3	Hexachlorobutadiene	UJ	10	U
59-50-7	4-Chloro-3-Methylphenol		10	U
91-57-6	2-Methylnaphthalene		10	U
77-47-4	Hexachlorocyclopentadiene		10	U
88-06-2	2,4,6-Trichlorophenol		10	U
95-95-4	2,4,5-Trichlorophenol		25	U
91-58-7	2-Chloronaphthalene		10	U
88-74-4	2-Nitroaniline		25	U
131-11-3	Dimethylphthalate		10	U
208-96-8	Acenaphthylene		10	U
606-20-2	2,6-Dinitrotoluene		10	U
99-09-2	3-Nitroaniline		25	U
83-32-9	Acenaphthene		10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW51-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970647912

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 7021414.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/27/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	UJ 25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlcrophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW51-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970647912

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 7021414.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/27/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 19 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	7.91	JN 5	J
	Unknown	8.03	11	J
	Unknown	9.27	15	J
020324-32-7	2-PROPANOL, 1-(2-METHOXY-1-M	9.33	9	JN
	Unknown	9.53	7	J
	Unknown	9.57	16	J
	Unknown	9.68	28	J
	Unknown	9.72	7	J
	Unknown	9.80	8	J
	Unknown	9.92	7	J
	Unknown	10.05	5	J
	Unknown	11.17	8	J
	Unknown	11.52	5	J
	Unknown	13.26	6	J
	Unknown	14.19	8	J
	Unknown	15.09	24	J
	Unknown	15.73	20	J
	Unknown	16.63	5	J
	Unknown	18.14	13	J

→ 020324-32-7 2-PROPANOL, 1-(2-METHOXY-1-METHYLETHYL)

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
ACS-GWMW51-02

MW51

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 6/25/97

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970647912

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4070197_037.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/26/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 06/28/97 (3)

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/11/97 (13)

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
319-84-6	alpha-BHC		0.050	U
319-85-7	beta-BHC		0.050	U
319-86-8	delta-BHC		0.050	U
58-89-9	gamma-BHC (Lindane)		0.050	U
76-44-8	Heptachlor		0.050	U
309-00-2	Aldrin		0.050	U
1024-57-3	Heptachlor epoxide		0.050	U
959-98-8	Endosulfan I		0.050	U
60-57-1	Dieldrin		0.10	U
72-55-9	4,4'-DDE	UJ	0.10	U
72-20-8	Endrin	UJ	0.10	U
33213-65-9	Endosulfan II		0.10	U
72-54-8	4,4'-DDD	UJ	0.10	U
1031-07-8	Endosulfan sulfate		0.10	U
50-29-3	4,4'-DDT	UJ	0.10	U
72-43-5	Methoxychlor		0.50	U
53494-70-5	Endrin ketone	UJ	0.10	U
7421-93-4	Endrin aldehyde	UJ	0.10	U
5103-71-9	alpha-Chlordane		0.050	U
5103-74-2	gamma-Chlordane		0.050	U
8001-35-2	Toxaphene		5.0	U
12674-11-2	Aroclor-1016		1.0	U
11104-28-2	Aroclor-1221		2.0	U
11141-16-5	Aroclor-1232		1.0	U
53469-21-9	Aroclor-1242		1.0	U
12672-29-6	Aroclor-1248		1.0	U
11097-69-1	Aroclor-1254		1.0	U
11096-82-5	Aroclor-1260		1.0	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWMW51-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970647912

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0627117.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. Date Analyzed: 06/27/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000060-29-7	ETHER	4.10	3600	JN
	UNKNOWN HYDROCARBON	5.25	25	J
	UNKNOWN ALCOHOL	5.98	25	J
000109-99-9	FURAN, TETRAHYDRO-	8.83	96	JN
000123-91-1	1,4-DIOXANE	12.30	12	JN
	UNKNOWN ALCOHOL	23.53	7	J

VOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW52-02

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 6/25/97

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970647803

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0627108.D

Level: (low/med) LOW Date Received: 06/26/97 (1)

% Moisture: not dec. Date Analyzed: 06/27/97 (2)

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane	UJ	10	U
75-09-2	Methylene Chloride		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane	UJ	10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
124-48-1	Dibromochloromethane		10	U
79-00-5	1,1,2-Trichloroethane		10	U
71-43-2	Benzene		10	U
10061-02-6	Trans-1,3-Dichloropropene		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-88-3	Toluene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW52-02

DATE SAMPLED: 6/29/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970647803

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 7021405.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/27/97 (1)

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/97 (6)

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CRRL MULTIPLIER = 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/l	Q
108-95-2	Phenol	U	16	
111-44-4	Bis(2-Chloroethyl)Ether		10	U
95-57-8	2-Chlorophenol		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
95-48-7	2-Methylphenol		10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)		10	U
106-44-5	4-Methylphenol		10	U
621-64-7	N-Nitrosodi-N-Propylamine		10	U
67-72-1	Hexachloroethane	UJ	10	U
98-95-3	Nitrobenzene		10	U
78-59-1	Isophorone		10	U
88-75-5	2-Nitrophenol		10	U
105-67-9	2,4-Dimethylphenol		10	U
111-91-1	Bis(2-Chloroethoxy) Methane		10	U
120-83-2	2,4-Dichlorophenol		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U
91-20-3	Naphthalene		10	U
106-47-8	4-Chloroaniline		10	U
87-68-3	Hexachlorobutadiene	UJ	10	U
59-50-7	4-Chloro-3-Methylphenol		10	U
91-57-6	2-Methylnaphthalene		10	U
77-47-4	Hexachlorocyclopentadiene		10	U
88-06-2	2,4,6-Trichlorophenol		10	U
95-95-4	2,4,5-Trichlorophenol		25	U
91-58-7	2-Chloronaphthalene		10	U
88-74-4	2-Nitroaniline		25	U
131-11-3	Dimethylphthalate		10	U
208-96-8	Acenaphthylene		10	U
606-20-2	2,6-Dinitrotoluene		10	U
99-09-2	3-Nitroaniline		25	U
83-32-9	Acenaphthene		10	U

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW52-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970647803

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 7021405.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/27/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/l	Q
51-28-5	2,4-Dinitrophenol		25	U
100-02-7	4-Nitrophenol	UJ	25	U
132-64-9	Dibenzofuran		10	U
121-14-2	2,4-Dinitrotoluene		10	U
84-66-2	Diethylphthalate		10	U
7005-72-3	4-Chlorophenyl-phenylether		10	U
86-73-7	Fluorene		10	U
100-01-6	4-Nitroaniline		25	U
534-52-1	4,6-Dinitro-2-Methylphenol		25	U
86-30-6	N-Nitrosodiphenylamine		10	U
101-55-3	4-Bromophenyl-phenylether		10	U
118-74-1	Hexachlorobenzene		10	U
87-86-5	Pentachlorophenol		25	U
85-01-8	Phenanthrene		10	U
120-12-7	Anthracene		10	U
86-74-8	Carbazole		10	U
84-74-2	Di-N-Butylphthalate		10	U
206-44-0	Fluoranthene		10	U
129-00-0	Pyrene		10	U
85-68-7	Butylbenzylphthalate		10	U
91-94-1	3,3'-Dichlorobenzidine		10	U
56-55-3	Benzo(A)Anthracene		10	U
218-01-9	Chrysene		10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	U	39	
117-84-0	Di-N-Octylphthalate		10	U
205-99-2	Benzo(B)Fluoranthene		10	U
207-08-9	Benzo(K)Fluoranthene		10	U
50-32-8	Benzo(A)Pyrene		10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene		10	U
53-70-3	Dibenz(A,H)Anthracene		10	U
191-24-2	Benzo(G,H,I)Perylene		10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: ACS-GWMW52-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970647803

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 7021405.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/27/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 18 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	8.11	JN 5	J
	Unknown	9.26	14	J
	Unknown	9.33	16	J
	Unknown	9.51	10	J
	Dimethyl Benzene Isomer	9.67	7	J
	Unknown	9.75	7	J
	Unknown	9.92	4	J
	Unknown	11.00	8	J
	Unknown	11.49	4	J
	Unknown	11.56	3	J
	Unknown	13.25	4	J
	Unknown	13.41	13	J
	Unknown	13.88	4	J
	Unknown	14.17	4	J
	Unknown	15.05	10	J
	Unknown	15.70	13	J
	Unknown	16.73	3	J
	Unknown	23.11	V 4	J

PESTICIDE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW52-02

MW52

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 6/25/97

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

atrix: (soil/water) WATER Lab Sample ID: 970647803

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4070197_025.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/26/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 06/28/97 (3)

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/10/97 (13)

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
319-84-6	alpha-BHC		0.050	U
319-85-7	beta-BHC		0.050	U
319-86-8	delta-BHC		0.050	U
58-89-9	gamma-BHC (Lindane)		0.050	U
76-44-8	Heptachlor		0.050	U
309-00-2	Aldrin		0.050	U
1024-57-3	Heptachlor epoxide		0.050	U
959-98-8	Endosulfan I		0.050	U
60-57-1	Dieldrin		0.10	U
72-55-9	4,4'-DDE	UJ	0.10	U
72-20-8	Endrin	UJ	0.10	U
33213-65-9	Endosulfan II		0.10	U
72-54-8	4,4'-DDD	UJ	0.10	U
1031-07-8	Endosulfan sulfate		0.10	U
50-29-3	4,4'-DDT	UJ	0.10	U
72-43-5	Methoxychlor		0.50	U
53494-70-5	Endrin ketone	UJ	0.10	U
7421-93-4	Endrin aldehyde	UJ	0.10	U
5103-71-9	alpha-Chlordane		0.050	U
5103-74-2	gamma-Chlordane		0.050	U
8001-35-2	Toxaphene		5.0	U
12674-11-2	Aroclor-1016		1.0	U
11104-28-2	Aroclor-1221		2.0	U
11141-16-5	Aroclor-1232		1.0	U
53469-21-9	Aroclor-1242		1.0	U
12672-29-6	Aroclor-1248		1.0	U
11097-69-1	Aroclor-1254		1.0	U
11096-82-5	Aroclor-1260		1.0	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWMW52-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970647803

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0627108.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. Date Analyzed: 06/27/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000060-29-7	ETHER	4.11	JN 3000	JN
	UNKNOWN ALCOHOL	5.99	19	J
000109-99-9	FURAN, TETRAHYDRO-	8.85	80	JN
000123-91-1	1,4-DIOXANE	12.29	10	JN

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW53-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 6/25/97 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647618

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0706104.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. Date Analyzed: 07/06/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	16	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	1	J
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW53-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647618

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703813.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/04/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	50	
111-44-4	Bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW53-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647618

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703813.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/04/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	17	
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW53-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647618

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703813.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/04/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 8

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
020324-32-7	2-PROPANOL, 1-(2-METHOXY-1-M	9.83	20	JN
	UNKNOWN	11.56	26	J
	UNKNOWN	11.63	23	J
	UNKNOWN	12.32	430	J
	UNKNOWN	13.25	20	J
	UNKNOWN	13.58	22	J
	UNKNOWN	16.05	16	J
000101-10-0	PROPANOIC ACID, 2-(3-CHLOROP	19.00	28	JN

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW53
ACS-GWMW53-02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647618

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4070197_066.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/26/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:07/01/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWMW53-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647618

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0706104.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. Date Analyzed: 07/06/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN HYDROCARBON	4.70	18	J
000075-65-0	2-PROPANOL, 2-METHYL-	5.98	24	JN
	UNKNOWN HYDROCARBON	8.45	7	J
000109-99-9	FURAN, TETRAHYDRO-	8.83	13	JN
001072-47-5	1,3-DIOXOLANE, 4-METHYL-	10.28	8	JN
000123-91-1	1,4-DIOXANE	12.29	40	JN

VALIDATED

VOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW54-02

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 6/25/97

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970647802

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0627107.D

Level: (low/med) LOW Date Received: 06/26/97 (1)

% Moisture: not dec. Date Analyzed: 06/27/97 (2)

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/l	Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane	UJ	10	U
75-09-2	Methylene Chloride		10	U
67-64-1	Acetone	104	10	
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane	UJ	10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
124-48-1	Dibromochloromethane		10	U
79-00-5	1,1,2-Trichloroethane		10	U
71-43-2	Benzene		10	U
10061-02-6	Trans-1,3-Dichloropropene		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-88-3	Toluene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW54-02

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 6/25/97

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970647802

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 7021415.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/27/97 (2)

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/97 (2)

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER = 2.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	J 82	
111-44-4	Bis(2-Chloroethyl)Ether	20	U
95-57-8	2-Chlorophenol	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
95-50-1	1,2-Dichlorobenzene	20	U
95-48-7	2-Methylphenol	20	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	20	U
106-44-5	4-Methylphenol	20	U
621-64-7	N-Nitrosodi-N-Propylamine	20	U
67-72-1	Hexachloroethane	UJ 20	U
98-95-3	Nitrobenzene	20	U
78-59-1	Isophorone	20	U
88-75-5	2-Nitrophenol	20	U
105-67-9	2,4-Dimethylphenol	20	U
111-91-1	Bis(2-Chloroethoxy) Methane	20	U
120-83-2	2,4-Dichlorophenol	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U
91-20-3	Naphthalene	20	U
106-47-8	4-Chloroaniline	20	U
87-68-3	Hexachlorobutadiene	UJ 20	U
59-50-7	4-Chloro-3-Methylphenol	20	U
91-57-6	2-Methylnaphthalene	20	U
77-47-4	Hexachlorocyclopentadiene	20	U
88-06-2	2,4,6-Trichlorophenol	20	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	20	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	20	U
208-96-8	Acenaphthylene	20	U
606-20-2	2,6-Dinitrotoluene	20	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	20	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW54-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970647802

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 7021415.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/27/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/97

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/l	Q
51-28-5	2,4-Dinitrophenol		50	U
100-02-7	4-Nitrophenol	UJ	50	U
132-64-9	Dibenzofuran		20	U
121-14-2	2,4-Dinitrotoluene		20	U
84-66-2	Diethylphthalate		20	U
7005-72-3	4-Chlorophenyl-phenylether		20	U
86-73-7	Fluorene		20	U
100-01-6	4-Nitroaniline		50	U
534-52-1	4,6-Dinitro-2-Methylphenol		50	U
86-30-6	N-Nitrosodiphenylamine		20	U
101-55-3	4-Bromophenyl-phenylether		20	U
118-74-1	Hexachlorobenzene		20	U
87-86-5	Pentachlorophenol		50	U
85-01-8	Phenanthrene		20	U
120-12-7	Anthracene		20	U
86-74-8	Carbazole		20	U
84-74-2	Di-N-Butylphthalate		20	U
206-44-0	Fluoranthene		20	U
129-00-0	Pyrene		20	U
85-68-7	Butylbenzylphthalate		20	U
91-94-1	3,3'-Dichlorobenzidine		20	U
56-55-3	Benzo(A)Anthracene		20	U
218-01-9	Chrysene		20	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	BMU	39	
117-84-0	Di-N-Octylphthalate		20	U
205-99-2	Benzo(B)Fluoranthene		20	U
207-08-9	Benzo(K)Fluoranthene		20	U
50-32-8	Benzo(A)Pyrene		20	U
193-39-5	Indeno(1,2,3-Cd)Pyrene		20	U
53-70-3	Dibenz(A,H)Anthracene		20	U
191-24-2	Benzo(G,H,I)Perylene		20	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW54-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970647802

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 7021415.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/27/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/97

Injection Volume: 2 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 6 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	Unknown	7.86	9	J
	Unknown	9.91	9	J
	Unknown	11.10	49	J
000149-57-5	HEXANOIC ACID, 2-ETHYL-	11.39	13	JN
	Unknown	13.90	6	J
	Substituted Benzene Isomer	16.86	13	J

PESTICIDE ORGANICS ANALYSIS DATA SHEET

ACS-GWMW54-02

MW54

DATE SAMPLED: 6/25/97

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970647802

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4070197_024.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/26/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 06/28/97 (2)

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/10/97 (13)

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWMW54-02

Lab Name: IEA-NC   Method: SOW 1/91

Lab Code: IEA   Case No.: 2240-056   SDG No.: 06478

Matrix: (soil/water) WATER   Lab Sample ID: 970647802

Sample wt/vol: 5 (g/mL) ml   Lab File ID: 0627107.D

Level: (low/med) LOW   Date Received: 06/26/97

% Moisture: not dec.   Date Analyzed: 06/27/97

GC Column: DB-624 ID: 0.53(mm)   Dilution Factor: 1.0

Soil Extract Volume: (uL)   Soil Aliquot Volume: (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW55-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 6/25/97 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647720

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0706106.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. Date Analyzed: 07/06/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW55-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647720

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0707805.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW55-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647720

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0707805.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	40	
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWMW55-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647720

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0707805.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN HYDROCARBON	10.14	13	J
	UNKNOWN	11.48	11	J
	UNKNOWN	13.77	3	J
	UNKNOWN	14.19	8	J
	UNKNOWN	14.32	3	J
000098-73-7	BENZOIC ACID, P-TERT-BUTYL-	17.44	6	JN

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

MW55
HCS-GWMW55-02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647720

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4070197_068.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/26/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:07/01/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/12/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWMW55-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647720

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0706106.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. Date Analyzed: 07/06/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

APPENDIX D

LABORATORY ANALYTICAL DATA
LOWER AQUIFER – INORGANICS

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

AC5-GWMW4D-02
6-26-97

Lab Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

Lab Code: IEA___ Case No:2240_059___ SAS No.: _____ SDG No.: 06511_

Matrix (soil/water): WATER Lab Sample ID: 970651102

Level (low/med): LOW__ Date Received: 06/27/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	U 247			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	179	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	84100			P
7440-47-3	Chromium	U 2.7	B		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	U 4.3	B		P
7439-89-6	Iron	1700			P
7439-92-1	Lead	U 2.1	B		P
7439-95-4	Magnesium	39800			P
7439-96-5	Manganese	34.1			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	U 2.5	B		P
7440-09-7	Potassium	UJ 4880	B	E	P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	71700			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	U 18.8	B		P
	Cyanide	10.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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EPA SAMPLE NO.

INORGANIC ANALYSES DATA SHEET

~~MW07~~ ACS-GWMW07-02

b Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

ode: IEA___ Case No:2240_054___ SAS No.: _____ SDG No.: 06448_

trix (soil/water): WATER Lab Sample ID: 970645011

vel (low/med): LOW__ Date Received: 06/25/97

Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	~~1030~~			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	~~120~~	~~B~~		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	~~97000~~		E	P
7440-47-3	Chromium	~~10.4~~			P
7440-48-4	Cobalt	~~1.5~~	~~B~~		P
7440-50-8	Copper	~~7.2~~	~~B~~		P
7439-89-6	Iron	~~4650~~			P
7439-92-1	Lead	~~3.0~~			P
7439-95-4	Magnesium	~~29100~~			P
7439-96-5	Manganese	~~195~~			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	~~14.4~~	~~B~~		P
7440-09-7	Potassium	~~2120~~	~~B~~		P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	~~19000~~			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	~~2.2~~	~~B~~		P
7440-66-6	Zinc	~~21.7~~			P
	Cyanide	10.0	U		CA

lor Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

lor After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

mments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW08
Acs-GWmW08-02

Lab Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

[Code: IEA___ Case No:2240_054___ SAS No.: _____ SDG No.: 06448_

Matrix (soil/water): WATER Lab Sample ID: 970645009

Level (low/med): LOW__ Date Received: 06/25/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	U 97.0	B		P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	~~5.1~~	~~B~~		P
7440-39-3	Barium	~~126~~	~~B~~		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	~~58000~~		~~E~~	P
7440-47-3	Chromium	~~3.4~~	~~B~~		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	~~1.5~~	~~B~~		P
7439-89-6	Iron	~~3080~~			P
7439-92-1	Lead	U 2.7	B		P
7439-95-4	Magnesium	~~17100~~			P
7439-96-5	Manganese	~~175~~			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	~~2.5~~	~~B~~		P
7440-09-7	Potassium	~~1200~~	~~B~~		P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	~~12000~~			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	U 8.0	B		P
_____	Cyanide	10.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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VALIDATED

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW092-02
MW92
6-30-97

Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

Lab Code: IEA___ Case No:2240_059___ SAS No.: _____ SDG No.: 06511_

Matrix (soil/water): WATER Lab Sample ID: 970704719

Level (low/med): LOW__ Date Received: 07/01/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	U 61.4	B		P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.5	B		P
7440-39-3	Barium	331			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	149000			P
7440-47-3	Chromium	U 2.0	B		P
7440-48-4	Cobalt	5.3	B		P
7440-50-8	Copper	1.0	U		P
7439-89-6	Iron	15400			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	25600			P
7439-96-5	Manganese	181			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	U 3.7	B		P
7440-09-7	Potassium	UJ 11300		E	P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	68700			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	3.8	B		P
7440-66-6	Zinc	U 8.6	B		P
	Cyanide	10.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW09-92
MW99
6-30-97

Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

Lab Code: IEA___ Case No:2240_059___ SAS No.: _____ SDG No.: 06511_

Matrix (soil/water): WATER Lab Sample ID: 970704720

Level (low/med): LOW__ Date Received: 07/01/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	U 43.8	B		P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.4	B		P
7440-39-3	Barium	330			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	155000			P
7440-47-3	Chromium	U 2.4	B		P
7440-48-4	Cobalt	5.4	B		P
7440-50-8	Copper	U 1.3	B		P
7439-89-6	Iron	15900			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	25900			P
7439-96-5	Manganese	186			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	U 4.2	B		P
7440-09-7	Potassium	UJ 11000		E	P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	68800			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	3.7	B		P
7440-66-6	Zinc	U 7.3	B		P
	Cyanide	10.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

VALIDATED

EPA SAMPLE NO.

INORGANIC ANALYSES DATA SHEET

ACS GWMW10CDZ 6-26-97

Lab Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

Lab Code: IEA___ Case No:2240_059___ SAS No.: _____ SDG No.: 06511_

Matrix (soil/water): WATER Lab Sample ID: 970651210

Level (low/med): LOW__ Date Received: 06/27/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3560			P
7440-36-0	Antimony	3.6	B		P
7440-38-2	Arsenic	3.4	B		P
7440-39-3	Barium	339			P
7440-41-7	Beryllium	1.1	B		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	130,000			P
7440-47-3	Chromium	26.6			P
7440-48-4	Cobalt	4.4	B		P
7440-50-8	Copper	u 10.9	B		P
7439-89-6	Iron	12700			P
7439-92-1	Lead	10.1			P
7439-95-4	Magnesium	59400			P
7439-96-5	Manganese	264			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	u 26.1	B		P
7440-09-7	Potassium	uJ 6770		E	P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	163000			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	7.9	B		P
7440-66-6	Zinc	75.2			P
	Cyanide	10.0	U		CA

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

VALIDATED

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWMW10C-9Z
MW10C9
6-26-97

Lab Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

Lab Code: IEA___ Case No:2240_059___ SAS No.: _____ SDG No.: 06511_

Matrix (soil/water): WATER Lab Sample ID: 970651211

Level (low/med): LOW__ Date Received: 06/27/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3510			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.9	B		P
7440-39-3	Barium	344			P
7440-41-7	Beryllium	1.4	B		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	133000			P
7440-47-3	Chromium	31.4			P
7440-48-4	Cobalt	5.0	B		P
7440-50-8	Copper	12.6	B		P
7439-89-6	Iron	13200			P
7439-92-1	Lead	12.1			P
7439-95-4	Magnesium	61000			P
7439-96-5	Manganese	310			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	u 29.5	B		P
7440-09-7	Potassium	UJ 6650		E	P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	162000			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	8.1	B		P
7440-66-6	Zinc	89.4			P
	Cyanide	10.0	U		CA

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

VALIDATED

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW21
AQS-GWMW21-02

Lab Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

Lab Code: IEA___ Case No:2240_054___ SAS No.: _____ SDG No.: 06448_

Matrix (soil/water): WATER Lab Sample ID: 970647617

Level (low/med): LOW__ Date Received: 06/26/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	U 82.3	B		P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	[illegible]	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	[illegible]	E		P
7440-47-3	Chromium	[illegible]	B		P
7440-48-4	Cobalt	[illegible]	B		P
7440-50-8	Copper	[illegible]	B		P
7439-89-6	Iron	[illegible]			P
7439-92-1	Lead	U 1.8	B		P
7439-95-4	Magnesium	[illegible]			P
7439-96-5	Manganese	[illegible]			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	[illegible]			P
7440-09-7	Potassium	[illegible]	B		P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	[illegible]			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	U 16.5	B		P
	Cyanide	10.0	U		CA

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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VALIDATED

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW22
ACS-GWMW22-02

Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

Lab Code: IEA___ Case No:2240_064___ SAS No.: _____ SDG No.: 07050_

Matrix (soil/water): WATER Lab Sample ID: 970705405

Level (low/med): LOW__ Date Received: 07/01/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	[redacted]			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	[redacted]			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	[redacted]			P
7440-47-3	Chromium	[redacted]			P
7440-48-4	Cobalt	[redacted]			P
7440-50-8	Copper	[redacted]	U		P
7439-89-6	Iron	[redacted]			P
7439-92-1	Lead	[redacted]			P
7439-95-4	Magnesium	[redacted]			P
7439-96-5	Manganese	[redacted]			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	[redacted]			P
7440-09-7	Potassium	[redacted]			P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	[redacted]			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	[redacted]	U		P
_____	Cyanide	10.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW22
ACS-GW-MW22-07

ab Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

Code: IEA___ Case No:2240_064___ SAS No.: _____ SDG No.: 07050_

atrix (soil/water): WATER Lab Sample ID: 970705405

evel (low/med): LOW__ Date Received: 07/01/97

Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	[redacted]			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	[redacted]			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	[redacted]			P
7440-47-3	Chromium	[redacted]			P
7440-48-4	Cobalt	[redacted]			P
7440-50-8	Copper	[redacted]			P
7439-89-6	Iron	[redacted]			P
7439-92-1	Lead	[redacted]			P
7439-95-4	Magnesium	[redacted]			P
7439-96-5	Manganese	[redacted]			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	[redacted]			P
7440-09-7	Potassium	[redacted]			P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	[redacted]			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	[redacted]			P
_____	Cyanide	10.0	U		CA

olor Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

olor After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

omments:

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VALIDATED 3/90

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW2302
ACS-GWMW23-02

Lab Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

Lab Code: IEA___ Case No:2240_054___ SAS No.: _____ SDG No.: 06448_

Matrix (soil/water): WATER Lab Sample ID: 970644807

Level (low/med): LOW__ Date Received: 06/25/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	~~2520~~			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	~~116~~	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	~~72600~~		E	P
7440-47-3	Chromium	~~7.4~~	B		P
7440-48-4	Cobalt	~~4.3~~	B		P
7440-50-8	Copper	~~4.1~~	B		P
7439-89-6	Iron	~~5190~~			P
7439-92-1	Lead	U 3.1			P
7439-95-4	Magnesium	~~18800~~			P
7439-96-5	Manganese	~~249~~			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	~~5.2~~	B		P
7440-09-7	Potassium	~~3160~~	B		P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	~~68000~~			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	~~2.4~~	B		P
7440-66-6	Zinc	U 11.6	B		P
_____	Cyanide	10.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW2392
ACS GWMW23-97

ab Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

Code: IEA___ Case No:2240_054___ SAS No.: _____ SDG No.: 06448_

atrix (soil/water): WATER Lab Sample ID: 970644806

evel (low/med): LOW__ Date Received: 06/25/97

Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	~~278~~			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	~~119~~	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	~~72100~~		E	P
7440-47-3	Chromium	~~3.1~~	B		P
7440-48-4	Cobalt	~~1.2~~	B		P
7440-50-8	Copper	1.0	U		P
7439-89-6	Iron	~~5370~~			P
7439-92-1	Lead	u 1.3	B		P
7439-95-4	Magnesium	~~10900~~			P
7439-96-5	Manganese	~~241~~			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	~~3.0~~	B		P
7440-09-7	Potassium	~~3210~~	B		P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	~~65900~~			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	~~2.1~~	B		P
7440-66-6	Zinc	u 8.3	B		P
	Cyanide	10.0	U		CA

olor Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

olor After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

omments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW24
MCS-GWMW24-02

ab Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

a. Code: IEA___ Case No:2240_054___ SAS No.: _____ SDG No.: 06448_

atrix (soil/water): WATER Lab Sample ID: 970645012

evel (low/med): LOW__ Date Received: 06/25/97

Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	[redacted]			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	[redacted]			P
7440-39-3	Barium	[redacted]			P
7440-41-7	Beryllium	[redacted]	B		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	[redacted]		E	P
7440-47-3	Chromium	[redacted]			P
7440-48-4	Cobalt	[redacted]	B		P
7440-50-8	Copper	[redacted]			P
7439-89-6	Iron	[redacted]			P
7439-92-1	Lead	[redacted]			P
7439-95-4	Magnesium	[redacted]			P
7439-96-5	Manganese	[redacted]			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	[redacted]			P
7440-09-7	Potassium	[redacted]			P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	[redacted]			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	[redacted]			P
7440-66-6	Zinc	[redacted]			P
	Cyanide	10.0	U		CA

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW28
ACS-GWMW 28-02

ab Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

Code: IEA___ Case No:2240_054___ SAS No.: _____ SDG No.: 06448_

atrix (soil/water): WATER Lab Sample ID: 970644805

evel (low/med): LOW__ Date Received: 06/25/97

Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	[redacted]			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	[redacted]	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	[redacted]	E		P
7440-47-3	Chromium	[redacted]			P
7440-48-4	Cobalt	[redacted]			P
7440-50-8	Copper	[redacted]			P
7439-89-6	Iron	[redacted]			P
7439-92-1	Lead	4.6			P
7439-95-4	Magnesium	[redacted]			P
7439-96-5	Manganese	[redacted]			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	[redacted]			P
7440-09-7	Potassium	2220	B		P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	[redacted]			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	[redacted]			P
7440-66-6	Zinc	[redacted]			P
	Cyanide	10.0	U		CA

lor Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

lor After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

mments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GW MW29-02 6-30-97

Lab Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

Lab Code: IEA___ Case No:2240_059___ SAS No.: _____ SDG No.: 06511_

Matrix (soil/water): WATER Lab Sample ID: 970704717

Level (low/med): LOW__ Date Received: 07/01/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	635			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	140	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	115000			P
7440-47-3	Chromium	24.0			P
7440-48-4	Cobalt	2.6	B		P
7440-50-8	Copper	15.3	B		P
7439-89-6	Iron	7410			P
7439-92-1	Lead	U 2.4	B		P
7439-95-4	Magnesium	55700			P
7439-96-5	Manganese	118			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	U 29.0	B		P
7440-09-7	Potassium	UJ 3580	B	E	P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	76100			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	1.8	B		P
7440-66-6	Zinc	U 22.1			P
[redacted]	Cyanide	10.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GW MW30-02
6-26-97

Lab Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

Lab Code: IEA___ Case No:2240_059___ SAS No.: _____ SDG No.: 06511_

Matrix (soil/water): WATER Lab Sample ID: 970651209

Level (low/med): LOW__ Date Received: 06/27/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	277			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	197	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	90500			P
7440-47-3	Chromium	U 7.9	B		P
7440-48-4	Cobalt	3.7	B		P
7440-50-8	Copper	U 3.7	B		P
7439-89-6	Iron	3900			P
7439-92-1	Lead	U 1.6	B		P
7439-95-4	Magnesium	45300			P
7439-96-5	Manganese	50.9			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	U 8.5	B		P
7440-09-7	Potassium	US 2780	B	E	P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	33400			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	U 17.3	B		P
_____	Cyanide	10.0	U		CA

Color Before: COLORLESS Clarity Before: CLOUDY Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW31
ACS-GWmw31-02

ab Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

a_ Code: IEA___ Case No:2240_054___ SAS No.: _____ SDG No.: 06448_

atrix (soil/water): WATER Lab Sample ID: 970647616

evel (low/med): LOW__ Date Received: 06/26/97

Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	[illegible]			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	[illegible]	B		P
7440-39-3	Barium	[illegible]			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	[illegible]		E	P
7440-47-3	Chromium	[illegible]			P
7440-48-4	Cobalt	[illegible]	B		P
7440-50-8	Copper	[illegible]	B		P
7439-89-6	Iron	[illegible]			P
7439-92-1	Lead	[illegible]			P
7439-95-4	Magnesium	[illegible]			P
7439-96-5	Manganese	[illegible]			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	[illegible]	B		P
7440-09-7	Potassium	[illegible]	B		P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	[illegible]			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	[illegible]			P
7440-66-6	Zinc	[illegible]			P
_____	Cyanide	10.0	U		CA

olor Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

olor After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

omments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW32
ACS-GWmw3202

ab Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

ab Code: IEA___ Case No:2240_054___ SAS No.: _____ SDG No.: 06448_

atrix (soil/water): WATER Lab Sample ID: 970645010

evel (low/med): LOW__ Date Received: 06/25/97

Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	[redacted]			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	[redacted]	B		P
7440-39-3	Barium	[redacted]			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	[redacted]		E	P
7440-47-3	Chromium	[redacted]			P
7440-48-4	Cobalt	[redacted]	B		P
7440-50-8	Copper	[redacted]			P
7439-89-6	Iron	[redacted]			P
7439-92-1	Lead	[redacted]			P
7439-95-4	Magnesium	[redacted]			P
7439-96-5	Manganese	[redacted]			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	[redacted]			P
7440-09-7	Potassium	[redacted]	B		P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	[redacted]			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	[redacted]	B		P
7440-66-6	Zinc	[redacted]			P
_____	Cyanide	10.0	U		CA

olor Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

olor After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

omments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GAMW33-02
6-26-97

Lab Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

Lab Code: IEA___ Case No:2240_059___ SAS No.: _____ SDG No.: 06511_

Matrix (soil/water): WATER Lab Sample ID: 970651104

Level (low/med): LOW__ Date Received: 06/27/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	U 153	B		P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	18.5			P
7440-39-3	Barium	1200			P
7440-41-7	Beryllium	1.0	B		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	273000			P
7440-47-3	Chromium	U 5.8	B		P
7440-48-4	Cobalt	3.0	B		P
7440-50-8	Copper	U 8.6	B		P
7439-89-6	Iron	25300			P
7439-92-1	Lead	U 1.3	B		P
7439-95-4	Magnesium	63000			P
7439-96-5	Manganese	102			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	U 18.0	B		P
7440-09-7	Potassium	UJ 15800		E	P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	179000			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	U 26.8			P
	Cyanide	10.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GW MW34-02
6-30-97

Lab Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

Lab Code: IEA___ Case No:2240_059___ SAS No.: _____ SDG No.: 06511_

Matrix (soil/water): WATER Lab Sample ID: 970704718

Level (low/med): LOW__ Date Received: 07/01/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	384			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	176	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	85700			P
7440-47-3	Chromium	#=nH 37.9			P
7440-48-4	Cobalt	1.4	B		P
7440-50-8	Copper	23.8	B		P
7439-89-6	Iron	4320			P
7439-92-1	Lead	U 3.8			P
7439-95-4	Magnesium	49500			P
7439-96-5	Manganese	55.5			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	U 33.7	B		P
7440-09-7	Potassium	UJ 4820	B	E	P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	35200			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	U 29.6			P
	Cyanide	10.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW36
HCS-GWMW 36-02

ıb Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

ıL Code: IEA___ Case No:2240_054___ SAS No.: _____ SDG No.: 06448_

ıtrix (soil/water): WATER Lab Sample ID: 970647615

ɜvel (low/med): LOW__ Date Received: 06/26/97

Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	[redacted]			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	[redacted]			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	[redacted]			P
7440-47-3	Chromium	[redacted]			P
7440-48-4	Cobalt	[redacted]			P
7440-50-8	Copper	[redacted]			P
7439-89-6	Iron	[redacted]			P
7439-92-1	Lead	[redacted]			P
7439-95-4	Magnesium	[redacted]			P
7439-96-5	Manganese	[redacted]			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	[redacted]			P
7440-09-7	Potassium	[redacted]			P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	[redacted]			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	[redacted]			P
7440-66-6	Zinc	[redacted]			P
	Cyanide	10.0	U		CA

ılor Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

lor After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

mments:

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VALIDATED

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW50
ACS-GWMW50-02

Lab Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

Lab Code: IEA___ Case No:2240_054___ SAS No.: _____ SDG No.: 06448_

Matrix (soil/water): WATER Lab Sample ID: 970644803

Level (low/med): LOW__ Date Received: 06/25/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	[redacted]			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	[redacted]			P
7440-41-7	Beryllium	[redacted]			P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	[redacted]		E	P
7440-47-3	Chromium	[redacted]			P
7440-48-4	Cobalt	[redacted]			P
7440-50-8	Copper	[redacted]			P
7439-89-6	Iron	[redacted]			P
7439-92-1	Lead	4 4.3			P
7439-95-4	Magnesium	[redacted]			P
7439-96-5	Manganese	[redacted]			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	[redacted]			P
7440-09-7	Potassium	[redacted]			P
7782-49-2	Selenium	2.3	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	[redacted]			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	[redacted]			P
7440-66-6	Zinc	4 16.9	B		P
_____	Cyanide	10.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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VALIDATED

INORGANIC ANALYSES DATA SHEET

MW51
ACS-GWMW51-02

b Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

b Code: IEA___ Case No:2240_056___ SAS No.: _____ SDG No.: 06478_

trix (soil/water): WATER Lab Sample ID: 970647912

vel (low/med): LOW__ Date Received: 06/26/97

Solids: __0.0 6/25/97

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	362			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	386		E	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	137000		E	P
7440-47-3	Chromium	4.6	B		P
7440-48-4	Cobalt	1.2	B		P
7440-50-8	Copper	4.4	B		P
7439-89-6	Iron	6590		E	P
7439-92-1	Lead	2.1	B		P
7439-95-4	Magnesium	61800		E	P
7439-96-5	Manganese	89.4		E	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	5.9	B		P
7440-09-7	Potassium	3710	B	E	P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	103000		E	P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	11.9	B		P
_____	Cyanide	10.0	U		CA

lor Before: COLORLESS Clarity Before: CLOUDY Texture: _____

lor After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

mments:

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INORGANIC ANALYSES DATA SHEET

MW52
ACS-GWMW52-02

Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

Code: IEA___ Case No:2240_056___ SAS No.: _____ SDG No.: 06478_

Matrix (soil/water): WATER Lab Sample ID: 970647803

Level (low/med): LOW__ Date Received: 06/26/97

6/25/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1360			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	70.8			P
7440-39-3	Barium	308		E	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	113000		E	P
7440-47-3	Chromium	15.4			P
7440-48-4	Cobalt	2.8	B		P
7440-50-8	Copper	7.6	B		P
7439-89-6	Iron	6820		E	P
7439-92-1	Lead	3.8			P
7439-95-4	Magnesium	43300		E	P
7439-96-5	Manganese	222		E	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	17.3	B		P
7440-09-7	Potassium	3990	B	E	P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	138000		E	P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	2.9	B		P
7440-66-6	Zinc	21.2			P
_____	Cyanide	10.0	U		CA

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW53
HCS-GWMW 53-02

Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

Lab Code: IEA___ Case No:2240_054___ SAS No.: _____ SDG No.: 06448_

Matrix (soil/water): WATER Lab Sample ID: 970647618

Level (low/med): LOW__ Date Received: 06/26/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	[redacted]			P
7440-36-0	Antimony	[redacted]			P
7440-38-2	Arsenic	[redacted]			P
7440-39-3	Barium	[redacted]			P
7440-41-7	Beryllium	[redacted]	B		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	[redacted]		E	P
7440-47-3	Chromium	[redacted]			P
7440-48-4	Cobalt	[redacted]			P
7440-50-8	Copper	[redacted]			P
7439-89-6	Iron	[redacted]			P
7439-92-1	Lead	[redacted]			P
7439-95-4	Magnesium	[redacted]			P
7439-96-5	Manganese	[redacted]			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	[redacted]			P
7440-09-7	Potassium	[redacted]			P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	[redacted]			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	[redacted]			P
7440-66-6	Zinc	[redacted]			P
_____	Cyanide	10.0	U		CA
_____					

Color Before: BROWN____ Clarity Before: CLOUDY Texture: _____

Color After: YELLOW___ Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

MW54
ACS-GWMW54-02

b Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

b Code: IEA___ Case No:2240_056___ SAS No.: _____ SDG No.: 06478_

trix (soil/water): WATER Lab Sample ID: 970647802

vel (low/med): LOW__ Date Received: 06/26/97

Solids: __0.0 6/25/97

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1860			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	5.3	B		P
7440-39-3	Barium	149	B	E	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	123000		E	P
7440-47-3	Chromium	23.6			P
7440-48-4	Cobalt	1.8	B		P
7440-50-8	Copper	42.1			P
7439-89-6	Iron	4270		E	P
7439-92-1	Lead	10.4			P
7439-95-4	Magnesium	51900		E	P
7439-96-5	Manganese	163		E	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	23.3	B		P
7440-09-7	Potassium	2950	B	E	P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	19400		E	P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	3.3	B		P
7440-66-6	Zinc	128			P
	Cyanide	10.0	U		CA

lor Before: BROWN____ Clarity Before: CLOUDY Texture: _____

lor After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

mments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MW55
HCS-GWMW55-02

Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

Code: IEA___ Case No:2240_054___ SAS No.: _____ SDG No.: 06448_

rix (soil/water): WATER Lab Sample ID: 970647720

el (low/med): LOW__ Date Received: 06/26/97

olids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	[redacted]			P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	[redacted]	B		P
7440-39-3	Barium	[redacted]	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	[redacted]		E	P
7440-47-3	Chromium	[redacted]			P
7440-48-4	Cobalt	[redacted]			P
7440-50-8	Copper	[redacted]	B		P
7439-89-6	Iron	[redacted]			P
7439-92-1	Lead	[redacted]			P
7439-95-4	Magnesium	[redacted]			P
7439-96-5	Manganese	[redacted]			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	[redacted]	B		P
7440-09-7	Potassium	[redacted]			P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	[redacted]			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	[redacted]	B		P
7440-66-6	Zinc	[redacted]			P
_____	Cyanide	10.0	U		CA

lor Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

lor After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

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APPENDIX E

DATA VALIDATION SUMMARIES

DATA QUALITY CONTROL SUMMARY
June 1997 Sampling Round
ACS Site
Griffith Indiana

SUMMARY OF DATA QUALIFIER DEFINITIONS

Laboratory qualified data are flagged by the performing laboratory. Data may be further qualified by Montgomery Watson personnel during the data validation process. Data qualifiers are letter or symbol codes as outlined below. If data are qualified, the qualifiers are presented with results. On the Form I's the data validation qualifiers are handwritten to the left of the result.

Laboratory Qualifier Definitions

The following qualifiers were used by laboratories performing the various analyses. The qualifiers defined below are presented in the "LQ" column adjacent to the result. Note: all possible relevant qualifiers potentially used by the laboratory for metals, VOC, SVOC and Pesticide/PCB analysis are included here for reference, whether they apply to these specific results or not.

The laboratory-provided qualifiers will include:

- Non-detects
- Concentration below required detection limit
- Estimated concentration due to poor QC data
- Concentration of chemical also found in the laboratory blank.

Laboratory Qualifiers for Organic Analysis

- U - Indicates the compound was analyzed for, but was not detected. The sample quantitation limit is corrected for dilution and, in the case of soil samples, for percent moisture.

- J - The associated numerical value is an estimated quantity, because the value was less than the CRQL. TICs are flagged as estimated (J).

- N - Indicates presumptive evidence of a compound. This flag is only used for TICs where a specific compound identification is based on a mass spectral library search.

- B - This flag is used when the compound is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

- E - This flag identifies a compound where the concentration exceeded the calibration range of the instrument for that specific analysis. If one or more compounds have a response greater than full scale, the sample or extract must be diluted and re-analyzed. If the dilution of the extract cause any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses are reported.

- D - This flag identifies a compound that was identified in an analysis at a secondary dilution factor.

- P - This flag is used for a pesticide/PCB target compound when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two values is reported.

- C - This flag applies to pesticide/PCB results where the identification has been confirmed by GC/MS.

- A - This flag indicates that a TIC is a suspected aldol condensation product.

- X - X, Y, and Z flags may be used by the laboratory to properly define the results. In this project, these flags were not used.

Laboratory Qualifiers for Inorganic Analyses

- B - This flag is applied to a value greater than or equal to the instrument detection limit (IDL), but less than the Practical Quantitation Limit (PQL). (e.g., the "B" laboratory qualifier for inorganics as used by the EPA to indicate the result is 'bracketed' by the IDL and CRDL. This laboratory qualifier does not indicate blank contamination for inorganic analyses.)

- U - Indicates analyte was analyzed for, but was not detected. The value reported is the instrument detection limit value (e.g., 10U).

- E - Indicates the value is estimated due to the presence of interference.

- S - Indicates the value was determined by the method of standard addition.

- M - Indicates duplicate injection precision for furnace analysis was not met.

- N - Indicates spike sample recovery was not within control limits.

- * - Indicates duplicate analysis was not within control limits.

- + - Indicates the correlation coefficient for method of standard addition was less than 0.995.

- W - Post-digestion spike for Furnace AA analysis was out of control limits (85-115%), while sample absorbence was less than 50% of spike absorbence.

Data Validation Qualifier Definitions

The data validation process was performed with specific project needs in mind. Data quality objectives and intended data usage, as outlined in the QAPP, were referred to. The data validation qualifiers defined below are presented with the data under the "DVQ" column.

The data validation/review qualifiers will indicate whether the data are,

- Usable as a quantitative concentration
- Usable with caution as an estimated concentration
- Unusable due to out-of-control QC results.

The following qualifiers were used by Montgomery Watson personnel in the validation of laboratory results. Field QC samples (trip blanks, field blanks, field duplicates) were also evaluated during the data validation process. Validation of organics data was performed using *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*, U.S. EPA, February 1994. Inorganics data validation was performed using *USEPA Contract Laboratory Program National Functional Guideline for Inorganic Data Review*, U.S. EPA, February 1994.

Data Validation Qualifiers for Organic Analyses

- J - The associated numerical value is an estimated quantity, because quality control criteria were not met and/or because the value was less than the CRQL. TICs are flagged as estimated (J).

- U - Indicates compound was analyzed for, but was not detected. The associated value is the sample quantitation limit. The sample quantitation limit may be elevated due to contamination detected in laboratory blanks, field blanks, or, in the case of VOCs, trip blanks.

- UJ - Indicates the compound was analyzed for, but was not detected. The associated numerical value is an estimated quantitation limit.

- R - Quality control indicates the result is not usable (compound may or may not be present).

Data Qualifiers for Inorganic Analyses

- J - The associated numerical value is an estimated quantity because quality control criteria were not met (i.e., out of control (low or high) spike recoveries, interferences in serial dilution, or poor correlation coefficients).

- R - Quality control data indicates that the value is not usable (analyte may or may not be present).

- U - Indicates analyte was analyzed for, but was not detected. The associated value is the sample quantitation limit. The sample quantitation limit may be elevated due to contamination detected in laboratory blanks or field blanks.

- UJ - The analyte was analyzed for, but was not detected. The associate numerical value is an estimated quantitation limit.

SUMMARY OF DATA VALIDATION

This dicussion refers to the following samples from the ACS Site in Griffith Indiana. The samples were analyzed in the following sample delivery group (SDG) numbers 6448, 8478, 6511, and 7050:

SDG	Sample ID	Date
6448	ACS-GWTB01-02	6/24/97
6448	ACS-GWMW46-02	6/24/97
6448	ACS-GWMW50-02	6/24/97
6448	ACS-GWMW11-02	6/24/97
6448	ACS-GWMW28-02	6/24/97
6448	ACS-GWMW23-92	6/24/97
6448	ACS-GWMW23-02	6/24/97
6448	ACS-GWMW12-02	6/24/97
6448	ACS-GWMW08-02	6/24/97
6448	ACS-GWMW32-02	6/24/97
6448	ACS-GWMW07-02	6/24/97
6448	ACS-GWMW24-02	6/24/97
6448	ACS-GWFB01-02	6/24/97
6448	ACS-GWTB02-02	6/25/97
6448	ACS-GWMW36-02	6/25/97
6448	ACS-GWMW31-02	6/25/97
6448	ACS-GWMW21-02	6/25/97
6448	ACS-GWMW53-02	6/25/97
6448	ACS-GWMW37-02	6/25/97
6448	ACS-GWMW55-02	6/25/97
6478	ACS-GWMW15-02	6/25/97
6478	ACS-GWMW54-02	6/25/97
6478	ACS-GWMW52-02	6/25/97
6478	ACS-GWMW38-02	6/25/97
6478	ACS-GWMW18-02	6/25/97
6478	ACS-GWMW49-02	6/25/97
6478	ACS-GWMW49-92	6/25/97
6478	ACS-GWMW41-02	6/25/97
6478	ACS-GWFB02-02	6/25/97
6478	ACS-GWMW41-92	6/25/97
6478	ACS-GWMW39-02	6/25/97
6478	ACS-GWMW51-02	6/25/97
6478	ACS-GWTB03-02	6/26/97
6478	ACS-GWMW1S-02	6/26/97
6478	ACS-GWMW43-02	6/26/97
6478	ACS-GWMW3S-02	6/26/97
6478	ACS-GWMW42-02	6/26/97
6478	ACS-GWMW42-92	6/26/97
6478	ACS-GWMW2S-02	6/26/97
6478	ACS-GWMW44-02	6/26/97

SDG	Sample ID	Date
6511	ACS-GWFB03-02	6/26/97
6511	ACS-GWMW4D-02	6/26/97
6511	ACS-GWMW40-02	6/26/97
6511	ACS-GWMW33-02	6/26/97
6511	ACS-GWMW4S-02	6/26/97
6511	ACS-GWMW47-02	6/26/97
6511	ACS-GWMW45-02	6/26/97
6511	ACS-GWMW48-02	6/26/97
6511	ACS-GWMW30-02	6/26/97
6511	ACS-GWMW10C-02	6/26/97
6511	ACS-GWMW10C-92	6/26/97
6511	ACS-GWTB04-02	6/27/97
6511	ACS-GWMW13-02	6/27/97
6511	ACS-GWFB04-02	6/27/97
6511	ACS-GWTB05-02	6/30/97
6511	ACS-GWMW14-02	6/30/97
6511	ACS-GWMW29-02	6/30/97
6511	ACS-GWMW34-02	6/30/97
6511	ACS-GWMW09-02	6/30/97
6511	ACS-GWMW09-92	6/30/97
7050	ACS-GWMW19-02	6/30/97
7050	ACS-GWFB05-02	6/30/97
7050	ACS-GWTB06-02	7/1/97
7050	ACS-GWMW6-02	7/1/97
7050	ACS-GWMW22-02	7/1/97

In addition, these samples were grouped into separate SDGs for indicator parameters only as follows:

SDG	Sample ID	Date	SDG	Sample ID	Date
6480	ACS-GWMW38-02	6/25/97	6515	ACS-GWMW40-02	6/26/97
6480	ACS-GWMW41-02	6-25/97	6515	ACS-GWMW40-02	6/26/97
6480	ACS-GWMW41-92	6/25/97	6515	ACS-GWMW45-02	6/26/97
7052	ACS-GWMW19-02	6/30/97			

The data from this round of sampling was acceptable for use in site evaluation. No data was qualified as unusable. Refer to the SDG specific narratives, and the Data Validation Qualified Data Summary Table for sample specific information regarding qualifiers and estimated data.

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Data Validation Narrative

Project Name **ACS**
Project Number 1252042.
Validation by: JAH 8/8/97

Indicators in Groundwater
SDG No 6480, 6515, 7052 (June 1997)

This data narrative covers the analysis of 6 groundwater samples from ACS for selected indicator parameter analysis by IEA Laboratories. The data was validated according to the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (2/94) with modifications for the project specific QC.

This data is acceptable for use with the following comments:

Holdtimes - All holdtimes were met.

Calibration - All calibration criteria was within acceptable QC limits.

Blanks - The laboratory blanks were all clean with no detects.

Spikes - All spike results were within acceptable QC limits, except for TKN, which had a low spike recovery. Results have been qualified estimated (J/UJ).

Duplicates - Laboratory duplicate results were all within acceptable QC limits, except for ammonia, and TKN which had elevated RPD results. Results have been qualified as estimated (J/UJ).

Sample Result Verification - A minimum of 10% of all calculations were back checked. All transcriptions were checked.

Overall - These sample results are acceptable for use in site evaluation.

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VALIDATION NARRATIVE

Project Name **ACS** — **Organics in Groundwater**
Project Number 1252042. — **SDG No 06448 (June 1997)**
Validation by: SGW 8/18/97

This narrative covers the validation of 20 groundwater samples from ACS for VOC, SVOC, and PCB analysis by IEA laboratories using CLP methodologies. Validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Analysis Review* (2/94). The data is validated as acceptable for use in site evaluation with the following comments:

Hold Times All hold times were met.

Calibration All instrument tuning and calibration criteria was validated as acceptable. Some VOC and SVOC compounds had percent difference criteria outside QC limits, particularly chloroethane and 1,2-Dichloroethane. Results for these compounds were qualified as estimated (J/UJ).

Blanks Method blanks, field blanks and trip blanks were analyzed. Results for acetone detected in the field blank and bis(2ethylhexyl)phthalate detected in a method blank and the field blank were qualified using the 5x/10x rule.

Internal Standards All internal standard results were within acceptable validation limits.

Surrogates All VOC surrogate recoveries were within acceptable validation QC limits. Terphenyl in three samples (MW08, MW32, and MW24) had a low recovery thus all phenol compounds were qualified (J/UJ). Although some pesticide surrogate recovery levels were low, no qualifiers are required for this criteria.

Matrix Spikes All matrix spike recoveries and RPDs were within acceptable QC limits, except for th VOC RPDs, which were slightly high and 2 SVOC recoveries which were slightly high. No qualifiers are applied for this criteria.

Field Duplicates Phenol and bis(2ethylhexyl)phthalate had RPDs greater than 25% and were Qualified (J).

Sample Results All calculations are acceptable. Overall data quality by the laboratory was acceptable.

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VALIDATION NARRATIVE

Project Name **ACS** — **Inorganics in Groundwater**
Project Number 1252042. — **SDG No 06448 (June 1997)**
Validation by: SGW 8/18/97

This narrative covers the validation of low flow sampled aliquots of 20 groundwater samples from ACS for metals analysis by IEA laboratories using CLP methodologies. Validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (2/94). The data is validated as acceptable for use in site evaluation with the following comments:

Hold Times All hold times were met.

Calibration All instrument tuning and calibration criteria was validated as acceptable.

Blanks Field, Method and prep blanks were analyzed. ICP method and prep blanks contained aluminum, magnesium, lead, and zinc. Results for these metals were qualified according to the 5x rule as "U" (undetected) at the reported concentration.

Matrix Spikes All matrix spike recoveries were within acceptable QC limits.

Duplicates All duplicate RPD results were within acceptable QC limits.

ICP QC Samples ICP Serial dilution % difference criteria were within acceptable QC limits.

Field Duplicates Al RPDs within 25%.

Sample Results All metals were analyzed by ICP except for Hg and CN^-. All results are acceptable for use in site evaluation. Overall data quality by the laboratory was good, with no instrument related problems observed.

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Data Validation Narrative

Project Name: ACS
Project Number: 1252042.221602
Validation by: MPD 8/18/97

Date: August 18, 1997
June 1997 GW - SDG 6478 -VOC

This data narrative covers the analysis of 20 groundwater samples from the ACS site located in Griffith, Indiana for volatile organic analysis by Industrial and Environmental Analysts, Inc. (IEA) Cary, North Carolina. Analyses were completed according to the EPA 1/91 Statement of Work. The data was validated according to the USEPA *Contract Laboratory Program National Functional Guidelines for Organic Data Review (2/93).*

All the data is acceptable for use with the following comments:

Holdtimes - All samples were analyzed within holdtimes.

Calibration - All required criteria met for Instrument #MSD5. Instrument #MSD10 with bromomethane percent relative standard deviation (%RSD) at 22.1%, chloroethane %RSD at 46.4%, and acetone %RSD at 28.2%. Continuing calibration verification data indicated low response for chloroethane and 1,2-dichloroethene on Instrument # MSD10. Samples ACS-GWMW15-02, ACS-GWMW18-02, ACS-GWMW39-02, ACS-GWMW41-92, ACS-GWMW51-02, ACS-GWMW52-02, ACS-GWMW54-02, and ACS-GWFB02-02 with chloroethane and 1,2-dichloroethane detection limits qualified as (UJ) estimated. Samples ACS-GWTB03-02, ACS-GWMW01S-02, ACS-GWMW02S-02, ACS-GWMW03S-02, ACS-GWMW42-02, ACS-GWMW42-92, ACS-GWMW43-02, and ACS-GWMW44-02 with chloroethane detection limit qualified as (UJ).

Blanks - Field blanks with detects for acetone that are associated with the samples. Samples ACS-GWMW54-02 and ACS-GWMW 41-92 with acetone qualified as non-detects.

System Monitoring Compound (SMC) Recoveries - All recoveries were within Q.C. limits.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries - All recoveries were within Q.C. limits.

Duplicates - Samples ACS-GWMW49-02 and ACS-GWMW49-92 with benzene and chloroethane qualified as (J) estimated due to high %RPD in these field duplicates.

Internal Standard (IS) Performance - All required criteria met.

Sample Result Verification - A minimum of 10% of all calculations were backchecked. All transcriptions were checked.

Overall - These samples results are acceptable for use in site evaluation.

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Data Validation Narrative

Project Name: ACS
Project Number: 1252042.221602
Validation by: MPD 8/18/97

Date: August 18, 1997
June 1997 GW - SDG 6478 -SVOC

This data narrative covers the analysis of 19 groundwater samples from the ACS site located in Griffith, Indiana for semi-volatile organic analysis by Industrial and Environmental Analysts, Inc. (IEA) Cary, North Carolina. Analyses were completed according to the EPA 1/91 Statement of Work. The data was validated according to the USEPA *Contract Laboratory Program National Functional Guidelines for Organic Data Review (2/93).*

All the data is acceptable for use with the following comments:

Holdtimes - All samples were extracted and analyzed within holdtimes.

Calibration - All criteria met for Initial calibration of Instrument #MSD14. Continuing calibrations for Instrument #MSD14 with hexachloroethane, hexachlorobutadiene, and 4-Nitrophenol with low response. Samples with detection limits qualified as (UJ) estimated for these compounds.

Blanks - Phenol and Bis (2-ethylhexyl) Phthalate detected in field blanks associated with these samples. Samples ACS-GWMW01s-02, ACS-0GWMW02S-02, ACS-GWMW15-02, ACS-GWMW38-02, ACS-GWMW39-02, ACS-GWMW41-02, ACS-GWMW41-92, ACS-GWMW42-02, ACS-GWMW42-92, and ACS-GWMW52-02 with phenol qualified as non-detects. Samples Acs-GWMW01S-02, ACS-GWMW15-02, ACS-GWMW18-02, ACS-GWMW38-02, ACS-GWMW39-02, ACS-GWMW42-92, ACS-GWMW43-02, ACS-GWMW52-02, and ACS-GWMW54-02 with BIS (2-ethylhexyl) Phthalate qualified as non-detects.

System Monitoring Compound (SMC) Recoveries - Samples ACS-GWMW02S-02, ACS-GWMW03S-02, ACS-GWMW15-02, and ACS-GWMW49-02 with SMC terphenyl-d14 below Q.C. limits. All recoveries greater than 10% and all other recoveries within Q.C. limits. No qualifiers for SMC recoveries.

Matrix Spike/Matrix Spike Duplicate - Sample ACS-GWMW02S-02MS with bias high recovery for pentachlorophenol and ACS-GWMW02S-02MSD with bias high recoveries for pentachlorophenol and 4-nitrophenol. No qualifiers for MS/MSD data.

Duplicates - Three sets of duplicates included in the sample designation group with only one set with positive detects. Relative percent difference (%RPD) acceptable for water matrix.

Internal Standard (IS) Performance - All required criteria met.

Sample Result Verification - A minimum of 10% of all calculations were backchecked. All transcriptions were checked.

Overall - These sample results are acceptable for use in site evaluation.

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Data Validation Narrative

Project Name: ACS
Project Number: 1252042.221602
Validation by: MPD 8/18/97

Date: August 18, 1997
June 1997 GW - SDG 6478 -PPCB

This data narrative covers the analysis of 19 groundwater samples from the ACS site located in Griffith, Indiana for pesticide/PCB analysis by Industrial and Environmental Analysts, Inc. (IEA) Cary, North Carolina. Analyses were completed according to the EPA 1/91 Statement of Work. The data was validated according to the USEPA *Contract Laboratory Program National Functional Guidelines for Organic Data Review (2/93).*

All the data is acceptable for use with the following comments:

Holdtimes - All samples were extracted and analyzed within holdtimes.

Calibration - Instrument #HP5890P1 with all initial calibration data acceptable. Continuing calibration verifications (PEM) with high breakdown percentages for 4,4'-DDT, Endrin, and combined values. Instrument #HP5890P4 initial calibration with alpha-BHC %RSD at 26.7%. Continuing calibration verifications (PEM) also with high breakdown percentages for 4,4'-DDT, Endrin, and combined values. All samples with 4,4'-DDT, 4,4'-DDD, 4,4'-DDE, Endrin, Endrin Aldehyde, and Endrin Ketone with detection limits qualified as (UJ) estimated.

Blanks - No qualifiers for blank analyses.

Surrogate Recoveries - Eleven of nineteen samples with one or more surrogates outside of ADVISORY LIMITS of 60-150%. All recoveries less than 60% but greater than 40% with all recoveries greater than 10%. No qualifiers for surrogate recoveries.

Matrix Spike/Matrix Spike Duplicate - Matrix spike and matrix spike duplicate with gamma-BHC and Endrin with low recoveries. All recoveries greater than 46 % with none below 10%. No qualifiers for matrix spike/matrix spike duplicate data.

Duplicates - Three sets of field duplicates included in this sample designation group. No positive detects reported.

Sample Result Verification - No positive detects reported. A minimum of 10% of all calculations were backchecked.

Overall - These sample results are acceptable for use in site evaluation.

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VALIDATION NARRATIVE

Project Name **ACS**
Project Number 1252042.
Validation by: TJD 8/8/97

Inorganics in Groundwater
SDG No 06478 (June 1997)

This narrative covers the validation of low flow sampled aliquots of 19 groundwater samples from ACS for metals analysis by IEA laboratories using CLP methodologies. Validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (2/94). The data is validated as acceptable for use in site evaluation with the following comments:

Hold Times All hold times were met.

Calibration All instrument tuning and calibration criteria was validated as acceptable.

Blanks Field, Method and prep blanks were analyzed. ICP method and prep blanks contained aluminum, calcium, magnesium, and sodium. Results for these metals were qualified according to the 5x rule as "U" (undetected) at the reported concentration. Results were qualified for field blank results for iron, chromium, copper, lead, nickel and zinc. All results were qualified accordinging the the Function Guideline 5x rule.

Matrix Spikes All matrix spike recoveries were within acceptable QC limits.

Duplicates All duplicate RPD results were within acceptable QC limits.

ICP QC Samples ICP Serial dilution % difference criteria were within acceptable QC limits, except for calcium, barium, iron, magnesium, manganese, potassium, and sodium (lab qualifier "E"). Samples were qualified estimated for these metals.

Field Duplicates Field duplicate results were acceptable, except for Mw41 for aluminum, copper, lead, manganese and zinc which had RPD results exceeding the QC limits.

Sample Results All metals were analyzed by ICP except for Hg and CN^-. All results are acceptable for use in site evaluation. Overall data quality by the laboratory was good, with no signficiant instrument related problems observed.

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VALIDATION NARRATIVE

Project Name **ACS** **Organics in Groundwater**
Project Number 1252042. **SDG No 06511 (June 1997)**
Validation by: JAH 8/8/97

This narrative covers the validation of 20 groundwater samples from ACS for VOC, SVOC, and PCB analysis by IEA laboratories using CLP methodologies. Validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Analysis Review* (2/94). The data is validated as acceptable for use in site evaluation with the following comments:

Hold Times All hold times were met.

Calibration All instrument tuning and calibration criteria was validated as acceptable. Some VOC and SVOC compounds had percent difference criteria outside QC limits, particularly chloroethane and 1,2-Dichloroethane. Results for these compounds were qualified as estimated (J/UJ).

Blanks Method blanks, field blanks and trip blanks were analyzed. Results for acetone, and bis(2-ethylhexyl)phthalate, all common lab contaminants, were qualified using the 5x/10x rule.

Internal Standards All internal standard results were within acceptable validation limits.

Surrogates All surrogate recoveries were within acceptable validation QC limits. Although some pesticide surrogate levels were low, no qualifiers are required for this criteria.

Matrix Spikes All matrix spike recoveries and RPDs were within acceptable QC limits, except for three VOC and SVOC RPDs, which were slightly high. No qualifiers are applied for this criteria.

Field Duplicates Field Duplicate results were acceptable.

Sample Results All calculations are acceptable. Overall data quality by the laboratory was acceptable.

For the pesticide/PCB, the endrin and DDT % breakdown criteria was exceeded on the RTX-35 column, due to a carrier gas contamination problem. Results for the DB-1701 column were acceptable. Associated compounds (DDE, DDD, DDT, endrin, endrin aldehyde, and endrin ketone) were not detected, and have not been detected during the quarterly monitoring. All results for these compounds have been qualified as estimated (UJ). This QC problem does not significantly affect the usability of this data.

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VALIDATION NARRATIVE

Project Name **ACS** **Inorganics in Groundwater**
Project Number 1252042. **SDG No 06511 (June 1997)**
Validation by: JAH 8/8/97

This narrative covers the validation of low flow sampled aliquots of 20 groundwater samples from ACS for metals analysis by IEA laboratories using CLP methodologies. Validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (2/94). The data is validated as acceptable for use in site evaluation with the following comments:

Hold Times All hold times were met.

Calibration All instrument tuning and calibration criteria was validated as acceptable.

Blanks Field, Method and prep blanks were analyzed. ICP method and prep blanks contained aluminum, barium calcium, chromium, copper, iron, lead, magnesium, manganese, nickel, potassium, sodium, thallium, and zinc. Results for these metals were qualified according to the 5x rule as "U" (undetected) at the reported concentration.

Matrix Spikes All matrix spike recoveries were within acceptable QC limits.

Duplicates All duplicate RPD results were within acceptable QC limits.

ICP QC Samples ICP Serial dilution % difference criteria were within acceptable QC limits, except for potassium in the dissolved metals analyses (lab qualifier "E"). Samples were qualified "J" (estimated).

Field Duplicates Field duplicate results for MW5S were acceptable.

Sample Results All metals were analyzed by ICP except for Hg and CN^-. All results are acceptable for use in site evaluation. Overall data quality by the laboratory was good, with no instrument related problems observed.

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VALIDATION NARRATIVE

Project Name **ACS** **Organics in Groundwater**
Project Number 1252042. **SDG No 07050 (June 1997)**
Validation by: SGW 8/18/97

This narrative covers the validation of 6 groundwater samples from ACS for VOC, SVOC, and PCB analysis by IEA laboratories using CLP methodologies. Validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Analysis Review* (2/94). The data is validated as acceptable for use in site evaluation with the following comments:

Hold Times All hold times were met.

Calibration All instrument tuning and calibration criteria was validated as acceptable. Some VOC and SVOC compounds had percent difference criteria outside QC limits, particularly chloroethane and 1,2-Dichloroethane. Results for these compounds were qualified as estimated (J/UJ).

Blanks Method blanks, field blanks and trip blanks were analyzed. Results for phenol were qualified using the 5x/10x rule.

Internal Standards All internal standard results were within acceptable validation limits.

Surrogates All surrogate recoveries were within acceptable validation QC limits. Although some pesticide surrogate levels were low, no qualifiers are required for this criteria.

Matrix Spikes All matrix spike recoveries and RPDs were within acceptable QC limits, except for three VOC and SVOC RPDs, which were slightly high. No qualifiers are applied for this criteria.

Field Duplicates No field duplicates for this SDG.

Sample Results All calculations are acceptable. Overall data quality by the laboratory was acceptable.

For the pesticide/PCB, the endrin and DDT % breakdown criteria was exceeded on the RTX-35 column, due to a carrier gas contamination problem. Results for the DB-1701 column were acceptable. Associated compounds (DDE, DDD, DDT, endrin, endrin aldehyde, and endrin ketone) were not detected, and have not been detected during the quarterly monitoring. All results for these compounds have been qualified as estimated (UJ). This QC problem does not significantly affect the usability of this data.

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VALIDATION NARRATIVE

Project Name	**ACS**	**Inorganics in Groundwater**
Project Number	1252042.	**SDG No 07050 (June 1997)**
Validation by:	SGW 8/18/97	

This narrative covers the validation of low flow sampled aliquots of 6 groundwater samples from ACS for metals analysis by IEA laboratories using CLP methodologies. Validation was performed using the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (2/94). The data is validated as acceptable for use in site evaluation with the following comments:

Hold Times All hold times were met.

Calibration All instrument tuning and calibration criteria was validated as acceptable.

Blanks Field, Method and prep blanks were analyzed. ICP method and prep blanks contained aluminum, calcium, chromium, copper, iron, magnesium, manganese, sodium, and zinc. Results for these metals were qualified according to the 5x rule as "U" (undetected) at the reported concentration.

Matrix Spikes All matrix spike recoveries were within acceptable QC limits.

Duplicates All duplicate RPD results were within acceptable QC limits.

ICP QC Samples ICP Serial dilution % difference criteria were within acceptable QC limits.

Field Duplicates No field duplicate for this SDG.

Sample Results All metals were analyzed by ICP except for Hg and CN^-. All results are acceptable for use in site evaluation. Overall data quality by the laboratory was good, with no instrument related problems observed.

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Summary of Validation Qualified Data
June 1997 Groundwater Sampling Round
ACS Site

Sample ID	Unit	Atype	Parameter	Conc	LQ	DVQ	RDL	Comment
ACS-GWFB01-02	UG/L	MTL-T	Calcium	377	BE	J	7	ICP serial dilution QC limit exceeded.
ACS-GWFB01-02	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate		JB	UJ	10	Compound detected in associated blank
ACS-GWFB01-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWFB01-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWFB02-02	UG/L	MTL-T	Aluminum		B	U	19.7	Compound detected in associated blank
ACS-GWFB02-02	UG/L	MTL-T	Barium	1.2	BE	J	1	ICP serial dilution QC limit exceeded.
ACS-GWFB02-02	UG/L	MTL-T	Calcium		BE	UJ	187	Compound detected in associated blank
ACS-GWFB02-02	UG/L	MTL-T	Iron	22.9	BE	J	8	ICP serial dilution QC limit exceeded.
ACS-GWFB02-02	UG/L	MTL-T	Magnesium		BE	UJ	41	Compound detected in associated blank
ACS-GWFB02-02	UG/L	MTL-T	Manganese	1.2	BE	J	1	ICP serial dilution QC limit exceeded.
ACS-GWFB02-02	UG/L	MTL-T	Potassium	18	BE	J	18	ICP serial dilution QC limit exceeded.
ACS-GWFB02-02	UG/L	MTL-T	Sodium		BE	UJ	432	Compound detected in associated blank
ACS-GWFB02-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB02-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB02-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB02-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB02-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB02-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB02-02	UG/L	SVOC	4-Nitrophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWFB02-02	UG/L	SVOC	Hexachlorobutadiene		U	UJ	10	Calibration QC limit exceeded
ACS-GWFB02-02	UG/L	SVOC	Hexachloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWFB02-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWFB02-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWFB02-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWFB03-02	UG/L	MTL-T	Potassium	4550	BE	J	18	ICP serial dilution QC limit exceeded.
ACS-GWFB03-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB03-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB03-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB03-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB03-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB03-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB04-02	UG/L	MTL-T	Potassium	5830	E	J	18	ICP serial dilution QC limit exceeded.
ACS-GWFB04-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB04-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB04-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB04-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB04-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB04-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB04-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWFB04-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWFB05-02	UG/L	MTL-T	Aluminum		B	UJ	19.9	Compound detected in associated blank
ACS-GWFB05-02	UG/L	MTL-T	Chromium		B	UJ	4.9	Compound detected in associated blank
ACS-GWFB05-02	UG/L	MTL-T	Copper		B	UJ	3.5	Compound detected in associated blank
ACS-GWFB05-02	UG/L	MTL-T	Magnesium		B	UJ	1450	Compound detected in associated blank
ACS-GWFB05-02	UG/L	MTL-T	Manganese		B	UJ	1.2	Compound detected in associated blank
ACS-GWFB05-02	UG/L	MTL-T	Zinc		B	UJ	4.6	Compound detected in associated blank
ACS-GWFB05-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB05-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB05-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB05-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB05-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB05-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWFB05-02	UG/L	SVOC	2-Nitroaniline		U	UJ	25	Surrogate QC limit exceeded
ACS-GWFB05-02	UG/L	SVOC	4-Nitrophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWFB05-02	UG/L	SVOC	Hexachlorobutadiene		U	UJ	10	Calibration QC limit exceeded
ACS-GWFB05-02	UG/L	SVOC	Hexachlorocyclopentadiene		U	UJ	10	Calibration QC limit exceeded
ACS-GWFB05-02	UG/L	SVOC	Nitrobenzene		U	UJ	10	Calibration QC limit exceeded
ACS-GWFB05-02	UG/L	VOC	1,1,1-Trichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWFB05-02	UG/L	VOC	1,1-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWFB05-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWFB05-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW07-02	UG/L	MTL-T	Calcium	97000	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW07-02	UG/L	MTL-T	Lead			U	5.8	Compound detected in associated blank
ACS-GWMW07-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW07-02	UG/L	VOC	Acetone			UJ	24	Compound detected in associated blank

Summary of Validation Qualified Data
June 1997 Groundwater Sampling Round
ACS Site

Sample ID	Unit	Atype	Parameter	Conc	LQ	DVQ	RDL	Comment
ACS-GWMW07-02	UG/L	VOC	Chloroethane			UJ	10	Calibration QC limit exceeded
ACS-GWMW08-02	UG/L	MTL-T	Aluminum		B	U	97	Compound detected in associated blank
ACS-GWMW08-02	UG/L	MTL-T	Calcium	53000	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW08-02	UG/L	MTL-T	Lead		B	U	2.7	Compound detected in associated blank
ACS-GWMW08-02	UG/L	MTL-T	Zinc		B	U	8	Compound detected in associated blank
ACS-GWMW08-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW08-02	UG/L	VOC	Acetone			U	10	Compound detected in associated blank
ACS-GWMW08-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW09-02	UG/L	MTL-T	Aluminum		B	U	61.4	Compound detected in associated blank
ACS-GWMW09-02	UG/L	MTL-T	Chromium		B	U	2	Compound detected in associated blank
ACS-GWMW09-02	UG/L	MTL-T	Nickel		B	U	3.7	Compound detected in associated blank
ACS-GWMW09-02	UG/L	MTL-T	Potassium		E	UJ	11300	Compound detected in associated blank
ACS-GWMW09-02	UG/L	MTL-T	Zinc		B	U	8.6	Compound detected in associated blank
ACS-GWMW09-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW09-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW09-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW09-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW09-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW09-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW09-02	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate		J	U	10	Compound detected in associated blank
ACS-GWMW09-02	UG/L	VOC	1,2 Dichloroethane		U	UJ	160	Calibration QC limit exceeded
ACS-GWMW09-02	UG/L	VOC	Chloroethane	1700		J	160	Calibration QC limit exceeded
ACS-GWMW09-92	UG/L	MTL-T	Aluminum		B	U	43.8	Compound detected in associated blank
ACS-GWMW09-92	UG/L	MTL-T	Chromium		B	U	2.4	Compound detected in associated blank
ACS-GWMW09-92	UG/L	MTL-T	Copper		B	U	1.3	Compound detected in associated blank
ACS-GWMW09-92	UG/L	MTL-T	Nickel		B	U	4.2	Compound detected in associated blank
ACS-GWMW09-92	UG/L	MTL-T	Potassium		E	UJ	11000	Compound detected in associated blank
ACS-GWMW09-92	UG/L	MTL-T	Zinc		B	U	7.3	Compound detected in associated blank
ACS-GWMW09-92	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW09-92	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW09-92	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW09-92	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW09-92	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW09-92	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW09-92	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate		J	U	10	Compound detected in associated blank
ACS-GWMW09-92	UG/L	VOC	1,2-Dichloroethane		U	UJ	100	Calibration QC limit exceeded
ACS-GWMW09-92	UG/L	VOC	Chloroethane	2000		J	100	Calibration QC limit exceeded
ACS-GWMW10C-02	UG/L	MTL-T	Copper		B	U	10.9	Compound detected in associated blank
ACS-GWMW10C-02	UG/L	MTL-T	Nickel		B	U	26.1	Compound detected in associated blank
ACS-GWMW10C-02	UG/L	MTL-T	Potassium		E	UJ	6770	Compound detected in associated blank
ACS-GWMW10C-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW10C-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW10C-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW10C-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW10C-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW10C-02	UG/L	PPCB	E - ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW10C-02	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate		J	U	10	Compound detected in associated blank
ACS-GWMW10C-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	250	Calibration QC limit exceeded
ACS-GWMW10C-02	UG/L	VOC	Chloroethane	440		J	250	Calibration QC limit exceeded
ACS-GWMW10C-92	UG/L	MTL-T	Nickel		B	U	29.5	Compound detected in associated blank
ACS-GWMW10C-92	UG/L	MTL-T	Potassium		E	UJ	6650	Compound detected in associated blank
ACS-GWMW10C-92	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW10C-92	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW10C-92	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW10C-92	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW10C-92	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW10C-92	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW10C-92	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate		J	U	10	Compound detected in associated blank
ACS-GWMW10C-92	UG/L	VOC	1,2-Dichloroethane		U	UJ	50	Calibration QC limit exceeded
ACS-GWMW10C-92	UG/L	VOC	Chloroethane	340		J	50	Calibration QC limit exceeded
ACS-GWMW11-02	UG/L	MTL-T	Calcium	33400	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW11-02	UG/L	MTL-T	Lead			U	5.3	Compound detected in associated blank
ACS-GWMW11-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW11-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW12-02	UG/L	MTL-T	Calcium	43900	E	J	7	ICP serial dilution QC limit exceeded.

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Sample ID	Unit	Atype	Parameter	Conc	LQ	DVQ	RDL	Comment
ACS-GWMW12-02	UG/L	MTL-T	Lead			U	4.1	Compound detected in associated blank
ACS-GWMW12-02	UG/L	MTL-T	Zinc		B	U	11.5	Compound detected in associated blank
ACS-GWMW12-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW12-02	UG/L	VOC	Acetone			U	10	Compound detected in associated blank
ACS-GWMW12-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW13-02	UG/L	MTL-T	Chromium		B	U	4.2	Compound detected in associated blank
ACS-GWMW13-02	UG/L	MTL-T	Copper		B	U	4.3	Compound detected in associated blank
ACS-GWMW13-02	UG/L	MTL-T	Lead		B	U	2.3	Compound detected in associated blank
ACS-GWMW13-02	UG/L	MTL-T	Nickel		B	U	4.3	Compound detected in associated blank
ACS-GWMW13-02	UG/L	MTL-T	Potassium		BE	UJ	2820	Compound detected in associated blank
ACS-GWMW13-02	UG/L	MTL-T	Zinc		B	U	17.2	Compound detected in associated blank
ACS-GWMW13-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW13-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW13-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW13-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW13-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW13-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW13-02	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate			U	17	Compound detected in associated blank
ACS-GWMW13-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	50	Calibration QC limit exceeded
ACS-GWMW13-02	UG/L	VOC	Chloroethane	570		U	50	Calibration QC limit exceeded
ACS-GWMW14-02	UG/L	MTL-T	Nickel		B	U	29	Compound detected in associated blank
ACS-GWMW14-02	UG/L	MTL-T	Potassium		E	UJ	9870	Compound detected in associated blank
ACS-GWMW14-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW14-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW14-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW14-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW14-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW14-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW14-02	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate			U	11	Compound detected in associated blank
ACS-GWMW14-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW14-02	UG/L	VOC	Acetone		J	U	10	Compound detected in associated blank
ACS-GWMW14-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW15-02	UG/L	MTL-T	Barium	1070	E	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW15-02	UG/L	MTL-T	Calcium	67900	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW15-02	UG/L	MTL-T	Chromium		B	U	6.1	Compound detected in associated blank
ACS-GWMW15-02	UG/L	MTL-T	Copper		B	U	12.2	Compound detected in associated blank
ACS-GWMW15-02	UG/L	MTL-T	Iron	5510	E	J	8	ICP serial dilution QC limit exceeded.
ACS-GWMW15-02	UG/L	MTL-T	Magnesium	66800	E	J	3	ICP serial dilution QC limit exceeded.
ACS-GWMW15-02	UG/L	MTL-T	Manganese	167	E	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW15-02	UG/L	MTL-T	Potassium	96500	E	J	18	ICP serial dilution QC limit exceeded.
ACS-GWMW15-02	UG/L	MTL-T	Sodium	347000	E	J	440	ICP serial dilution QC limit exceeded.
ACS-GWMW15-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW15-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW15-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW15-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW15-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW15-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW15-02	UG/L	SVOC	4-Nitrophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW15-02	UG/L	SVOC	Hexachloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW15-02	UG/L	SVOC	Phenol			U	11	Compound detected in associated blank
ACS-GWMW15-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW15-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW18-02	MG/L	IND	Ammonia-N		U	UJ	0.1	Duplicate QC limits exceeded
ACS-GWMW18-02	MG/L	IND	TKN	0.152		J	0.1	Spike and Duplicate QC limits exceeded
ACS-GWMW18-02	UG/L	MTL-T	Aluminum		B	U	55.8	Compound detected in associated blank
ACS-GWMW18-02	UG/L	MTL-T	Barium	24.8	BE	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW18-02	UG/L	MTL-T	Calcium	63700	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW18-02	UG/L	MTL-T	Chromium		B	U	5.8	Compound detected in associated blank
ACS-GWMW18-02	UG/L	MTL-T	Copper		B	U	6.7	Compound detected in associated blank
ACS-GWMW18-02	UG/L	MTL-T	Iron		BE	UJ	54.2	Compound detected in associated blank
ACS-GWMW18-02	UG/L	MTL-T	Magnesium	19600	E	J	3	ICP serial dilution QC limit exceeded.
ACS-GWMW18-02	UG/L	MTL-T	Manganese	24.4	E	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW18-02	UG/L	MTL-T	Nickel		B	U	2.4	Compound detected in associated blank
ACS-GWMW18-02	UG/L	MTL-T	Potassium	2720	BE	J	18	ICP serial dilution QC limit exceeded.
ACS-GWMW18-02	UG/L	MTL-T	Sodium	67700	E	J	89	ICP serial dilution QC limit exceeded.

Summary of Validation Qualified Data
June 1997 Groundwater Sampling Round
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Sample ID	Unit	Atype	Parameter	Conc	LQ	DVQ	RDL	Comment
ACS-GWMW18-02	UG/L	MTL-T	Zinc			U	67.3	Compound detected in associated blank
ACS-GWMW18-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW18-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW18-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW18-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW18-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW18-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW18-02	UG/L	SVOC	4-Nitrophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW18-02	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate			U	15	Compound detected in associated blank
ACS-GWMW18-02	UG/L	SVOC	Hexachlorobutadiene		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW18-02	UG/L	SVOC	Hexachloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW18-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW19-02	MG/L	IND	Ammonia-N	47.7		J	0.1	Duplicate QC limits exceeded
ACS-GWMW19-02	MG/L	IND	TKN	44.6		J	0.1	Spike and Duplicate QC limits exceeded
ACS-GWMW19-02	UG/L	MTL-T	Copper		B	UJ	6.7	Compound detected in associated blank
ACS-GWMW19-02	UG/L	MTL-T	Zinc		B	UJ	13.5	Compound detected in associated blank
ACS-GWMW19-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW19-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW19-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW19-02	UG/L	PPCB	Dieldrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW19-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW19-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW19-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW19-02	UG/L	SVOC	2,4,5-Trichlorophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW19-02	UG/L	SVOC	2,4,6-Trichlorophenol		U	UJ	10	Surrogate QC limit exceeded
ACS-GWMW19-02	UG/L	SVOC	2,4-Dichlorophenol		U	UJ	10	Surrogate QC limit exceeded
ACS-GWMW19-02	UG/L	SVOC	2,4-Dinitrophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW19-02	UG/L	SVOC	2-Chlorophenol		U	UJ	10	Surrogate QC limit exceeded
ACS-GWMW19-02	UG/L	SVOC	2-Methylphenol		U	UJ	10	Surrogate QC limit exceeded
ACS-GWMW19-02	UG/L	SVOC	2-Nitrophenol		U	UJ	10	Surrogate QC limit exceeded
ACS-GWMW19-02	UG/L	SVOC	4,6-Dinitro-2-Methylphenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW19-02	UG/L	SVOC	4-Chloro-3-Methylphenol		U	UJ	10	Surrogate QC limit exceeded
ACS-GWMW19-02	UG/L	SVOC	4-Methylphenol		U	UJ	10	Surrogate QC limit exceeded
ACS-GWMW19-02	UG/L	SVOC	Pentachlorophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW19-02	UG/L	SVOC	Phenol		J	U	10	Compound detected in associated blank
ACS-GWMW19-02	UG/L	VOC	1,1,2,2-Tetrachloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW19-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW1S-02	UG/L	MTL-T	Aluminum		B	U	105	Compound detected in associated blank
ACS-GWMW1S-02	UG/L	MTL-T	Barium	528	E	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW1S-02	UG/L	MTL-T	Calcium	212000	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW1S-02	UG/L	MTL-T	Chromium		B	U	3.6	Compound detected in associated blank
ACS-GWMW1S-02	UG/L	MTL-T	Copper		B	U	3	Compound detected in associated blank
ACS-GWMW1S-02	UG/L	MTL-T	Iron	19700	E	J	8	ICP serial dilution QC limit exceeded.
ACS-GWMW1S-02	UG/L	MTL-T	Magnesium	73400	E	J	3	ICP serial dilution QC limit exceeded.
ACS-GWMW1S-02	UG/L	MTL-T	Manganese	577	E	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW1S-02	UG/L	MTL-T	Nickel		B	U	6.2	Compound detected in associated blank
ACS-GWMW1S-02	UG/L	MTL-T	Potassium	46400	E	J	18	ICP serial dilution QC limit exceeded.
ACS-GWMW1S-02	UG/L	MTL-T	Sodium	67300	E	J	89	ICP serial dilution QC limit exceeded.
ACS-GWMW1S-02	UG/L	MTL-T	Zinc		B	U	15.1	Compound detected in associated blank
ACS-GWMW1S-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW1S-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW1S-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW1S-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW1S-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW1S-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW1S-02	UG/L	SVOC	4-Nitrophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW1S-02	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate		J	U	10	Compound detected in associated blank
ACS-GWMW1S-02	UG/L	SVOC	Hexachloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW1S-02	UG/L	SVOC	Phenol			U	16	Compound detected in associated blank
ACS-GWMW1S-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW21-02	UG/L	MTL-T	Aluminum		B	U	82.3	Compound detected in associated blank
ACS-GWMW21-02	UG/L	MTL-T	Calcium	114000	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW21-02	UG/L	MTL-T	Copper		B	U	4.8	Compound detected in associated blank
ACS-GWMW21-02	UG/L	MTL-T	Lead		B	U	1.8	Compound detected in associated blank
ACS-GWMW21-02	UG/L	MTL-T	Zinc		B	U	16.5	Compound detected in associated blank

Summary of Validation Qualified Data
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Sample ID	Unit	Atype	Parameter	Conc	LQ	DVQ	RDL	Comment
ACS-GWMW21-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW21-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW22-02	UG/L	MTL-T	Copper		B	U	10.8	Compound detected in associated blank
ACS-GWMW22-02	UG/L	MTL-T	Zinc		B	U	18.3	Compound detected in associated blank
ACS-GWMW22-02	UG/L	SVOC	2,2'-Oxybis(1-Chloropropane)		U	UJ	20	Calibration QC limit exceeded
ACS-GWMW22-02	UG/L	SVOC	4-Nitroaniline		U	UJ	50	Surrogate QC limit exceeded
ACS-GWMW22-02	UG/L	SVOC	4-Nitrophenol		U	UJ	50	Surrogate QC limit exceeded
ACS-GWMW22-02	UG/L	SVOC	Hexachlorobutadiene		U	UJ	20	Calibration QC limit exceeded
ACS-GWMW22-02	UG/L	SVOC	Hexachlorocyclopentadiene		U	UJ	20	Calibration QC limit exceeded
ACS-GWMW22-02	UG/L	VOC	1,1,1-Trichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW22-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW22-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW23-02	UG/L	MTL-T	Calcium	72600	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW23-02	UG/L	MTL-T	Lead			U	3.1	Compound detected in associated blank
ACS-GWMW23-02	UG/L	MTL-T	Zinc		B	U	11.6	Compound detected in associated blank
ACS-GWMW23-02	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate	4	J	J	10	
ACS-GWMW23-02	UG/L	SVOC	Phenol	29		J	10	Surrogate QC limit exceeded
ACS-GWMW23-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW23-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW23-92	UG/L	MTL-T	Calcium	72100	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW23-92	UG/L	MTL-T	Lead		B	U	1.3	Compound detected in associated blank
ACS-GWMW23-92	UG/L	MTL-T	Zinc		B	U	8.3	Compound detected in associated blank
ACS-GWMW23-92	UG/L	SVOC	Phenol	7	J	J	10	Surrogate QC limit exceeded
ACS-GWMW23-92	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW23-92	UG/L	VOC	Acetone			U	10	Compound detected in associated blank
ACS-GWMW23-92	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW24-02	UG/L	MTL-T	Calcium	170000	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW24-02	UG/L	SVOC	2,4,5-Trichlorophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW24-02	UG/L	SVOC	2,4,6-Trichlorophenol		U	UJ	10	Surrogate QC limit exceeded
ACS-GWMW24-02	UG/L	SVOC	2,4-Dichlorophenol		U	UJ	10	Surrogate QC limit exceeded
ACS-GWMW24-02	UG/L	SVOC	2,4-Dinitrophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW24-02	UG/L	SVOC	2-Chlorophenol		U	UJ	10	Surrogate QC limit exceeded
ACS-GWMW24-02	UG/L	SVOC	2-Methylphenol		U	UJ	10	Surrogate QC limit exceeded
ACS-GWMW24-02	UG/L	SVOC	2-Nitrophenol		U	UJ	10	Surrogate QC limit exceeded
ACS-GWMW24-02	UG/L	SVOC	4,6-Dinitro-2-Methylphenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW24-02	UG/L	SVOC	4-Chloro-3-Methylphenol		U	UJ	10	Surrogate QC limit exceeded
ACS-GWMW24-02	UG/L	SVOC	4-Methylphenol		U	UJ	10	Surrogate QC limit exceeded
ACS-GWMW24-02	UG/L	SVOC	Pentachlorophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW24-02	UG/L	SVOC	Phenol	2	J	J	10	Surrogate QC limit exceeded
ACS-GWMW24-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW24-02	UG/L	VOC	Acetone			U	10	Compound detected in associated blank
ACS-GWMW24-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW28-02	UG/L	MTL-T	Calcium	77900	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW28-02	UG/L	MTL-T	Lead			U	4.6	Compound detected in associated blank
ACS-GWMW28-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW28-02	UG/L	VOC	Acetone		J	U	10	Compound detected in associated blank
ACS-GWMW28-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW29-02	UG/L	MTL-T	Lead		B	U	2.4	Compound detected in associated blank
ACS-GWMW29-02	UG/L	MTL-T	Nickel		B	U	29	Compound detected in associated blank
ACS-GWMW29-02	UG/L	MTL-T	Potassium		BE	UJ	3580	Compound detected in associated blank
ACS-GWMW29-02	UG/L	MTL-T	Zinc			U	22.1	Compound detected in associated blank
ACS-GWMW29-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW29-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW29-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW29-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW29-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW29-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW29-02	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate			U	24	Compound detected in associated blank
ACS-GWMW29-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW29-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW2S-02	UG/L	MTL-T	Aluminum		B	U	104	Compound detected in associated blank
ACS-GWMW2S-02	UG/L	MTL-T	Barium	95.2	BE	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW2S-02	UG/L	MTL-T	Calcium	124000	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW2S-02	UG/L	MTL-T	Chromium		B	U	3.2	Compound detected in associated blank
ACS-GWMW2S-02	UG/L	MTL-T	Copper		B	U	3.9	Compound detected in associated blank

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Sample ID	Unit	Atype	Parameter	Conc	LQ	DVQ	RDL	Comment
ACS-GWMW2S-02	UG/L	MTL-T	Iron	25300	E	J	8	ICP serial dilution QC limit exceeded.
ACS-GWMW2S-02	UG/L	MTL-T	Lead		B	U	2.2	Compound detected in associated blank
ACS-GWMW2S-02	UG/L	MTL-T	Magnesium	35100	E	J	3	ICP serial dilution QC limit exceeded.
ACS-GWMW2S-02	UG/L	MTL-T	Manganese	1340	E	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW2S-02	UG/L	MTL-T	Nickel		B	U	3.1	Compound detected in associated blank
ACS-GWMW2S-02	UG/L	MTL-T	Potassium	4580	BE	J	18	ICP serial dilution QC limit exceeded.
ACS-GWMW2S-02	UG/L	MTL-T	Sodium	17200	E	J	89	ICP serial dilution QC limit exceeded.
ACS-GWMW2S-02	UG/L	MTL-T	Zinc		B	U	12.1	Compound detected in associated blank
ACS-GWMW2S-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW2S-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW2S-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW2S-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW2S-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW2S-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW2S-02	UG/L	SVOC	4-Nitrophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW2S-02	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate		J	U	10	Compound detected in associated blank
ACS-GWMW2S-02	UG/L	SVOC	Hexachloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW2S-02	UG/L	SVOC	Phenol		J	U	10	Compound detected in associated blank
ACS-GWMW2S-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW30-02	UG/L	MTL-T	Chromium		B	U	7.9	Compound detected in associated blank
ACS-GWMW30-02	UG/L	MTL-T	Copper		B	U	3.7	Compound detected in associated blank
ACS-GWMW30-02	UG/L	MTL-T	Lead		B	U	1.6	Compound detected in associated blank
ACS-GWMW30-02	UG/L	MTL-T	Nickel		B	U	8.5	Compound detected in associated blank
ACS-GWMW30-02	UG/L	MTL-T	Potassium		BE	UJ	2780	Compound detected in associated blank
ACS-GWMW30-02	UG/L	MTL-T	Zinc		B	U	17.3	Compound detected in associated blank
ACS-GWMW30-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW30-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW30-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW30-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW30-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW30-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW30-02	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate		J	UJ	10	Compound detected in associated blank
ACS-GWMW30-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW30-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW31-02	UG/L	MTL-T	Calcium	96400	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW31-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW32-02	UG/L	MTL-T	Calcium	66500	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW32-02	UG/L	SVOC	2,4,5-Trichlorophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW32-02	UG/L	SVOC	2,4,6-Trichlorophenol		U	UJ	10	Surrogate QC limit exceeded
ACS-GWMW32-02	UG/L	SVOC	2,4-Dichlorophenol		U	UJ	10	Surrogate QC limit exceeded
ACS-GWMW32-02	UG/L	SVOC	2,4-Dimethylphenol		U	UJ	10	Surrogate QC limit exceeded
ACS-GWMW32-02	UG/L	SVOC	2,4-Dinitrophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW32-02	UG/L	SVOC	2-Chlorophenol		U	UJ	10	Surrogate QC limit exceeded
ACS-GWMW32-02	UG/L	SVOC	2-Methylphenol		U	UJ	10	Surrogate QC limit exceeded
ACS-GWMW32-02	UG/L	SVOC	2-Nitrophenol		U	UJ	10	Surrogate QC limit exceeded
ACS-GWMW32-02	UG/L	SVOC	4,6-Dinitro-2-Methylphenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW32-02	UG/L	SVOC	4-Chloro-3-Methylphenol		U	UJ	10	Surrogate QC limit exceeded
ACS-GWMW32-02	UG/L	SVOC	4-Methylphenol		U	UJ	10	Surrogate QC limit exceeded
ACS-GWMW32-02	UG/L	SVOC	Phenol	12		J	10	Surrogate QC limit exceeded
ACS-GWMW32-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW32-02	UG/L	VOC	Acetone			U	10	Compound detected in associated blank
ACS-GWMW32-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW33-02	UG/L	MTL-T	Aluminum		B	U	153	Compound detected in associated blank
ACS-GWMW33-02	UG/L	MTL-T	Chromium		B	U	5.8	Compound detected in associated blank
ACS-GWMW33-02	UG/L	MTL-T	Copper		B	U	8.6	Compound detected in associated blank
ACS-GWMW33-02	UG/L	MTL-T	Lead		B	U	1.3	Compound detected in associated blank
ACS-GWMW33-02	UG/L	MTL-T	Nickel		B	U	18	Compound detected in associated blank
ACS-GWMW33-02	UG/L	MTL-T	Potassium		E	UJ	15800	Compound detected in associated blank
ACS-GWMW33-02	UG/L	MTL-T	Zinc			U	26.8	Compound detected in associated blank
ACS-GWMW33-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW33-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW33-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW33-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW33-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW33-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded

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Sample ID	Unit	Atype	Parameter	Conc	LQ	DVQ	RDL	Comment
ACS-GWMW33-02	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate			U	31	Compound detected in associated blank
ACS-GWMW33-02	UG/L	VOC	Acetone		J	U	10	Compound detected in associated blank
ACS-GWMW34-02	UG/L	MTL-T	Lead			U	3.8	Compound detected in associated blank
ACS-GWMW34-02	UG/L	MTL-T	Nickel		B	U	33.7	Compound detected in associated blank
ACS-GWMW34-02	UG/L	MTL-T	Potassium		BE	UJ	4820	Compound detected in associated blank
ACS-GWMW34-02	UG/L	MTL-T	Zinc			U	29.6	Compound detected in associated blank
ACS-GWMW34-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW34-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW34-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW34-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW34-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW34-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW34-02	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate			U	14	Compound detected in associated blank
ACS-GWMW34-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW34-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW36-02	UG/L	MTL-T	Calcium	74400	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW36-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW37-02	UG/L	MTL-T	Calcium	27400	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW37-02	UG/L	MTL-T	Lead			U	3.9	Compound detected in associated blank
ACS-GWMW37-02	UG/L	MTL-T	Zinc		B	U	17.5	Compound detected in associated blank
ACS-GWMW37-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW37-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW38-02	MG/L	IND	Ammonia-N	0.262		J	0.1	Duplicate QC limits exceeded
ACS-GWMW38-02	MG/L	IND	TKN	1.12		J	0.1	Spike and Duplicate QC limits exceeded
ACS-GWMW38-02	UG/L	MTL-T	Barium	33.1	BE	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW38-02	UG/L	MTL-T	Calcium	54900	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW38-02	UG/L	MTL-T	Chromium		B	U	4.2	Compound detected in associated blank
ACS-GWMW38-02	UG/L	MTL-T	Copper		B	U	9.7	Compound detected in associated blank
ACS-GWMW38-02	UG/L	MTL-T	Iron	1940	E	J	8	ICP serial dilution QC limit exceeded.
ACS-GWMW38-02	UG/L	MTL-T	Lead		B	U	1.1	Compound detected in associated blank
ACS-GWMW38-02	UG/L	MTL-T	Magnesium	19400	E	J	3	ICP serial dilution QC limit exceeded.
ACS-GWMW38-02	UG/L	MTL-T	Manganese	1270	E	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW38-02	UG/L	MTL-T	Potassium	593	BE	J	18	ICP serial dilution QC limit exceeded.
ACS-GWMW38-02	UG/L	MTL-T	Sodium	5400	E	J	89	ICP serial dilution QC limit exceeded.
ACS-GWMW38-02	UG/L	MTL-T	Zinc			U	72.7	Compound detected in associated blank
ACS-GWMW38-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW38-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW38-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW38-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW38-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW38-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW38-02	UG/L	SVOC	4-Nitrophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW38-02	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate			U	10	Compound detected in associated blank
ACS-GWMW38-02	UG/L	SVOC	Hexachlorobutadiene		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW38-02	UG/L	SVOC	Phenol			U	10	Compound detected in associated blank
ACS-GWMW39-02	MG/L	IND	Ammonia-N	3.76		J	0.1	Duplicate QC limits exceeded
ACS-GWMW39-02	MG/L	IND	TKN	3.77		J	0.1	Spike and Duplicate QC limits exceeded
ACS-GWMW39-02	UG/L	MTL-T	Barium	67.8	BE	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW39-02	UG/L	MTL-T	Calcium	101000	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW39-02	UG/L	MTL-T	Chromium		B	U	2.5	Compound detected in associated blank
ACS-GWMW39-02	UG/L	MTL-T	Copper		B	U	2.8	Compound detected in associated blank
ACS-GWMW39-02	UG/L	MTL-T	Iron	6730	E	J	8	ICP serial dilution QC limit exceeded.
ACS-GWMW39-02	UG/L	MTL-T	Lead		B	U	1	Compound detected in associated blank
ACS-GWMW39-02	UG/L	MTL-T	Magnesium	17500	E	J	3	ICP serial dilution QC limit exceeded.
ACS-GWMW39-02	UG/L	MTL-T	Manganese	779	E	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW39-02	UG/L	MTL-T	Nickel		B	U	3.1	Compound detected in associated blank
ACS-GWMW39-02	UG/L	MTL-T	Potassium	7290	E	J	18	ICP serial dilution QC limit exceeded.
ACS-GWMW39-02	UG/L	MTL-T	Sodium	110000	E	J	89	ICP serial dilution QC limit exceeded.
ACS-GWMW39-02	UG/L	MTL-T	Zinc		B	U	9.5	Compound detected in associated blank
ACS-GWMW39-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW39-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW39-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW39-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW39-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW39-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded

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Sample ID	Unit	Atype	Parameter	Conc	LQ	DVQ	RDL	Comment
ACS-GWMW39-02	UG/L	SVOC	4-Nitrophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW39-02	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate			U	18	Compound detected in associated blank
ACS-GWMW39-02	UG/L	SVOC	Hexachlorobutadiene		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW39-02	UG/L	SVOC	Hexachloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW39-02	UG/L	SVOC	Phenol		J	U	10	Compound detected in associated blank
ACS-GWMW39-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW39-02	UG/L	VOC	Chloroethane	3	J	J	10	Calibration QC limit exceeded
ACS-GWMW3S-02	UG/L	MTL-T	Aluminum		B	U	72.1	Compound detected in associated blank
ACS-GWMW3S-02	UG/L	MTL-T	Barium	112	BE	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW3S-02	UG/L	MTL-T	Calcium	85400	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW3S-02	UG/L	MTL-T	Chromium		B	U	4.3	Compound detected in associated blank
ACS-GWMW3S-02	UG/L	MTL-T	Copper		B	U	3.5	Compound detected in associated blank
ACS-GWMW3S-02	UG/L	MTL-T	Iron	2820	E	J	8	ICP serial dilution QC limit exceeded.
ACS-GWMW3S-02	UG/L	MTL-T	Lead		B	U	3	Compound detected in associated blank
ACS-GWMW3S-02	UG/L	MTL-T	Magnesium	30300	E	J	3	ICP serial dilution QC limit exceeded.
ACS-GWMW3S-02	UG/L	MTL-T	Manganese	618	E	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW3S-02	UG/L	MTL-T	Nickel		B	U	8	Compound detected in associated blank
ACS-GWMW3S-02	UG/L	MTL-T	Potassium	8330	E	J	18	ICP serial dilution QC limit exceeded.
ACS-GWMW3S-02	UG/L	MTL-T	Sodium	24100	E	J	89	ICP serial dilution QC limit exceeded.
ACS-GWMW3S-02	UG/L	MTL-T	Zinc		B	U	17.1	Compound detected in associated blank
ACS-GWMW3S-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW3S-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW3S-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW3S-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW3S-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW3S-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW3S-02	UG/L	SVOC	4-Nitrophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW3S-02	UG/L	SVOC	Hexachloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW3S-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW40-02	MG/L	IND	Ammonia-N		U	UJ	0.1	Duplicate QC limits exceeded
ACS-GWMW40-02	MG/L	IND	TKN	0.608		J	0.1	Spike and Duplicate QC limits exceeded
ACS-GWMW40-02	UG/L	MTL-T	Chromium		B	U	5.7	Compound detected in associated blank
ACS-GWMW40-02	UG/L	MTL-T	Copper		B	U	8.2	Compound detected in associated blank
ACS-GWMW40-02	UG/L	MTL-T	Lead			U	4.6	Compound detected in associated blank
ACS-GWMW40-02	UG/L	MTL-T	Magnesium			U	7030	Compound detected in associated blank
ACS-GWMW40-02	UG/L	MTL-T	Nickel		B	U	7.2	Compound detected in associated blank
ACS-GWMW40-02	UG/L	MTL-T	Potassium		BE	UJ	1030	Compound detected in associated blank
ACS-GWMW40-02	UG/L	MTL-T	Zinc			U	20	Compound detected in associated blank
ACS-GWMW40-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW40-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW40-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW40-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW40-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW40-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW40-02	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate			U	13	Compound detected in associated blank
ACS-GWMW40-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW40-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW41-02	MG/L	IND	Ammonia-N		U	UJ	0.1	Duplicate QC limits exceeded
ACS-GWMW41-02	MG/L	IND	TKN	0.105		J	0.1	Spike and Duplicate QC limits exceeded
ACS-GWMW41-02	UG/L	MTL-T	Aluminum	289		J	17	Duplicate QC exceeded.
ACS-GWMW41-02	UG/L	MTL-T	Barium	17.3	BE	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW41-02	UG/L	MTL-T	Calcium	33300	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW41-02	UG/L	MTL-T	Chromium		B	U	7.4	Compound detected in associated blank
ACS-GWMW41-02	UG/L	MTL-T	Copper		B	UJ	9.2	Compound detected in associated blank
ACS-GWMW41-02	UG/L	MTL-T	Iron	302	E	J	8	ICP serial dilution QC limit exceeded.
ACS-GWMW41-02	UG/L	MTL-T	Lead	10.3		J	1	Duplicate QC exceeded.
ACS-GWMW41-02	UG/L	MTL-T	Magnesium	10900	E	J	3	ICP serial dilution QC limit exceeded.
ACS-GWMW41-02	UG/L	MTL-T	Manganese	72.6	E	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW41-02	UG/L	MTL-T	Nickel		B	U	5.7	Compound detected in associated blank
ACS-GWMW41-02	UG/L	MTL-T	Potassium	359	BE	J	18	ICP serial dilution QC limit exceeded.
ACS-GWMW41-02	UG/L	MTL-T	Sodium	2900	BE	J	89	ICP serial dilution QC limit exceeded.
ACS-GWMW41-02	UG/L	MTL-T	Zinc			UJ	36.8	Compound detected in associated blank
ACS-GWMW41-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW41-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW41-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded

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Sample ID	Unit	Atype	Parameter	Conc	LQ	DVQ	RDL	Comment
ACS-GWMW41-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW41-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW41-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW41-02	UG/L	SVOC	4-Nitrophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW41-02	UG/L	SVOC	Hexachlorobutadiene		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW41-02	UG/L	SVOC	Hexachloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW41-02	UG/L	SVOC	Phenol			U	10	Compound detected in associated blank
ACS-GWMW41-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW41-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW41-92	MG/L	IND	Ammonia-N		U	UJ	0.1	Duplicate QC limits exceeded
ACS-GWMW41-92	MG/L	IND	TKN	0.347		J	0.1	Spike and Duplicate QC limits exceeded
ACS-GWMW41-92	UG/L	MTL-T	Barium	19.3	BE	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW41-92	UG/L	MTL-T	Calcium	33600	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW41-92	UG/L	MTL-T	Chromium		B	U	6.8	Compound detected in associated blank
ACS-GWMW41-92	UG/L	MTL-T	Copper		B	UJ	5.5	Compound detected in associated blank
ACS-GWMW41-92	UG/L	MTL-T	Iron	733	E	J	8	ICP serial dilution QC limit exceeded.
ACS-GWMW41-92	UG/L	MTL-T	Lead	5.3		J	1	Duplicate QC exceeded.
ACS-GWMW41-92	UG/L	MTL-T	Magnesium	11300	E	J	3	ICP serial dilution QC limit exceeded.
ACS-GWMW41-92	UG/L	MTL-T	Manganese	141	E	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW41-92	UG/L	MTL-T	Nickel		B	U	6.3	Compound detected in associated blank
ACS-GWMW41-92	UG/L	MTL-T	Potassium	412	EB	J	18	ICP serial dilution QC limit exceeded.
ACS-GWMW41-92	UG/L	MTL-T	Sodium	2590	EB	J	89	ICP serial dilution QC limit exceeded.
ACS-GWMW41-92	UG/L	MTL-T	Zinc		B	UJ	19.5	Compound detected in associated blank
ACS-GWMW41-92	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW41-92	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW41-92	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW41-92	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW41-92	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW41-92	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW41-92	UG/L	SVOC	4-Nitrophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW41-92	UG/L	SVOC	Hexachlorobutadiene		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW41-92	UG/L	SVOC	Hexachloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW41-92	UG/L	SVOC	Phenol		J	U	10	Compound detected in associated blank
ACS-GWMW41-92	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW41-92	UG/L	VOC	Acetone			U	10	Compound detected in associated blank
ACS-GWMW41-92	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW42-02	UG/L	MTL-T	Barium	71.3	BE	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW42-02	UG/L	MTL-T	Calcium	105000	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW42-02	UG/L	MTL-T	Chromium		B	U	8.1	Compound detected in associated blank
ACS-GWMW42-02	UG/L	MTL-T	Copper		B	U	9.2	Compound detected in associated blank
ACS-GWMW42-02	UG/L	MTL-T	Iron	6300	E	J	8	ICP serial dilution QC limit exceeded.
ACS-GWMW42-02	UG/L	MTL-T	Lead		B	U	2.2	Compound detected in associated blank
ACS-GWMW42-02	UG/L	MTL-T	Magnesium	38700	E	J	3	ICP serial dilution QC limit exceeded.
ACS-GWMW42-02	UG/L	MTL-T	Manganese	597	E	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW42-02	UG/L	MTL-T	Nickel		B	U	7.7	Compound detected in associated blank
ACS-GWMW42-02	UG/L	MTL-T	Potassium	1540	EB	J	18	ICP serial dilution QC limit exceeded.
ACS-GWMW42-02	UG/L	MTL-T	Sodium	11400	E	J	89	ICP serial dilution QC limit exceeded.
ACS-GWMW42-02	UG/L	MTL-T	Zinc		B	U	17.8	Compound detected in associated blank
ACS-GWMW42-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW42-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW42-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW42-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW42-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW42-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW42-02	UG/L	SVOC	4-Nitrophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW42-02	UG/L	SVOC	Hexachloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW42-02	UG/L	SVOC	Phenol		J	U	10	Compound detected in associated blank
ACS-GWMW42-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW42-92	UG/L	MTL-T	Barium	71	BE	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW42-92	UG/L	MTL-T	Calcium	105000	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW42-92	UG/L	MTL-T	Chromium	8.5	B	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW42-92	UG/L	MTL-T	Copper		B	U	11.8	Compound detected in associated blank
ACS-GWMW42-92	UG/L	MTL-T	Iron	6960	E	J	8	ICP serial dilution QC limit exceeded.
ACS-GWMW42-92	UG/L	MTL-T	Lead		B	U	3	Compound detected in associated blank
ACS-GWMW42-92	UG/L	MTL-T	Magnesium	39000	E	J	3	ICP serial dilution QC limit exceeded.

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Sample ID	Unit	Atype	Parameter	Conc	LQ	DVQ	RDL	Comment
ACS-GWMW42-92	UG/L	MTL-T	Manganese	599	E	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW42-92	UG/L	MTL-T	Nickel		B	U	9.5	Compound detected in associated blank
ACS-GWMW42-92	UG/L	MTL-T	Potassium	1530	BE	J	18	ICP serial dilution QC limit exceeded.
ACS-GWMW42-92	UG/L	MTL-T	Sodium	11700	E	J	89	ICP serial dilution QC limit exceeded.
ACS-GWMW42-92	UG/L	MTL-T	Zinc		B	U	18.8	Compound detected in associated blank
ACS-GWMW42-92	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW42-92	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW42-92	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW42-92	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW42-92	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW42-92	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW42-92	UG/L	SVOC	4-Nitrophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW42-92	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate		J	U	10	Compound detected in associated blank
ACS-GWMW42-92	UG/L	SVOC	Hexachlorobutadiene		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW42-92	UG/L	SVOC	Phenol		J	U	10	Compound detected in associated blank
ACS-GWMW42-92	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW43-02	UG/L	MTL-T	Barium	80.6	BE	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW43-02	UG/L	MTL-T	Calcium	123000	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW43-02	UG/L	MTL-T	Iron	22200	E	J	8	ICP serial dilution QC limit exceeded.
ACS-GWMW43-02	UG/L	MTL-T	Magnesium	55400	E	J	3	ICP serial dilution QC limit exceeded.
ACS-GWMW43-02	UG/L	MTL-T	Manganese	586	E	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW43-02	UG/L	MTL-T	Potassium	2770	BE	J	18	ICP serial dilution QC limit exceeded.
ACS-GWMW43-02	UG/L	MTL-T	Sodium	10300	E	J	89	ICP serial dilution QC limit exceeded.
ACS-GWMW43-02	UG/L	MTL-T	Zinc			U	56.5	Compound detected in associated blank
ACS-GWMW43-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW43-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW43-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW43-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW43-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW43-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW43-02	UG/L	SVOC	4-Nitrophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW43-02	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate			U	13	Compound detected in associated blank
ACS-GWMW43-02	UG/L	SVOC	Hexachloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW43-02	UG/L	SVOC	Phenol			U	12	Compound detected in associated blank
ACS-GWMW43-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW44-02	UG/L	MTL-T	Barium	150	BE	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW44-02	UG/L	MTL-T	Calcium	85700	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW44-02	UG/L	MTL-T	Iron	14700	E	J	8	ICP serial dilution QC limit exceeded.
ACS-GWMW44-02	UG/L	MTL-T	Magnesium	36100	E	J	3	ICP serial dilution QC limit exceeded.
ACS-GWMW44-02	UG/L	MTL-T	Manganese	108	E	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW44-02	UG/L	MTL-T	Potassium	2040	BE	J	18	ICP serial dilution QC limit exceeded.
ACS-GWMW44-02	UG/L	MTL-T	Sodium	17400	E	J	89	ICP serial dilution QC limit exceeded.
ACS-GWMW44-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW44-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW44-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW44-02	UG/L	PPCB	E.....		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW44-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW44-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW44-02	UG/L	SVOC	4-Nitrophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW44-02	UG/L	SVOC	Hexachloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW44-02	UG/L	SVOC	Phenol		J	U	10	Compound detected in associated blank
ACS-GWMW44-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW45-02	MG/L	IND	Ammonia-N	1.39		J	0.1	Duplicate QC limits exceeded
ACS-GWMW45-02	MG/L	IND	TKN	1.36		J	0.1	Spike and Duplicate QC limits exceeded
ACS-GWMW45-02	UG/L	MTL-T	Aluminum		B	U	183	Compound detected in associated blank
ACS-GWMW45-02	UG/L	MTL-T	Chromium		B	U	5	Compound detected in associated blank
ACS-GWMW45-02	UG/L	MTL-T	Copper		B	U	4.4	Compound detected in associated blank
ACS-GWMW45-02	UG/L	MTL-T	Nickel		B	U	7.6	Compound detected in associated blank
ACS-GWMW45-02	UG/L	MTL-T	Potassium		E	UJ	6900	Compound detected in associated blank
ACS-GWMW45-02	UG/L	MTL-T	Zinc			UJ	21.4	Compound detected in associated blank
ACS-GWMW45-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW45-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW45-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW45-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW45-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded

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Sample ID	Unit	Atype	Parameter	Conc	LQ	DVQ	RDL	Comment
ACS-GWMW45-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW45-02	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate		J	U	4	Compound detected in associated blank
ACS-GWMW45-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	80	Calibration QC limit exceeded
ACS-GWMW45-02	UG/L	VOC	Chloroethane	120		J	80	Calibration QC limit exceeded
ACS-GWMW46-02	UG/L	MTL-T	Calcium	112000	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW46-02	UG/L	MTL-T	Lead			U	3	Compound detected in associated blank
ACS-GWMW46-02	UG/L	MTL-T	Zinc		B	U	16	Compound detected in associated blank
ACS-GWMW46-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW46-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW47-02	UG/L	MTL-T	Chromium		B	U	6.8	Compound detected in associated blank
ACS-GWMW47-02	UG/L	MTL-T	Copper		B	U	8	Compound detected in associated blank
ACS-GWMW47-02	UG/L	MTL-T	Magnesium		B	U	1950	Compound detected in associated blank
ACS-GWMW47-02	UG/L	MTL-T	Nickel		B	U	4.8	Compound detected in associated blank
ACS-GWMW47-02	UG/L	MTL-T	Potassium		BE	UJ	1050	Compound detected in associated blank
ACS-GWMW47-02	UG/L	MTL-T	Zinc			U	41.5	Compound detected in associated blank
ACS-GWMW47-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW47-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW47-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW47-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW47-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW47-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW48-02	MG/L	IND	Ammonia-N	10		J	0.1	Duplicate QC limits exceeded
ACS-GWMW48-02	MG/L	IND	TKN	8.85		J	0.1	Spike and Duplicate QC limits exceeded
ACS-GWMW48-02	UG/L	MTL-T	Aluminum		B	U	146	Compound detected in associated blank
ACS-GWMW48-02	UG/L	MTL-T	Chromium		B	U	3.9	Compound detected in associated blank
ACS-GWMW48-02	UG/L	MTL-T	Copper		B	U	4.8	Compound detected in associated blank
ACS-GWMW48-02	UG/L	MTL-T	Lead		B	U	2.5	Compound detected in associated blank
ACS-GWMW48-02	UG/L	MTL-T	Nickel		B	U	15.7	Compound detected in associated blank
ACS-GWMW48-02	UG/L	MTL-T	Potassium		E	UJ	8470	Compound detected in associated blank
ACS-GWMW48-02	UG/L	MTL-T	Zinc			U	25.8	Compound detected in associated blank
ACS-GWMW48-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW48-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW48-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW48-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW48-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW48-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW48-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	500	Calibration QC limit exceeded
ACS-GWMW48-02	UG/L	VOC	Chloroethane	670		J	500	Calibration QC limit exceeded
ACS-GWMW49-02	UG/L	MTL-T	Barium	127	BE	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW49-02	UG/L	MTL-T	Calcium	94200	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW49-02	UG/L	MTL-T	Chromium		B	U	4	Compound detected in associated blank
ACS-GWMW49-02	UG/L	MTL-T	Copper		B	U	5.3	Compound detected in associated blank
ACS-GWMW49-02	UG/L	MTL-T	Iron	26700	E	J	8	ICP serial dilution QC limit exceeded.
ACS-GWMW49-02	UG/L	MTL-T	Magnesium	11800	E	J	3	ICP serial dilution QC limit exceeded.
ACS-GWMW49-02	UG/L	MTL-T	Manganese	2150	E	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW49-02	UG/L	MTL-T	Potassium	5340	E	J	18	ICP serial dilution QC limit exceeded.
ACS-GWMW49-02	UG/L	MTL-T	Sodium	29700	E	J	89	ICP serial dilution QC limit exceeded.
ACS-GWMW49-02	UG/L	MTL-T	Zinc			UJ	77.3	Compound detected in associated blank
ACS-GWMW49-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW49-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW49-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW49-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW49-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW49-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW49-02	UG/L	SVOC	4-Nitrophenol		U	UJ	120	Surrogate QC limit exceeded
ACS-GWMW49-02	UG/L	SVOC	Hexachlorobutadiene		U	UJ	50	Calibration QC limit exceeded
ACS-GWMW49-02	UG/L	SVOC	Phenol			U	50	Compound detected in associated blank
ACS-GWMW49-02	UG/L	VOC	Benzene	4800		J	250	Field Duplicate exceeded QC limits .
ACS-GWMW49-02	UG/L	VOC	Chloroethane	540		J	250	Calibration QC limit exceeded
ACS-GWMW49-92	UG/L	MTL-T	Barium	129	BE	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW49-92	UG/L	MTL-T	Calcium	95000	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW49-92	UG/L	MTL-T	Chromium		B	U	4.3	Compound detected in associated blank
ACS-GWMW49-92	UG/L	MTL-T	Copper		B	U	4.5	Compound detected in associated blank
ACS-GWMW49-92	UG/L	MTL-T	Iron	27800	E	J	8	ICP serial dilution QC limit exceeded.
ACS-GWMW49-92	UG/L	MTL-T	Lead			U	3.1	Compound detected in associated blank

Summary of Validation Qualified Data
June 1997 Groundwater Sampling Round
ACS Site

Sample ID	Unit	Atype	Parameter	Conc	LQ	DVQ	RDL	Comment
ACS-GWMW49-92	UG/L	MTL-T	Magnesium	11800	E	J	3	ICP serial dilution QC limit exceeded.
ACS-GWMW49-92	UG/L	MTL-T	Manganese	2170	E	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW49-92	UG/L	MTL-T	Potassium	5260	E	J	18	ICP serial dilution QC limit exceeded.
ACS-GWMW49-92	UG/L	MTL-T	Sodium	29600	E	J	89	ICP serial dilution QC limit exceeded.
ACS-GWMW49-92	UG/L	MTL-T	Zinc			UJ	41.9	Compound detected in associated blank
ACS-GWMW49-92	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW49-92	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW49-92	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW49-92	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW49-92	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW49-92	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW49-92	UG/L	SVOC	4-Nitrophenol		U	UJ	120	Surrogate QC limit exceeded
ACS-GWMW49-92	UG/L	SVOC	Hexachlorobutadiene		U	UJ	50	Calibration QC limit exceeded
ACS-GWMW49-92	UG/L	SVOC	Phenol			U	68	Compound detected in associated blank
ACS-GWMW49-92	UG/L	VOC	Benzene	6200		J	400	Field Duplicate exceeded QC limits
ACS-GWMW49-92	UG/L	VOC	Chloroethane	890		J	400	Calibration QC limit exceeded
ACS-GWMW4D-02	UG/L	MTL-T	Chromium		B	U	2.7	Compound detected in associated blank
ACS-GWMW4D-02	UG/L	MTL-T	Copper		B	U	4.3	Compound detected in associated blank
ACS-GWMW4D-02	UG/L	MTL-T	Lead		B	U	2.1	Compound detected in associated blank
ACS-GWMW4D-02	UG/L	MTL-T	Nickel		B	U	2.5	Compound detected in associated blank
ACS-GWMW4D-02	UG/L	MTL-T	Potassium		BE	UJ	4880	Compound detected in associated blank
ACS-GWMW4D-02	UG/L	MTL-T	Zinc		B	U	18.8	Compound detected in associated blank
ACS-GWMW4D-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW4D-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW4D-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW4D-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW4D-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW4D-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW4D-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW4D-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW4S-02	UG/L	MTL-T	Chromium		B	U	5.8	Compound detected in associated blank
ACS-GWMW4S-02	UG/L	MTL-T	Copper		B	U	5.9	Compound detected in associated blank
ACS-GWMW4S-02	UG/L	MTL-T	Lead		B	U	2.2	Compound detected in associated blank
ACS-GWMW4S-02	UG/L	MTL-T	Nickel		B	U	17.2	Compound detected in associated blank
ACS-GWMW4S-02	UG/L	MTL-T	Potassium		E	UJ	23000	Compound detected in associated blank
ACS-GWMW4S-02	UG/L	MTL-T	Zinc			U	20.4	Compound detected in associated blank
ACS-GWMW4S-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW4S-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW4S-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW4S-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW4S-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW4S-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW4S-02	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate		J	U	10	Compound detected in associated blank
ACS-GWMW4S-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	100	Calibration QC limit exceeded
ACS-GWMW4S-02	UG/L	VOC	Chloroethane	1300		J	100	Calibration QC limit exceeded
ACS-GWMW50-02	UG/L	MTL-T	Calcium	131000	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW50-02	UG/L	MTL-T	Lead			U	4.3	Compound detected in associated blank
ACS-GWMW50-02	UG/L	MTL-T	Zinc		B	U	16.9	Compound detected in associated blank
ACS-GWMW50-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW50-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW51-02	UG/L	MTL-T	Barium	386	E	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW51-02	UG/L	MTL-T	Calcium	137000	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW51-02	UG/L	MTL-T	Chromium		B	U	4.6	Compound detected in associated blank
ACS-GWMW51-02	UG/L	MTL-T	Copper		B	U	4.4	Compound detected in associated blank
ACS-GWMW51-02	UG/L	MTL-T	Iron	6590	E	J	8	ICP serial dilution QC limit exceeded.
ACS-GWMW51-02	UG/L	MTL-T	Lead		B	U	2.1	Compound detected in associated blank
ACS-GWMW51-02	UG/L	MTL-T	Magnesium	61800	E	J	3	ICP serial dilution QC limit exceeded.
ACS-GWMW51-02	UG/L	MTL-T	Manganese	89.4	E	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW51-02	UG/L	MTL-T	Nickel		B	U	5.9	Compound detected in associated blank
ACS-GWMW51-02	UG/L	MTL-T	Potassium	3710	BE	J	18	ICP serial dilution QC limit exceeded.
ACS-GWMW51-02	UG/L	MTL-T	Sodium	103000	E	J	89	ICP serial dilution QC limit exceeded.
ACS-GWMW51-02	UG/L	MTL-T	Zinc		B	U	11.9	Compound detected in associated blank
ACS-GWMW51-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW51-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW51-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded

Summary of Validation Qualified Data
June 1997 Groundwater Sampling Round
ACS Site

Sample ID	Unit	Atype	Parameter	Conc	LQ	DVQ	RDL	Comment
ACS-GWMW51-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW51-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW51-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW51-02	UG/L	SVOC	4-Nitrophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW51-02	UG/L	SVOC	Hexachlorobutadiene		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW51-02	UG/L	SVOC	Hexachloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW51-02	UG/L	SVOC	Phenol	25		J	10	Surrogate QC limit exceeded
ACS-GWMW51-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW51-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW52-02	UG/L	MTL-T	Barium	308	E	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW52-02	UG/L	MTL-T	Calcium	113000	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW52-02	UG/L	MTL-T	Copper		B	U	7.6	Compound detected in associated blank
ACS-GWMW52-02	UG/L	MTL-T	Iron	6820	E	J	8	ICP serial dilution QC limit exceeded.
ACS-GWMW52-02	UG/L	MTL-T	Magnesium	43300	E	J	3	ICP serial dilution QC limit exceeded.
ACS-GWMW52-02	UG/L	MTL-T	Manganese	222	E	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW52-02	UG/L	MTL-T	Potassium	3990	BE	J	18	ICP serial dilution QC limit exceeded.
ACS-GWMW52-02	UG/L	MTL-T	Sodium	138000	E	J	89	ICP serial dilution QC limit exceeded.
ACS-GWMW52-02	UG/L	MTL-T	Zinc			U	21.2	Compound detected in associated blank
ACS-GWMW52-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW52-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW52-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW52-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW52-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW52-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW52-02	UG/L	SVOC	4-Nitrophenol		U	UJ	25	Surrogate QC limit exceeded
ACS-GWMW52-02	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate			U	39	Compound detected in associated blank
ACS-GWMW52-02	UG/L	SVOC	Hexachlorobutadiene		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW52-02	UG/L	SVOC	Hexachloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW52-02	UG/L	SVOC	Phenol			U	16	Compound detected in associated blank
ACS-GWMW52-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW52-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW53-02	UG/L	MTL-T	Calcium	258000	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW53-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW53-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW54-02	UG/L	MTL-T	Barium	149	BE	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW54-02	UG/L	MTL-T	Calcium	123000	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW54-02	UG/L	MTL-T	Iron	4270	E	J	8	ICP serial dilution QC limit exceeded.
ACS-GWMW54-02	UG/L	MTL-T	Magnesium	51900	E	J	3	ICP serial dilution QC limit exceeded.
ACS-GWMW54-02	UG/L	MTL-T	Manganese	163	E	J	1	ICP serial dilution QC limit exceeded.
ACS-GWMW54-02	UG/L	MTL-T	Potassium	2950	BE	J	18	ICP serial dilution QC limit exceeded.
ACS-GWMW54-02	UG/L	MTL-T	Sodium	19400	E	B	89	ICP serial dilution QC limit exceeded.
ACS-GWMW54-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW54-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW54-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW54-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW54-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW54-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW54-02	UG/L	SVOC	4-Nitrophenol		U	UJ	50	Surrogate QC limit exceeded
ACS-GWMW54-02	UG/L	SVOC	Bis(2-Ethylhexyl)Phthalate			U	39	Compound detected in associated blank
ACS-GWMW54-02	UG/L	SVOC	Hexachlorobutadiene		U	UJ	20	Calibration QC limit exceeded
ACS-GWMW54-02	UG/L	SVOC	Hexachloroethane		U	UJ	20	Calibration QC limit exceeded
ACS-GWMW54-02	UG/L	SVOC	Phenol	82		J	20	Surrogate QC limit exceeded
ACS-GWMW54-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW54-02	UG/L	VOC	Acetone	10		U	10	Compound detected in associated blank
ACS-GWMW54-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW55-02	UG/L	MTL-T	Calcium	80000	E	J	7	ICP serial dilution QC limit exceeded.
ACS-GWMW55-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW55-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW6-02	UG/L	MTL-T	Zinc			U	27.1	Compound detected in associated blank
ACS-GWMW6-02	UG/L	PPCB	4,4'-DDD		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW6-02	UG/L	PPCB	4,4'-DDE		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW6-02	UG/L	PPCB	4,4'-DDT		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW6-02	UG/L	PPCB	Dieldrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW6-02	UG/L	PPCB	Endrin		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW6-02	UG/L	PPCB	Endrin aldehyde		U	UJ	0.1	Breakdown QC exceeded

Summary of Validation Qualified Data
June 1997 Groundwater Sampling Round
ACS Site

Sample ID	Unit	Atype	Parameter	Conc	LQ	DVQ	RDL	Comment
ACS-GWMW6-02	UG/L	PPCB	Endrin ketone		U	UJ	0.1	Breakdown QC exceeded
ACS-GWMW6-02	UG/L	SVOC	2,2'-Oxybis(1-Chloropropane)		U	UJ	20	Calibration QC limit exceeded
ACS-GWMW6-02	UG/L	SVOC	4-Nitrophenol		U	UJ	50	Surrogate QC limit exceeded
ACS-GWMW6-02	UG/L	SVOC	Hexachlorobutadiene		U	UJ	20	Calibration QC limit exceeded
ACS-GWMW6-02	UG/L	SVOC	Hexachlorocyclopentadiene		U	UJ	20	Calibration QC limit exceeded
ACS-GWMW6-02	UG/L	VOC	1,1,1-Trichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW6-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWMW6-02	UG/L	VOC	Chloroethane	140		J	10	Calibration QC limit exceeded
ACS-GWTB01-02	UG/L	VOC	1,1-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWTB01-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWTB02-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWTB03-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWTB04-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWTB04-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWTB05-02	UG/L	VOC	1,2-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWTB05-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWTB06-02	UG/L	VOC	1,1,1-Trichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWTB06-02	UG/L	VOC	1,1-Dichloroethane		U	UJ	10	Calibration QC limit exceeded
ACS-GWTB06-02	UG/L	VOC	Chloroethane		U	UJ	10	Calibration QC limit exceeded

VOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWFB01-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 6/24/97 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645013

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0626115.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: not dec. Date Analyzed: 06/26/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	9	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWFB01-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645013

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703809.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/27/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/04/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWFB01-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645013

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703809.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/27/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/04/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	104 5	JB
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWFB01-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645013

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0703809.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: decanted: (Y/N) Date Extracted: 06/27/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/04/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	14.85	4	J
000134-62-3	DIETHYLTOLUAMIDE	18.75	4	JN
	UNKNOWN	30.69	3	J

VALIDATED

FORM I SV-TIC

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FB01
ACS-GWFB01-02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645013

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P2070197_069.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/25/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:06/27/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/11/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWFB01-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970645013

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0626115.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: not dec. Date Analyzed: 06/26/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

VALIDATED

FORM I VOA-TIC

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWTB01-02

6.24.97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644801

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0626103.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: not dec. Date Analyzed: 06/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane	UJ	10	U
75-09-2	Methylene Chloride		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane	UJ	10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
124-48-1	Dibromochloromethane		10	U
79-00-5	1,1,2-Trichloroethane		10	U
71-43-2	Benzene		10	U
10061-02-6	Trans-1,3-Dichloropropene		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-88-3	Toluene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWTB01-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970644801

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0626103.D

Level: (low/med) LOW Date Received: 06/25/97

% Moisture: not dec. Date Analyzed: 06/26/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICs Found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

VALIDATED

VOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWFB02-02

Lab Name: IEA-NC Method: SOW 1/91

DATE SAMPLED: 6/25/97

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970647909

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0627114.D

Level: (low/med) LOW Date Received: 06/26/97(1)

% Moisture: not dec. Date Analyzed: 06/27/97(2)

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER=1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane	UJ	10	U
75-09-2	Methylene Chloride		10	U
67-64-1	Acetone		16	
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane	UJ	10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
124-48-1	Dibromochloromethane		10	U
79-00-5	1,1,2-Trichloroethane		10	U
71-43-2	Benzene		10	U
10061-02-6	Trans-1,3-Dichloropropene		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-88-3	Toluene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWFB02-02

DATE SAMPLED: 6/25/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970647909

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 7021411.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/27/97 (2)

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/97 (6)

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: CRQL MULTIPLIER = 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q
108-95-2	Phenol		4	J
111-44-4	Bis(2-Chloroethyl)Ether		10	U
95-57-8	2-Chlorophenol		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
95-48-7	2-Methylphenol		10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)		10	U
106-44-5	4-Methylphenol		10	U
621-64-7	N-Nitrosodi-N-Propylamine		10	U
67-72-1	Hexachloroethane	UJ	10	U
98-95-3	Nitrobenzene		10	U
78-59-1	Isophorone		10	U
88-75-5	2-Nitrophenol		10	U
105-67-9	2,4-Dimethylphenol		10	U
111-91-1	Bis(2-Chloroethoxy) Methane		10	U
120-83-2	2,4-Dichlorophenol		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U
91-20-3	Naphthalene		10	U
106-47-8	4-Chloroaniline		10	U
87-68-3	Hexachlorobutadiene	UJ	10	U
59-50-7	4-Chloro-3-Methylphenol		10	U
91-57-6	2-Methylnaphthalene		10	U
77-47-4	Hexachlorocyclopentadiene		10	U
88-06-2	2,4,6-Trichlorophenol		10	U
95-95-4	2,4,5-Trichlorophenol		25	U
91-58-7	2-Chloronaphthalene		10	U
88-74-4	2-Nitroaniline		25	U
131-11-3	Dimethylphthalate		10	U
208-96-8	Acenaphthylene		10	U
606-20-2	2,6-Dinitrotoluene		10	U
99-09-2	3-Nitroaniline		25	U
83-32-9	Acenaphthene		10	U

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWFB02-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970647909

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 7021411.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/27/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/l	Q
51-28-5	2,4-Dinitrophenol		25	U
100-02-7	4-Nitrophenol	UJ	25	U
132-64-9	Dibenzofuran		10	U
121-14-2	2,4-Dinitrotoluene		10	U
84-66-2	Diethylphthalate		10	U
7005-72-3	4-Chlorophenyl-phenylether		10	U
86-73-7	Fluorene		10	U
100-01-6	4-Nitroaniline		25	U
534-52-1	4,6-Dinitro-2-Methylphenol		25	U
86-30-6	N-Nitrosodiphenylamine		10	U
101-55-3	4-Bromophenyl-phenylether		10	U
118-74-1	Hexachlorobenzene		10	U
87-86-5	Pentachlorophenol		25	U
85-01-8	Phenanthrene		10	U
120-12-7	Anthracene		10	U
86-74-8	Carbazole		10	U
84-74-2	Di-N-Butylphthalate		10	U
206-44-0	Fluoranthene		10	U
129-00-0	Pyrene		10	U
85-68-7	Butylbenzylphthalate		10	U
91-94-1	3,3'-Dichlorobenzidine		10	U
56-55-3	Benzo(A)Anthracene		10	U
218-01-9	Chrysene		10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate		10	U
117-84-0	Di-N-Octylphthalate		10	U
205-99-2	Benzo(B)Fluoranthene		10	U
207-08-9	Benzo(K)Fluoranthene		10	U
50-32-8	Benzo(A)Pyrene		10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene		10	U
53-70-3	Dibenz(A,H)Anthracene		10	U
191-24-2	Benzo(G,H,I)Perylene		10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWFB02-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970647909

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 7021411.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: decanted: (Y/N) Date Extracted: 06/27/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/02/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000134-62-3	DIETHYLTOLUAMIDE	17.64	JN 2	JN
000080-05-7	PHENOL, 4,4'-(1-METHYLETHYLI	23.83	↓ 18	JN

→ 000080-05-7 PHENOL, 4,4'-(1-METHYLETHYLIDENE)bi

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.: ACS-GW-FB02-02

FB02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

DATE SAMPLED: 6/25/97

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970647909

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4070197_031.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/26/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 06/28/97 (3)

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/10/97 (12)

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CRQL MULTIPLIER = 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
319-84-6	alpha-BHC		0.050	U
319-85-7	beta-BHC		0.050	U
319-86-8	delta-BHC		0.050	U
58-89-9	gamma-BHC (Lindane)		0.050	U
76-44-8	Heptachlor		0.050	U
309-00-2	Aldrin		0.050	U
1024-57-3	Heptachlor epoxide		0.050	U
959-98-8	Endosulfan I		0.050	U
60-57-1	Dieldrin		0.10	U
72-55-9	4,4'-DDE	UJ	0.10	U
72-20-8	Endrin	UJ	0.10	U
33213-65-9	Endosulfan II		0.10	U
72-54-8	4,4'-DDD	UJ	0.10	U
1031-07-8	Endosulfan sulfate		0.10	U
50-29-3	4,4'-DDT	UJ	0.10	U
72-43-5	Methoxychlor		0.50	U
53494-70-5	Endrin ketone	UJ	0.10	U
7421-93-4	Endrin aldehyde	UJ	0.10	U
5103-71-9	alpha-Chlordane		0.050	U
5103-74-2	gamma-Chlordane		0.050	U
8001-35-2	Toxaphene		5.0	U
12674-11-2	Aroclor-1016		1.0	U
11104-28-2	Aroclor-1221		2.0	U
11141-16-5	Aroclor-1232		1.0	U
53469-21-9	Aroclor-1242		1.0	U
12672-29-6	Aroclor-1248		1.0	U
11097-69-1	Aroclor-1254		1.0	U
11096-82-5	Aroclor-1260		1.0	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWFB02-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970647909

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0627114.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. Date Analyzed: 06/27/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

1A

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWTB02-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-054 6/25/97 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647614

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0701105.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. Date Analyzed: 07/01/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

VALIDATED

CLIENT SAMPLE NO.

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWTB02-02

Lab Name: IEA-NC Method: SOW 1/91

ab Code: IEA Case No.: 2240-054 SDG No.: 06448

Matrix: (soil/water) WATER Lab Sample ID: 970647614

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0701105.D

Level: (low/med) LOW Date Received: 06/26/97

% Moisture: not dec. Date Analyzed: 07/01/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
Number TICs Found: 0 (ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

VALIDATED

FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWFB03-02 6-26-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651101

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0701511.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: not dec. Date Analyzed: 07/01/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	3	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

VALIDATED

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWFB03-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651101

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0707808.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	Phenol	10	U
111-44-4	Bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWFB03-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651101

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0707808.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	6	J
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWFB03-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651101

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0707808.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: decanted: (Y/N) Date Extracted: 06/30/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/07/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 6

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	7.94	4	J
	UNKNOWN	7.99	4	J
	UNKNOWN	8.23	3	J
004291-79-6	CYCLOHEXANE, 1-METHYL-2-PROPYL-	8.58	5	JN
	UNKNOWN	8.87	4	JB
	UNKNOWN	14.62	5	J

VALIDATED

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FB03
ACS-GWFB03-02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651101

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4071597_023.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/27/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:07/01/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/17/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	UJ 0.10	U
72-20-8	Endrin	UJ 0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	UJ 0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	UJ 0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	UJ 0.10	U
7421-93-4	Endrin aldehyde	UJ 0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

VALIDATED

1E

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWFB03-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970651101

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0701511.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: not dec. Date Analyzed: 07/01/97

GC Column: DB-624 ID: .53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

VALIDATED

VOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWTB03-02

DATE SAMPLED 6/26/97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970650313

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0701108.D

Level: (low/med) LOW Date Received: 06/27/97 (1)

% Moisture: not dec. Date Analyzed: 07/01/97 (5)

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CRQL MULTIPLIER = 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACS-GWTB03-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-056 SDG No.: 06478

Matrix: (soil/water) WATER Lab Sample ID: 970650313

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0701108.D

Level: (low/med) LOW Date Received: 06/27/97

% Moisture: not dec. Date Analyzed: 07/01/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

1A

CLIENT SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWTB04-02 6-27-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970702312

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0706108.D

Level: (low/med) LOW Date Received: 06/28/97

% Moisture: not dec. Date Analyzed: 07/06/97

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane	ui J	10	U
75-09-2	Methylene Chloride		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane	ui J	10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
124-48-1	Dibromochloromethane		10	U
79-00-5	1,1,2-Trichloroethane		10	U
71-43-2	Benzene		10	U
10061-02-6	Trans-1,3-Dichloropropene		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-88-3	Toluene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWTB04-02

Lab Name: IEA-NC   Method: SOW 1/91

Lab Code: IEA   Case No.: 2240-059   SDG No.: 06511

Matrix: (soil/water) WATER   Lab Sample ID: 970702312

Sample wt/vol: 5 (g/mL) ml   Lab File ID: 0706108.D

Level: (low/med) LOW   Date Received: 06/28/97

% Moisture: not dec.   Date Analyzed: 07/06/97

GC Column: DB-624 ID: 0.53(mm)   Dilution Factor: 1.0

Soil Extract Volume: (uL)   Soil Aliquot Volume: (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWFB04-02 6-27-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970702314

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0706111.D

Level: (low/med) LOW Date Received: 06/28/97

% Moisture: not dec. Date Analyzed: 07/06/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane	J	10	U
75-09-2	Methylene Chloride		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane	UJ	10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
124-48-1	Dibromochloromethane		10	U
79-00-5	1,1,2-Trichloroethane		10	U
71-43-2	Benzene		10	U
10061-02-6	Trans-1,3-Dichloropropene		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-88-3	Toluene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWFB04-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970702314

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0708809.D

Level: (low/med) LOW Date Received: 06/28/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q.
108-95-2	Phenol	10	U
111-44-4	Bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

VALIDATED

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWFB04-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970702314

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0708809.D

Level: (low/med) LOW Date Received: 06/28/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWFB04-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970702314

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0708809.D

Level: (low/med) LOW Date Received: 06/28/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/09/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	8.75	4	J

FORM I SV-TIC

VALIDATED

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FB04
ACS-GWFB04-02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970702314

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4071597_039.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 06/28/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:07/02/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/18/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWFB04-02

Lab Name: IEA-NC   Method: SOW 1/91

Lab Code: IEA   Case No.: 2240-059   SDG No.: 06511

Matrix: (soil/water) WATER   Lab Sample ID: 970702314

Sample wt/vol: 5 (g/mL) ml   Lab File ID: 0706111.D

Level: (low/med) LOW   Date Received: 06/28/97

% Moisture: not dec.   Date Analyzed: 07/06/97

GC Column: DB-624 ID: 0.53(mm)   Dilution Factor: 1.0

Soil Extract Volume: (uL)   Soil Aliquot Volume: (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-[redacted]FB05-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970705002

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0709J08.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: not dec. Date Analyzed: 07/10/97

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L		Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane	45	10	U
75-09-2	Methylene Chloride		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane	45	10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane	45	10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
124-48-1	Dibromochloromethane		10	U
79-00-5	1,1,2-Trichloroethane		10	U
71-43-2	Benzene		10	U
10061-02-6	Trans-1,3-Dichloropropene		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-88-3	Toluene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWFB05-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970705002

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0710H08.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/l	Q
108-95-2	[redacted]		[redacted]	
111-44-4	Bis(2-Chloroethyl)Ether		10	U
95-57-8	2-Chlorophenol		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
95-48-7	2-Methylphenol		10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)		10	U
106-44-5	4-Methylphenol		10	U
621-64-7	N-Nitrosodi-N-Propylamine		10	U
67-72-1	Hexachloroethane		10	U
98-95-3	Nitrobenzene	UJ	10	U
78-59-1	Isophorone		10	U
88-75-5	2-Nitrophenol		10	U
105-67-9	2,4-Dimethylphenol		10	U
111-91-1	Bis(2-Chloroethoxy) Methane		10	U
120-83-2	2,4-Dichlorophenol		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U
91-20-3	Naphthalene		10	U
106-47-8	4-Chloroaniline		10	U
87-68-3	Hexachlorobutadiene	UJ	10	U
59-50-7	4-Chloro-3-Methylphenol		10	U
91-57-6	2-Methylnaphthalene		10	U
77-47-4	Hexachlorocyclopentadiene	UJ	10	U
88-06-2	2,4,6-Trichlorophenol		10	U
95-95-4	2,4,5-Trichlorophenol		25	U
91-58-7	2-Chloronaphthalene		10	U
88-74-4	2-Nitroaniline	UJ	25	U
131-11-3	Dimethylphthalate		10	U
208-96-8	Acenaphthylene		10	U
606-20-2	2,6-Dinitrotoluene		10	U
99-09-2	3-Nitroaniline		25	U
83-32-9	Acenaphthene		10	U

[redacted]

1C

CLIENT SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ACS-GWFB05-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970705002

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0710H08.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

VALIDATED

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWFB05-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970705002

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0710H08.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/10/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000080-05-7	~~PHENOL, 4,4'-(1-METHYLETHYLI~~	25.17	~~6~~	~~JN~~

FORM I SV-TIC

VALIDATED

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FB05
HCS-GWFB05-02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970705002

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4071597_051.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 07/01/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 07/03/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/18/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
319-84-6	alpha-BHC		0.050	U
319-85-7	beta-BHC		0.050	U
319-86-8	delta-BHC		0.050	U
58-89-9	gamma-BHC (Lindane)		0.050	U
76-44-8	Heptachlor		0.050	U
309-00-2	Aldrin		0.050	U
1024-57-3	Heptachlor epoxide		0.050	U
959-98-8	Endosulfan I		0.050	U
60-57-1	Dieldrin	UJ	0.10	U
72-55-9	4,4'-DDE	UJ	0.10	U
72-20-8	Endrin	UJ	0.10	U
33213-65-9	Endosulfan II		0.10	U
72-54-8	4,4'-DDD	UJ	0.10	U
1031-07-8	Endosulfan sulfate		0.10	U
50-29-3	4,4'-DDT	UJ	0.10	U
72-43-5	Methoxychlor		0.50	U
53494-70-5	Endrin ketone	UJ	0.10	U
7421-93-4	Endrin aldehyde	UJ	0.10	U
5103-71-9	alpha-Chlordane		0.050	U
5103-74-2	gamma-Chlordane		0.050	U
8001-35-2	Toxaphene		5.0	U
12674-11-2	Aroclor-1016		1.0	U
11104-28-2	Aroclor-1221		2.0	U
11141-16-5	Aroclor-1232		1.0	U
53469-21-9	Aroclor-1242		1.0	U
12672-29-6	Aroclor-1248		1.0	U
11097-69-1	Aroclor-1254		1.0	U
11096-82-5	Aroclor-1260		1.0	U

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWFB05-02

Lab Name: IEA-NC   Method: SOW 1/91

Lab Code: IEA   Case No.: 2240-064   SDG No.: 07050

Matrix: (soil/water) WATER   Lab Sample ID: 970705002

Sample wt/vol: 5 (g/mL) ml   Lab File ID: 0709J08.D

Level: (low/med) LOW   Date Received: 07/01/97

% Moisture: not dec.   Date Analyzed: 07/10/97

GC Column: DB-624 ID: 0.53(mm)   Dilution Factor: 1.0

Soil Extract Volume: (uL)   Soil Aliquot Volume: (uL)

Number TICs Found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWTB05-02 6-30-97

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-059 SDG No.: 06511

Matrix: (soil/water) WATER Lab Sample ID: 970704715

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0709103.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: not dec. Date Analyzed: 07/09/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	ug/l	Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane	U5	10	U
75-09-2	Methylene Chloride		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane	U5	10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
124-48-1	Dibromochloromethane		10	U
79-00-5	1,1,2-Trichloroethane		10	U
71-43-2	Benzene		10	U
10061-02-6	Trans-1,3-Dichloropropene		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-88-3	Toluene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWTB05-02

Lab Name: IEA-NC   Method: SOW 1/91

Lab Code: IEA   Case No.: 2240-059   SDG No.: 06511

Matrix: (soil/water) WATER   Lab Sample ID: 970704715

Sample wt/vol: 5 (g/mL) ml   Lab File ID: 0709103.D

Level: (low/med) LOW   Date Received: 07/01/97

% Moisture: not dec.   Date Analyzed: 07/09/97

GC Column: DB-624 ID: 0.53(mm)   Dilution Factor: 1.0

Soil Extract Volume: (uL)   Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICs Found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

VALIDATED

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWFB05-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970705002

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0709J08.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: not dec. Date Analyzed: 07/10/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l		Q
74-87-3	Chloromethane		10	U
74-83-9	Bromomethane		10	U
75-01-4	Vinyl Chloride		10	U
75-00-3	Chloroethane	UJ	10	U
75-09-2	Methylene Chloride		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		10	U
75-34-3	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane	UJ	10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane	UJ	10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		10	U
124-48-1	Dibromochloromethane		10	U
79-00-5	1,1,2-Trichloroethane		10	U
71-43-2	Benzene		10	U
10061-02-6	Trans-1,3-Dichloropropene		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
108-88-3	Toluene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

VALIDATED

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ACS-GWFB05-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970705002

Sample wt/vol: 5 (g/mL) ml Lab File ID: 0709J08.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: not dec. Date Analyzed: 07/10/97

GC Column: DB-624 ID: 0.53(mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

Number TICs Found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

VALIDATED

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWFB05-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970705002

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0710H08.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
108-95-2	[redacted]	10	U
111-44-4	Bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitrosodi-N-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	Bis(2-Chloroethoxy) Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWFB05-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970705002

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0710H08.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/10/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/l	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-N-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(A)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	Bis(2-Ethylhexyl)Phthalate	10	U
117-84-0	Di-N-Octylphthalate	10	U
205-99-2	Benzo(B)Fluoranthene	10	U
207-08-9	Benzo(K)Fluoranthene	10	U
50-32-8	Benzo(A)Pyrene	10	U
193-39-5	Indeno(1,2,3-Cd)Pyrene	10	U
53-70-3	Dibenz(A,H)Anthracene	10	U
191-24-2	Benzo(G,H,I)Perylene	10	U

VALIDATED

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ACS-GWFB05-02

Lab Name: IEA-NC Method: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970705002

Sample wt/vol: 1000 (g/mL) ml Lab File ID: 0710H08.D

Level: (low/med) LOW Date Received: 07/01/97

% Moisture: decanted: (Y/N) Date Extracted: 07/03/97

Concentrated Extract Volume: 1000(uL) Date Analyzed: 07/10/97

Injection Volume: 2 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs Found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/l

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
000080-05-7	~~PHENOL, 4,4'-(1-METHYLETHYLI~~	25.17	~~6~~	~~JN~~

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

FB05
HCS-GWFB05-02

Lab Name: INDUSTRIAL & ENVIRONMENTA Contract: SOW 1/91

Lab Code: IEA Case No.: 2240-064 SDG No.: 07050

Matrix: (soil/water) WATER Lab Sample ID: 970705002

Sample wt/vol: 1000 (g/mL) ML Lab File ID: P4071597_051.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 07/01/97

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:07/03/97

Concentrated Extract Volume: 10000(uL) Date Analyzed: 07/18/97

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		Q
319-84-6	alpha-BHC		0.050	U
319-85-7	beta-BHC		0.050	U
319-86-8	delta-BHC		0.050	U
58-89-9	gamma-BHC (Lindane)		0.050	U
76-44-8	Heptachlor		0.050	U
309-00-2	Aldrin		0.050	U
1024-57-3	Heptachlor epoxide		0.050	U
959-98-8	Endosulfan I		0.050	U
60-57-1	Dieldrin	UJ	0.10	U
72-55-9	4,4'-DDE	UJ	0.10	U
72-20-8	Endrin	UJ	0.10	U
33213-65-9	Endosulfan II		0.10	U
72-54-8	4,4'-DDD	UJ	0.10	U
1031-07-8	Endosulfan sulfate		0.10	U
50-29-3	4,4'-DDT	UJ	0.10	U
72-43-5	Methoxychlor		0.50	U
53494-70-5	Endrin ketone	UJ	0.10	U
7421-93-4	Endrin aldehyde	UJ	0.10	U
5103-71-9	alpha-Chlordane		0.050	U
5103-74-2	gamma-Chlordane		0.050	U
8001-35-2	Toxaphene		5.0	U
12674-11-2	Aroclor-1016		1.0	U
11104-28-2	Aroclor-1221		2.0	U
11141-16-5	Aroclor-1232		1.0	U
53469-21-9	Aroclor-1242		1.0	U
12672-29-6	Aroclor-1248		1.0	U
11097-69-1	Aroclor-1254		1.0	U
11096-82-5	Aroclor-1260		1.0	U

QA/QC DATA

INORGANIC ANALYSES DATA SHEET

FB01
ACS-GWFB01-02

ab Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

ab Code: IEA___ Case No:2240_054___ SAS No.: _____ SDG No.: 06448_

a _x (soil/water): WATER Lab Sample ID: 970645013

evel (low/med): LOW__ Date Received: 06/25/97

Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	[illegible]	[illegible]		P_
7440-36-0	Antimony_	2.0	U		P_
7440-38-2	Arsenic__	2.0	U		P_
7440-39-3	Barium___	[illegible]	[illegible]		P_
7440-41-7	Beryllium	1.0	U		P_
7440-43-9	Cadmium__	1.0	U		P_
7440-70-2	Calcium__	[illegible]	B	E	P_
7440-47-3	Chromium_	1.0	U		P_
7440-48-4	Cobalt___	1.0	U		P_
7440-50-8	Copper___	[illegible]	B		P_
7439-89-6	Iron_____	[illegible]	B		P_
7439-92-1	Lead_____	[illegible]	[illegible]		P_
7439-95-4	Magnesium	[illegible]	[illegible]		P_
7439-96-5	Manganese	1.0	U		P_
7439-97-6	Mercury__	0.20	U		CV
7440-02-0	Nickel___	[illegible]	[illegible]		P_
7440-09-7	Potassium	[illegible]	[illegible]		P_
7782-49-2	Selenium_	2.0	U		P_
7440-22-4	Silver___	1.0	U		P_
7440-23-5	Sodium___	[illegible]	[illegible]		P_
7440-28-0	Thallium_	2.0	B		P_
7440-62-2	Vanadium_	1.0	U		P_
7440-66-6	Zinc_____	[illegible]	[illegible]		P_
_____	Cyanide__	10.0	U		CA

)lor Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

)lor After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

)mments:

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FB02

b Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

b Code: IEA___ Case No:2240_056___ SAS No.: _____ SDG No.: 06478_

.. ix (soil/water): WATER Lab Sample ID: 970647909

:vel (low/med): LOW__ Date Received: 06/26/97

Solids: __0.0 6/25/97

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	U 19.7	B		P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	J 1.2	B	E	P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	UJ 187	B	E	P
7440-47-3	Chromium	2.1	B		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	4.5	B		P
7439-89-6	Iron	J 22.9	B	E	P
7439-92-1	Lead	1.0	B		P
7439-95-4	Magnesium	UJ 41.0	B	E	P
7439-96-5	Manganese	J 1.2	B	E	P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	1.9	B		P
7440-09-7	Potassium	J 18.0	B	E	P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	UJ 432	B	E	P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	15.8	B		P
	Cyanide	10.0	U		CA

olor Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

olor After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

omments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWFB03-02
6-2697

Lab Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

1 Code: IEA___ Case No:2240_059___ SAS No.: _____ SDG No.: 06511_

Matrix (soil/water): WATER Lab Sample ID: 970651101

Level (low/med): LOW__ Date Received: 06/27/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	52.4	B		P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	1.2	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	7840			P
7440-47-3	Chromium	2.2	B		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	2.3	B		P
7439-89-6	Iron	33.0	B		P
7439-92-1	Lead	1.3	B		P
7439-95-4	Magnesium	1170	B		P
7439-96-5	Manganese	2.9	B		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	1.0	U		P
7440-09-7	Potassium	J 4550	B	E	P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	459	B		P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	10.0	B		P
	Cyanide	10.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

ACS-GWFB04-02
6-27-97

Lab Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

Code: IEA___ Case No:2240_059___ SAS No.: _____ SDG No.: 06511_

Matrix (soil/water): WATER Lab Sample ID: 970702314

Level (low/med): LOW__ Date Received: 06/28/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	34.7	B		P
7440-36-0	Antimony	2.0	U		P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	2.2	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	10700			P
7440-47-3	Chromium	1.8	B		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	2.5	B		P
7439-89-6	Iron	11.1	B		P
7439-92-1	Lead	1.6	B		P
7439-95-4	Magnesium	1520	B		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	18.6	B		P
7440-09-7	Potassium	J 5830		E	P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	537	B		P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	9.6	B		P
	Cyanide	10.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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INORGANIC ANALYSES DATA SHEET

FB05
HLS-GW-FB05-02

Lab Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

Lab Code: IEA___ Case No:2240_064___ SAS No.: _____ SDG No.: 07050_

Matrix (soil/water): WATER Lab Sample ID: 970705002

Level (low/med): LOW__ Date Received: 07/01/97

% Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	[redacted]			P
7440-36-0	Antimony	[redacted]			P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	[redacted]			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	[redacted]			P
7440-47-3	Chromium	[redacted]	B		P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	[redacted]			P
7439-89-6	Iron	[redacted]			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	[redacted]			P
7439-96-5	Manganese	[redacted]			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	[redacted]			P
7440-09-7	Potassium	[redacted]			P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	[redacted]			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	[redacted]			P
_____	Cyanide	10.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

Color After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

Comments:

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EPA SAMPLE NO.

INORGANIC ANALYSES DATA SHEET

FB05
HLS-GW-FB05-02

ab Name: INDUSTRIAL_AND_ENVIRONMEN Contract: _____

Code: IEA___ Case No:2240_064___ SAS No.: _____ SDG No.: 07050_

atrix (soil/water): WATER Lab Sample ID: 970705002

evel (low/med): LOW__ Date Received: 07/01/97

Solids: __0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L_

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	[illegible] UJ			P
7440-36-0	Antimony	[illegible]			P
7440-38-2	Arsenic	2.0	U		P
7440-39-3	Barium	[illegible]			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-70-2	Calcium	[illegible]			P
7440-47-3	Chromium	[illegible]			P
7440-48-4	Cobalt	1.0	U		P
7440-50-8	Copper	[illegible]			P
7439-89-6	Iron	[illegible]			P
7439-92-1	Lead	1.0	U		P
7439-95-4	Magnesium	[illegible]			P
7439-96-5	Manganese	[illegible]			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	[illegible]			P
7440-09-7	Potassium	[illegible]			P
7782-49-2	Selenium	2.0	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	[illegible]			P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	1.0	U		P
7440-66-6	Zinc	UJ [illegible]			P
	Cyanide	10.0	U		CA

olor Before: COLORLESS Clarity Before: CLEAR_ Texture: _____

olor After: COLORLESS Clarity After: CLEAR_ Artifacts: _____

omments:

FORM I - IN

3/90

VALIDATED

APPENDIX F

BLACK & VEATCH
SPLIT GROUNDWATER ANALYTICAL RESULTS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JUL 21 1997

Subject: Review of Region 5 Data for American Chemical Services Code:J7

From: Charles T. Elly, Director Chuck Elly
Region 5 Central Regional Laboratory

To: B&V

Attached are the results for American Chemical Services Code:J7
CRL request number 970298
for analyses for Antimony, Arsenic, Cadmium, Lead, Mercury, Selenium and Thallium
Results are reported for sample designations: 97ZB05S01, 97ZB05S02, 97ZB05D02, 97ZB05S03, 97ZB05S04, 97ZB05S05, 97ZB05S06, 97ZB05S07, 97ZB05D07, 97ZB05S08, 97ZB05S09, 97ZB05S10, 97ZB05S11, 97ZB05S12, 97ZB05S13, 97ZB05S14, 97ZB05S15, 97ZB05S16, 97ZB05S17, 97ZB05R01 and 97ZB05R02

Results Status:
(x) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

Comments on Data Quality by Reviewer

It is possible that some low level lead near the detection limit of 2 µg Pb/L represent trace contamination. No laboratory blanks showed this contamination, but when the positive result for field blank 97ZB05R01 was checked by analysis of an undigested aliquot, a value below detection was obtained. A number of other samples with results just above detection were checked, and results between 1 to 2 µg Pb/L lower were obtained. A number of the samples contained particulate matter, so this check of undigested samples is of limited utility. If lead results in the realm of 2-6 µg/L are important to the study, reanalysis can be requested.

Comments by Laboratory Director or Quality Control Coordinator

Method Number: GFAA Metals
Date Generated: July 16, 1997
Auther: Bai Yuen

Site Name: American Chemical Services/PE
Charge Number(s): ESE51087/ESE51088
TDF Number: 5104-108/5104-109
WAD Number: 05-97-1-04

GFAA NARRATIVE for Data Sets 970298 and 970131

Twenty-one water samples, 97ZB05S01-S17, D02, D07, R01 and R02 were collected from the American Chemical Services site. All samples were submitted for the analysis of total arsenic, cadmium, lead, selenium and thallium by GFAA. The samples were collected on 06/24/97 to 06/26/97 and were received properly preserved by the CRL on 06/25/97 and 06/27/97. All samples were part of data set 970298.

All samples were digested following standard CRL GFAA digestion protocols. The samples were digested on 06/27/97. All analyses were performed within the six month holding time.

A June (May) Performance Evaluation Sample, 97OI16S01, was digested and analyzed with this set of samples. The data set number for the PE sample is 970131.

Analytical results were stored in .DAT files CDBY630.DAT, PBBY702.DAT, TLBY701.DAT, TLBY701A.DAT and database files ASSE070997 and ASSE071097.

Arsenic

Data Files ASSE070997 and ASSE071097

Arsenic was analyzed without incident.

All QC was within the specified control limits.

Cadmium

Data File CDBY630.DAT

Cadmium was analyzed without incident.

All QC was within the specified control limits.

Lead

Data File PBBY702.DAT

Lead was analyzed without incident.

All QC was within the specified control limits.

Narrative by: GS for Bai Yuen ESAT
Date: 7-15-97

Method Number: 3114B
Date Generated: 07-07-97
TDF Numbers: 5104-108,109

SiteNames: AMER. CHEM.SERVICE&PE (JUNE)
Charge Numbers: ESE-51-087,088
Work Assignment Number: 05-97-1-04

FIAS NARRATIVE for Data Sets 970298 and 970131

21 water samples from data set 970298 (97ZB05S01- S17, D02, D07, R01 and R02) and one PE sample from data set 970131 (97OI16S01) were submitted for the analysis of total antimony by hydride AA. The samples were collected on 06/24-26/97.

All samples, QC checks and standards were digested following standard CRL FIAS digestion protocols for waters on 06-27-97 and analyzed on 06-30-97. The data for samples from data sets 970298 and 970131 and all required QC were acceptable.

The hold time for metals is six months. All samples were analyzed within the six month hold time for metals. A spiked blank, used as a laboratory control sample (LFM), was digested and analyzed with the set of samples. Analytical results for 970298 and 970131 were stored in .DAT file SBLL0630.DAT.

Narrative by: I Feonce ESAT
Date: 7/7/97

SAMPLE RESULTS (UG/L) FOR DATA SET 970298

	Sample # 97ZB05	As	Sb	Cd	Pb	Se	Tl
MW46	S01	3	1U	0.2U	2U	1U	2U
MW50	S02	0.9	1U	0.2U	2U	2U	2U
	D02	1	1U	0.2U	3 U	2U	2U
MW11	S03	0.5	1U	0.2U	4 U	0.5U	2U
MW28	S04	1	1U	0.2U	4 U	0.5U	2U
MW23	S05	0.5	1U	0.2U	2U	0.5U	2U
MW8	S06	5	1U	0.2U	2 U	0.5U	2U
MW15	S07	42	1U	0.2U	2U	2U	2U
	D07	39	1U	0.2U	2U	2U	2U
MW37	S08	0.8	1U	0.3	5 U	0.5U	2U
MW38	S09	1	1U	0.2U	2U	0.5U	2U
MW18	S10	0.5U	1U	0.2U	2U	3	2U
MW51	S11	1	1U	0.2U	3 U	0.5U	2U
MW1S	S12	0.5	1U	0.2U	2U	2U	2U
MW5S	S13	8	1U	0.2U	2U	1U	2U
MW4D	S14	0.5U	1U	0.2U	2 U	0.5U	2U
MW2S	S15	3	1U	0.2U	2U	1U	2U
MW4S	S16	6	2	0.2U	2 U	2U	2U
MW10C	S17	3	1U	0.2	8 U	1U	2U
	R01	0.5U	1U	0.2U	2	0.5U	2U
	R02	0.5U	1U	0.2U	2U	0.5U	2U
	ANALYST DATE	B. Lyon 7-16-97	T. Lee 7-16-97	B. Lyon 7-16-97	B. Lyon 7-16-97	B. Lyon 7-16-97	B. Lyon 7-16-97

21 July 97

FINAL SAMPLE REPORT FOR Hg
DATA SET 970298
AMERICAN CHEM. SERVICE
(ug/L)

	SAMPLE	DATE	ANALYST	Hg RESULT REPORTED
MW46	97ZB05S01	07/02/97	L. Li	0.2 U
MW50	97ZB05S02	07/02/97	L. Li	0.2 U
	97ZB05D02	07/02/97	L. Li	0.2 U
MW11	97ZB05S03	07/02/97	L. Li	0.2 U
MW28	97ZB05S04	07/02/97	L. Li	0.2 U
MW23	97ZB05S05	07/02/97	L. Li	0.2 U
MW8	97ZB05S06	07/02/97	L. Li	0.2 U
MW15	97ZB05S07	07/02/97	L. Li	0.2 U
	97ZB05D07	07/02/97	L. Li	0.2 U
MW37	97ZB05S08	07/02/97	L. Li	0.2 U
MW38	97ZB05S09	07/02/97	L. Li	0.2 U
MW18	97ZB05S10	07/02/97	L. Li	0.2 U
MW51	97ZB05S11	07/02/97	L. Li	0.2 U
M1S	97ZB05S12	07/02/97	L. Li	0.2 U
M3S	97ZB05S13	07/02/97	L. Li	0.2 U
M4D	97ZB05S14	07/02/97	L. Li	0.2 U
M2S	97ZB05S15	07/02/97	L. Li	0.2 U
M4S	97ZB05S16	07/02/97	L. Li	0.2 U
MW10C	97ZB05S17	07/02/97	L. Li	0.2 U
	97ZB05R01	07/02/97	L. Li	0.2 U
	97ZB05R02	07/02/97	L. Li	0.2 U

JW
21 July 97

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: SEP 24 1997

Subject: Review of Region 5 Data for **AMERICAN CHEMICAL SERVICES**

From: Charles T. Elly, Director Chi Vang for
Region 5 Central Regional Laboratory

To: B & V

Attached are the results for **AMERICAN CHEMICAL SERVICES**
CRL request number **970298**
for analyses for **Cyanide**
Results are reported for sample designations: 97ZB05S01, 97ZB05S02, 97ZB05D02, 97ZB05S03, 97ZB05S04, 97ZB05S05, 97ZB05S06, 97ZB05D07, 97ZB05S08, 97ZB05S09, 97ZB05S10, 97ZB05S11, 97ZB05S12, 97ZB05S13, 97ZB05S14, 97ZB05S15, 97ZB05S16, 97ZB05S17, 97ZB05R01, and 97ZB05R02.

Results Status:

(X) Acceptable for Use: **Cyanide**
( ) Data Qualified, but Acceptable for use:
( ) Data Unacceptable for Use:

( ) Sewer Disposal Criteria Met;

Comments on Data Quality by Reviewer:

All the water samples submitted for Cyanide analysis with the exception of sample 97ZB05S07 were assayed and the results are attached. This sample was inadvertently acidified during verification of preservation for metals analysis when the analyst observation indicated that it was not acidic. All other required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

Comments on Sample Results:

All the cyanide results are acceptable for use.

Comments by Laboratory Director or Quality Control Coordinator:

Francis A. Alvarez 9/22/97
Review and Date (X) Reviewed ( ) Unreviewed

[signature] 23 Sep 97
Team Leader and Date (X) Reviewed ( ) Unreviewed

QC Coordinator and Date ( ) Reviewed ( ) Unreviewed

Data Management Coordinator and Date Received

Date Transmitted

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
SL - 10C

Received by and Date

Comments:

Method: 335.2NS
Site: American Chem. Svc. / May PE
Date: July 15, 1997

TDF: 5104-108/ 5104-109
PWO: ESE51087/ ESE 51088
WAD: 05-97-1-04

NARRATIVE

21 water samples were collected from American Chem. Services (data set 970298) between June 24 and 26, 1997. The samples were received by CRL between June 25 and 27, 1997. All samples are routinely checked for pH to determine whether they were properly preserved in the field. Sample aliquots for metals are also checked for the same reason. Samples 97ZB05S07 and 97ZB05D07 were improperly tagged. The cyanide aliquot of 97ZB05S07 was inadvertently acidified by the metals analyst in the belief that this was actually the metals aliquot (and that the sample had been improperly preserved). The error was discovered, and, it was decided not to analyze this sample for cyanide..

The May reswell performance evaluation (PE) sample (data set 970131) was prepared by diluting 1 ml of the concentrate to 100 ml using a 0.01 N sodium hydroxide solution.

All samples were analyzed within the 14-day holding time limit.

The PE sample and the remaining 20 samples from 970298 were distilled over two days using CRL merthods with one deviation. All matrix spikes and distilled AQC samples were spiked at a level of 40 ug/l CN instead of the 100 ug/l level required by the method. The distillates were analyzed using a Lachat QuickChem AE analyzer. In evaluating the usability of the data, the method acceptance limits were used on a percentage basis (e.g. 100 $\pm$ 15 ug/l became 100 $\pm$ 15%, or 40 $\pm$ 6 ug/l).

All QC audits were in control; all data are acceptable.

J. Gary
9-22-97

AMERICAN CHEMICAL SERVICES (970298)

CYANIDE RESULTS (UG/L) FOR DATA SETS 970298, ~~970131~~ cg

Sample #	Analysis Date	Concentration	Analyst	Date
97ZB05S01	7-7-97	8U	J. Garry	7-15-97
97ZB05S02	7-7-97	8U	J. Garry	7-15-97
97ZB05D02	7-7-97	8U	J. Garry	7-15-97
97ZB05S03	7-7-97	8U	J. Garry	7-15-97
97ZB05S04	7-7-97	8U	J. Garry	7-15-97
97ZB05S05	7-7-97	8U	J. Garry	7-15-97
97ZB05S06	7-7-97	8U	J. Garry	7-15-97
97ZB05D07	7-7-97	8U	J. Garry	7-15-97
97ZB05S08	7-7-97	8U	J. Garry	7-15-97
97ZB05S09	7-7-97	8U	J. Garry	7-15-97
97ZB05S10	7-7-97	8U	J. Garry	7-15-97
97ZB05S11	7-7-97	8U	J. Garry	7-15-97
97ZB05S12	7-7-97	8U	J. Garry	7-15-97
97ZB05S13	7-7-97	8U	J. Garry	7-15-97
97ZB05S14	7-7-97	8U	J. Garry	7-15-97
97ZB05S15	7-7-97	8U	J. Garry	7-15-97
97ZB05S16	7-7-97	8U	J. Garry	7-15-97
97ZB05S17	7-7-97	8U	J. Garry	7-15-97
97ZB05R01	7-7-97	8U	J. Garry	7-15-97
97ZB05R02	7-7-97	8U	J. Garry	7-15-97
~~97OH16S01~~	~~7-7-97~~	~~8U~~	J. Garry	7-15-97

DMedia 7-25-97

FAA 9/22/97

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JUL 21 1997

Subject: Review of Region 5 Data for American Chemical Services Code:J7

From: Charles T. Elly, Director Chuck Elly
Region 5 Central Regional Laboratory

To: Black & Veatch

Attached are the results for American Chemical Services Code:J7
CRL request number 970298
for analyses for ICP
Results are reported for sample designations: 97ZB05S01, 97ZB05S02, 97ZB05D02, 97ZB05S03, 97ZB05S04, 97ZB05S05, 97ZB05S06, 97ZB05S07, 97ZB05D07, 97ZB05S08, 97ZB05S09, 97ZB05S10, 97ZB05S11, 97ZB05S12, 97ZB05S13, 97ZB05S14, 97ZB05S15, 97ZB05S16, 97ZB05S17, 97ZB05R01 and 97ZB05R02

Results Status:
(x) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

Comments on Data Quality by Reviewer

Only two matrix spikes were used for this batch, even though CRL SOPs ask for 1 per 10 samples. A third matrix spike had been prepared, but after digestion, it was determined that the digestion acids were omitted from that spike. After determining that the samples were unaffected, repreparation was deemed unnecessary.

Comments by Laboratory Director or Quality Control Coordinator

Review Record for American Chemical Services Code:J7

John C. Moore 18 July 97

Peer/Task Monitor Review and Date (X) Reviewed ( ) Unreviewed

John C. Moore 18 July 97

Team Leader and Date (X) Reviewed ( ) Unreviewed

Chuck E Ulz 7/18/97

QC Coordinator and Date ( ) Reviewed (-) Unreviewed
(position vacant)

Sylvia Griffin JUL 21 1997

Data Management Coordinator and Date Received

Date Transmitted JUL 21 1997

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments:

7-9-97

Method Number: _200.7_____ Site Name: American Chemical Services_____
Date Generated: June27, 1997_____ Work Unit Number: 05-97104__
Author: _R.Dilg,Lockheed-ESAT_____ TDF Number: 5104-108_____
Charge Number: ESE-51-087___

ICP NARRATIVE

This narrative covers the analysis of 21 water samples (970298) from the above named site sampled on June 24th, 25th, and 26th for ICP metals analysis.

Data Set	Sample Nos.
970298	97ZB05S01, S02, D02, S03, S04, S05, S06, S07, D07, S08, S09, S10, S11, S12, S13, S14, S15, S16, S17, R01, R02

Routine CRL microwave digestion procedures were used to prepare the samples for ICP analysis. The sample digests were analyzed using the 1160 ICP unit along with analysis run method SED5; the ICP analysis results were stored to RUN768. The sample digests were also analyzed for K using the TJA 61 along with analysis run method K_ONLY; the ICP K analysis results were stored to RUN768K.

RUN 768

The following lists the out-of-control QC audit check results for analysis run 768:

Blanks:	INSTR BLANK 1:	Cr2055	- 10.03 µg/L
	INSTR BLANK 4:	Li6707	10.53 "
		K 7664	-5256.4 "
AQCs:	AQC 1:	Ag3280	7.9%R
		Sn1899	6.1 "
		V 2924	6.0 "
	AQC 1A:	Pb2203	5.1%R
		Ag3280	8.8 "
		Sn1899	5.2 "
		V 2924	6.4 "
	HIGH AQC 1:	K 7664	25.6%R
	HIGH AQC 3:	K 7664	14.2%R
	HIGH AQC 4:	K 7664	21.3%R

7-9-97

RUN 768 (continued)

Matrix Spike: K 7664, 30 %R
(97ZB05S05)

Matrix Spike: K 7664, 48 %R
(97ZB05S10)

As mentioned previously, the K values from the 1160 ICP unit were not used but were reported using TJA 61 values obtained from a separately conducted analysis run (see below).

All As, Cd, and Pb sample results were too low to be reliably reported using ICP values. Refer to GFAA and / or FIAS analyses for reported As, Cd, and Pb sample results.

Li and Sn results are not of concern for this data set.

The ICP instrument was restandardized just prior to the start of the sample analysis run; the applicable mid range QC audit checks (AQC's) preceding this run began with AQC 1B. Similarly, the instrument blank QC checks that apply for this run began with INSTR BLANK 1B. All Ag, Cr, and V sample results are usable.

The matrix spiked sample results for 97ZB05S17 were not used since it appeared that somehow digestion acids were not added to this sample. This was discussed with Dr. J. V. Morris.

Since RLIMS was unavailable at this time, simulated or "RLIMS-like" sample report forms were generated and were edited using Word Perfect so that the sample analysis data could be reported at least via hard copy reports. In addition, no RLIMS entry was performed as of the time of the writing of this case narrative.

RUN 768K

All K sample results are usable. (As was just stated in the previous paragraph the spiked sample result for 97ZB05S17 was not used).

MW10C

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH — SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE — ACCOUNT NO: TFA301
LABORATORY: ESAT — SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S17 — FIELD: 97ZB05S17

COLLECTED: — RECEIVED: 26,27 JUNE 97 — ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	3120	(ug/L)
Barium	343	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	128000	(ug/L)
Chromium	38.5	(ug/L)
Cobalt	6.2	(ug/L)
Copper	11.4	(ug/L)
Iron	15200	(ug/L)
Magnesium	59700	(ug/L)
Manganese	235.1	(ug/L)
Nickel	39.7	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	178000	(ug/L)
Vanadium	7.9	(ug/L)
Zinc	54.8	(ug/L)

ANALYZED BY: [signature] 7-7-97

[signature] 15 Jul 97

MW46

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH — SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE — ACCOUNT NO: TFA301
LABORATORY: ESAT — SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S01 — FIELD: 97ZB05S01

COLLECTED: — RECEIVED: 26,27 JUNE 97 — ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	248	(ug/L)
Barium	116	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	119000	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	22600	(ug/L)
Magnesium	30600	(ug/L)
Manganese	1450	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	60000	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: _____ 7-7-97

18 July 97

MW50

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S02
FIELD: 97ZB05S02

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	1710	(ug/L)
Barium	240	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	140000	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	5330	(ug/L)
Magnesium	66600	(ug/L)
Manganese	110	(ug/L)
Nickel	20 U	(ug/L)
Potassium	9620	(ug/L)
Silver	6 U	(ug/L)
Sodium	298000	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: [signature] 7-7-97

[signature] 10 July 97

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH — SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE — ACCOUNT NO: TFA301
LABORATORY: ESAT — SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05D02 — FIELD: 97ZB05D02

COLLECTED: — RECEIVED: 26,27 JUNE 97 — ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	1410	(ug/L)
Barium	240	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	139000	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	4860	(ug/L)
Magnesium	66600	(ug/L)
Manganese	101	(ug/L)
Nickel	20 U	(ug/L)
Potassium	9650	(ug/L)
Silver	6 U	(ug/L)
Sodium	295000	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: RD 7-7-97

IVA 18 July 97

MW11

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH — SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE — ACCOUNT NO: TFA301
LABORATORY: ESAT — SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S03 — FIELD: 97ZB05S03

COLLECTED: — RECEIVED: 26,27 JUNE 97 — ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	627	(ug/L)
Barium	17.9	(ug/L)
Beryllium	1 U	(ug/L)
alcium	38700	(ug/L)
Chromium	12.2	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6.1	(ug/L)
Iron	3660	(ug/L)
Magnesium	15300	(ug/L)
Manganese	173	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	4350	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: RD 7-7-97

10 July 97

MW28

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S04
FIELD: 97ZB05S04

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	533	(ug/L)
Barium	112	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	85100	(ug/L)
Chromium	50.3	(ug/L)
Cobalt	6 U	(ug/L)
Copper	11.3	(ug/L)
Iron	3320	(ug/L)
Magnesium	38400	(ug/L)
Manganese	79.5	(ug/L)
Nickel	45.2	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	15000	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: [signature] 7-7-97

[signature] 1 July 97

MW23

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH — SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE — ACCOUNT NO: TFA301
LABORATORY: ESAT — SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S05 — FIELD: 97ZB05S05

COLLECTED: — RECEIVED: 26,27 JUNE 97 — ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	149	(ug/L)
Barium	119	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	73800	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	5990	(ug/L)
Magnesium	19100	(ug/L)
Manganese	252	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	63700	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: [illegible] 7-7-97

JVM
18 July 97

MW8

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH — SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE — ACCOUNT NO: TFA301
LABORATORY: ESAT — SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S06 — FIELD: 97ZB05S06

COLLECTED: — RECEIVED: 26,27 JUNE 97 — ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	121	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	53800	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	2080	(ug/L)
Magnesium	17000	(ug/L)
Manganese	127	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	12600	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: [signature] 7-7-97

lvm 18 July 97

MW15

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S07
FIELD: 97ZB05S07

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	106	(ug/L)
Barium	1150	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	74200	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	6140	(ug/L)
Magnesium	73400	(ug/L)
Manganese	186	(ug/L)
Nickel	20 U	(ug/L)
Potassium	86700	(ug/L)
Silver	6 U	(ug/L)
Sodium	389000	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: [signature] 7-7-97

1st 18 July 97

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH — SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE — ACCOUNT NO: TFA301
LABORATORY: ESAT — SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05D07 — FIELD: 97ZB05D07

COLLECTED: — RECEIVED: 26,27 JUNE 97 — ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	1130	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	75000	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	5820	(ug/L)
Magnesium	73100	(ug/L)
Manganese	195	(ug/L)
Nickel	20 U	(ug/L)
Potassium	85300	(ug/L)
Silver	6 U	(ug/L)
Sodium	382000	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: RD 7-7-97

1 JULY 97

MW37

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH — SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE — ACCOUNT NO: TFA301
LABORATORY: ESAT — SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S08 — FIELD: 97ZB05S08

COLLECTED: — RECEIVED: 26,27 JUNE 97 — ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	449	(ug/L)
Barium	20.7	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	26600	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	2160	(ug/L)
Magnesium	9600	(ug/L)
Manganese	146	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	5400	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: RD 7-7-97

1st 1 July 97

MW38

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S09
FIELD: 97ZB05S09

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	35.1	(ug/L)
eryllium	1 U	(ug/L)
alcium	60700	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	1780	(ug/L)
Magnesium	20800	(ug/L)
Manganese	1350	(ug/L)
Nickel	26.2	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	5400	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	63.2	(ug/L)

ANALYZED BY: [signature] 7-7-97

[signature] 1 July 97

MW18

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH — SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE — ACCOUNT NO: TFA301
LABORATORY: ESAT — SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S10 — FIELD: 97ZB05S10

COLLECTED: — RECEIVED: 26,27 JUNE 97 — ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	24.7	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	69200	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	80 U	(ug/L)
Magnesium	21200	(ug/L)
Manganese	18.6	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	75500	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: [signature] 7-7-97

[signature] 18 July 97

MW51

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH — SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE — ACCOUNT NO: TFA301
LABORATORY: ESAT — SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S11 — FIELD: 97ZB05S11

COLLECTED: — RECEIVED: 26,27 JUNE 97 — ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	196	(ug/L)
Barium	373	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	133000	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	6570	(ug/L)
Magnesium	58900	(ug/L)
Manganese	83.2	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	98500	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: [signature] 7-7-97

[signature] 18 July 97

MIS

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH — SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE — ACCOUNT NO: TFA301
LABORATORY: ESAT — SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S12 — FIELD: 97ZB05S12

COLLECTED: — RECEIVED: 26,27 JUNE 97 — ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	98.9	(ug/L)
Barium	544	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	228000	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	21200	(ug/L)
Magnesium	76100	(ug/L)
Manganese	588	(ug/L)
Nickel	20 U	(ug/L)
Potassium	38800	(ug/L)
Silver	6 U	(ug/L)
Sodium	63600	(ug/L)
Vanadium	5.5	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: _____ 7-7-97

7-8-97

M3S

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH — SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE — ACCOUNT NO: TFA301
LABORATORY: ESAT — SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S13 — FIELD: 97ZB05S13

COLLECTED: — RECEIVED: 26,27 JUNE 97 — ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	116	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	90200	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	3310	(ug/L)
Magnesium	30500	(ug/L)
Manganese	611	(ug/L)
Nickel	20 U	(ug/L)
Potassium	7230	(ug/L)
Silver	6 U	(ug/L)
Sodium	23500	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: [signature] 7-7-97

[signature] 14 July 97

M4D

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH — SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE — ACCOUNT NO: TFA301
LABORATORY: ESAT — SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S14 — FIELD: 97ZB05S14

COLLECTED: — RECEIVED: 26,27 JUNE 97 — ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	83.6	(ug/L)
Barium	186	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	88700	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	1830	(ug/L)
Magnesium	41400	(ug/L)
Manganese	32.7	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	74300	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: [signature] 7-7-97

[signature] 18 July 97

M2S

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE ACCOUNT NO: TFA301
LABORATORY: ESAT SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S15 FIELD: 97ZB05S15

COLLECTED: RECEIVED: 26,27 JUNE 97 ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	100	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	133000	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	29500	(ug/L)
Magnesium	36600	(ug/L)
Manganese	1380	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	16700	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: RD 7-7-97

[illegible] 18 July 97

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH — SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE — ACCOUNT NO: TFA301
LABORATORY: ESAT — SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05R01 — FIELD: 97ZB05R01

COLLECTED: — RECEIVED: 26,27 JUNE 97 — ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	6 U	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	500 U	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	80 U	(ug/L)
Magnesium	100 U	(ug/L)
Manganese	5 U	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	1000 U	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: RD 7-7-97

JVM 1 July 97

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05R02
FIELD: 97ZB05R02

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	80 U	(ug/L)
Barium	6 U	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	500 U	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	6 U	(ug/L)
Copper	6 U	(ug/L)
Iron	80 U	(ug/L)
Magnesium	100 U	(ug/L)
Manganese	5 U	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	1000 U	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: [signature] 7-7-97

[signature] 18 July 97

M4S

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH — SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE — ACCOUNT NO: TFA301
LABORATORY: ESAT — SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S16 — FIELD: 97ZB05S16

COLLECTED: — RECEIVED: 26,27 JUNE 97 — ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	710	(ug/L)
Barium	823	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	486000	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	8.9	(ug/L)
Copper	6 U	(ug/L)
Iron	48700	(ug/L)
Magnesium	51400	(ug/L)
Manganese	316	(ug/L)
Nickel	20 U	(ug/L)
Potassium	13800	(ug/L)
Silver	6 U	(ug/L)
Sodium	144000	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: _____ 7-7-97

1 July 97

MW10C

EPA CRL - REGION V
FINAL RESULTS REPORT
REPORT PRODUCED ON: 3 JULY 97

SAMPLE OGANIZATION: BLACK & VEATCH
SAMPLE BATCH ID: 970298
SAMPLE REQUESTOR: ROBERT LANGE
ACCOUNT NO: TFA301
LABORATORY: ESAT
SAMPLE FACILITY: AMERICAN CHEMICAL SERVICES

SAMPLE: 97ZB05S17
FIELD: 97ZB05S17

COLLECTED:
RECEIVED: 26,27 JUNE 97
ANALYZED: 1 JULY 97

COMPOUND	AMOUNT	(Units)
Aluminum	3120	(ug/L)
Barium	343	(ug/L)
Beryllium	1 U	(ug/L)
Calcium	128000	(ug/L)
Chromium	38.5	(ug/L)
Cobalt	6.2	(ug/L)
Copper	11.4	(ug/L)
Iron	15200	(ug/L)
Magnesium	59700	(ug/L)
Manganese	235.1	(ug/L)
Nickel	39.7	(ug/L)
Potassium	5000 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	178000	(ug/L)
Vanadium	7.9	(ug/L)
Zinc	54.8	(ug/L)

ANALYZED BY: [signature] 7-7-97

[signature] 18 Jul 97

Region 5 Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Region V CLP Data
Received for Review on July 10, 1997

FROM: Stephen L. Ostrodka, Chief (HSRL-5J)
Superfund Technical Support Section

for Stephen Ostrodka
Richard L Bgnish
7/23/97

TO: Data User: B+V

We have reviewed the data for the following case:

SITE NAME: American Chem SVCS (IN)

CASE NUMBER: 25525 SDG NUMBER: EBZA7

Number and Type of Samples: 18 (water)

Sample Numbers: EBZA0-3, 7-9, EBZB0, 2-8 EBYZ7-9

Laboratory: REI (Rollins) Hrs. for Review: 22 hrs + 1.5 w.t.

Following are our findings:
the data are useable and acceptable with the qualifications described in the attached narrative.
Richard L Bgnish

cc: Regional TPO
Cecilia ~~Luckett~~
SM-5J MOORE

NARRATIVE

LABORATORY: REI
CASE: 25525
SDG: EBZA7
SITE: American Chemical Services

The samples (EBZA0-3, EBZA7-9, EBZB0, EBZB2-8, EBYZ7-9) were collected on 06/24-25/97. The laboratory received eighteen (18) low level water samples on 06/25-26/97 in good condition for organic analytes following the SOW OLC02.1. Samples EBZA3, EBZB2, EBZB5 and EBZB8 were analyzed for the list of VOA analytes only. The remaining samples were analyzed for the full list of organic analytes.

VLCS03, SLCSD2, PLCSD1 were identified as the Laboratory Control Samples For the VOA, SVOA and Pest/PCB fractions, respectively.

Samples EBZA3, EBZB2, EBZB5 and EBZB8 were identified as the trip blanks. Samples EBZA1 and EBZB6 were identified as the field blanks. Sample EBZA7 was identified as the field duplicate of sample EBZA9.

The VOA samples were analyzed within the holding time of fourteen (14) days for the preserved water samples. The SVOA and Pest/PCB samples were extracted within the holding time of seven (7) days for the water samples. The sample extracts were analyzed within forty (40) days following the extraction.

The reviewer's narrative and data qualifiers are noted in the following pages.

Reviewed by: Steffanie N. Tobin__Lockheed/ESAT
Date:__July 14th, 1997__

Below is a summary of the out-of-control audits and the possible effect on the data for this case.

1.HOLDING TIME

The laboratory received eighteen (18) low level water samples (EBZA0-3, EBZA7-9, EBZB0, EBZB2-8, EBYZ7-9) on 06/25-26/97 in good condition for the list of organic analytes following the SOW OLC02.1. The VOA samples were analyzed within the holding time of fourteen (14) days for the preserved water samples; therefore, the results are acceptable. The SVOA and Pest/PCB samples were extracted within the holding time of seven (7) days for the water samples. The SVOA and Pest/PCB extracts were analyzed within forty (40) days following the extraction; therefore, the SVOA and Pest/PCB results are acceptable.

2.GC/MS TUNING PERFORMANCE

GC/MS tuning complied with the mass list and ion abundance criteria for BFB and DFTPP. All samples were analyzed within the twelve (12) hour periods for instrument performance checks.

The GC Resolution Check Mix met the 60% resolution criteria. DDT and Endrin degradation checks using Performance Evaluation Mix of DB-1701 and DB-17 columns were acceptable (<20%); therefore, the results are acceptable.

The Florisil Cartridge Checks met the QC criteria; therefore, the results are acceptable.

3.CALIBRATION

Initial and continuing calibration standards of VOA, SVOA and Pest/PCB were evaluated for the Target Compounds List (TCLs) and outliers were recorded on the outlier forms included as a part of this narrative.

4.METHOD BLANK

For the VOA fraction, VBLK05 and VBLK06 are the method blanks. VHBLK03 is the storage blank. VBLK05 contains methylene chloride at 0.2 µg/L and acetone at 3.0 µg/L. VBLK06 contains methylene

chloride at 0.3 µg/L and acetone at 3.0 µg/L. The storage blank is clean. Methylene chloride and acetone are common laboratory contaminants. The presence of these two compounds in the samples associated with VBLK05 and VBLK06 is flagged as non-detected (U) when the sample results are less than 10X the blank results. Please, refer to Form IVs VOA for the list of associated samples.

For the SVOA fraction, SBLKE9 and SBLKF2 are the method blanks. Both blanks are clean.

PBLKF1 and PBLKF3 are the method blanks for the Pest/PCB fraction. PBLKF1 and PBLKF3 contain no Pest/PCB residues.

5.SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The system monitoring compound recoveries for the VOA fraction were within the QC limits; therefore, the results are acceptable.

The surrogate recoveries for the SVOA and Pest/PCB fractions were within the QC limits; therefore, the results are acceptable.

6.LABORATORY CONTROL SAMPLES

VLCS03, SLCSD2, PLCSD1 were identified as the Laboratory Control Samples For the VOA, SVOA and Pest/PCB fractions, respectively.

The recoveries for the above laboratory Control Samples were within the QC limits; therefore, the results are acceptable.

7.FIELD BLANK AND FIELD DUPLICATE

Samples EBZA3, EBZB2, EBZB5 and EBZB8 were identified as the trip blanks. Samples EBZA1 and EBZB6 were identified as the field blanks. Sample EBZA7 was identified as the field duplicate of sample EBZA9.

EBZA1 contains 3 VOA TCLs, 2 SVOA TCLs and 1 SVOA TIC. EBZA3, EBZB2 and EBZB8 are clean. EBZB5 contains 1 VOA TCL. EBZB6 contains 2 VOA TCLs, 1 SVOA TCL and 1 SVOA TIC. EBZA7 contains 3 VOA TCLS, 1 VOA TIC, 2 SVOA TCLs and 1 Pest/PCB TCL. EBZA9 contains 2 VOA TCLS, 1 SVOA TCL, 2 SVOA TICs and 1 Pest/PCB TCL.

Reviewed by: Steffanie N. Tobin Lockheed/ESAT
Date: July 14th, 1997

8.INTERNAL STANDARDS

The internal standard retention times and area counts for the VOA and SVOA fractions were within the QC limits; therefore, the results are acceptable.

9.COMPOUND IDENTIFICATION

The target compounds and TICs for the VOA, SVOA and Pest/PCB fractions were properly identified.

10.COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The VOA, SVOA and Pest/PCB Target Compounds (TCLs) and Tentative Identified Compounds (TICs) were properly quantitated; therefore, the data are acceptable. The CRQLs were adjusted to reflect all sample dilutions.

11.SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

The baseline for the Pest/PCB analysis indicated acceptable performance.

12.ADDITIONAL INFORMATION

For the SVOA fraction, the result of bis(2-ethylhexyl)phthalate was quantitated outside the calibration range for samples EBZA7. For any analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analysis should be considered the sample's analyte concentration. Please, refer to Form Is for compounds which were quantitated outside the calibration range for the above SVOA samples.

Reviewed by: Steffanie N. Tobin Lockheed/ESAT
Date: July 14th, 1997

CALIBRATION OUTLIER
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS
(Page 1 of 2)

7/14/97

CASE\SAS#: 25525
COLUMN:

LABORATORY: Rettin RET
SITE NAME: American Chemical Services

Instrument# 5971-024		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 6/26/97 23:34		6/26/97 23:34			6/27/97 16:50			6/29/97 17:24			6/30/97 10:20					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(2-chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
2-Methylphenol	0.70															
2,2'-Oxybis(1-chl-propane)	0.01															
4-Methylphenol	0.60															
N-nitroso-di-n-propylamine	0.50															
Hexachloroethane	0.30															
Nitrobenzene	0.20															
Isophorone	0.40															
2-Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxyl)methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01															
Hexachlorobutadiene	0.01															
4-Chloro-3-methylphenol	0.20															
2-Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01															
2,4,6-Trichlorophenol	0.20															
2,4,5-Trichlorophenol	0.20															
2-Chloronaphthalene	0.80															
2-Nitroaniline	0.01															
Dimethyl phthlate	0.01															
Acenaphthylene	1.30															
2,6-Dinitrotoluene	0.20															
3-Nitroaniline	0.01															
Acenaphthene	0.30															
2,4-Dinitrophenol ✓	0.01	0.152			0.201	-32.4	J				0.204	-34.1	J			
4-Nitrophenol	0.01															
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples:

SB1KE9	SB1KF2	EBZA7DL
SBZB0 3,4	S1CS'D2	EBZA0-2
SBZA7-9		EBZB6-7
		EBVZ7-9

Reviewer's Init/Date: ST 7/11/97

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
\# = Minimum Relative Response Factor

CALIBRATION OUTLIER
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS
(Page 2 of 2)

ST 7/14/97

CASE\SAS#: 25525
COLUMN:

LABORATORY: ~~Recon~~ REI
SITE NAME: American Chemical Services

Instrument# 5971-624		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 6/26/97 23:24		6/26/97 23:24			6/27/97 16:50			6/29/97 17:24			6/30/97 10:20					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Diethylphthalate	0.01															
4-Chlorophenyl-phenylether	0.40															
Fluorene	0.90															
4-Nitroaniline	0.01															
4,6-Dinitro-2-methylphenol	0.01															
N-nitrosodiphenylamine	0.01															
4-Bromophenyl-phenylether	0.10															
Hexachlorobenzene	0.10															
ntachlorophenol	0.05															
henanthrene	0.70															
Anthracene	0.70															
Di-n-butylphthalate	0.01															
Fluoranthene	0.60															
Pyrene	0.60															
Butylbenzylphthalate	0.01															
3,3'-Dichlorobenzidine	0.01	0.277	34.1	J												
Benzo(a)anthracene	0.80															
Chrysene	0.70															
bis(2-Ethylhexyl)phthalate	0.01															
Di-n-octyl phthalate	0.01	2.18									2.79	-28.0	J			
Benzo(b)fluoranthene	0.70															
Benzo(k)fluoranthene	0.70															
Benzo(a)pyrene	0.70															
Indeno(1,2,3-cd)pyrene	0.50															
Dibenz(a,h)anthrancene	0.40															
Benzo(g,h,i)perylene	0.50															
Nitrobenzene-d5	0.01															
2-Fluorobiphenyl	0.70															
Terphenyl-d14	0.50															
Phenol-d5	0.80															
2-Fluorophenol	0.60															
2,4,6-Tribromophenol	0.01															

Reviewer's Init/Date: ST 7/14/97

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
# = Minimum Relative Response Factor

CALIBRATION OUTLIERS
LOW CONCENTRATION WATER VOLATILE TCL COMPOUNDS
(Page 1 of 1)

SF 7/14/97

CASE\SAS#: 25525
COLUMN: DB624
HEATED PURGE (Y/N): _____

LABORATORY: SCITN REI
SITENAME: American Chemical Service

Instrument# 5971-007		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 6/29/97 1509		6/29/97	15:09		7/1/97	22:35		7/2/97	11:44							
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01															
Bromomethane	0.10															
Vinyl chloride	0.10															
Chloroethane	0.01															
Methylene chloride	0.01															
Acetone	0.01															
Carbon disulfide	0.01															
1,1-Dichloroethene	0.10															
1,1-Dichloroethane	0.20															
cis-1,2-Dichloroethene	0.10															
trans-1,2-Dichloroethene	0.10															
Chloroform	0.20															
1,2-Dichloroethane	0.10															
2-Butanone	0.01															
Bromochloromethane	0.10															
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10															
Bromodichloromethane	0.20															
1,2-Dichloropropane	0.01															
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0.30															
Dibromochloromethane	0.10															
1,1,2-Trichloroethane	0.10															
Benzene	0.50															
tran-1,3-Dichloropropene	0.10															
Bromoform	0.10															
4-Methyl-2-pentanone	0.01															
2-Hexanone	0.01															
Tetrachloroethene	0.20															
1,1,2,2-Tetrachloroethane	0.50															
1,2-Dibromoethane	0.10															
Toluene	0.40															
Chlorobenzene	0.50															
Ethylbenzene	0.10															
Styrene	0.30															
Xylene (total)	0.30															
1,2-Dibromo-3-chloropropane	0.10															
1,3-Dichlorobenzene	0.60															
1,4-Dichlorobenzene	0.50															
1,2-Dichlorobenzene	0.40															
Bromofluorobenzene	0.40															
					VB1LC5			VB1LC6								
Samples affected:					EBZB0			EBZA2 3 9 0								
					EBZB2			EBZB3-8								
					EBZA7			EBVZ7-9								
					8			VLCS03								
					1			VHBILC3								

Reviewer's Init/Date: SF 7/14/97

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
# = Minimum Relative Response Factor

PESTICIDE/PCB TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 25525
COLUMN:

LABORATORY: REI
SITE NAME: American Chemical Services

Instrument# 3450C		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 6/24/97 9:01		6/24/97 9:01			6/26/97 15:57			6/26/97 20:17			7/02/97 3:01					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4'-DDD	0.60															
ndosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

	PBIKF1	PBIKF3	
	PIKSD1	EBZA0-2	
	EBZB0	EBYZ7-4	
	EBZA7-9	EBZB6-7	
	EBZB3-4		

Reviewer's Init/Date: 8 7/16/97

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIER

PESTICIDE/PCB TCL COMPOUNDS

CASE\SAS#: 25525
COLUMN: _____

LABORATORY: RET
SITE NAME: American Chemical Service

Instrument# 3407		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 6/24/97		6/24/97 9:01			6/26/97 [illegible]			6/26/97 20:17			7/02/97 3:01					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

	PB1KF1	PB1KF2		
	P1CSD1	EBZA0-8		
	EBZB0	EBYZ7-9		
	EBZA7-9	EBZB6-7		
	EBZB3-4			

Reviewer's Init/Date: ST 7/14/97

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utinized in this document, the following code letters and associated definitions are provide:

VALUE-if the results is a value greater than or equal to the Contract Required Quantitation Limit (CRQL).

U Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.

J Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound but the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.

R Indicates the data are unusable. (Note: The analyte may or may not be present.)

N Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.

P Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.

C Indicates pesticide results that have been confirmed by GC/MS.

B Indicates the analyte is detected in the associated blank as well as the sample.

E Indicates compounds whose concentrations exceed the calibration range of the instrument.

D Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.

A Indicates tentatively identified compounds that are suspected to be aldol condensation products.

G Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.

L Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.

T Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X, Y, Z are reserved for laboratory defined flags.

pg 1 of 10

Region 5 Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Region V CLP Data
Received for Review on July 10, 1997

FROM: Stephen L. Ostrodka, Chief (HSRL-5J)
Superfund Technical Support Section
for Steve Ostrodka
Richard L Byrnes
7/23/97

TO: Data User: B+V

We have reviewed the data for the following case:

SITE NAME: American Chem SVCS (UV)

CASE NUMBER: 25525 SDG NUMBER: EBZA7

Number and Type of Samples: 18 (water)

Sample Numbers: EBZA0-3, 7-9, EBZB0, 2-8 EBYZ7-9
2B

Laboratory: REI (Rollins) Hrs. for Review: 22 hrs + 1.5 w/t

Following are our findings:
the data are useable and acceptable with the qualifications described in the attached narrative.
Richard L Byrnes

cc: Regional TPO
Cecilia ~~Luckett~~
SM-5J MOORE

NARRATIVE

LABORATORY: REI
CASE: 25525
SDG: EBZA7
SITE: American Chemical Services

The samples (EBZA0-3, EBZA7-9, EBZB0, EBZB2-8, EBYZ7-9) were collected on 06/24-25/97. The laboratory received eighteen (18) low level water samples on 06/25-26/97 in good condition for organic analytes following the SOW OLC02.1. Samples EBZA3, EBZB2, EBZB5 and EBZB8 were analyzed for the list of VOA analytes only. The remaining samples were analyzed for the full list of organic analytes.

VLCS03, SLCSD2, PLCSD1 were identified as the Laboratory Control Samples For the VOA, SVOA and Pest/PCB fractions, respectively.

Samples EBZA3, EBZB2, EBZB5 and EBZB8 were identified as the trip blanks. Samples EBZA1 and EBZB6 were identified as the field blanks. Sample EBZA7 was identified as the field duplicate of sample EBZA9.

The VOA samples were analyzed within the holding time of fourteen (14) days for the preserved water samples. The SVOA and Pest/PCB samples were extracted within the holding time of seven (7) days for the water samples. The sample extracts were analyzed within forty (40) days following the extraction.

The reviewer's narrative and data qualifiers are noted in the follcwing pages.

Reviewed by: Steffanie N. Tobin Lockheed/ESAT
Date: July 14th, 1997

LABORATORY: REI
CASE: 25525
SDG: EBZA7
SITE: American Chemical Services

Below is a summary of the out-of-control audits and the possible effect on the data for this case.

1.HOLDING TIME

The laboratory received eighteen (18) low level water samples (EBZA0-3, EBZA7-9, EBZB0, EBZB2-8, EBYZ7-9) on 06/25-26/97 in good condition for the list of organic analytes following the SOW OLC02.1. The VOA samples were analyzed within the holding time of fourteen (14) days for the preserved water samples; therefore, the results are acceptable. The SVOA and Pest/PCB samples were extracted within the holding time of seven (7) days for the water samples. The SVOA and Pest/PCB extracts were analyzed within forty (40) days following the extraction; therefore, the SVOA and Pest/PCB results are acceptable.

2.GC/MS TUNING PERFORMANCE

GC/MS tuning complied with the mass list and ion abundance criteria for BFB and DFTPP. All samples were analyzed within the twelve (12) hour periods for instrument performance checks.

The GC Resolution Check Mix met the 60% resolution criteria. DDT and Endrin degradation checks using Performance Evaluation Mix of DB-1701 and DB-17 columns were acceptable (<20%); therefore, the results are acceptable.

The Florisil Cartridge Checks met the QC criteria; therefore, the results are acceptable.

3.CALIBRATION

Initial and continuing calibration standards of VOA, SVOA and Pest/PCB were evaluated for the Target Compounds List (TCLs) and outliers were recorded on the outlier forms included as a part of this narrative.

4.METHOD BLANK

For the VOA fraction, VBLK05 and VBLK06 are the method blanks. VHBLK03 is the storage blank. VBLK05 contains methylene chloride at 0.2 µg/L and acetone at 3.0 µg/L. VBLK06 contains methylene

chloride at 0.3 µg/L and acetone at 3.0 µg/L. The storage blank is clean. Methylene chloride and acetone are common laboratory contaminants. The presence of these two compounds in the samples associated with VBLK05 and VBLK06 is flagged as non-detected (U) when the sample results are less than 10X the blank results. Please, refer to Form IVs VOA for the list of associated samples.

For the SVOA fraction, SBLKE9 and SBLKF2 are the method blanks. Both blanks are clean.

PBLKF1 and PBLKF3 are the method blanks for the Pest/PCB fraction. PBLKF1 and PBLKF3 contain no Pest/PCB residues.

5.SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The system monitoring compound recoveries for the VOA fraction were within the QC limits; therefore, the results are acceptable.

The surrogate recoveries for the SVOA and Pest/PCB fractions were within the QC limits; therefore, the results are acceptable.

6.LABORATORY CONTROL SAMPLES

VLCS03, SLCSD2, PLCSD1 were identified as the Laboratory Control Samples For the VOA, SVOA and Pest/PCB fractions, respectively.

The recoveries for the above laboratory Control Samples were within the QC limits; therefore, the results are acceptable.

7.FIELD BLANK AND FIELD DUPLICATE

Samples EBZA3, EBZB2, EBZB5 and EBZB8 were identified as the trip blanks. Samples EBZA1 and EBZB6 were identified as the field blanks. Sample EBZA7 was identified as the field duplicate of sample EBZA9.

EBZA1 contains 3 VOA TCLs, 2 SVOA TCLs and 1 SVOA TIC. EBZA3, EBZB2 and EBZB8 are clean. EBZB5 contains 1 VOA TCL. EBZB6 contains 2 VOA TCLs, 1 SVOA TCL and 1 SVOA TIC. EBZA7 contains 3 VOA TCLS, 1 VOA TIC, 2 SVOA TCLs and 1 Pest/PCB TCL. EBZA9 contains 2 VOA TCLS, 1 SVOA TCL, 2 SVOA TICs and 1 Pest/PCB TCL.

Reviewed by: Steffanie N. Tobin__Lockheed/ESAT
Date:__July 14th, 1997__

8.INTERNAL STANDARDS

The internal standard retention times and area counts for the VOA and SVOA fractions were within the QC limits; therefore, the results are acceptable.

9.COMPOUND IDENTIFICATION

The target compounds and TICs for the VOA, SVOA and Pest/PCB fractions were properly identified.

10.COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The VOA, SVOA and Pest/PCB Target Compounds (TCLs) and Tentative Identified Compounds (TICs) were properly quantitated; therefore, the data are acceptable. The CRQLs were adjusted to reflect all sample dilutions.

11.SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

The baseline for the Pest/PCB analysis indicated acceptable performance.

12.ADDITIONAL INFORMATION

For the SVOA fraction, the result of bis(2-ethylhexyl)phthalate was quantitated outside the calibration range for samples EBZA7. For any analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analysis should be considered the sample's analyte concentration. Please, refer to Form Is for compounds which were quantitated outside the calibration range for the above SVOA samples.

Reviewed by: Steffanie N. Tobin__Lockheed/ESAT
Date:__July 14th, 1997__

CALIBRATION OUTLIER
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS
(Page 1 of 2)

CASE\SAS#: 25525
COLUMN:

LABORATORY: ~~Rollin~~ RET
SITE NAME: American Chemical Service

Instrument# 5971-024		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 6/26/97 23:34		6/26/97 23:34			6/27/97 16:50			6/29/97 17:24			6/30/97 10:20					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(2-chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
2-Methylphenol	0.70															
2,2'-Oxybis(1-chl-propane)	0.01															
4-Methylphenol	0.60															
N-nitroso-di-n-propylamine	0.50															
Hexachloroethane	0.30															
Nitrobenzene	0.20															
Isophorone	0.40															
2-Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxyl)methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01															
Hexachlorobutadiene	0.01															
4-Chloro-3-methylphenol	0.20															
2-Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01															
2,4,6-Trichlorophenol	0.20															
2,4,5-Trichlorophenol	0.20															
2-Chloronaphthalene	0.80															
2-Nitroaniline	0.01															
Dimethyl phthlate	0.01															
Acenaphthylene	1.30															
2,6-Dinitrotoluene	0.20															
3-Nitroaniline	0.01															
Acenaphthene	0.30															
2,4-Dinitrophenol ✓	0.01	0.152			0.201	-32.4	J				0.204	-34.1	J			
4-Nitrophenol	0.01															
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples:

SBLKE9	SBLKF2	EBZA7DL
SBZBC3L	31CSD2	EBZH0-2
SBZA7-9		EBZB6-7
		EBVZ7-9

Reviewer's Init/Date: SF 7/11/97

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
# = Minimum Relative Response Factor

CALIBRATION OUTLIER
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS
(Page 2 of 2)

ST 7/14/97

CASE\SAS#: 25525
COLUMN:

LABORATORY: ~~Rettin~~ REI
SITE NAME: American Chemical Services

Instrument# 5971-024		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 6/26/97 23:34		6/26/97 23:34			6/27/97 16:50			6/29/97 17:24			6/30/97 10:20					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Diethylphthalate	0.01															
4-Chlorophenyl-phenylether	0.40															
Fluorene	0.90															
4-Nitroaniline	0.01															
4,6-Dinitro-2-methylphenol	0.01															
N-nitrosodiphenylamine	0.01															
4-Bromophenyl-phenylether	0.10															
Hexachlorobenzene	0.10															
Pentachlorophenol	0.05															
Phenanthrene	0.70															
Anthracene	0.70															
Di-n-butylphthalate	0.01															
Fluoranthene	0.60															
Pyrene	0.60															
Butylbenzylphthalate	0.01															
3,3'-Dichlorobenzidine	0.01	0.277	34.1	J												
Benzo(a)anthracene	0.80															
Chrysene	0.70															
bis(2-Ethylhexyl)phthalate	0.01															
Di-n-octyl phthalate	0.01	2.18									2.79	-28.0	J			
Benzo(b)fluoranthene	0.70															
Benzo(k)fluoranthene	0.70															
Benzo(a)pyrene	0.70															
Indeno(1,2,3-cd)pyrene	0.50															
Dibenz(a,h)anthrancene	0.40															
Benzo(g,h,i)perylene	0.50															
Nitrobenzene-d5	0.01															
2-Fluorobiphenyl	0.70															
Terphenyl-d14	0.50															
Phenol-d5	0.80															
2-Fluorophenol	0.60															
2,4,6-Tribromophenol	0.01															

Reviewer's Init/Date: ST 7/11/97

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
# = Minimum Relative Response Factor

CALIBRATION OUTLIERS
LOW CONCENTRATION WATER VOLATILE TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 25525
COLUMN: DB 624
HEATED PURGE (Y/N): _____

LABORATORY: VISTA RET
SITENAME: American Chemical Service

Instrument# 5971-CC7		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 6/23/97 15:09		6/29/97	15:09		7/1/97	22:25		7/2/97	11:44							
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01															
Bromomethane	0.10															
Vinyl chloride	0.10															
Chloroethane	0.01															
Methylene chloride	0.01															
Acetone	0.01															
Carbon disulfide	0.01															
1,1-Dichloroethene	0.10															
1,1-Dichloroethane	0.20															
cis-1,2-Dichloroethene	0.10															
trans-1,2-Dichloroethene	0.10															
Chloroform	0.20															
1,2-Dichloroethane	0.10															
2-Butanone	0.01															
Bromochloromethane	0.10															
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10															
Bromodichloromethane	0.20															
1,2-Dichloropropane	0.01															
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0.30															
Dibromochloromethane	0.10															
1,1,2-Trichloroethane	0.10															
Benzene	0.50															
tran-1,3-Dichloropropene	0.10															
Bromoform	0.10															
4-Methyl-2-pentanone	0.01															
2-Hexanone	0.01															
Tetrachloroethene	0.20															
1,1,2,2-Tetrachloroethane	0.50															
1,2-Dibromoethane	0.10															
Toluene	0.40															
Chlorobenzene	0.50															
Ethylbenzene	0.10															
Styrene	0.30															
Xylene (total)	0.30															
1,2-Dibromo-3-chloropropane	0.10															
1,3-Dichlorobenzene	0.60															
1,4-Dichlorobenzene	0.50															
1,2-Dichlorobenzene	0.40															
Bromofluorobenzene	0.40															
Samples affected:					VBICC5			VBICC6								
					EBZB1 EBZB0			EBZA239,0								
					EBZB2			EBZB3-8								
					EBZA7			EBVZ7-9								
					8			VLCSC5								
					1			VHBICC3								

Reviewer's Init/Date: JT 7/11/97

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.

= Minimum Relative Response Factor

PESTICIDE/PCB TCL COMPOUNDS

CASE\SAS#: 25525 LABORATORY: REI

COLUMN: SITE NAME: American Chemical Services

Instrument# 3420C		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 6/24/97 9:01		6/24/97 9:01			6/26/97 15:51			6/26/97 20:17			7/02/97 3:01					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4'-DDD	0.60															
ndosulfan sulfate	0.60															
, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

	PBIKF1	PBIKF3		
	PBIKDI	EB2AO-2		
	EB2BO	EBYZ7-4		
	EB2A7-9	EB2B6-7		
	EB2B3-4			

Reviewer's Init/Date: S 7/11/97

* These flags should be applied to the analytes on the sample data sheets.

\# Minimum Relative Response Factor

PESTICIDE/PCB TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 25525
COLUMN: _____

LABORATORY: RET
SITE NAME: American Chemical Service

Instrument# 3417		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 6/24/97 9:01		6/24/97 9:01			6/26/97 5:51			6/28/97 20:17			7/02/97 7:01					
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

	PB1KF1	PB1KF3		
	P1CSD1	EB2A0-2		
	EB2B0	EBYZ7-9		
	EB2A7-9	EB2B6-7		
	EB2B3-4			

Reviewer's Init/Date: ST 7/16/97

* These flags should be applied to the analytes on the sample data sheets.
# Minimum Relative Response Factor

ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utinized in this document, the following code letters and associated definitions are provide:

VALUE-if the results is a value greater than or equal to the Contract Required Quantitation Limit (CRQL).

U Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.

J Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound but the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.

R Indicates the data are unusable. (Note: The analyte may or may not be present.)

N Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.

P Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.

C Indicates pesticide results that have been confirmed by GC/MS.

B Indicates the analyte is detected in the associated blank as well as the sample.

E Indicates compounds whose concentrations exceed the calibration range of the instrument.

D Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.

A Indicates tentatively identified compounds that are suspected to be aldol condensation products.

G Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.

L Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.

T Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X, Y, Z are reserved for laboratory defined flags.

pg 1 of 10

Region 5 Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Region V CLP Data
Received for Review on July 10, 1997

FROM: Stephen L. Ostrodka, Chief (HSRL-5J) for Steve Ostrodka
Superfund Technical Support Section Richard L Byrnes
7/23/97

TO: Data User: B+V

We have reviewed the data for the following case:

SITE NAME: American Chem SVCS (IN)

CASE NUMBER: 25525 SDG NUMBER: EBZA7

Number and Type of Samples: 18 (water)

Sample Numbers: EBZA0-3, 7-9 LB, EBZB0, 2-8 EBYZ7-9

Laboratory: REI (Rollins) Hrs. for Review: 22 hrs + 1.5 wk

Following are our findings:
the data are useable and acceptable with the qualifications described in the attached narrative.
Richard L Byrnes

cc: Regional TPO
Cecilia ~~Luckett~~
SM-5J MOORE

EPA United States Enviromental Protection Contract Laboratory Program

Spec[illegible]nalytical Serv[illegible] Packing List/Chain of C[illegible]dy

SAS No.

Case No. 25525

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil
7. Waste
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NAHSO4
4. H2SO4
5. NAOH
6. Ice Only
7. Other (Specify in Column D)
N. Not Preserved

2. Region No.: V
Sampling Co.: BVSPC
Sampler (Name): Steve MRKVICKA
Sampler Signature: [signature]

3. Purpose*
Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM
[ ] SI [ ] ESI [ ] RI [ ] OIL [ ] UST
Long-Term Action: [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD

4. Date Shipped: 6-24-97
Carrier: FEDERAL EXPRESS
Airbill Number: 5405965412

5. Ship To: Rollins Environmental, Inc. 3185 Research Park Rd. Ann Arbor, MI 48108
ATTN: Tom Marshall

6. Date Received--Received by: 6/25/97 1020 [signature]
Laboratory Contract Number: 68-D6-0061
Unit Price: 459.50

7. Transfer to:
Date Received
Received by
Contract Number
Price

Sample Numbers (From Labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type Comp./Grab	D Preservative (from Box 7) Other:	E Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq.	Water-Immiscible Liq.
97ZB05S05	2	L	G	1	VOAs	5-155726, 8 ACS	GW05-001	6-24-97 1525	SKM			
97ZB05S05	2	L	G	1	VOAs	5-155727, 29-31						
97ZB05S05	2	L	G	6	ABN	5-155720						
97ZB05S05	2	L	G	6	ABN	5-155721, 22						
97ZB05S05	2	L	G	6	Pest/PCBs	5-155723						
97ZB05S05	2	L	G	6	Pest/PCBs	5-155724, 5						
97ZB05TB02	4	L	G	1	VOAs	5-155741, 2 ACS	TB02-201	6-24-97 1700	SRM			

First Sample received EBZB0
Last Sample EBZB2

Shipment for SAS Complete? (Y) N
Page 1 of 1
Sample(s) to be Used for Laboratory QC: 5-155721, 22, 24, 25, 27, 29-31
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 158647, 648

CHAIN OF CUSTODY RECORD

SDG: EBZA7

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-24-97 1730		[signature]	6/26/97	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6/25/97 1020	[signature]			[signature]
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks: Is custody seal intact? (Y) N / none	
		[signature]	6/25/97 1020		

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

**Data User means the organization which contracted the laboratory services

A21-012-7 REV. 3/94

52491

EPA United States Enviromental Protection Agency
Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.

Case No. 25525

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil
7. Waste
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NAHSO4
4. H2SO4
5. NAOH
6. Ice Only
7. Other (Specify in Column D)
N. Not Preserved

2. Region No.: V
Sampling Co.: BVSPC
Sampler (Name): Steve Mikvicka
Sampler Signature: [signature]

3. Purpose*
Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM
[ ] SI [ ] ESI [ ] RI [ ] OIL [ ] UST
Long Term Action: [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD

4. Date Shipped: 6-24-97
Carrier: FEDERAL EXPRESS
Airbill Number: 5405965412

5. Ship To: ROLLINS ENVIRONMENTAL
3785 RESEARCH PARK DR.
ANN ARBOR, MI 48108
ATTN: TOM MARSHALL

6. Date Received–Received by: 6/25/97 1020 [signature]
Laboratory Contract Number: 68-D6-0061
Unit Price: 459.50

7. Transfer to:
Date Received
Received by
Contract Number
Price

Sample Numbers (From Labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type Comp./Grab	D Preservative (from Box 7) Other:	E Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq.	Water-Immis Liq.
A7 972B05S01	2	L	G	1	VOA	5-150009,10	ACS-GW01-001	6-24-97 1130	SRM			
972B05S01	2	L	G	6	ABN	5-150007	ACS-GW01-001	6-24-97 1130	↓			
972B05S01	2	L	G	6	PEST/PCBs	5-150008	ACS-GW01-001	6-24-97 1130	↓			
A8 972B05S02	2	L	G	1	VOA	5-150015,16	ACS-GW02-001	6-24-97 1140	SRM			
972B05S02	2	L	G	6	ABN	5-150014,3 SRM 6-24-97	ACS-GW02-001	6-24-97 1140	↓			
972B05S02	2	L	G	6	PEST/PCBs	5-150014	ACS-GW02-001	6-24-97 1140	↓			
A9 972B05D01	2	L	G	1	VOA	5-155703,4	ACS-GW02-101	6-24-97 1140	↓			
972B05D01	2	L	G	6	ABN	5-155701	ACS-GW02-101	6-24-97 1140	↓			
972B05D01	2	L	G	6	PEST/PCBs	5-155702	ACS-GW02-101	6-24-97 1140	↓			

Shipment for SAS Complete? (Y) N
Page 1 of 2
Sample(s) to be Used for Laboratory QC
Additional Sampler Signatures: First Sample: EBZA7
Chain of Custody Seal Number(s): 158583, 158582

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-24-97 1730		Last Sample SDG: EBZA7		EBZA7
	6/25/97 1020	[signature]		T Nun	6/26/97
		Received for Laboratory by: (Signature) [signature]	6/25/97 1020	Remarks: Is custody seal intact? (Y) N / none	

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

**Data U... ...s the organization wi... ...ntracted the laboratory ...es

A21-012-7 REV. 3/94

52...0

EPA United States Enviromental Protection Agency
Contract Laboratory Program

Spe[illegible] Analytical Services Packi[illegible] List/Chain of [illegible]ody

SAS No.

Case No. 2552[illegible]

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil 7. Waste 8. Other (Specify in Column A)

2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NAHSO4 4. H2SO4 5. NAOH 6. Ice Only 7. Other (Specify in Column D) N. Not Preserved

2. Region No.: V

Sampling Co.: LVSPC

Sampler (Name): Steve Mrkvicka

Sampler Signature: [signature]

3. Purpose*: Lead [X] SF [ ] PRP [ ] ST [ ] FED; Early Action [ ] CLEM [ ] PA [ ] REM; [ ] SI [ ] ESI [ ] RI [ ] OIL [ ] UST; Long-Term Action [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD

4. Date Shipped: 6-25-97

Carrier: Federal Express

Airbill Number: 5405965401

5. Ship To: Rollins Environmental, Inc. 3985 Research Park Rd. Ann Arbor, MI 48108 ATTN: Tom Marshall

6. Date Received–Received by: 6/26/97 1010 [signature]

Laboratory Contract Number: 68-D6-0061

Unit Price: 459.50

7. Transfer to:

Date Received

Received by

Contract Number

Price

	Sample Numbers (From Labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type Comp./Grab	D Preservative (from Box 7) Other:	E Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq.	Water-Immis Liq.	
ZB6	97ZB05RB01	4	L	G	1	VOAs	5-155764,5	ACS-RB01-201	6-24-97 1815	SRM				5-97
	97ZB05RB01	4	L	G	6	ABN	5-155761	↓	↓	↓				
	97ZB05RB01	4	L	G	6	Pest/PCBs	5-155763	↓	↓	↓				
BZB7	97ZB05S08	2	L	G	1	VOAs	5-155770,1	ACS-GW08-001	6-25-97 0920	SRM				
	97ZB05S08	2	L	G	6	ABN	5-155768	↓	↓	↓				
	97ZB05S08	2	L	G	6	Pest/PCBs	5-155769	↓	↓	↓				
	~~97ZB05S09~~	~~2~~	~~L~~	~~G~~	~~1~~	~~VOAs~~	~~5-155776,7~~	~~ACS-GW09-001~~	~~6-25-97 1337~~	~~SRM~~				97
	~~97ZB05S09~~	~~2~~	~~L~~	~~G~~	~~6~~	~~ABN~~	~~5-155774~~	↓	↓	↓				97
	~~97ZB05S09~~	~~2~~	~~L~~	~~G~~	~~6~~	~~Pest/PCBs~~	~~5-155775~~	↓	↓	↓				7
BZB8	97ZB05TB03	4	L	G	1	VOAs		ACS-TB03-201	6-25-97	SRM				

Shipment for SAS Complete? (Y) N

Page 2 of 2

Sample(s) to be Used for Laboratory QC

Additional Sampler Signatures: [signature]

Chain of Custody Seal Number(s): 158661, 158662

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-25-97 1700		First Sample received: CBZB6		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6/26/97 1010	[signature]	Last Sample: EBZB8		
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks: Is custody seal intact? (Y) N / none	
		[signature]	6/26/97 1010	SD 6 EBZA7	

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

**Data User means the organization which contracted the laboratory services

A21-012-7 REV. 3/94

[signature] 52403 6/26/97

EPA — Special Analytical Services Packing List/Chain of Custody

United States Environmental Protection Agency
Contract Laboratory Program

SAS No.: | Case No.: 25525

1. Matrix (Enter in Column A): 1. Surface Water, 2. Ground Water, 3. Leachate, 4. Field QC, 5. Soil/Sediment, 6. Oil, 7. Waste, 8. Other (Specify in Column A)

2. Preservative (Enter in Column D): 1. HCl, 2. HNO3, 3. NAHSO4, 4. H2SO4, 5. NAOH, 6. Ice Only, 7. Other (Specify in Column D), N. Not Preserved

2. Region No.: V	Sampling Co.: BVSPC	4. Date Shipped: 6-25-97	Carrier: Federal Express
Sampler (Name): STEVE MRKVICKA		Airbill Number: 540596540 1	Laboratory Contract Number: 68-D6-0061 / Unit Price: 459.50
Sampler Signature: [signature]		5. Ship To: Rollins Environmental, Inc. 3385 Research Park Rd. Ann Arbor, MI 48108 ATTN: Tom Marshall	6. Date Received–Received by: 6/26/97 1016 [signature]
3. Purpose*: Lead: [X] SF, [ ] PRP, [ ] ST, [ ] FED; Early Action: [ ] CLEM, [ ] PA, [ ] REM; [ ] SI, [ ] ESI, [ ] RI, [ ] OIL, [ ] UST; Long-Term Action: [ ] FS, [X] RD, [X] RA, [ ] O&M, [ ] NPLD			7. Transfer to: / Date Received
			Received by / Contract Number / Price

Sample Numbers (From Labels)	A Matrix (from Box 6)	B Conc.: Low Med High	C Sample Type Comp./ Grab	D Preservative (from Box 7)	E Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq.	Water-Immis Liq.
EBYZ7	Other:			Other:		SDG 6-25-97						
977B05S06	2	L	G	1	VOAs	5-155745,6 ACS	GW06-001	6-24-97 1150	SRM			
977B05S0C	2	L	G	6	ABN	5-155743 A						
977B05S06	2	L	G	6	Pest/PCBs	5-155744 SDN						
977B05S07	2	L	G	1	VOAs	5-155751,2 ACS	GW07-001	6-25-97 1040	SRM			
977B05S07	2	L	G	6	ABN	5-155749						
977B05S07	2	L	G	6	Pest/PCBs	5-155750						
977B05D02	2	L	G	1	VOAs	5-155757,8 ACS	GW07-101	6-25-97 1040	SRM			
977B05D02	2	L	G	6	ABN	5-155755						
977B05D02	2	L	G	6	Pest/PCBs	5-155756						

Shipment for SAS Complete? (Y) N | Page 1 of 2 | Sample(s) to be Used for Laboratory QC | Additional Sampler Signatures: First Sample Received / Second Sample Received | Chain of Custody Seal Number(s): 158661, 158662

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-25-97 1700				EBYZ7 EBYA0
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6-26-97 1010	[signature]	Last Sample		EBYZ9 EBYA2
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks: Is custody seal intact? (Y) N / none	
		[signature]	6/26/97 1010	SDG: EBYA7	

DISTRIBUTION: White – Region Copy; Yellow – Data User**; Gold – Lab Copy for Return to Region; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

**Data [illegible] ens the organization [illegible] ontracted the laborato[illegible]ices

6/26/97 5[illegible]2

A21-012-7 REV. 3/94

EPA

United States Environmental Protection Agency
Contract Laboratory Program

Special Analytical Services
Packing List/Chain of Custody

SAS No.	Case No.
	25525

1. Matrix (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Field QC
   5. Soil/Sediment
   6. Oil
   7. Waste
   8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NAHSO4
   4. H2SO4
   5. NAOH
   6. Ice Only
   7. Other (Specify in Column D)
   N. Not Preserved

2. Region No.	Sampling Co.	4. Date Shipped	Carrier	6. Date Received--Received by:
V	BVSPC	6.24.97	Federal Express	Dana E. Jacobs 6/25/97 1020

Sampler (Name)	Airbill Number	Laboratory Contract Number	Unit Price
Steve MIRVICKA	5405965412	68-D6-0006	459.50

Sampler Signature	5. Ship To	7. Transfer to:	Date Received
	Rollins Environmental, Inc. 3985 Research Park Rd. Ann Arbor, MI 48108 ATTN: Tom Marshall		

3. Purpose*

Lead	Early Action	Long-Term Action
[X] SF	[ ] CLEM	[ ] SI
[ ] PRP	[ ] PA	[ ] ESI
[ ] ST	[ ] REM	[ ] RI
[ ] FED		[ ] OIL
		[ ] UST
		[X] FS
		[X] RD
		[X] RA
		[ ] O&M
		[ ] NPLD

Received by	
Contract Number	Price

Sample Numbers (From Labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type Comp./ Grab	D Preservative (from Box 7) Other:	E Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
EB3 972B05S03	2	L	G	1	VOAs	5-155709.10	ACS-GW03-001	6.24.97 1425	SRM			
972B05S03	2	L	G	6	ABN	5-155707	↓	↓	↓			
972B05S03	2	L	G	6	Pest/PCBs	5-155708	↓	↓	↓			
EB4 972B05S04	2	L	G	1	VOAs	5-155715.6	ACS-GW04-001	6.24.97 1440	SRM			
972B05S04	2	L	G	6	ABN	5-155713	↓	↓	↓			
972B05S04	2	L	G	6	Pest/PCBs	5-155714	↓	↓	↓			
EB5 972B05TB01	4	L	G	1	VOAs	5-155739.40	ACS-TB01-201	6.24.97 1655	SRM			

First Sample: EB2 B3
Last Sample: EB2 B5

Shipment for SAS Complete? (Y) N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
	2 of 2		SDG: EBZA7	158583, 158582

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6.24.97 1730		[signature]	6/26/97	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6/25/97 1020	Dana E. Jacobs			
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks Is custody seal intact? (Y) N / none	
		Dana E. Jacobs	6/25/97 1020		

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

**Data User means the organization which contracted the laboratory services

A21-012-7 REV. 3/94

50492

EPA United States Enviromental Protection Agency
Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.

Case No. 25525

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil
7. Waste
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NAHSO4
4. H2SO4
5. NAOH
6. Ice Only
7. Other (Specify in Column D)
N. Not Preserved

2. Region No.: V
Sampling Co.: BVSPC
Sampler (Name): Steve Mrkvicka
Sampler Signature: [signature]

3. Purpose
Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM
[ ] SI [ ] ESI [ ] RI [ ] OIL [ ] UST
Long-Term Action: [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD

4. Date Shipped: 6-25-97
Carrier: Federal Express
Airbill Number: 5405965423

5. Ship To
Rollins Environmental, Inc.
3985 Research Park Rd.
Ann Arbor, MI 48108
ATTN: Tom Marshall

6. Date Received–Received by: 6/26/97 1010 [signature]
Laboratory Contract Number: 68-D6-0061
Unit Price: 49.50

7. Transfer to:
Date Received
Received by
Contract Number
Price

	Sample Numbers (From Labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type Comp./Grab	D Preservative (from Box 7) Other:	E Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq.	Water-Immis Liq.
3A0	97ZB05S09	2	L	G	1	VOAs	5-155776,7	ACS-GW09-001	6-25-97 1337	SRM			
	97ZB05S09	2	L	G	6	ABN	5-155774	ACS-GW09-001	↓	↓			
	97ZB05S09	2	L	G	6	Pest/PCBs	5-155775	↓	↓	↓			
3A1	97ZB05RB02	4	L	G	1	VOAs	5-155784,5	ACS-RB02-201	6-25-97 1430	SRM			
	97ZB05RB02	4	L	G	6	ABN	5-155782	↓	↓	↓			
	97ZB05RB02	4	L	G	6	Pest/PCBs	5-155783	↓	↓	↓			
3A2	97ZB05S10	2	L	G	1	VOAs	5-155790,1	ACS-GW10-001	6-25-97 1415	SRM			
	97ZB05S10	2	L	G	6	ABN	5-155788	↓	↓	↓			
	97ZB05S10	2	L	G	6	Pest/PCBs	5-155789	↓	↓	↓			
3A3	97ZB05TB04	4	L	G	1	VOAs	5-155794,5	ACS-TB04-201	6-25-97 1615	SRM			

Shipment for SAS Complete? (Y) N
Page 1 of 1
Sample(s) to be Used for Laboratory QC
Additional Sampler Signatures: First Sample received: EB4A0
Chain of Custody Seal Number(s): 158571, 158581

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-25-97 1700		Last Sample		: EB2A3
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6/26/97 1010	[signature]		SDG:	EB2A7
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks: Is custody seal intact? (Y) N / none	
		[signature]	6/26/97 1010	T. Hey 6/26/97	

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

**Data [illegible] ans the organization w[illegible] contracted the laborato[illegible] ices

A21-012-7 REV. 3/94

5

52 83

EPA United States Enviromental Protection Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.	Case No.

1. Matrix (Enter in Column A)	2. Preservative (Enter in Column D)	2. Region No.	Sampling Co.	4. Date Shipped	Carrier	6. Date Received--Received by:
1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil 7. Waste 8. Other (Specify in Column A)	1. HCl 2. HNO3 3. NAHSO4 4. H2SO4 5. NAOH 6. Ice Only 7. Other (Specify in Column D) N. Not Preserved	[illegible]	[illegible]	[illegible]	[illegible]	6/26/97 1010 [signature]
		Sampler (Name) [illegible]		Airbill Number [illegible]		Laboratory Contract Number 68-D6-0061 / Unit Price 49.50
		Sampler Signature [signature]		5. Ship To [illegible] Environmental, Inc. 185 Research Park Rd. Ann Arbor, MI 48108 ATTN: Tom Marshall		7. Transfer to: / Date Received
		3. Purpose* Lead: [X] SF [ ] PRP [ ] ST [ ] FED; Early Action: [ ] CLEM [ ] PA [ ] REM; [ ] SI [ ] ESI [ ] RI [ ] OIL [ ] UST; Long-Term Action: [ ] FS [ ] RD [X] RA [ ] O&M [ ] NPLD				Received by
						Contract Number / Price

Sample Numbers (From Labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type Comp./Grab	D Preservative (from Box 7) Other:	E Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq	Water-Immis Liq
[illegible]		[illegible]	G	1	VOAs	5-155776.7	ACS-[illegible]	[illegible]	[illegible]			
[illegible]	2	[illegible]	G	6	ABN	5-155774	ACS-[illegible]					
[illegible]	2	L	G	6	[illegible]	5-155775						
[illegible]	4	L	G	1	VOAs	5-155764.5	ACS-[illegible]	[illegible]	[illegible]			
[illegible]	2	[illegible]	G	6	ABN	5-155782						
[illegible]	4	[illegible]	G	6	[illegible]	5-155783						
[illegible]	[illegible]	[illegible]	G	1	VOAs	5-155710.1	ACS-[illegible]	[illegible]	[illegible]			
[illegible]	2	[illegible]	G	6	ABN	5-155788						
[illegible]		[illegible]	G	6	[illegible]	5-155789						
[illegible]	[illegible]	[illegible]	G	1	[illegible]	5-155714.5	ACS-[illegible]	[illegible]	[illegible]			

Shipment for SAS Complete? (Y/N)	Page 1 of 1	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
			First Sample received: EBZAØ	[illegible]

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	[illegible] 1100		Last Sample		EBZAS
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6/26/97 1010	[signature]		SDG:	EBZA7
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks Is custody seal intact? Y / N / none	
		[signature]	6/26/97 1010	T Hey 6/26/97	

DISTRIBUTION: White - Region Copy; Gold - Lab Copy for Return to Region; Yellow - Data User**; Pink - Lab Copy for Return to Data User**

EPA Form 9110-3

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
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**Data User means the organization which contracted the laboratory services

A21-012-7 REV. 3/94

52[illegible]

EPA

United States Environmental Protection Agency
Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.

Case No. -5525

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil
7. Waste
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NAHSO4
4. H2SO4
5. NAOH
6. Ice Only
7. Other (Specify in Column D)
N. Not Preserved

2. Region No.: V
Sampling Co.: EVSPC
Sampler (Name): STEVE KIRKICKA
Sampler Signature: [signature]

3. Purpose*
Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM
Long-Term Action: [ ] SI [ ] ESI [ ] RI [ ] OIL [ ] UST
[ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD

4. Date Shipped: 6-25-97
Carrier: Federal Express
Airbill Number: 540696540 1

5. Ship To
Rollins Environmental, Inc.
5105 Research Park Rd.
Ann Arbor, MI 48108
ATTN: Tom Marshall

6. Date Received--Received by: 6/26/97 1010 [signature]
Laboratory Contract Number: 68-D6-0061
Unit Price: 459.50

7. Transfer to:
Date Received
Received by
Contract Number
Price

Sample Numbers (From Labels)	A Matrix (from Box 6) / Other:	B Conc.: Low Med High	C Sample Type Comp./ Grab	D Preservative (from Box 7) / Other:	E Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq	Water-Immis Liq
17BO5S06	2	L	G	1	VOAs	5-155745,6 ACS-	GW06-001	6-24-97 1550	SKM			
17BO5S06	2	L	G	6	ABN	5 155743 A						
17BO5S06	2	L	G	6	Pest/PCBs	5 155744 SKM 6-25-97						
17BO5S07	2	L	G	1	VOAs	5-155751,2 ACS-	GW07-101	6-25-97 1040	SKM			
17BO5S07	2	L	G	6	ABN	5 155749						
17BO5S07	2	L	G	6	Pest/PCBs	5-155750						
17BO5D02	2	L	G	1	VOAs	5-155757,6 ACS-	GW07-101	6-25-97 1040	SKM			
17BO5D02	2	L	G	6	ABN	5-155755						
17BO5D02	2	L	G	6	Pest/PCBs	5 155756						

Shipment for SAS Complete? (Y) N
Page 1 of 2
Sample(s) to be Used for Laboratory QC
Additional Sampler Signatures: First Sample Received
Chain of Custody Seal Number(s): 155661, 155662

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-25-97 1700				EBYZ
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6-26-97 1010	[signature]	Last Sample		EBYZ
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks: Is custody seal intact? (Y) N / none	
		[signature]	6/26/97 1010	SDG: EBZA72	

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

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**Data Used ... the organization which contracted the laboratory ...

6/26/97 52[illegible]

A21-012-7 REV. 3/94

EPA United States Enviromental Protection Contract Laboratory Program

Spec[illegible] Analytical Ser[illegible]s Packing List/Chain of C[illegible]dy

SAS No.	Case No.
	[illegible]

1. Matrix (Enter in Column A)	2. Preservative (Enter in Column D)
1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil 7. Waste 8. Other (Specify in Column A)	1. HCl 2. HNO3 3. NAHSO4 4. H2SO4 5. NAOH 6. Ice Only 7. Other (Specify in Column D) N. Not Preserved

2. Region No.	Sampling Co.	4. Date Shipped	Carrier	6. Date Received--Received by:
V	LVSPC	6-25-97	Federal Express	6/26/97 1010 [signature]

Sampler (Name)	Airbill Number	Laboratory Contract Number	Unit Price
Steve Mikvicka	5405165401	68-D6-0061	459.50

Sampler Signature: [signature]

3. Purpose*: Lead: [X] SF [ ] PRP [ ] ST [ ] FED; Early Action: [ ] CLEM [ ] PA [ ] REM; [ ] SI [ ] ESI [ ] RI [ ] OIL [ ] UST; Long-Term Action: [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD

5. Ship To: Kollins Environmental, Inc. 3135 Research Park Rd. Ann Arbor, MI 48108 ATTN: Tom Marshall

7. Transfer to: | Date Received:

Received by:

Contract Number: | Price:

Sample Numbers (From Labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type Comp./Grab	D Preservative (from Box 7) Other:	E Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq	Water-Immis. Liq
97ZB05KB01	4	L	G	1	VOAs	5-155764,5	ACS-KB01-201	6-24-97 1815	SKM			
97ZB05KB01	4	L	G	6	ABN	5-155761	↓	↓	↓			
97ZB05KB01	4	L	G	6	Pest/PCBs	5-155763	↓	↓	↓			
97ZB05S08	2	L	G	1	VOAs	5-155770,1	ACS-GW08-001	6-25-97 0920	SKM			
97ZB05S08	2	L	G	6	ABN	5-155768	↓	↓	↓			
97ZB05S08	2	L	G	6	Pest/PCBs	5-155769	↓	↓	↓			
~~97ZB05S09~~	~~2~~	~~L~~	~~G~~	~~1~~	~~VOAs~~	~~5-155776,7~~	~~ACS-GW09-001~~	~~6-25-97 1337~~	~~SKM~~			
~~97ZB05S09~~	~~2~~	~~L~~	~~G~~	~~6~~	~~ABN~~	~~5-155774~~	↓	↓	↓			
~~97ZB05S09~~	~~2~~	~~L~~	~~G~~	~~6~~	~~Pest/PCBs~~	~~5-155775~~	↓	↓	↓			
97ZB05TB03	4	L	G	1	VOAs		ACS-TB03-201	6-25-97	SKM			

Shipment for SAS Complete? (Y) N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
	2 of 2		[illegible]	158661, 158662

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-25-97 1700		First Sample received: CBZB6		
	6/26/97 1010	[signature]	Last Sample: EBZB8		
		Received for Laboratory by: (Signature) [signature]	6/26/97 1010	Remarks: Is custody seal intact? (Y) N / none SD 6: EBZA7	

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

**Data User means the organization which contracted the laboratory services

[signature] 6/26/97 52493

A21-012-7 REV. 3/94

EPA United States Enviromental Protection Agency
Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.

Case No. 5525

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil
7. Waste
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NAHSO4
4. H2SO4
5. NAOH
6. Ice Only
7. Other (Specify in Column D)
N. Not Preserved

2. Region No.: V
Sampling Co.: EVSPC
Sampler (Name): Steve MRKVICKA
Sampler Signature: [signature]

3. Purpose*
Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM
[ ] SI [ ] ESI [ ] RI [ ] OIL [ ] UST
Long-Term Action: [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD

4. Date Shipped: 6-24-97
Carrier: FEDERAL EXPRESS
Airbill Number: 5405965412

5. Ship To
Rollins Environmental, Inc.
3185 Research Park Rd.
Ann Arbor, MI 48108
ATTN: Tom Marshall

6. Date Received–Received by: 6/25/97 1020 [signature]
Laboratory Contract Number: 68-D6-0061
Unit Price: 459.50

7. Transfer to:
Date Received
Received by
Contract Number
Price

Sample Numbers (From Labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type Comp./Grab	D Preservative (from Box 7) Other:	E Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq	Water-Immis Liq
17ZB05S05	2	L	G	1	VOAs	5-155726, 8	ACS-GW05-001	6-24-97 1525	SKM			
17ZB05S05	2	L	G	1	VOAs	5-155727, 29-31	↓	↓	↓			
17ZB05S05	2	L	G	6	ABN	5-155720	↓	↓	↓			
17ZB05S05	2	L	G	6	ABN	5-155721, 22	↓	↓	↓			
17ZB05S05	2	L	G	6	Pest/PCBs	5-155723	↓	↓	↓			
17ZB05S05	2	L	G	6	Pest/PCBs	5-155724, 5	↓	↓	↓			
17ZB05TB02	4	L	G	1	VOAs	5-155741, 2	ACS-TB02-201	6-24-97 1700	SKM			

First Sample received: EBZB0
Last Sample: EBZB2

Shipment for SAS Complete? (Y) N
Page 1 of 1
Sample(s) to be Used for Laboratory QC: 5-155721, 22, 24, 25, 27, 24-31
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 158647, 648

CHAIN OF CUSTODY RECORD

SDG: EBZA7

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-24-97 1730		[signature]	6/26/97	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6/25/97 1020	[signature]			
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks: Is custody seal intact? (Y) N / none	
		[signature]	6/25/97 1020		

A21-012-7 REV. 3/94

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

**Data Us[illegible]s the organization wh[illegible]ntracted the laboratory[illegible]es

EPA — Special Analytical Services Packing List/Chain of Custody

United States Environmental Protection Agency
Contract Laboratory Program

SAS No.	Case No.

1. Matrix (Enter in Column A): 1. Surface Water, 2. Ground Water, 3. Leachate, 4. Field QC, 5. Soil/Sediment, 6. Oil, 7. Waste, 8. Other (Specify in Column A)

2. Preservative (Enter in Column D): 1. HCl, 2. HNO3, 3. NAHSO4, 4. H2SO4, 5. NAOH, 6. Ice Only, 7. Other (Specify in Column D), N. Not Preserved

2. Region No.	Sampling Co.	4. Date Shipped	Carrier	6. Date Received--Received by:	
V	EVSPC	6-24-97	FEDERAL EXPRESS	6/25/97 1020 Dana E. Jacobs	
Sampler (Name)		**Airbill Number**		**Laboratory Contract Number**	**Unit Price**
Tom Mikulka		5405 1654 12		68-D6-0061	459.50
Sampler Signature		**5. Ship To**		**7. Transfer to:**	**Date Received**
		ROLLINS ENVIRONMENTAL 3735 RESEARCH PARK DR. ANN ARBOR, MI 48108 ATTN: TOM MARSHALL			
				Received by	
				Contract Number	**Price**

3. Purpose*: Lead — [X] SF, [ ] PRP, [ ] ST, [ ] FED; Early Action — [ ] CLEM, [ ] PA, [ ] REM; [ ] SI, [ ] ESI, [ ] RI, [ ] OIL, [ ] UST; Long-Term Action — [ ] FS, [X] RD, [X] RA, [ ] O&M, [ ] NPLD

Sample Numbers (From Labels)	A Matrix (from Box 6) / Other:	B Conc.: Low Med High	C Sample Type Comp./ Grab	D Preservative (from Box 7) / Other:	E Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq	Water-Immis Liq
172B05501	2	L	G	1	VOA	5-150009,10	ACS-GW01-001	6-24-97 1130	SRM			
172B05501	2	L	G	6	ABN	5-150007	ACS-GW01-001	6-24-97 1130	↓			
172B05501	2	L	G	6	PEST/PCBs	5-150008	ACS-GW01-001	6-24-97 1130	↓			
172B05502	2	L	G	1	VOA	5-150015,16	ACS-GW02-001	6-24-97 1140	SRM			
172B05502	2	L	G	6	ABN	5-150013 SRM 4-17	ACS-GW02-001	6-24-97 1140	↓			
172B05502	2	L	G	6	PEST/PCBs	5-150014	ACS-GW02-001	6-24-97 1140	↓			
172B05D01	2	L	G	1	VOA	5 155703,4	ACS-GW02-101	6-24-97 1140	↓			
172B05D01	2	L	G	6	ABN	5-155701	ACS-GW02-101	6-24-97 1140	↓			
172B05D01	2	L	G	6	PEST/PCBs	5-155702	ACS-GW02-101	6-24-97 1140	↓			

Shipment for SAS Complete? (Y) N	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
	1 of 2		First Sample: EBZA7	155583, 155582

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6-24-97 1730		First Sample SO6: EBZA7		EBZA7
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6/25/97 1020	Dana E. Jacobs		T Nun 6/26/97	
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks Is custody seal intact? (Y) N / none	
		Dana E. Jacobs	6/25/97 1020		

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EPA Form 9110-3

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

**Data User means the organization which contracted the laboratory services

A21-012-7 REV. 3/94

52490

EPA — Special Analytical Services Packing List/Chain of Custody

United States Enviromental Protection Agency
Contract Laboratory Program

SAS No.:

Case No.:

1. Matrix (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Field QC
   5. Soil/Sediment
   6. Oil
   7. Waste
   8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NAHSO4
   4. H2SO4
   5. NAOH
   6. Ice Only
   7. Other (Specify in Column D)
   N. Not Preserved

2. Region No.: V
Sampling Co.: EVSPC

4. Date Shipped: 6.24.97
Carrier: Federal Express

6. Date Received--Received by: Dana E. Jacobs 6/25/97 1020

Sampler (Name): Sean MERVICK

Airbill Number: 540596 5412

Laboratory Contract Number: 68-D6-0006
Unit Price: 459.50

Sampler Signature:

5. Ship To: Rollins Environmental, Inc
3985 Research Park Rd
Ann Arbor, MI 48108
ATTN: Tom Marshall

7. Transfer to:
Date Received

Received by

Contract Number
Price

3. Purpose*
Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM
[ ] SI [ ] ESI [ ] RI [ ] OIL [ ] UST
Long-Term Action: [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD

Sample Numbers (From Labels)	A Matrix (from Box 6) / Other	B Conc.: Low Med High	C Sample Type Comp./ Grab	D Preservative (from Box 7) / Other	E Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water: Miscible Liq	Water: Immis Liq
172B05S05	2	L	G	1	VOAs	5-155709.10	ACS-GW03-001	6.24.97 1425	SRM			
172B05S03	2	L	G	6	ABN	5-155707	↓	↓	↓			
172B05S03	2	L	G	6	Pest/PCBs	5-155708	↓	↓	↓			
172B05S04	2	L	G	1	VOAs	5-155715.6	ACS-GW04-001	6-24-97 1940	SRM			
172B05S04	2	L	G	6	ABN	5-155713	↓	↓	↓			
172B05S04	2	L	G	6	Pest/PCBs	5-155714	↓	↓	↓			
172B05TB01	4	L	G	1	VOAs	5-155739.40	ACS-TB01-201	6-24-97 1659	SRM			

First Sample: EBZ B3
Last Sample: EBZ B5

Shipment for SAS Complete? (Y) N

Page 2 of 2

Sample(s) to be Used for Laboratory QC

Additional Sampler Signatures: SDG: EBZA7

Chain of Custody Seal Number(s): 158583, 158582

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6 24 97 1730		6/26/97		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6/25/97 1020	Dana E. Jacobs			
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks Is custody seal intact? (Y) N / none	
		Dana E. Jacobs	6/25/97 1020		

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-7 REV. 3/94

**Data User means the organization which contracted the laboratory services

52 92

SDG NARRATIVE
Client Name: US EPA
Project Number: 75100
CASE Number: 25525
Sample Delivery Group: EBZA7
Contract Number: 68-D6-0061
Batch Number(s): 100004466, 100004503
Narrative Date: July 8, 1997
Samples: EBZB0, EBZB2, EBZA7, EBZA8, EBZA9, EBZB3, EBZB4, EBZB5, EBZA0, EBZA1, EBZA2, EBZA3, EBYZ7, EBYZ8, EBYZ9, EBZB6, EBZB7, EBZB8

A total of eighteen samples were received by REI on June 25, 1997 through June 26, 1997, and were scheduled for Organics Analysis. Please refer to the following table for vital information that pertains to this case.

Table 1.0

SDG #: EBZA7

	SAMPLE ANALYZED			
	Actual Samples	QC Samples	Re-Run Samples	Total Billable Analyses
Volatile Analyses	18	1	0	19
Semivolatile Analyses	14	1	1	16
Pesticide/PCB Analyses	14	1	0	15

Total Analyses: 15 Full + 4 VOA + 1 BNA

This Deliverables Package is assembled in accordance with instructions in Section B, OLC02.1 revision of the Contract Laboratory Program - Statement of Work. A copy of this deliverable has been distributed to SMO and to Region V.

The following is a detailed description of quality control, shipment, and/or analytical problems that were encountered in the processing of these samples.

Sample Login

ENCOTEC received eighteen samples from Federal Express on June 25, 1997 through June 26, 1997. Standard Chain of Custody procedures were followed. The samples were stored at 4°C and/or chemically preserved as required by EPA protocol. The samples were scheduled for Full Organic Analysis. The sample identifications originally listed on the chain of custodies were incorrect. SMO was notified and provided a facsimile with the correct sample identifications on June 27, 1997.

Sample Analysis - Volatile

Sample analysis was performed without incident and within holding times. Chain of custody was maintained, and samples were analyzed according to EPA SOW OLC02.1. Quality control results are summarized as follows:

- Analyses of surrogates were performed on all samples; please see FORM II LCV for results.

- The method blanks contained the following target analytes: Methylene Chloride and Acetone near or below the CRQL. No Tentatively Identified Compounds (TIC) were detected. Please see method blank Forms I LCV-TIC for results.

- A Laboratory control sample was performed with this SDG. Please see Form III LCV for results.

- All EICP areas and retention times were within QA/QC. Please see FORM VIII LCV for results.

Summary

The samples revealed several positively detected Target Compounds. Several Tentatively Identified Compounds were detected in the samples. Please see FORM's I LCV for results.

Sample Extraction

The samples were continuous liquid-liquid extracted for Semivolatile analysis on June 25, 1997 through June 26, 1997. The samples were separatory funnel extracted for Pesticide/PCB analysis on June 26, 1997 and June 27, 1997. All extracts were processed according to CLP protocol without incident. Final extracts were given to the GC/MS and GC groups June 26, 1997 through June 28, 1997.

Sample Analysis - Semivolatile

Sample analysis was performed with two incidents and within holding times. Sample Chain of custody was maintained, and samples were analyzed according to EPA SOW OLC02.1. Quality control results are summarized as follows:

- Analyses of surrogates were performed on all samples. Please see FORM II LCSV for results.

- The method blanks did not contain any target analytes. No Tentatively Identified Compounds (TICs) were detected. Please see method blank FORM's I LCSV-1, LCSV-2 and LCSV-TIC for results.

- A Laboratory Control Sample (LCS) was analyzed with this SDG. Please see Form III LCSV for results.

- EICP areas and retention times were within QA/QC windows. Please see FORM's VIII LCSV-1 and LCSV-2 for results.

Summary

The samples revealed several positively detected Target compounds. Several TIC's were detected in the samples. Sample EBZA7 required reanalysis at a secondary dilution due to concentrations of detected analytes exceeding the linear range established by the calibration standards. Please see FORM's I LCSV-1, LCSV-2, and LCSV-TIC for results.

Sample Analysis - Pesticide/PCB

Sample analysis was performed with only one incident and within holding times. Chain of custody was maintained, and samples were analyzed according to EPA SOW OLC02.1. Quality control results are summarized as follows:

- Analyses of surrogates were performed on all samples; please see FORM II LCP for results.

- The method blanks did not contain any target analytes at or above the CRQL.

- A Laboratory Control Sample was analyzed with this SDG. Please see FORM III LCP for results.

Summary

Target analytes were found in several samples at concentrations near the CRQL. Please see all FORM I LCP for results.

Any technical questions regarding the data present in this deliverable should be addressed to the individual whose name appears at the end of this case narrative. Any manual integrations/compound identifications were done so on account the automatic software either failing to properly identify/quantitate the analyte of interest. The location of the Ph values for the volatile fraction are contained within the analytical run logs located within the Miscellaneous Data Section of the Complete Sample File (CSF).

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions implied or detailed above. Release of the information contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Thomas H. Marshall

7/8/97

Thomas H. Marshall
Project Manager
THM
75100

DATE

2LCA

LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

	EPA SAMPLE NO.	BFB %REC#	OTHER	TOT OUT
01	VBLK05	103		0
02	EBZB0	99		0
03	EBZB2	100		0
04	EBZA7	105		0
05	EBZA8	101		0
06	EBZA1	110		0

			QC LIMITS % REC
BFB	=	Bromofluorobenzene	(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2LCA

LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

	EPA SAMPLE NO.	BFB %REC#	OTHER	TOT OUT
01	VBLK06	105		0
02	EBZA2	97		0
03	EBZA3	104		0
04	EBYZ7	103		0
05	EBYZ8	100		0
06	EBYZ9	106		0
07	EBZB6	103		0
08	EBZB7	105		0
09	EBZB8	104		0
10	VLCS03	101		0
11	EBZA9	94		0
12	EBZB3	101		0
13	EBZB4	97		0
14	EBZB5	104		0
15	EBZA0	120		0
16	VHBLK03	112		0

			QC LIMITS % REC
BFB	=	Bromofluorobenzene	(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3LCA

LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

VLCS03

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: VLCS03 LCS Lot No.: LA62539

Lab File ID: LCSG0702.D Date Analyzed: 7/2/97

Purge volume: 10.0 (ml) Dilution Factor: 1

LCS Aliquot: 10.0 (ul)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	% REC #	QC LIMITS
Vinyl Chloride	50	66.80	134	60 - 140
1,2-Dichloroethane	50	56.10	112	60 - 140
Carbon Tetrachloride	50	46.70	93	60 - 140
1,2-Dichloropropane	50	46.80	94	60 - 140
cis 1,3-Dichloropropene	50	48.30	97	60 - 140
Trichloroethene	50	46.50	93	60 - 140
1,1,2-Trichloroethane	50	49.00	98	60 - 140
Benzene	50	43.90	88	60 - 140
Bromoform	50	42.10	84	60 - 140
Tetrachloroethene	50	44.90	90	60 - 140
1,2-Dibromoethane	50	47.80	96	60 - 140
1,4-Dichlorobenzene	50	43.90	88	60 - 140

Column to be used to flag LCS recovery with an asterisk

* Values outside of QC limits

LCS Recovery: 0 outside of limits out of 12 total

COMMENTS:

4LCA

LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK05

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: VBLK05 Date Analyzed: 07/01/97

Lab File ID: VWBG01G2.D Time Analyzed: 23:42

Instrument ID: 5971-007

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EBZB0	EBZB0	26504V.D	02:56
02	EBZB2	EBZB2	26505V.D	03:35
03	EBZA7	EBZA7	26506V.D	04:13
04	EBZA8	EBZA8	26507V.D	04:52
05	EBZA1	EBZA1	26633V.D	08:42

COMMENTS:

4LCA

LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK06

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: VBLK06 Date Analyzed: 07/02/97

Lab File ID: VWBG02G1.D Time Analyzed: 13:03

Instrument ID: 5971-007

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EBZA2	EBZA2	26634V.D	13:42
02	EBZA3	EBZA3	26635V.D	14:21
03	EBYZ7	EBYZ7	26636V.D	15:01
04	EBYZ8	EBYZ8	26637V.D	15:47
05	EBYZ9	EBYZ9	26638V.D	16:27
06	EBZB6	EBZB6	26639V.D	17:07
07	EBZB7	EBZB7	26640V.D	17:46
08	EBZB8	EBZB8	26641V.D	18:25
09	VLCS03	VLCS03	LCSG0702.D	19:05
10	EBZA9	EBZA9	26508VR.D	19:44
11	EBZB3	EBZB3	26509VR.D	20:23
12	EBZB4	EBZB4	26510VR.D	21:02
13	EBZB5	EBZB5	26511VR.D	21:41
14	EBZA0	EBZA0	26632VR.D	22:19
15	VHBLK03	VHBLK03	VHBLK03.D	22:58

COMMENTS:

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK05

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: VBLK05 Date Received:

Lab File ID: VWBG01G2.D Date Analyzed: 07/01/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	0.2	J
67-64-1	Acetone	3	J
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK05

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: VBLK05 Date Received:

Lab File ID: VWBG01G2.D Date Analyzed: 07/01/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK06

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: VBLK06 Date Received:

Lab File ID: VWBG02G1.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	0.3	J
67-64-1	Acetone	3	J
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK06

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: VBLK06 Date Received:

Lab File ID: VWBG02G1.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

VHBLK03

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: VHBLK03 Date Received: 06/26/97

Lab File ID: VHBLK03.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	~~1~~ 5	JB 4
67-64-1	Acetone	5	JB 4
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

JB 7/14/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK03

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: VHBLK03 Date Received: 06/26/97

Lab File ID: VHBLK03.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

VLCS03

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: VLCS03 Date Received:

Lab File ID: LCSG0702.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	7	
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	6	
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	5	
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	5	
10061-01-5	cis 1,3-Dichloropropene	5	
79-01-6	Trichloroethene	5	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	5	
71-43-2	Benzene	4	
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	4	
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	4	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	5	
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	4	
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VLCS03

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: VLCS03 Date Received:

Lab File ID: LCSG0702.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBYZ7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBYZ7 Date Received: 06/26/97

Lab File ID: 26636V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q	
74-87-3	Chloromethane	1 ~~0.5~~	~~J~~ J	CWB 04/11/97
74-83-9	Bromomethane	1	U	
75-01-4	Vinyl Chloride	1	U	
75-00-3	Chloroethane	1	U	
75-09-2	Methylene Chloride	~~2 0.5~~	JB U	
67-64-1	Acetone	5 ~~4~~	JB M	7/14/97
75-15-0	Carbon Disulfide	1	U	
75-35-4	1,1-Dichloroethene	1	U	
75-34-3	1,1-Dichloroethane	1	U	
156-59-2	cis 1,2-Dichloroethene	1	U	
156-60-5	trans 1,2-Dichloroethene	1	U	
67-66-3	Chloroform	1	U	
107-06-2	1,2-Dichloroethane	1	U	
78-93-3	2-Butanone	5	U	
74-97-5	Bromochloromethane	1	U	
71-55-6	1,1,1-Trichloroethane	1	U	
56-23-5	Carbon Tetrachloride	1	U	
75-27-4	Bromodichloromethane	1	U	
78-87-5	1,2-Dichloropropane	1	U	
10061-01-5	cis 1,3-Dichloropropene	1	U	
79-01-6	Trichloroethene	1	U	
124-48-1	Dibromochloromethane	1	U	
79-00-5	1,1,2-Trichloroethane	1	U	
71-43-2	Benzene	1	U	
10061-02-6	trans 1,3-Dichloropropene	1	U	
75-25-2	Bromoform	1	U	
108-10-1	4-Methyl-2-pentanone	5	U	
591-78-6	2-Hexanone	5	U	
127-18-4	Tetrachloroethene	1	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	U	
106-93-4	1,2-Dibromoethane	1	U	
108-88-3	Toluene	0.7	J	
108-90-7	Chlorobenzene	1	U	
100-41-4	Ethylbenzene	1	U	
100-42-5	Styrene	1	U	
1330-20-7	Xylene (total)	1	U	
541-73-1	1,3-Dichlorobenzene	1	U	
106-46-7	1,4-Dichlorobenzene	1	U	
95-50-1	1,2-Dichlorobenzene	1	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	U	
120-82-1	1,2,4-Trichlorobenzene	1	U	

24

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBYZ7

GW06
MW8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBYZ7 Date Received: 06/26/97

Lab File ID: 26636V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBYZ8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBYZ8 Date Received: 06/26/97

Lab File ID: 26637V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q	
74-87-3	Chloromethane	1	U	
74-83-9	Bromomethane	1	U	
75-01-4	Vinyl Chloride	1	U	
75-00-3	Chloroethane	1		
75-09-2	Methylene Chloride	2 ~~0.2~~	JB U	ST 7/14/97
67-64-1	Acetone	5 ~~1~~	JB U	
75-15-0	Carbon Disulfide	1 ~~0.2~~	~~J~~ U	CWB 04/11/97
75-35-4	1,1-Dichloroethene	1	U	
75-34-3	1,1-Dichloroethane	1	U	
156-59-2	cis 1,2-Dichloroethene	1	U	
156-60-5	trans 1,2-Dichloroethene	1	U	
67-66-3	Chloroform	1	U	
107-06-2	1,2-Dichloroethane	1 ~~0.4~~	~~J~~ U	CWB 04/11/97
78-93-3	2-Butanone	5	U	
74-97-5	Bromochloromethane	1	U	
71-55-6	1,1,1-Trichloroethane	1	U	
56-23-5	Carbon Tetrachloride	1	U	
75-27-4	Bromodichloromethane	1	U	
78-87-5	1,2-Dichloropropane	1	U	
10061-01-5	cis 1,3-Dichloropropene	1	U	
79-01-6	Trichloroethene	1	U	
124-48-1	Dibromochloromethane	1	U	
79-00-5	1,1,2-Trichloroethane	1	U	
71-43-2	Benzene	2		
10061-02-6	trans 1,3-Dichloropropene	1	U	
75-25-2	Bromoform	1	U	
108-10-1	4-Methyl-2-pentanone	5	U	
591-78-6	2-Hexanone	5	U	
127-18-4	Tetrachloroethene	1	U	
79-34-5	1,1,2,2-Tetrachloroethane	1	U	
106-93-4	1,2-Dibromoethane	1	U	
108-88-3	Toluene	1 0	J	
108-90-7	Chlorobenzene	1	U	
100-41-4	Ethylbenzene	1	U	
100-42-5	Styrene	1	U	
1330-20-7	Xylene (total)	1	U	
541-73-1	1,3-Dichlorobenzene	1	U	
106-46-7	1,4-Dichlorobenzene	1	U	
95-50-1	1,2-Dichlorobenzene	1	U	
96-12-8	1,2-Dibromo-3-chloropropane	1	U	
120-82-1	1,2,4-Trichlorobenzene	1	U	

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EBYZ8

GW07
MW15

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBYZ8 Date Received: 06/26/97

Lab File ID: 26637V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBYZ9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBYZ9 Date Received: 06/26/97

Lab File ID: 26638V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	
75-09-2	Methylene Chloride	~~2.0~~	JB U
67-64-1	Acetone	~~5~~	JB U
75-15-0	Carbon Disulfide	~~1~~	~~U~~
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	2	
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1.0	J
108-90-7	Chlorobenzene	0.2	J
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

BT 7/14/97 CWB 07/16/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EBYZ9

GW09 duplicate MW15

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBYZ9 Date Received: 06/26/97

Lab File ID: 26638V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA0 Date Received: 06/26/97

Lab File ID: 26632VR.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	1.02	JB
67-64-1	Acetone	5.6	JB
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

SF 7/14/97

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GW09

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZA0

MW38

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA0 Date Received: 06/26/97

Lab File ID: 26632VR.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA1 Date Received: 06/26/97

Lab File ID: 26633V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	0.4	J
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	1.02	JB U
67-64-1	Acetone	10	B U
75-15-0	Carbon Disulfide	0.4	J
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	0.7	J
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

ST 7/14/97

RB02
rinsate blank

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZA1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA1 Date Received: 06/26/97

Lab File ID: 26633V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA2 Date Received: 06/26/97

Lab File ID: 26634V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	1.04	JBU
67-64-1	Acetone	5.0	JBU
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	0.2	J
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	0.6	J
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

SR 7/14/97

GW10

MW18

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZA2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA2 Date Received: 06/26/97

Lab File ID: 26634V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA3 Date Received: 06/26/97

Lab File ID: 26635V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2 ~~0.7~~	JBU
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

SY 7/14/97

TBD4
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1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZA3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA3 Date Received: 06/26/97

Lab File ID: 26635V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA7

Lab Name: REI Contract: 68-D6-0061

Lab Code ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA7 Date Received: 06/25/97

Lab File ID: 26506V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	0.4	J
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	JBU
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	0.6	J
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

JBU 7/14/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EBZA7

GW01
MW46

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA7 Date Received: 06/25/97

Lab File ID: 26506V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 1

	CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1.	000108-20-3	Diisopropyl ether	9.32	8	JN

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA8 Date Received: 06/25/97

Lab File ID: 26507V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	JBU
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	0.3	J
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

JB 7/14/97

91

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZA8

GW02
MW50

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA8 Date Received: 06/25/97

Lab File ID: 26507V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA9 Date Received: 06/25/97

Lab File ID: 26508VR.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	0.3	J
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2 ~~0.3~~	JB 4
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	0.3	J
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

7/14/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EBZA9

GW02 duplicate
MW50 duplicate

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA9 Date Received: 06/25/97

Lab File ID: 26508VR.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB0 Date Received: 06/25/97

Lab File ID: 26504V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	1 ~~0.2~~	JBU
67-64-1	Acetone	5 ~~8~~	JBU
75-15-0	Carbon Disulfide	1 ~~0.2~~	~~J~~ U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	0.2	J
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	0.3	J
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

ST 7/14/97 Cmnts 07/21/97

GW05
MW23

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EBZB0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB0 Date Received: 06/25/97

Lab File ID: 26504V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB2 Date Received: 06/25/97

Lab File ID: 26505V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2 ~~0.6~~	JB U
67-64-1	Acetone	5 ~~2~~	JB U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

ST 7/14/97

13

TB02
trip blank

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EBZB2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB2 Date Received: 06/25/97

Lab File ID: 26505V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB3 Date Received: 06/25/97

Lab File ID: 26509VR.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	0.3	J
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	0.4	J
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	0.4	J
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

GWDS
MW11

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EBZB3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB3 Date Received: 06/25/97

Lab File ID: 26509VR.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB4

GW04 MW28

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB4 Date Received: 06/25/97

Lab File ID: 26510VR.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	0.4	J
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	JB U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	0.3	J
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

ST 7/14/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EBZB4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB4 Date Received: 06/25/97

Lab File ID: 26510VR.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB5

TB91 trip blank

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB5 Date Received: 06/25/97

Lab File ID: 26511VR.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	~~2.7~~	JB U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

7/14/97 cg 7/14/97

33

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZB5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB5 Date Received: 06/25/97

Lab File ID: 26511VR.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO. RB01 matrix blank

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB6 Date Received: 06/26/97

Lab File ID: 26639V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	~~0.3~~	JBU
67-64-1	Acetone	7	BU
75-15-0	Carbon Disulfide	4	
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	0.9	J
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

SF 7/14/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZB6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB6 Date Received: 06/26/97

Lab File ID: 26639V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZB7

GW08
MW37

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB7 Date Received: 06/26/97

Lab File ID: 26640V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2 ~~0.2~~	JB U
67-64-1	Acetone	5 ~~4~~	JB U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1 ~~0.3~~	~~J~~ U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	0.7	J
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

ST 7/14/97

Cuff 09/11/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZB7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB7 Date Received: 06/26/97

Lab File ID: 26640V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZB8

TB03 trip blank

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB8 Date Received: 06/26/97

Lab File ID: 26641V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1 ~~0.3~~	~~J~~ U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2 ~~0.9~~	JBU
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

CWB 29/1/97

7/14/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EBZB4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB4 Date Received: 06/25/97

Lab File ID: 26510VR.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

2LCB

LOW CONC. WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

	EPA SAMPLE NO.	S1 NBZ #	S2 FBP #	S3 TPH #	S4 PHL #	S5 2-FP #	S6 TBP #	TOT OUT
01	SBLKE9	78	75	80	75	68	52	0
02	EBZB0	79	82	92	83	77	66	0
03	EBZA7	79	79	83	81	63	64	0
04	EBZA8	79	74	65	80	75	61	0
05	EBZA9	75	74	64	76	70	62	0
06	EBZB3	78	76	80	78	75	62	0
07	EBZB4	76	71	62	74	69	57	0
08	EBZA7DL	38	41	39	40	38	32	0

			QC LIMITS
NBZ	=	d5-Nitrobenzene	(23-120)
FBP	=	2-Fluorobiphenyl	(30-115)
TPH	=	d14-Terphenyl	(18-140)
PHL	=	d5-Phenol	(15-115)
2-FP	=	2-Fluorophenol	(15-121)
TBP	=	2,4,6-Tribromophenol	(15-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

2LCB

LOW CONC. WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

	EPA SAMPLE NO.	S1 NBZ #	S2 FBP #	S3 TPH #	S4 PHL #	S5 2-FP #	S6 TBP #	TOT OUT
01	SBLKF2	80	70	82	82	75	58	0
02	SLCSD2	70	64	78	74	67	51	0
03	EBZA0	80	79	79	81	76	65	0
04	EBZA1	79	76	75	79	71	59	0
05	EBZA2	72	71	77	72	66	56	0
06	EBYZ7	74	73	83	73	69	58	0
07	EBYZ8	73	74	86	72	69	61	0
08	EBYZ9	75	76	85	70	69	60	0
09	EBZB6	68	68	76	66	63	55	0
10	EBZB7	68	68	79	67	65	55	0

			QC LIMITS
NBZ	=	d5-Nitrobenzene	(23-120)
FBP	=	2-Fluorobiphenyl	(30-115)
TPH	=	d14-Terphenyl	(18-140)
PHL	=	d5-Phenol	(15-115)
2-FP	=	2-Fluorophenol	(15-121)
TBP	=	2,4,6-Tribromophenol	(15-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

3LCB

LOW CONC. WATER SEMIVOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

SLCSD2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: SLCSD2 LCS Lot No.: MB102C

Lab File ID: SLCSD2.D Date Extracted 06/26/97

LCS Aliquot: 10.0 (ul) Date Analyzed: 6/29/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1

Injection Volume: 1 (ul)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	% REC #	QC LIMITS
Phenol	40	26.00	65	40 - 120
bis(2-Chloroethyl) ether	20	14.60	73	50 - 110
2-Chlorophenol	40	28.30	71	50 - 110
n-Nitroso-di-n-propylamine	20	14.20	71	30 - 110
Hexachloroethane	20	12.70	64	20 - 110
Isophorone	20	12.60	63	50 - 110
Naphthalene	20	13.60	68	30 - 110
4-Chloroaniline	40	17.40	44	10 - 120
2,4,6-Trichlorophenol	40	24.60	62	40 - 120
2,4-Dinitrotoluene	20	11.60	58	30 - 120
Diethylphthalate	20	15.40	77	50 - 120
n-Nitrosodiphenylamine	20	13.90	70	30 - 110
Hexachlorobenzene	20	14.80	74	40 - 120
Benzo(a) pyrene	20	13.80	69	50 - 120

Column to be used to flag LCS recovery with an asterisk

* Values outside of QC limits

LCS Recovery: 0 outside limits out of 14 total

COMMENTS:

4LCB

LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKE9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: SBLKE9 Date Extracted: 6/25/97

Lab File ID: SBLKE9.D Date Analyzed: 06/27/97

Instrument ID: 5971-024 Time Analyzed: 20:15

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EBZB0	EBZB0	26504B.D	06/27/97
02	EBZA7	EBZA7	26506B.D	06/27/97
03	EBZA8	EBZA8	26507B.D	06/27/97
04	EBZA9	EBZA9	26508B.D	06/28/97
05	EBZB3	EBZB3	26509B.D	06/28/97
06	EBZB4	EBZB4	26510B.D	06/28/97
07	EBZA7DL	EBZA7DL	26506DL.D	06/30/97

COMMENTS:

4LCB

LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKF2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: SBLKF2 Date Extracted: 6/26/97

Lab File ID: SBLKF2.D Date Analyzed: 06/29/97

Instrument ID: 5971-024 Time Analyzed: 19:57

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCSD2	SLCSD2	SLCSD2.D	06/29/97
02	EBZA0	EBZA0	26632B.D	06/30/97
03	EBZA1	EBZA1	26633B.D	06/30/97
04	EBZA2	EBZA2	26634B.D	06/30/97
05	EBYZ7	EBYZ7	26636B.D	06/30/97
06	EBYZ8	EBYZ8	26637B.D	06/30/97
07	EBYZ9	EBYZ9	26638B.D	06/30/97
08	EBZB6	EBZB6	26639B.D	06/30/97
09	EBZB7	EBZB7	26640B.D	06/30/97

COMMENTS:

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKE9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: SBLKE9 Date Received:

Lab File ID: SBLKE9.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/27/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKE9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: SBLKE9 Date Received:

Lab File ID: SBLKE9.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/27/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKE9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: SBLKE9 Date Received:

Lab File ID: SBLKE9.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/27/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	C

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKF2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: SBLKF2 Date Received:

Lab File ID: SBLKF2.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/29/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKF2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: SBLKF2 Date Received:

Lab File ID: SBLKF2.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/29/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKF2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: SBLKF2 Date Received:

Lab File ID: SBLKF2.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/29/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SLCSD2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: SLCSD2 Date Received:

Lab File ID: SLCSD2.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/29/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	26	
111-44-4	bis(2-Chloroethyl) ether	15	
95-57-8	2-Chlorophenol	28	
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	14	
67-72-1	Hexachloroethane	13	
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	13	
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	14	
106-47-8	4-Chloroaniline	17	
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	25	
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SLCSD2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: SLCSD2 Date Received:

Lab File ID: SLCSD2.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/29/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	12	
84-66-2	Diethylphthalate	15	
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	14	
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	15	
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	1	J
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	14	
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SLCSD2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: SLCSD2 Date Received:

Lab File ID: SLCSD2.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/29/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBYZ7

MW8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBYZ7 Date Received: 06/26/97

Lab File ID: 26636B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBYZ7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBYZ7

Lab File ID: 26636B.D

Sample Volume: 1000 (ML)

Concentrated Extract Volume: 1000 (uL)

Injection Volume: 1.0 (uL)

Date Received: 06/26/97

Date Extracted: 06/26/97

Date Analyzed: 06/30/97

Dilution Factor: 1.0

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBYZ8

MW15

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: EBYZ8 Date Received: 06/26/97

Lab File ID: 26637B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	13	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

CWB 7/1/97

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBYZ8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBYZ8 Date Received: 06/26/97

Lab File ID: 26637B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	15	
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBYZ8

MW15

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBYZ8 Date Received: 06/26/97

Lab File ID: 26637B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1.	unknown	10.22	15	J
2.	unknown	15.94	15	J

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBYZ9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBYZ9 Date Received: 06/26/97

Lab File ID: 26638B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	12	J
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

CLP 09/14/97

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBYZ9

MW15 Duplicate

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBYZ9 Date Received: 06/26/97

Lab File ID: 26638B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	14	
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBYZ9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBYZ9 Date Received: 06/26/97

Lab File ID: 26638B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1.	unknown	10.22	13	J
2.	unknown	15.93	14	J

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA0

MW38

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA0 Date Received: 06/26/97

Lab File ID: 26632B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	6	J
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

7/11/97

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA0 Date Received: 06/26/97

Lab File ID: 26632B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZA0

MW 38

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA0 Date Received: 06/26/97

Lab File ID: 26632B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA1 Date Received: 06/26/97

Lab File ID: 26633B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	4	J
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA1

RB02 rinsate blank

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA1 Date Received: 06/26/97

Lab File ID: 26633B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	1	J
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZA1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA1

Lab File ID: 26633B.D

Sample Volume: 1000 (ML)

Concentrated Extract Volume: 1000 (uL)

Injection Volume: 1.0 (uL)

Date Received: 06/26/97

Date Extracted: 06/26/97

Date Analyzed: 06/30/97

Dilution Factor: 1.0

Number TICs found: 1

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1.	000080-05-7	Phenol, 4,4'-(1-methylethylidene)bis-	26.73	19	JN

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA2

MW18

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA2 Date Received: 06/26/97

Lab File ID: 26634B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	6	J
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

CWB 08/11/97

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA2 Date Received: 06/26/97

Lab File ID: 26634B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	8	
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZA7DL

MW46

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA7DL Date Received: 06/25/97

Lab File ID: 26506DL.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 2.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl) ether	4	JD
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	n-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-chloroethoxy) methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	40	U
91-58-7	2-Chloronapthalene	10	U
88-74-4	2-Nitroaniline	40	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenapthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	40	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	40	U
132-64-9	Dibenzofuran	10	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA7DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA7DL Date Received: 06/25/97

Lab File ID: 26506DL.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 2.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	40	U
534-52-1	4,6-Dinitro-2-methylphenol	40	U
86-30-6	n-Nitrosodiphenylamine(1)	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	40	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a) anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	91	D
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b) fluoranthene	10	U
207-08-9	Benzo(k) fluoranthene	10	U
50-32-8	Benzo(a) pyrene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
53-70-3	Dibenz (ah) anthracene	10	U
191-24-2	Benzo (ghi) perylene	10	U

(1) - Cannot be separated from Diphenylamine

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA7

MW46

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA7 Date Received: 06/25/97

Lab File ID: 26506B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/27/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	89	E
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZA7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA7

Lab File ID: 26506B.D

Sample Volume: 1000 (ML)

Concentrated Extract Volume: 1000 (uL)

Injection Volume: 1.0 (uL)

Date Received: 06/25/97

Date Extracted: 06/25/97

Date Analyzed: 06/27/97

Dilution Factor: 1.0

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET EPA SAMPLE NO.

TENTATIVELY IDENTIFIED COMPOUNDS

EBZA7DL

MW46

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA7DL Date Received: 06/25/97

Lab File ID: 26506DL.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 2.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA8 Date Received: 06/25/97

Lab File ID: 26507B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/27/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	23	
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorob[illegible]diene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA8

MW50

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA8 Date Received: 06/25/97

Lab File ID: 26507B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/27/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	2	J
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	66	
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET EPA SAMPLE NO.

TENTATIVELY IDENTIFIED COMPOUNDS

EBZA8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA8 Date Received: 06/25/97

Lab File ID: 26507B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/27/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1. 000075-84-3	1-Propanol, 2,2-dimethyl-	10.36	68	JN
2. 000101-10-0	Propanoic acid, 2-(3-chlorophenoxy)-	18.76	11	JN

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA9

MW50 duplicate

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA9 Date Received: 06/25/97

Lab File ID: 26508B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/28/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	21	
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA9 Date Received: 06/25/97

Lab File ID: 26508B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/28/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	19	
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZA9

MW50 Replicate

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZA9

Lab File ID: 26508B.D

Sample Volume: 1000 (ML)

Concentrated Extract Volume: 1000 (uL)

Injection Volume: 1.0 (uL)

Date Received: 06/25/97

Date Extracted: 06/25/97

Date Analyzed: 06/28/97

Dilution Factor: 1.0

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1. 000075-84-3	1-Propanol, 2,2-dimethyl-	10.41	69	JN
2. 000101-10-0	Propanoic acid, 2-(3-chlorophenoxy)-	18.77	13	JN

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB0 Date Received: 06/25/97

Lab File ID: 26504B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/27/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	7	
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB0

MW23

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB0 Date Received: 06/25/97

Lab File ID: 26504B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/27/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5 x	x U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

CWJ 7/11/97

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZB0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB0 Date Received: 06/25/97

Lab File ID: 26504B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/27/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

MW11

Lab Sample ID: EBZB3 Date Received: 06/25/97

Lab File ID: 26509B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/28/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB3 Date Received: 06/25/97

Lab File ID: 26509B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/28/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

CWB 07/4/97

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZB3

MW11

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: _____ SDG No.: EBZA7

Lab Sample ID: EBZB3 Date Received: 06/25/97

Lab File ID: 26509B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/28/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 1

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1.		unknown	7.13	12	J

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB4 Date Received: 06/25/97

Lab File ID: 26510B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/28/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	73	
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB4

MW28

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB4 Date Received: 06/25/97

Lab File ID: 26510B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/28/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	14	
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZB4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB4 Date Received: 06/25/97

Lab File ID: 26510B.D Date Extracted: 06/25/97

Sample Volume: 1000 (ML) Date Analyzed: 06/28/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 3

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1.		unknown	7.13	12	J
2.	000104-76-7	1-Hexanol, 2-ethyl-	8.58	18	JN
3.	000112-34-5	Ethanol, 2-(2-butoxyethoxy)-	11.83	20	JN

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB6

RB01 rinsate blank

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB6 Date Received: 06/26/97

Lab File ID: 26639B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB6 Date Received: 06/26/97

Lab File ID: 26639B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	2	J
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZB6

RB01 minute blank

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB6

Lab File ID: 26639B.D

Sample Volume: 1000 (ML)

Concentrated Extract Volume: 1000 (uL)

Injection Volume: 1.0 (uL)

Date Received: 06/26/97

Date Extracted: 06/26/97

Date Analyzed: 06/30/97

Dilution Factor: 1.0

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1. 000080-05-7	Phenol, 4,4'-(1-methylethylidene)bis-	26.72	11	JN

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB7 Date Received: 06/26/97

Lab File ID: 26640B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	14	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

07/11/97

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET EPA SAMPLE NO.

TENTATIVELY IDENTIFIED COMPOUNDS

EBZB7

MW37

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: EBZB7 Date Received: 06/26/97

Lab File ID: 26640B.D Date Extracted: 06/26/97

Sample Volume: 1000 (ML) Date Analyzed: 06/30/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

2LCC

LOW CONC. WATER PESTICIDE SURROGATE RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

GC Column(1): DB-1701 ID: 0.32 (mm) GC Column(2): DB-17 ID: 0.32 (mm)

	EPA SAMPLE NO.	TCX(1) %REC #	TCX(2) %REC #	DCB(1) %REC #	DCB(2) %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	EBYZ7	70	75	85	80			0
02	EBYZ8	90	85	70	70			0
03	EBYZ9	90	80	65	65			0
04	EBZA0	80	85	75	75			0
05	EBZA1	75	80	95	90			0
06	EBZA2	70	75	105	100			0
07	EBZA7	65	85	50	50			0
08	EBZA8	90	70	48	43			0
09	EBZA9	90	70	50	46			0
10	EBZB0	70	70	80	80			0
11	EBZB3	75	75	75	70			0
12	EBZB4	85	80	50	44			0
13	EBZB6	70	75	70	65			0
14	EBZB7	70	70	70	70			0
15	PBLKF1	80	80	105	95			0
16	PBLKF3	75	80	70	65			0
17	PLCSD1	75	75	100	95			0
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

QC LIMITS

		%REC
S1 TCX	= Tetrachloro-m-xylene	(30-150)
S2 DCB	= Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values.
* Values outside of QC limits.
D Surrogate diluted out.

SDCC

LOW CONC. WATER PESTICIDE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

PLCSD1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: LCS062697 LCS Lot No.: A006181

LCS Aliquot: 1000 (uL) Date Extracted: 06/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 06/26/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y

Instrument ID(1): 3400C GC Column(1):DB-1701 ID:0.32 (mm)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.050	0.048	96	50-120
Heptachlor epoxide	0.050	0.044	88	50-150
Dieldrin	0.10	0.098	98	30-130
4,4'-DDE	0.10	0.11	110	50-150
Endrin	0.10	0.12	120	50-120
Endosulfan sulfate	0.10	0.096	96	50-120
gamma-Chlordane	0.050	0.050	100	30-130

Instrument ID(2): 3400D GC Column(2):DB-17 ID:0.32 (mm)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.050	0.048	96	50-120
Heptachlor epoxide	0.050	0.044	88	50-150
Dieldrin	0.10	0.096	96	30-130
4,4'-DDE	0.10	0.095	95	50-150
Endrin	0.10	0.11	110	50-120
Endosulfan sulfate	0.10	0.096	96	50-120
gamma-Chlordane	0.050	0.048	96	30-130

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.
LCS Recovery: 0 outside limits out of 14 total.

COMMENTS: _____

4LCC

LOW CONC. WATER PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKF1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Date Extracted: 06/26/97 Lab Sample ID: MB062697

Date Analyzed (1): 06/26/97 Date Analyzed (2): 06/26/97

Time Analyzed (1): 1617 Time Analyzed (2): 1617

Instrument ID (1): 3400C Instrument ID (2): 3400D

GC Column (1): DB-1701 ID: 0.32(mm) GC Column (2): DB-17 ID: 0.32(mm)

Sulfur Cleanup (Y/N) Y Extraction:(SepF/Cont) SEPF

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EBZA7	26506	06/26/97	06/26/97
02	EBZA8	26507	06/26/97	06/26/97
03	EBZA9	26508	06/26/97	06/26/97
04	EBZB0	26504	06/26/97	06/26/97
05	EBZB3	26509	06/26/97	06/26/97
06	EBZB4	26510	06/26/97	06/26/97
07	PLCSD1	LCS062697	06/26/97	06/26/97
08				
09				
10				
11				
12				
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19				
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22				
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26				

COMMENTS: _____

4LCC

LOW CONC. WATER PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKF3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Date Extracted: 06/30/97 Lab Sample ID: MB062797

Date Analyzed (1): 07/01/97 Date Analyzed (2): 07/01/97

Time Analyzed (1): 1716 Time Analyzed (2): 1716

Instrument ID (1): 3400C Instrument ID (2): 3400D

GC Column (1): DB-1701 ID: 0.32(mm) GC Column (2): DB-17 ID: 0.32(mm)

Sulfur Cleanup (Y/N) Y Extraction:(SepF/Cont) SEPF

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EBYZ7	26636	07/01/97	07/01/97
02	EBYZ8	26637	07/01/97	07/01/97
03	EBYZ9	26638	07/01/97	07/01/97
04	EBZA0	26632	07/01/97	07/01/97
05	EBZA1	26633	07/01/97	07/01/97
06	EBZA2	26634	07/01/97	07/01/97
07	EBZB6	26639	07/01/97	07/01/97
08	EBZB7	26640	07/01/97	07/01/97
09				
10				
11				
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26				

COMMENTS:

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKF1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: MB062697 Date Received:

Sample Volume: 1000.00 (mL) Date Extracted: 06/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 06/26/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKF3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: MB062797 Date Received:

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSD1(1)

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: LCS062697 Date Received:

Sample Volume: 1000.00 (mL) Date Extracted: 06/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 06/26/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.096	
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.089	
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.20	
72-55-9	4,4'-DDE	0.22	
72-20-8	Endrin	0.24	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.19	
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.10	
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSD1(2)

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: LCS062697 Date Received:

Sample Volume: 1000.00 (mL) Date Extracted: 06/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 06/26/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.095	
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.088	
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.19	
72-55-9	4,4'-DDE	0.19	
72-20-8	Endrin	0.22	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.19	
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.096	
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	0.50	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBYZ7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: 26636 Date Received: 06/26/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBYZ8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7 MW15

Lab Sample ID: 26637 Date Received: 06/26/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBYZ9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

MW15 dup.

Lab Sample ID: 26638 Date Received: 06/26/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZA0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

MW38

Lab Sample ID: 26632 Date Received: 06/26/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZA1

RB02

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

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Lab Sample ID: 26633 Date Received: 06/26/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZA2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

MW18

Lab Sample ID: 26634 Date Received: 06/26/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZA7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

MW46

Lab Sample ID: 26506 Date Received: 06/25/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 06/26/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZA8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

MW50

Lab Sample ID: 26507 Date Received: 06/25/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 06/26/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.013	J
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZA9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

MW50 dup.

Lab Sample ID: 26508 Date Received: 06/25/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 06/26/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.012	JP
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.20	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZB0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: 26504 Date Received: 06/25/97 MW23

Sample Volume: 1000.00 (mL) Date Extracted: 06/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 06/26/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZB3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

MW11

Lab Sample ID: 26509 Date Received: 06/25/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 06/26/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZB6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: 26639 Date Received: 06/26/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

Unsate blank RB01

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZB4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

Lab Sample ID: 26510 Date Received: 06/25/97

MW28

Sample Volume: 1000.00 (mL) Date Extracted: 06/26/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 06/26/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.021	P
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZB7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA7

MW37

Lab Sample ID: 26640 Date Received: 06/26/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12572-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No: _____ CERCLIS No: IN

Case No: 25525 Site Name Location: American Chem Svc

Contractor or EPA Lab: REI (Rollins) Data User: B+V

No. of Samples: 18 Date Sampled or Data Received: 7-10-97

Have Chain-of-Custody records been received? Yes ✓ No ___
Have traffic reports or packing lists been received? Yes ✓ No ___
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes ✓ No ___
If no, which traffic report or packing list numbers are missing?

_____ _____ _____ _____

_____ _____ _____ _____

Are basic data forms in? Yes ✓ No ___
No of samples claimed: 18 No. of samples received: 18

Received by: Lynette Burnett Date: 7-10-97

Received by LSSS: Lynette Burnett Date: 7-10-97

Review started: 7/11/97 Reviewer Signature: Stephanie N Tohn

Total time spent on review: 22hrs Date review completed: 7-15-97

Copied by: Lynette Burnett Date: 7-24-97

Mailed to user by: Lynette Burnett Date: 7-24-97

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

_____

_____

Received by Data Mgmt. Coordinator for Files. Data: _____

NARRATIVE

LABORATORY: REI
CASE: 25525
SDG: EBZA4
SITE: American Chemical Services

The water samples (EBZC0-4, EBZA4-6, EBZB9) were collected on 06/25-26/97. The laboratory received nine (9) low level water samples on 06/27/97 in good condition for organic analytes following the SOW OLC02.1. Samples EBZC1 and EBZC4 were analyzed for the list of VOA analytes only. The remaining samples were analyzed for the full list of organic analytes. No DC-2 was included with the data package.

VLCS21, SLCSD5, PLCSD4 were identified as the Laboratory Control Samples For the VOA, SVOA and Pest/PCB fractions, respectively.

Samples EBZC1 and EBZC4 were identified as the trip blanks. None of the samples in this dataset were identified as the field duplicates.

The VOA samples were analyzed within the holding time of fourteen (14) days for the preserved water samples. The SVOA and Pest/PCB samples were extracted within the holding time of seven (7) days for the water samples. The sample extracts were analyzed within forty (40) days following the extraction.

The reviewer's narrative and data qualifiers are noted in the following pages.

Reviewed by: Steffanie N. Tobin__Lockheed/ESAT
Date:__July 22nd, 1997__

Region 5 Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Region V CLP Data
Received for Review on July 14, 1997

FROM: Stephen L. Ostrodka, Chief (HSRL-5J) for Steve Ostrodka
Superfund Technical Support Section Richard L Byrnes 7/24/97

TO: Data User: B+V

We have reviewed the data for the following case:

SITE NAME: American Chem. SVCS (IN)

CASE NUMBER: 25525 SDG NUMBER: EBZA4

Number and Type of Samples: 9 (water)

Sample Numbers: EBZA4-6 EBZB9 EBZC0-4

Laboratory: Rollins Hrs. for Review: 8 hrs w/w +1

Following are our findings:
the data is usable and acceptable with the qualifications described in the attached narrative.

Richard L Byrnes

cc: Regional TPO
Cecilia Luckett
SM-5J

Below is a summary of the out-of-control audits and the possible effect on the data for this case.

1.HOLDING TIME

The water samples (EBZC0-4, EBZA4-6, EBZB9) were collected on 06/25-26/97.The laboratory received nine (9) low level water samples on 06/27/97 in good condition for the list of organic analytes following the SOW OLC02.1. The VOA samples were analyzed within the holding time of fourteen (14) days for the preserved water samples; therefore, the results are acceptable. The SVOA and Pest/PCB samples were extracted within the holding time of seven (7) days for the water samples. The SVOA and Pest/PCB extracts were analyzed within forty (40) days following the extraction; therefore, the SVOA and Pest/PCB results are acceptable.

2.GC/MS TUNING PERFORMANCE

GC/MS tuning complied with the mass list and ion abundance criteria for BFB and DFTPP. All samples were analyzed within the twelve (12) hour periods for instrument performance checks.

The GC Resolution Check Mix met the 60% resolution criteria. DDT and Endrin degradation checks using Performance Evaluation Mix of DB-1701 and DB-17 columns were acceptable (<20%); therefore, the results are acceptable.

The Florisil Cartridge Checks met the QC criteria; therefore, the results are acceptable.

3.CALIBRATION

Initial and continuing calibration standards of VOA, SVOA and Pest/PCB were evaluated for the Target Compounds List (TCLs) and outliers were recorded on the outlier forms included as a part of this narrative.

4.METHOD BLANK

For the VOA fraction, VBLK21, VBLK23 and VBLK24 are the method blanks. VHBLK23 is the storage blank. VBLK21 contains methylene chloride at 0.3 µg/L, acetone at 2.0 µg/L and 1,2,4-

trichlorobenzene at 0.3 µg/L. VBLK23 contains methylene chloride at 0.7 µg/L. VBLK24 is clean. The storage blank contains Methylene chloride at 0.3 µg/L. Methylene chloride and acetone are common laboratory contaminants. The presence of these two compounds in the samples associated with VBLK21, VBLK23 and storage blank is flagged as non-detected (U) when the sample results are less than 10X the blank results. 1,2,4-trichlorobenzene is not a common laboratory contaminant. The presence of this compound in the associated sample with VBLK21 is flagged as non-detected (U) when the sample results are less than 5X the blank results. Please, refer to Form IVs VOA for the list of associated samples.

For the SVOA fraction, SBLKF6 and SBLKF7 are the method blanks. Both blanks are clean.

PBLKF5 and PBLKF8 are the method blanks for the Pest/PCB fraction. PBLKF5 and PBLKF8 contain no Pest/PCB residues.

5.SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The system monitoring compound recoveries for the VOA fraction were within the QC limits; therefore, the results are acceptable.

The surrogate recoveries for the SVOA fraction were within the QC limits; therefore, the results are acceptable.

For the Pest/PCB fraction, the recoveries of TCX1 and TCX2 for EBZC2DL were above the QC limits. However, the sample was analyzed at the dilution of 1:5; therefore, no qualification is required. The recovery of TCX1 for samples EBZC2, EBZC2RE, EBZC3 and EBZC3RE was above the QC limit. The positive results for the above samples are flagged as estimated (J) and no qualification for the non-detected is needed.

6.LABORATORY CONTROL SAMPLES

VLCS21, SLCSD5, PLCSD4 were identified as the Laboratory Control Samples For the VOA, SVOA and Pest/PCB fractions, respectively.

The recoveries for the above laboratory Control Samples were within the QC limits; therefore, the results are acceptable.

Reviewed by: Steffanie N. Tobin Lockheed/ESAT
Date: July 22nd, 1997

EPA United States Enviromental Protection Agency
Contract Laboratory Program

Spe[illegible] Analytical Services Packi[illegible] List/Chain of [illegible]dy

SAS No.

Case No. [illegible]

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil
7. Waste
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NAHSO4
4. H2SO4
5. NAOH
6. Ice Only
7. Other (Specify in Column D)
N. Not Preserved

2. Region No.: V
Sampling Co.: BVSPC
Sampler (Name): Steve Mikvicka
Sampler Signature: [signature]

3. Purpose*
Lead: [X] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM
[ ] SI [ ] ESI [ ] RI [ ] OIL [ ] UST
Long-Term Action: [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD

4. Date Shipped: 6-26-97
Carrier: Federal Express
Airbill Number: 5405965434

5. Ship To: Rollins Environmental, Inc.
3985 Research Park Rd.
Ann Arbor, MI 48108
ATTN: Tom Marshall

6. Date Received–Received by: 6/27/97 830 [signature]
Laboratory Contract Number: 68-D6-0061
Unit Price: 459.50

7. Transfer to:
Date Received
Received by
Contract Number
Price

	Sample Numbers (From Labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type Comp./Grab	D Preservative (from Box 7) Other:	E Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq.	Water-Immiscible Liq.
BZB9	97ZB05S14	2	L	G	1	VOAs	5-155818,9	ACS-GW14-001	6-26-97 1215	SRM			
↓	97ZB05S14	2	L	G	6	ABN	5-155816	↓	↓	↓			
	97ZB05S14	2	L	G	6	Pest/PCBs	5-155817						
BZC0	97ZB05S15	2	L	G	1	VOAs	5-155824,5	ACS-GW15-001	6-26-97 1010	SRM			
↓	97ZB05S15	2	L	G	6	ABN	5-155822	↓	↓	↓			
	97ZB05S15	2	L	G	6	Pest/PCBs	5-155823						
BZC1	97ZB05TB05	4	L	G	1	VOAs	5-155829,30	ACS-TB05-201	6-26-97 1450	SRM			

First Sample: EBZB9

Shipment for SAS Complete? (Y/N) Y
Page 2 of 2
Sample(s) to be Used for Laboratory QC
Additional Sampler Signatures: Last Sample: EBZ[illegible]2, 158599
Chain of Custody Seal Number(s)

CHAIN OF CUSTODY RECORD

SDG: EBZ A4

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-26-97 1615		[signature]	6/27/97	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6-27-97 830	[signature]			
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks Is custody seal intact? Y/N / none	
		[signature]	6/27/97 830		

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

**Data User means the organization which contracted the laboratory services

A21-012-7 REV. 3/94

52101

EPA United States Enviromental Protection Agency
Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.	Case No.

1. Matrix (Enter in Column A)	2. Preservative (Enter in Column D)	2. Region No.	Sampling Co.	4. Date Shipped	Carrier	6. Date Received--Received by:
1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil 7. Waste 8. Other (Specify in Column A)	1. HCl 2. HNO3 3. NAHSO4 4. H2SO4 5. NAOH 6. Ice Only 7. Other (Specify in Column D) N. Not Preserved	V	[illegible]	[illegible]-6-17	[illegible]	6/27/97 830 [signature]
		Sampler (Name) [illegible]		Airbill Number 5405 165434		Laboratory Contract Number 68-D6-0061 / Unit Price 459.50
		Sampler Signature [illegible]		5. Ship To Rollins Environmental, Inc. [illegible] Research Park Rd. Ann Arbor, MI 48108 ATTN: Tim Marshall		7. Transfer to: / Date Received
		3. Purpose* Lead: [X] SF [ ] PRP [ ] ST [ ] FED; Early Action: [ ] CLEM [ ] PA [ ] REM; [ ] SI [ ] ESI [ ] RI [ ] OIL [ ] UST; Long-Term Action: [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD				Received by
						Contract Number / Price

Sample Numbers (From Labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type Comp./Grab	D Preservative (from Box 7) Other:	E Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq	Water-Immis Liq
[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]	5-155799,7	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	L	G	6	[illegible]	5-155716	↓	↓	↓			
[illegible]	[illegible]	L	G	6	[illegible]	5-155717	↓	↓	↓			
[illegible]	[illegible]	[illegible]	G	1	[illegible]	5-155804,5	[illegible]	[illegible]	[illegible]			
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	5-155802			↓			
[illegible]	[illegible]	L	[illegible]	6	[illegible]	5-155803	↓	↓	↓			
[illegible]		[illegible]	[illegible]	1	[illegible]	5-155811,2	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	6	[illegible]	5-155809	↓	↓	↓			
[illegible]	[illegible]	[illegible]	[illegible]	6	[illegible]	5-155810	↓	↓	↓			

Shipment for SAS Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
	1 of 2		First Sample: EBZA4	[illegible]

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[illegible]	[illegible]		Last Sample: EBZA6 SDG: EBZA4		
Relinquished by: (Signature)	Date/Time 6/27/97 830	Received by: (Signature) [signature]	Relinquished by: (Signature)	Date/Time THM 6/27/97	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature) [signature]	Date/Time 6/27/97 830	Remarks Is custody seal intact? Y / N / none	

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

**Data Us[illegible] the organization wh[illegible] ntracted the laboratory[illegible]

A21-012-7 REV. 3/94

52[illegible]4

EPA United States Enviromental Protec[illegible]cy
Contract Laboratory Progra[illegible]

Sp[illegible]l Analytical S[illegible]ices Packing List/Chain of [illegible]tody

SAS No.

Case No. 25525

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil
7. Waste
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NAHSO4
4. H2SO4
5. NAOH
6. Ice Only
7. Other (Specify in Column D)
N. Not Preserved

2. Region No.: V
Sampling Co.: BVSPC.
4. Date Shipped: 6-26-97
Carrier: Federal Express
6. Date Received--Received by: 6/27/97 830 [signature]
Sampler (Name): Steve Mrkvicka
Airbill Number: 54059654-45
Laboratory Contract Number: 68-D6-0061
Unit Price: 459.50
Sampler Signature: [signature]
3. Purpose*: Lead [X] SF [ ] PRP [ ] ST [ ] FED; Early Action [ ] CLEM [ ] PA [ ] REM; [ ] SI [ ] ESI [ ] RI [ ] OIL [ ] UST; Long-Term Action [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD
5. Ship To: Rollins Environmental, Inc. 3985 Research Park Rd. Ann Arbor, MI 48108
ATTN: Tom Marshall
7. Transfer to:
Date Received
Received by
Contract Number
Price

	Sample Numbers (From Labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type Comp./Grab	D Preservative (from Box 7) Other:	E Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq.	Water-Immis Liq.
EBZC2	97ZB05S16	2	L	G	1	VOAs	5-155833,4	ACS-GW16-001	6-26-97 1451	SRM			
	97ZB05S16	2	L	G	6	ABN	5-155831	↓	↓	↓			
	97ZB05S16	2	L	G	6	Pest/PCBs	5-155832	↓	↓	↓			
EBZC3	97ZB05S17	2	L	G	1	VOAs	5-155839,40	ACS-GW17-001	6-26-97 1710	SRM			
	97ZB05S17	2	L	G	6	ABN	5-155837	↓	↓	↓			
	97ZB05S17	2	L	G	6	Pest/PCBs	5-155838	↓	↓	↓			
EBZC4	97ZB05TB06	4	L	G	1	VOAs	5-155843,4	ACS-TB06-201	6-26-97 17[illegible]	SRM			
							First Sample: EBZC2						
							Last Sample: EBZC4						

Shipment for SAS Complete? (Y) N
Page 1 of 1
Sample(s) to be Used for Laboratory QC
Additional Sampler Signatures: SDG: EBZA4
Chain of Custody Seal Number(s): 158580, 158659

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[signature]	6-26-97 1800		[signature]	6/27/97	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6-27-97 830	[signature]			
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks Is custody seal intact? (Y) N / none	
		[signature]	6-27-97 830		

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

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**Data User means the organization which contracted the laboratory services

A21-012-7 REV. 3/94

52495

EPA

United States Environmental Protection Agency
Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.: | Case No.: 25525

1. Matrix (Enter in Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil
7. Waste
8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
1. HCl
2. HNO3
3. NAHSO4
4. H2SO4
5. NAOH
6. Ice Only
7. Other (Specify in Column D)
N. Not Preserved

2. Region No.: V | Sampling Co.: BVSPC

4. Date Shipped: 6-26-97 | Carrier: Federal Express

6. Date Received--Received by: 6/27/97 830 Diane E. Jeb

Sampler (Name): Steve Mrkvicka

Airbill Number: 5405765434

Laboratory Contract Number: 68-D6-0061 | Unit Price: 459.50

Sampler Signature:

5. Ship To: Rollins Environmental, Inc.
3785 Research Park Rd.
Ann Arbor, MI 48108
ATTN: Tom Marshall

7. Transfer to: | Date Received

Received by

Contract Number | Price

3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM
SI, ESI, RI, OIL, UST
Long-Term Action: FS, RD, RA, O&M, NPLD

Sample Numbers (From Labels)	A Matrix (from Box 6) / Other:	B Conc.: Low Med High	C Sample Type Comp./ Grab	D Preservative (from Box 7) / Other:	E Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq.	Water-Immis Liq.
972B05511	2	L	G	1	VOA	5-155798,9 A	S-GW11-001	6-25-97 1754	SRM			
972B05511	2	L	G	6	ABN	5-155796						
972B05511	2	L	G	6	Pest/PCBs	5-155797						
972B05512	2	L	G	1	VOA	5-155804,5 A	S-GW12-001	6-26-97 0895	SRM			
972B05512	2	L	G	6	ABN	5-155802						
972B05512	2	L	G	6	Pest/PCBs	5-155803						
972B05513	2	L	G	1	VOAs	5-155811,2 A	S-GW13-001	6-26-97 0940	SRM			
972B05513	2	L	G	6	ABN	5-155809						
972B05513	2	L	G	6	Pest/PCBs	5-155810						

Shipment for SAS Complete? (Y/N): N | Page: 1 of 2 | Sample(s) to be Used for Laboratory QC | Additional Sampler Signatures: First Sample: EB2AA | Chain of Custody Seal Number(s): 158572, 158599

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6-26-97 1615		Last Sample: EB2AG		EB2AA
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6/27/97 830	Diane E. Jeb		6/27/97	6-27-97
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks: Is custody seal intact? Y / N / none	
		Diane E. Jeb	6/27/97 830		

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**Data User: the organization with which the laboratory contracted the laboratory services

AR1-012-7 REV. 3/94

5?:?4

EPA United States Enviromental Protect[illegible]cy
Contract Laboratory Program

Spe[illegible]l Analytical S[illegible]es Packing List/Chain of [illegible]ody

SAS No.	Case No.

1. Matrix (Enter in Column A)	2. Preservative (Enter in Column D)	2. Region No.	Sampling Co.	4. Date Shipped	Carrier	6. Date Received–Received by:
1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil 7. Waste 8. Other (Specify in Column A)	1. HCl 2. HNO3 3. NAHSO4 4. H2SO4 5. NAOH 6. Ice Only 7. Other (Specify in Column D) N. Not Preserved	[illegible]	[illegible]	6-26-97	[illegible]	6/27/97 830 Sara E. [illegible]

Sampler (Name)	Airbill Number	Laboratory Contract Number	Unit Price
[illegible]	[illegible]	68-D6-0061	459.50

Sampler Signature	5. Ship To	7. Transfer to:	Date Received
[illegible]	[illegible] Environmental Inc [illegible] Research Park [illegible] Ann Arbor, MI 48108 ATTN: Tom Marshall	Received by	
		Contract Number	Price

3. Purpose*

Lead	Early Action		Long-Term Action
[x] SF	[ ] CLEM	[ ] SI	[ ] FS
[ ] PRP	[ ] PA	[ ] ESI	[x] RD
[ ] ST	[ ] REM	[ ] RI	[x] RA
[ ] FED		[ ] OIL	[ ] O&M
		[ ] UST	[ ] NPLD

Sample Numbers (From Labels)	A Matrix (from Box 6) Other:	B Conc.: Low Med High	C Sample Type Comp./Grab	D Preservative (from Box 7) Other:	E Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq	Water-Immis Liq
[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]	5-155[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	6	[illegible]	5-155[illegible]						
[illegible]	[illegible]	[illegible]	[illegible]	6	[illegible]	5-155[illegible]						
[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]	5-155[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	6	[illegible]	5-155[illegible]						
[illegible]	[illegible]	[illegible]	[illegible]	6	[illegible]	5-155[illegible]						
[illegible]	[illegible]	[illegible]	[illegible]	1	[illegible]	5-155[illegible]	[illegible]	[illegible]	[illegible]			

First Sample: EBZB9

Shipment for SAS Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
	[illegible] of [illegible]		Last Sample: EBZC1	[illegible]

CHAIN OF CUSTODY RECORD

SDO: EBZ A4

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[illegible]	[illegible]		THM	6/27/97	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6-27-97 830	Sara E. [illegible]			
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks Is custody seal intact? Y / N / none	
		Sara E. [illegible]	6/27/97 830		

A21-012-7 REV. 3/94

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EPA Form 9110-3

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**Data User means the organization which contracted the laboratory services

52104

EPA United States Enviromental Protection Agency
Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.	Case No.

1. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil 7. Waste 8. Other (Specify in Column A)	2. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NAHSO4 4. H2SO4 5. NAOH 6. Ice Only 7. Other (Specify in Column D) N. Not Preserved	2. Region No.: [illegible] Sampling Co.: [illegible] Sampler (Name): [illegible] Sampler Signature: [illegible]	4. Date Shipped: [illegible] Carrier: [illegible] Express Airbill Number: [illegible]	6. Date Received–Received by: 6/27/97 830 [signature] Laboratory Contract Number: 68-D6-0061 Unit Price: 459.50
		3. Purpose* Lead: [X] SF [ ] PRP [ ] ST [ ] FED; Early Action: [ ] CLEM [ ] PA [ ] REM; [ ] SI [ ] ESI [ ] RI [ ] OIL [ ] UST; Long-Term Action: [ ] FS [X] RD [X] RA [ ] O&M [ ] NPLD	5. Ship To: [illegible] Environmental, Inc. [illegible] Research Park Rd. Ann Arbor, MI 48108 ATTN: Tom Marshall	7. Transfer to: Date Received Received by Contract Number Price

Sample Numbers (From Labels)	A Matrix (from Box 6) Other	B Conc.: Low Med High	C Sample Type Comp./Grab	D Preservative (from Box 7) Other	E Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases: Solids	Water-Miscible Liq	Water-Immis Liq
[illegible]		L	G	1	VOAs	[illegible]-155833.4 AC	[illegible]	[illegible]	[illegible]			
[illegible]		L	G	6	ABN	[illegible]-155831						
[illegible]		L	G	6	Pest/PCBs	[illegible]-155832						
[illegible]		L	G	1	VOAs	[illegible]-155[illegible]1.40 AC	[illegible]	[illegible]	[illegible]			
[illegible]		L	G	6	ABN	[illegible]-155837						
[illegible]		L	G	6	Pest/PCBs	[illegible]-155836						
[illegible]		L	G	1	VOAs	[illegible]-155[illegible] AC	[illegible]	[illegible]	[illegible]			
						First Sample: EBZC2						
						Last Sample: EBZC4						

Shipment for SAS Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
	1 of 1		SDG: EBZA4	[illegible]

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
[illegible]	[illegible]		[signature]	6/27/97	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	6-27-97 830	[signature]			
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks Is custody seal intact? Y / N / none	
		[signature]	6-27-97 830		

DISTRIBUTION: White – Region Copy; Gold – Lab Copy for Return to Region; Yellow – Data User**; Pink – Lab Copy for Return to Data User**

EPA Form 9110-3

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

**Data Us[illegible] the organization whi[illegible] tracted the laboratory

A21-012-7 REV. 3/94

2LCA

LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

	EPA SAMPLE NO.	BFB %REC#	OTHER	TOT OUT
01	VBLK21	96		0
02	EBZA4	103		0
03	EBZA6	109		0
04	EBZB9	112		0
05	EBZC0	105		0
06	EBZC1	106		0
07	EBZC2	106		0
08	EBZC3	109		0
09	VLCS21	96		0

			QC LIMITS % REC
BFB	=	Bromofluorobenzene	(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions implied or detailed above. Release of the information contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Thomas H Marshall

7/9/97

Thomas H. Marshall
Project Manager
THM
75100

DATE

2LCA

LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

	EPA SAMPLE NO.	BFB %REC#	OTHER	TOT OUT
01	VBLK23	99		0
02	EBZC4	95		0

			QC LIMITS % REC
BFB	=	Bromofluorobenzene	(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2LCA

LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

	EPA SAMPLE NO.	BFB %REC#	OTHER	TOT OUT
01	VBLK24	100		0
02	EBZC2DL	97		0
03	EBZC3DL	109		0
04	EBZA5	104		0
05	VHBLK23	99		0

			QC LIMITS % REC
BFB	=	Bromofluorobenzene	(80-120)

Column to be used to flag recovery values

* Values outside of contract required QC limits

SDG NARRATIVE
Client Name: US EPA
Project Number: 75100
CASE Number: 25525
Sample Delivery Group: EBZA4
Contract Number: 68-D6-0061
Batch Number(s): 100004505
Narrative Date: July 10, 1997
Samples: EBZA4, EBZA5, EBZA6, EBZB9, EBZC0, EBZC1, EBZC2, EBZC3, EBZC4

A total of nine samples were received by REI on June 27, 1997, and were scheduled for Organics Analysis. Please refer to the following table for vital information that pertains to this case.

Table 1.0

SDG #: EBZA4

	SAMPLE ANALYZED			
	Actual Samples	QC Samples	Re-Run Samples	Total Billable Analyses
Volatile Analyses	9	1	2	12
Semivolatile Analyses	7	1	3	11
Pesticide/PCB Analyses	7	1	2	10

Total Analyses: 10 Full + 2 VOA + 1 BNA

This Deliverables Package is assembled in accordance with instructions in Section B, OLC02.1 revision of the Contract Laboratory Program - Statement of Work. A copy of this deliverable has been distributed to SMO and to Region V.

The following is a detailed description of quality control, shipment, and/or analytical problems that were encountered in the processing of these samples.

Sample Login

ENCOTEC received nine samples from Federal Express on June 25, 1997. Standard Chain of Custody procedures were followed. The samples were stored at 4°C and/or chemically preserved as required by EPA protocol. The samples were scheduled for Full Organic Analysis. The sample identifications originally listed on the chain of custodies were incorrect. SMO was notified and provided a facsimile with the correct sample identifications on June 27, 1997.

Sample Analysis - Volatile

Sample analysis was performed without incident and within holding times. Chain of custody was maintained, and samples were analyzed according to EPA SOW OLC02.1. Quality control results are summarized as follows:

- Analyses of surrogates were performed on all samples; please see FORM II LCV for results.

- The method blanks contained the following target analytes: Methylene Chloride, Acetone, and 1,2,4-Trichlorobenzene near or below the CRQL. No Tentatively Identified Compounds (TIC) were detected. Please see method blank Forms I LCV-TIC for results.

- A Laboratory control sample was performed with this SDG. Please see Form III LCV for results.

- All EICP areas and retention times were within QA/QC. Please see FORM VIII LCV for results.

Summary

The samples revealed several positively detected Target Compounds. Several Tentatively Identified Compounds were detected in the samples. Samples EBZC2 and EBZC3 required reanalysis at secondary dilutions due to concentrations of detected analytes exceeding the linear range established by the calibration standards. Please see FORM's I LCV for results.

Sample Extraction

The samples were continuous liquid-liquid extracted for Semivolatile analysis on June 30, 1997 through July 01, 1997. The samples were separatory funnel extracted for Pesticide/PCB analysis on June 30, 1997 and July 03, 1997. All extracts were processed

according to CLP protocol with two incidents. Samples EBZC2 and EBZC3 were reextracted for pesticides/PCB's due to surrogate recovery outliers with Tetrachloro-m-xylene in the initial analyses. Final extracts were given to the GC/MS and GC groups July 01, 1997 through July 07, 1997.

Sample Analysis - Semivolatile

Sample analysis was performed with three incidents and within holding times. Sample Chain of custody was maintained, and samples were analyzed according to EPA SOW OLC02.1. Quality control results are summarized as follows:

- Analyses of surrogates were performed on all samples. Please see FORM II LCSV for results.

- The method blanks did not contain any target analytes. No Tentatively Identified Compounds (TICs) were detected. Please see method blank FORM's I LCSV-1, LCSV-2 and LCSV-TIC for results.

- A Laboratory Control Sample (LCS) was analyzed with this SDG. Please see Form III LCSV for results.

- EICP areas and retention times were within QA/QC windows. Please see FORM's VIII LCSV-1 and LCSV-2 for results.

Summary

The samples revealed several positively detected Target compounds. Several TIC's were detected in the samples. Samples EBZC2 and EBZC0 required reanalysis at secondary dilutions due to concentrations of detected analytes exceeding the linear range established by the calibration standards. Sample EBZA4 required reanalysis to verify matrix interferences that were suspected to have caused an EICP outlier with d12-Chrysene internal standard in the original sample analysis. Reanalysis of this sample revealed a similar EICP outlier supporting the previous suspicions of matrix interferences. Please see FORM's I LCSV-1, LCSV-2, and LCSV-TIC for results.

Sample Analysis - Pesticide/PCB

Sample analysis was performed with two incidents and within holding times. Chain of custody was maintained, and samples were analyzed according to EPA SOW OLC02.1. Quality control results are summarized as follows:

- Analyses of surrogates were performed on all samples; please see FORM II LCP for results.

- The method blanks did not contain any target analytes at or above the CRQL.

- A Laboratory Control Sample was analyzed with this SDG. Please see FORM III LCP for results.

Summary

Target analytes were found in several samples at concentrations near the CRQL. Sample EBZC2 required reanalysis at a secondary dilution due to concentrations of detected analytes exceeding the linear range established by the calibration standards. Sample EBZC3 required a reextraction due to surrogate outlier with Tetrachloro-m-xylene during the original analysis. The subsequent reanalysis also exhibited the same surrogate outlier. Matrix interferences are suspected to be the cause of this QA/QC outlier. Please see all FORM I LCP for results.

Any technical questions regarding the data present in this deliverable should be addressed to the individual whose name appears at the end of this case narrative. Any manual integrations/compound identifications were done so on account the automatic software either failing to properly identify/quantitate the analyte of interest. The location of the Ph values for the volatile fraction are contained within the analytical run logs located within the Miscellaneous Data Section of the Complete Sample File (CSF).

7.FIELD BLANK AND FIELD DUPLICATE

Samples EBZC1 and EBZC4 were identified as the trip blanks. None of the samples in this dataset were identified as the field duplicates. EBZC1 contains 4 VOA TCLs and EBZC4 is clean.

8.INTERNAL STANDARDS

The internal standard retention times and area counts for the VOA fraction were within the QC limits; therefore, the results are acceptable.

For the SVOA fraction, the recovery of d_{12}-perylene (IS6) for samples EBZA4, EBZA4RE and EBZC2 was below the QC limit. The positive results for the target compounds which are associated with the above IS for the above samples are flagged as estimated (J) and non-detected (UJ). Please refer to Table 4 for the list of associated compounds for the above IS.

9.COMPOUND IDENTIFICATION

The target compounds and TICs for the VOA, SVOA and Pest/PCB fractions were properly identified.

10.COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The VOA, SVOA and Pest/PCB Target Compounds (TCLs) and Tentative Identified Compounds (TICs) were properly quantitated; therefore, the data are acceptable. The CRQLs were adjusted to reflect all sample dilutions.

11.SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

The baseline for the Pest/PCB analysis indicated acceptable performance.

12.ADDITIONAL INFORMATION

The results of chloroethane and benzene for VOA fraction and the result of bis(2-chloroethyl)ether for SVOA fraction of sample EBZC2

were quantitated outside the calibration range. The result of chloroethane for VOA fraction of sample EBZC3 was quantitated outside the calibration range. The result of bis(2-ethylhexyl) phthalate for SVOA fraction of sample EBZC0 was quantitated outside the calibration range. For any analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analysis should be considered the sample's analyte concentration.

The SVOA results for EBZA4 should be used since the QC for the reanalysis (EBZA4RE) did not improve.

For the Pest/PCB fraction, the results for sample EBZC2DL should be used since the surrogate recoveries did not affect the positive results. The results for EBZC3 should be used since the QC for the reanalysis did not improve.

Reviewed by: Steffanie N. Tobin Lockheed/ESAT
Date: July 22nd, 1997

CALIBRATION OUTLIERS
LOW CONCENTRATION WATER VOLATILE TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 25525
COLUMN: DB-624
HEATED PURGE (Y/N): _____

LABORATORY: REI
SITENAME: American Chemical Services

Instrument# 5971-010		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 7-1-97 22:07		7-1-97	22:07		7-2-97	11:17		7-3-97	9:17							
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01	0.222	30.1	J												
Bromomethane	0.10	0.084	33.8	J	0.053	36.9	J									
Vinyl chloride	0.10															
Chloroethane	0.01															
Methylene chloride	0.01															
Acetone	0.01	0.029	37.6	J												
Carbon disulfide	0.01															
1,1-Dichloroethene	0.10															
1,1-Dichloroethane	0.20															
cis-1,2-Dichloroethene	0.10															
trans-1,2-Dichloroethene	0.10															
Chloroform	0.20															
1,2-Dichloroethane	0.10															
2-Butanone	0.01	0.069	34.3	J												
Bromochloromethane	0.10															
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10															
Bromodichloromethane	0.20															
1,2-Dichloropropane	0.01															
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0.30															
Dibromochloromethane	0.10															
1,1,2-Trichloroethane	0.10															
Benzene	0.50															
trans-1,3-Dichloropropene	0.10															
Bromoform	0.10															
4-Methyl-2-pentanone	0.01															
2-Hexanone	0.01															
Tetrachloroethene	0.20															
1,1,2,2-Tetrachloroethane	0.50															
1,2-Dibromoethane	0.10															
Toluene	0.40															
Chlorobenzene	0.50															
Ethylbenzene	0.10															
Styrene	0.30															
Xylene (total)	0.30															
1,2-Dibromo-3-chloropropane	0.10															
1,3-Dichlorobenzene	0.60															
1,4-Dichlorobenzene	0.50															
1,2-Dichlorobenzene	0.40															
Bromofluorobenzene	0.40															

Samples affected:			
	EBZAG	VPBIK23	VBIK24
	6	EBZC4	EBZC2DL
	EBZB9		3DL
	EBZCD-3		EBZA5
	VLCS21		VHBIK23
	VBIK21		

Reviewer's Init/Date: ST 7-18-97

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
# = Minimum Relative Response Factor

CALIBRATION OUTLIER
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS
(Page 2 of 2)

CASE\SAS#: 25525
COLUMN:

LABORATORY: RET
SITE NAME: American Chemical Services

Instrument# 5971-C24		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 7-1-97 2304		7-1-97 2304			7-2-97 1351											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Diethylphthalate	0.01															
4-Chlorophenyl-phenylether	0.40															
Fluorene	0.90															
4-Nitroaniline	0.01															
4,6-Dinitro-2-methylphenol	0.01															
N-nitrosodiphenylamine	0.01															
4-Bromophenyl-phenylether	0.10															
Hexachlorobenzene	0.10															
Pentachlorophenol	0.05															
Phenanthrene	0.70															
Anthracene	0.70															
Di-n-butylphthalate	0.01															
Fluoranthene	0.60															
Pyrene	0.60															
Butylbenzylphthalate	0.01															
3,3'-Dichlorobenzidine	0.01	0.277	34.1	J												
Benzo(a)anthracene	0.80															
Chrysene	0.70															
bis(2-Ethylhexyl)phthalate	0.01															
Di-n-octyl phthalate	0.01															
Benzo(b)fluoranthene	0.70															
Benzo(k)fluoranthene	0.70															
Benzo(a)pyrene	0.70															
Indeno(1,2,3-cd)pyrene	0.50															
Dibenz(a,h)anthrancene	0.40															
Benzo(g,h,i)perylene	0.50															
Nitrobenzene-d5	0.01															
2-Fluorobiphenyl	0.70															
Terphenyl-d14	0.50															
Phenol-d5	0.80															
2-Fluorophenol	0.60															
2,4,6-Tribromophenol	0.01															

Reviewer's Init/Date: ST 7-18-97

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
# = Minimum Relative Response Factor

CALIBRATION OUTLIER
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS
(Page 1 of 2)

CASE\SAS#: 25525 LABORATORY: RET
COLUMN: SITE NAME: American Chemical Services

Instrument# 5971-C24		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 7-1-97 23:04		7-1-97 23:04			7-2-97 13:57											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(2-chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
2-Methylphenol	0.70															
2,2'-Oxybis(1-chl-propane)	0.01															
4-Methylphenol	0.60															
N-nitroso-di-n-propylamine	0.50															
Hexachloroethane	0.30															
Nitrobenzene	0.20															
Isophorone	0.40															
2-Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxyl)methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01															
Hexachlorobutadiene	0.01															
4-Chloro-3-methylphenol	0.20															
2-Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01															
2,4,6-Trichlorophenol	0.20															
2,4,5-Trichlorophenol	0.20															
2-Chloronaphthalene	0.80															
2-Nitroaniline	0.01															
Dimethyl phthlate	0.01															
Acenaphthylene	1.30															
2,6-Dinitrotoluene	0.20															
3-Nitroaniline	0.01															
Acenaphthene	0.30															
2,4-Dinitrophenol	0.01															
4-Nitrophenol	0.01															
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples:		
	SBLKF6	SBLKF7
	SLCSD5	EBZCC
	EBZA4-6	EBZA4RE
	EBZB9	EBZC2DL
	EBZC9-3	EBZCCDL

Reviewer's Init/Date: 7-6-97

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
# = Minimum Relative Response Factor

CALIBRATION OUTLIER
PESTICIDE/PCB TCL COMPOUNDS
(Page 1 of 1)

Pg ___ of ___

CASE\SAS#: 25525
COLUMN: DB-1701

LABORATORY: RET
SITE NAME: American Chemical Service

Instrument# 24CCD		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 6/24/97 9:01		6/24/97 9:01			7/1/97 16:45			7/2/97 3:01			7/7/97 12:57			7/7/97 16:05		
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

	PB1KF5	PB1KF8	
	PLCSDL	EB2C3RE	
	EB2A4-6	EB2C9RE	
	EB2B9		
	EB2CC		
	EB2C3		
	EB2C2		
	EB2C2DL		

Reviewer's Init/Date: ST 7-15-97

* These flags should be applied to the analytes on the sample data sheets.
# Minimum Relative Response Factor

PESTICIDE/PCB TCL COMPOUNDS
(Page 1 of 1)

CASE\SAS#: 27725 LABORATORY: PET
COLUMN: DB-17 SITE NAME: American Chemical Service

Instrument# 5400C		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time: 6/24/97 9:01		6/24/97 9:01			7/1/97 16:45			7/2/97 3:01			7/7/97 12:57			7/7/97 16:05		
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

	PBIKF5	PBIKF8
	PICSD9	EB2C3RE
	EB2A9-6	EB2C2RE
	EB2B9	
	EB2C0	
	EB2C3	
	EB2C2	
	EB2C2DL	

Reviewer's Init/Date: ST 7-18-97

* These flags should be applied to the analytes on the sample data sheets.
# Minimum Relative Response Factor

ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utinized in this document, the following code letters and associated definitions are provide:

VALUE-if the results is a value greater than or equal to the Contract Required Quantitation Limit (CRQL).

U Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.

J Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound but the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.

R Indicates the data are unusable. (Note: The analyte may or may not be present.)

N Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.

P Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.

C Indicates pesticide results that have been confirmed by GC/MS.

B Indicates the analyte is detected in the associated blank as well as the sample.

E Indicates compounds whose concentrations exceed the calibration range of the instrument.

D Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.

A Indicates tentatively identified compounds that are suspected to be aldol condensation products.

G Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.

L Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.

T Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X, Y, Z are reserved for laboratory defined flags.

TABLE 4

VOLATILE INTERNAL STANDARDS WITH CORRESPONING TCL ANALYTES ASSIGNED FOR QUANTITATION

Bromochloromethane	1,4 Difluorobenzene	Chlorobenzene-d_5
Chloromethane	Bromoform	2-Hexanone
Bromomethane	1,1,1-Trichloroethane	4-Methyl-2-pentanone
Vinyl chloride	Carbon tetrachloride	Tetrachloroethene
Chloroethane	Bromodichloromethane	1,1,2,2-Tetrachloroethane
Methylene chloride	1,2-Dichloropropane	Toluene
Acetone	trans-1,3-Dichloropropene	Chlorobenzene
Carbon disulfide	Trichloroethene	Ethylbenzene
1,1-Dichloroethene	Dibromochloromethane	Styrene
1,1-Dichloroethane	1,1,2-Trichloroethane	Xylene(total)
1,2-Dichloroethene(total)	Benzene	Bromofluorobenzene(surr,smc)
Chloroform	cis-1,3-Dichloropropene	Toluene-d_8(surr,smc)
1,2-Dichloroethane		
1,2-Dichloroethane-d_4(surr,smc)		
2-Butanone		

SEMIVOLATILE INTERNAL STANDARDS WITH CORRESPONING TCL ANALYTES ASSIGNED FOR QUANTITATION

1,4-Dichlorobenzene-d_4	Naphthalene-d_8	Acenaphthene-d_{10}	Phenanthrene-d_{10}	Chrysene-d_{12}	Perylene-d_{12}
Phenol	Nitrobenzene	Hexachlorocyclopentadiene	4,6-Dinitro-2-methylphenol	Pyrene	Di-n-octyl phthalate
bis(2-chloroethyl)ether	Isophorone	2,4,6-Trichlorophenol	N-nitroso-di-phenylamine	butylbenzyl phthalate	Benzo(b)fluoranthene
2-Chlorophenol	2-Nitrophenol	2,4,5-Trichlorophenol	Carbazole	3,3'-Dichlorobenzidine	Benzo(k)fluoranthene
1,3-Dichlorobenzene	2,4-Dimethylphenol	2-Chloronaphthalene	4-Bromophenyl phenyl ether	Benzo(a)anthracene	Benzo(a)pyrene
1,4-Dichlorobenzene	Naphthalene	2-Nitroaniline	Hexachlorobenzene	bis(2-Ethylhexyl)phthalate	Indeno(1,2,3-cd)pyrene
2,2'-Oxybis-(1-chloropropane)	bis(2-Chloroethoxy)methane	Dimethylphthalate	Pentachlorophenol	Chrysene	Dibenzo(a,h)anthracene
1,2-Dichlorobenzene	2,4-Dichlorophenol	Acenaphthylene	Phenanthrene	Terphenyl-d_{14}(surr)	Benzo(g,h,i)perylene
2-Methylphenol	1,2,4-Trichlorobenzene	3-Nitroaniline	Anthracene		
bis(2-Chloroisopropyl)ether	4-Chloroaniline	Acenaphthene	Di-n-butyl phthalate		
4-Methylphenol	Hexachlorobutadiene	2,4-Dinitrophenol	Fluoranthene		
N-nitroso-di-n-propylamine	4-Chloro-3-methylphenol	4-Nitrophenol			
Hexachloroethane	2-Methylnaphthalene	Dibenzofuran			
2-Fluorophenol(surr)	Nitrobenzene-d_5(surr)	2,4-Dinitrotoluene			
Phenol-d_6(surr)		2,6-Dinitrotoluene			
2-Chlorobenzene-d_4(surr)		Diethyl phthalate			
1,2-Dichlorobenzene-d_4(surr)		4-Chlorophenyl phenyl ether			
		Fluorene			
		4-Nitroaniline			
		2-Fluorobiphenyl(surr)			
		2,4,6-Tribromophenol(surr)			

(surr) - surrogate
(smc) - system monitoring compound

3LCA

LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

VLCS21

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VLCS21 LCS Lot No.: LA62539

Lab File ID: LCS0701J.D Date Analyzed: 7/2/97

Purge volume: 10.0 (ml) Dilution Factor: 1

LCS Aliquot: 10.0 (ul)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	% REC #	QC LIMITS
Vinyl Chloride	50	50.80	102	60 - 140
1,2-Dichloroethane	50	43.60	87	60 - 140
Carbon Tetrachloride	50	40.60	81	60 - 140
1,2-Dichloropropane	50	44.70	89	60 - 140
cis 1,3-Dichloropropene	50	44.00	88	60 - 140
Trichloroethene	50	44.40	89	60 - 140
1,1,2-Trichloroethane	50	44.10	88	60 - 140
Benzene	50	40.20	80	60 - 140
Bromoform	50	40.40	81	60 - 140
Tetrachloroethene	50	40.40	81	60 - 140
1,2-Dibromoethane	50	43.60	87	60 - 140
1,4-Dichlorobenzene	50	42.90	86	60 - 140

Column to be used to flag LCS recovery with an asterisk

* Values outside of QC limits

LCS Recovery: 0 outside of limits out of 12 total

COMMENTS:

4LCA

LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK21

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VBLK21 Date Analyzed: 07/02/97

Lab File ID: VWBG01J2.D Time Analyzed: 01:44

Instrument ID: 5971-010

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EBZA4	EBZA4	26646V.D	02:19
02	EBZA6	EBZA6	26648V.D	03:31
03	EBZB9	EBZB9	26649V.D	04:06
04	EBZC0	EBZC0	26650V.D	04:42
05	EBZC2	EBZC2	26652V.D	05:53
06	EBZC3	EBZC3	26653V.D	06:28
07	VLCS21	VLCS21	LCS0701J.D	08:14

COMMENTS:

4LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

VBLK23

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VBLK23 Date Analyzed: 07/02/97

Lab File ID: VWBG02J1.D Time Analyzed: 13:39

Instrument ID: 5971-010

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EBZC4	EBZC4	26654VR.D	22:00

COMMENTS:

4LCA

LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK24

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VBLK24 Date Analyzed: 07/03/97

Lab File ID: VWBG03J1.D Time Analyzed: 10:28

Instrument ID: 5971-010

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EBZC2DL	EBZC2DL	26652VR3.D	15:48
02	EBZC3DL	EBZC3DL	26653VR1.D	16:23
03	EBZA5	EBZA5	26647VR.D	17:19
04	VHBLK23	VHBLK23	VBLK23.D	17:54

COMMENTS:

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK21

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VBLK21 Date Received:

Lab File ID: VWBG01J2.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	0.3	J
67-64-1	Acetone	2	J
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	0.3	J

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLK21

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VBLK21 Date Received:

Lab File ID: VWBG01J2.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK23

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VBLK23 Date Received:

Lab File ID: VWBG02J1.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	0.7	J
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK23

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VBLK23 Date Received:

Lab File ID: VWBG02J1.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK24

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VBLK24 Date Received:

Lab File ID: VWBG03J1.D Date Analyzed: 07/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK24

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VBLK24 Date Received:

Lab File ID: VWBG03J1.D Date Analyzed: 07/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

VHBLK23

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VHBLK23 Date Received: 06/27/97

Lab File ID: VBLK23.D Date Analyzed: 07/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	0.3	J
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK23

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VHBLK23 Date Received: 06/27/97

Lab File ID: VBLK23.D Date Analyzed: 07/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

VLCS21

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VLCS21 Date Received:

Lab File ID: LCS0701J.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	5	
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	4	
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	4	
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	4	
10061-01-5	cis 1,3-Dichloropropene	4	
79-01-6	Trichloroethene	4	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	4	
71-43-2	Benzene	4	
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	4	
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	4	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	4	
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	4	
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VLCS21

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: VLCS21 Date Received:

Lab File ID: LCS0701J.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA4

GW11
MW51

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA4 Date Received: 06/27/97

Lab File ID: 26646V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	4	J
591-78-6	2-Hexanone	2	J
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EBZA4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA4 Date Received: 06/27/97

Lab File ID: 26646V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 2

	CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1.		unknown	4.25	182	J
2.	000109-99-9	Furan, tetrahydro-	8.30	5	JN

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA5

GW 12

MIS

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA5 Date Received: 06/27/97

Lab File ID: 26647VR.D Date Analyzed: 07/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	~~0.8~~ 1	J U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	~~1.0~~	J U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	0.3	J
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EBZA5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA5 Date Received: 06/27/97

Lab File ID: 26647VR.D Date Analyzed: 07/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 1

	CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1.	000060-29-7	Ether	4.40	3	JN

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA6

GW13
M3S

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA6 Date Received: 06/27/97

Lab File ID: 26648V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5 ~~4~~	JBU
75-15-0	Carbon Disulfide	1 ~~0.8~~	J U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1 ~~0.2~~	J U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

ST 7/15/97
CWB 07/11/97

CWB 07/11/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EBZA6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA6 Date Received: 06/27/97

Lab File ID: 26648V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB9

GW14

M4D

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZB9 Date Received: 06/27/97

Lab File ID: 26649V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EBZB9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZB9 Date Received: 06/27/97

Lab File ID: 26649V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZC0

GW15

M25

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC0 Date Received: 06/27/97

Lab File ID: 26650V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	5	JB U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZC0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC0 Date Received: 06/27/97

Lab File ID: 26650V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZC1

TB05
trip blank

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC1 Date Received: 06/27/97

Lab File ID: 26651V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	15	
75-09-2	Methylene Chloride	2	U
67-64-1	Acetone	2	J
75-15-0	Carbon Disulfide	0.2	J
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene		U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylb ne	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZC1

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC1 Date Received: 06/27/97

Lab File ID: 26651V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZC2

GW16
M45

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC2 Date Received: 06/27/97

Lab File ID: 26652V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	4	
75-00-3	Chloroethane	647	E
75-09-2	Methylene Chloride	8	B
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	0.5	J
156-60-5	trans 1,2-Dichloroethene	21	
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	96	E
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	J
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

7/18/97

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EBZC2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC2 Date Received: 06/27/97

Lab File ID: 26652V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 10

	CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1.		unknown	2.73	5	J
2.	000060-29-7	Ether	4.43	13	JN
3.	000109-87-5	Methane, dimethoxy-	4.90	11	JN
4.		unknown	5.83	7	J
5.	000108-20-3	Diisopropyl ether	6.99	14	JN
6.		unknown	7.83	2	J
7.		unknown	8.06	2	J
8.	000109-99-9	Furan, tetrahydro-	8.40	79	JN
9.	000111-43-3	Di-n-propyl ether	9.94	30	JN
10.	000123-91-1	1,4-Dioxane	11.47	8	JN

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZC2DL

GW16
M45
diluted

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC2DL Date Received: 06/27/97

Lab File ID: 26652VR3.D Date Analyzed: 07/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 125.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	125	U
74-83-9	Bromomethane	125	U
75-01-4	Vinyl Chloride	125	U
75-00-3	Chloroethane	2400	D
75-09-2	Methylene Chloride	53	JD
67-64-1	Acetone	625	U
75-15-0	Carbon Disulfide	125	U
75-35-4	1,1-Dichloroethene	125	U
75-34-3	1,1-Dichloroethane	125	U
156-59-2	cis 1,2-Dichloroethene	125	U
156-60-5	trans 1,2-Dichloroethene	125	U
67-66-3	Chloroform	125	U
107-06-2	1,2-Dichloroethane	125	U
78-93-3	2-Butanone	625	U
74-97-5	Bromochloromethane	125	U
71-55-6	1,1,1-Trichloroethane	125	U
56-23-5	Carbon Tetrachloride	125	U
75-27-4	Bromodichloromethane	125	U
78-87-5	1,2-Dichloropropane	125	U
10061-01-5	cis 1,3-Dichloropropene	125	U
79-01-6	Trichloroethene	125	U
124-48-1	Dibromochloromethane	125	U
79-00-5	1,1,2-Trichloroethane	125	U
71-43-2	Benzene	211	D
10061-02-6	trans 1,3-Dichloropropene	125	U
75-25-2	Bromoform	125	U
108-10-1	4-Methyl-2-pentanone	625	U
591-78-6	2-Hexanone	625	U
127-18-4	Tetrachloroethene	125	U
79-34-5	1,1,2,2-Tetrachloroethane	125	U
106-93-4	1,2-Dibromoethane	125	U
108-88-3	Toluene	125	U
108-90-7	Chlorobenzene	125	U
100-41-4	Ethylbenzene	125	U
100-42-5	Styrene	125	U
1330-20-7	Xylene (total)	125	U
541-73-1	1,3-Dichlorobenzene	125	U
106-46-7	1,4-Dichlorobenzene	125	U
95-50-1	1,2-Dichlorobenzene	125	U
96-12-8	1,2-Dibromo-3-chloropropane	125	U
120-82-1	1,2,4-Trichlorobenzene	125	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EBZC2DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC2DL Date Received: 06/27/97

Lab File ID: 26652VR3.D Date Analyzed: 07/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 125.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZC3

GW17
MW10C

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC3 Date Received: 06/27/97

Lab File ID: 26653V.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	10	
75-00-3	Chloroethane	437	E
75-09-2	Methylene Chloride	4	B ✓
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	0.3	J
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	J
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzen	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EBZC3DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC3DL Date Received: 06/27/97

Lab File ID: 26653VR1.D Date Analyzed: 07/03/97

Purge Volume: 10.0 (ml) Dilution Factor: 40.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 1

	CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q
1.	000060-29-7	Ether	4.45	2200	JND

1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EBZC4

TB06 trip blank

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC4 Date Received: 06/27/97

Lab File ID: 26654VR.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl Chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene Chloride	(2) 0.5	JB
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis 1,2-Dichloroethene	1	U
156-60-5	trans 1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis 1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans 1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
EBZC4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC4 Date Received: 06/27/97

Lab File ID: 26654VR.D Date Analyzed: 07/02/97

Purge Volume: 10.0 (ml) Dilution Factor: 1.0

GC Column: DB624 ID: 0.53 (mm) Length: 75 (m)

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST.CONC. (ug/L)	Q

2LCB

LOW CONC. WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

	EPA SAMPLE NO.	S1 NBZ #	S2 FBP #	S3 TPH #	S4 PHL #	S5 2-FP #	S6 TBP #	TOT OUT
01	SBLKF6	75	75	75	77	70	52	0
02	SLCSD5	75	75	77	80	71	53	0
03	EBZA4	72	75	78	81	54	61	0
04	EBZA5	78	78	73	78	73	61	0
05	EBZA6	75	76	78	80	73	63	0
06	EBZB9	78	77	81	81	76	62	0
07	EBZC2	78	70	86	79	83	66	0
08	EBZC3	66	71	82	82	74	62	0
09	EBZA4RE	71	74	78	81	52	60	0
10	EBZC2DL	34	36	35	21	37	29	0

			QC LIMITS
NBZ	=	d5-Nitrobenzene	(23-120)
FBP	=	2-Fluorobiphenyl	(30-115)
TPH	=	d14-Terphenyl	(18-140)
PHL	=	d5-Phenol	(15-115)
2-FP	=	2-Fluorophenol	(15-121)
TBP	=	2,4,6-Tribromophenol	(15-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

2LCB

LOW CONC. WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

	EPA SAMPLE NO.	S1 NBZ #	S2 FBP #	S3 TPH #	S4 PHL #	S5 2-FP #	S6 TBP #	TOT OUT
01	SBLKF7	70	72	80	70	62	47	0
02	EBZC0	69	72	76	75	67	57	0
03	EBZC0DL	34	36	38	37	33	28	0

			QC LIMITS
NBZ	=	d5-Nitrobenzene	(23-120)
FBP	=	2-Fluorobiphenyl	(30-115)
TPH	=	d14-Terphenyl	(18-140)
PHL	=	d5-Phenol	(15-115)
2-FP	=	2-Fluorophenol	(15-121)
TBP	=	2,4,6-Tribromophenol	(15-130)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

3LCB

LOW CONC. WATER SEMIVOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

SLCSD5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: SLCSD5 LCS Lot No.: MB102C

Lab File ID: SLCSD5.D Date Extracted 06/30/97

LCS Aliquot: 10.0 (ul) Date Analyzed: 7/2/97

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1

Injection Volume: 1 (ul)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	% REC #	QC LIMITS
Phenol	40	28.40	71	40 - 120
bis(2-Chloroethyl) ether	20	15.10	76	50 - 110
2-Chlorophenol	40	29.40	74	50 - 110
n-Nitroso-di-n-propylamine	20	15.30	77	30 - 110
Hexachloroethane	20	15.00	75	20 - 110
Isophorone	20	13.10	66	50 - 110
Naphthalene	20	15.10	76	30 - 110
4-Chloroaniline	40	21.80	55	10 - 120
2,4,6-Trichlorophenol	40	27.70	69	40 - 120
2,4-Dinitrotoluene	20	13.00	65	30 - 120
Diethylphthalate	20	16.00	80	50 - 120
n-Nitrosodiphenylamine	20	14.90	75	30 - 110
Hexachlorobenzene	20	16.10	81	40 - 120
Benzo(a) pyrene	20	15.40	77	50 - 120

Column to be used to flag LCS recovery with an asterisk

* Values outside of QC limits

LCS Recovery: 0 outside limits out of 14 total

COMMENTS:

4LCB

LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKF6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: SBLKF6 Date Extracted: 6/30/97

Lab File ID: SBLKF6.D Date Analyzed: 07/02/97

Instrument ID: 5971-024 Time Analyzed: 02:24

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCSD5	SLCSD5	SLCSD5.D	07/02/97
02	EBZA4	EBZA4	26646B.D	07/02/97
03	EBZA5	EBZA5	26647B.D	07/02/97
04	EBZA6	EBZA6	26648B.D	07/02/97
05	EBZB9	EBZB9	26649B.D	07/02/97
06	EBZC2	EBZC2	26652B.D	07/02/97
07	EBZC3	EBZC3	26653B.D	07/02/97
08	EBZA4RE	EBZA4RE	26646BR.D	07/02/97
09	EBZC2DL	EBZC2DL	26652DL.D	07/02/97

COMMENTS:

4LCB

LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKF7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: SBLKF7 Date Extracted: 7/1/97

Lab File ID: SBLKF7.D Date Analyzed: 07/02/97

Instrument ID: 5971-024 Time Analyzed: 15:31

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EBZC0	EBZC0	26650B.D	07/02/97
02	EBZC0DL	EBZC0DL	26650DL.D	07/02/97

COMMENTS:

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKF6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: SBLKF6 Date Received:

Lab File ID: SBLKF6.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKF6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: SBLKF6 Date Received:

Lab File ID: SBLKF6.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
SBLKF6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: SBLKF6 Date Received:

Lab File ID: SBLKF6.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKF7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: SBLKF7 Date Received:

Lab File ID: SBLKF7.D Date Extracted: 07/01/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLKF7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: SBLKF7 Date Received:

Lab File ID: SBLKF7.D Date Extracted: 07/01/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKF7

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: SBLKF7 Date Received:

Lab File ID: SBLKF7.D Date Extracted: 07/01/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SLCSD5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: SLCSD5 Date Received:

Lab File ID: SLCSD5.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	28	
111-44-4	bis(2-Chloroethyl) ether	15	
95-57-8	2-Chlorophenol	29	
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	15	
67-72-1	Hexachloroethane	15	
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	13	
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	15	
106-47-8	4-Chloroaniline	22	
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	28	
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SLCSD5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: SLCSD5 Date Received:

Lab File ID: SLCSD5.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	13	
84-66-2	Diethylphthalate	16	
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	15	
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	16	
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	15	
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA4 Date Received: 06/27/97

Lab File ID: 26646B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	12	
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

MW51

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA4

Lab File ID: 26646B.D

Sample Volume: 1000 (ML)

Concentrated Extract Volume: 1000 (uL)

Injection Volume: 1.0 (uL)

Date Received: 06/27/97

Date Extracted: 06/30/97

Date Analyzed: 07/02/97

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	1	J
117-84-0	Di-n-octylphthalate	5	U J
205-99-2	Benzo(b) fluoranthene	5	U J
207-08-9	Benzo(k) fluoranthene	5	U J
50-32-8	Benzo(a) pyrene	5	U J
193-39-5	Indeno (1,2,3-cd) pyrene	5	U J
53-70-3	Dibenz (ah) anthracene	5	U J
191-24-2	Benzo (ghi) perylene	5	U J

Cmpd 09/04/97

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZA4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA4

Lab File ID: 26646B.D

Sample Volume: 1000 (ML)

Concentrated Extract Volume: 1000 (uL)

Injection Volume: 1.0 (uL)

Date Received: 06/27/97

Date Extracted: 06/30/97

Date Analyzed: 07/02/97

Dilution Factor: 1.0

Number TICs found: 11

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1.		unknown	7.11	21	J
2.	020324-32-7	2-Propanol, 1-(2-methoxy-1-methylethoxy	8.02	25	JN
3.	020324-32-7	2-Propanol, 1-(2-methoxy-1-methylethoxy	8.11	19	JN
4.		unknown	8.64	31	J
5.	000144-19-4	1,3-Pentanediol, 2,2,4-trimethyl-	11.42	21	JN
6.		unknown	13.57	24	J
7.		unknown	14.20	13	J
8.	055956-25-7	2-Propanol, 1-[1-methyl-2-(2-propenyloxy	14.27	15	JN
9.		unknown	15.46	32	J
10.		unknown	16.29	16	J
11.		unknown	17.64	16	J

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA4RE

MW51

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA4RE Date Received: 06/27/97

Lab File ID: 26646BR.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	12	
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA4RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA4RE Date Received: 06/27/97

Lab File ID: 26646BR.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U J
205-99-2	Benzo(b) fluoranthene	5	U J
207-08-9	Benzo(k) fluoranthene	5	U J
50-32-8	Benzo(a) pyrene	5	U J
193-39-5	Indeno (1,2,3-cd) pyrene	5	U J
53-70-3	Dibenz (ah) anthracene	5	U J
191-24-2	Benzo (ghi) perylene	5	U J

CWB 07/14/97

(1) - Cannot be separated from Diphenylamine

MW51

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET EPA SAMPLE NO.

TENTATIVELY IDENTIFIED COMPOUNDS

EBZA4RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA4RE Date Received: 06/27/97

Lab File ID: 26646BR.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 11

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1.	020324-32-7	2-Propanol, 1-(2-methoxy-1-methylethoxy	8.04	26	JN
2.	010143-32-5	2-Propanol, 1-(2-ethoxypropoxy)-	8.12	20	JN
3.		unknown	8.66	32	J
4.	000077-85-0	1,3-Propanediol, 2-(hydroxymethyl)-2-met	9.69	18	JN
5.		unknown	13.59	22	J
6.	000106-62-7	1-Propanol, 2-(2-hydroxypropoxy)-	14.20	13	JN
7.	055956-25-7	2-Propanol, 1-[1-methyl-2-(2-propenyloxy	14.28	15	JN
8.	000632-46-2	Dimethylbenzoic acid isomer	14.54	12	JN
9.		unknown	15.47	32	J
10.		unknown	16.30	16	J
11.		unknown	17.66	17	J

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA5 Date Received: 06/27/97

Lab File ID: 26647B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	14	
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA5

MIS

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA5 Date Received: 06/27/97

Lab File ID: 26647B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	14	
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZA5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA5

Lab File ID: 26647B.D

Sample Volume: 1000 (ML)

Concentrated Extract Volume: 1000 (uL)

Injection Volume: 1.0 (uL)

Date Received: 06/27/97

Date Extracted: 06/30/97

Date Analyzed: 07/02/97

Dilution Factor: 1.0

Number TICs found: 2

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1.	000111-90-0	Ethanol, 2-(2-ethoxyethoxy)-	8.00	10	JN
2.	010544-50-0	Sulfur, mol. (S8)	25.64	38	JN

1LCB

EPA SAMPLE NO.

M35

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA6 Date Received: 06/27/97

Lab File ID: 26648B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	3	J
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	4	J
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZA6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA6 Date Received: 06/27/97

Lab File ID: 26648B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	4	J
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZA6

M35

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZA6 Date Received: 06/27/97

Lab File ID: 26648B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 1

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1.	000112-36-7	Ethane, 1,1'-oxybis[2-ethoxy-]	9.65	28	JN

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZB9 Date Received: 06/27/97

Lab File ID: 26649B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	28	
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZB9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

M4D

Lab Sample ID: EBZB9 Date Received: 06/27/97

Lab File ID: 26649B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	2	J
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZB9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZB9 Date Received: 06/27/97

Lab File ID: 26649B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 2

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1.	000104-76-7	1-Hexanol, 2-ethyl-	8.59	20	JN
2.	007397-62-8	Butyl glycolate	10.34	44	JN

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZC0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC0 Date Received: 06/27/97

Lab File ID: 26650B.D Date Extracted: 07/01/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

M25

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	8	
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	3	J
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapththylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZC0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC0 Date Received: 06/27/97

Lab File ID: 26650B.D Date Extracted: 07/01/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	110	E
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZC0

M25

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC0 Date Received: 06/27/97

Lab File ID: 26650B.D Date Extracted: 07/01/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZC0DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC0DL Date Received: 06/27/97

Lab File ID: 26650DL.D Date Extracted: 07/01/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 2.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	8	JD
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	3	JD
106-44-5	4-Methylphenol	10	U
621-64-7	n-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-chloroethoxy) methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	40	U
91-58-7	2-Chloronapthalene	10	U
88-74-4	2-Nitroaniline	40	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenapththylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	40	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	40	U
132-64-9	Dibenzofuran	10	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZC0DL

M25

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC0DL Date Received: 06/27/97

Lab File ID: 26650DL.D Date Extracted: 07/01/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 2.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	40	U
534-52-1	4,6-Dinitro-2-methylphenol	40	U
86-30-6	n-Nitrosodiphenylamine(1)	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	40	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a) anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	122	D
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b) fluoranthene	10	U
207-08-9	Benzo(k) fluoranthene	10	U
50-32-8	Benzo(a) pyrene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
53-70-3	Dibenz (ah) anthracene	10	U
191-24-2	Benzo (ghi) perylene	10	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZC0DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC0DL Date Received: 06/27/97

Lab File ID: 26650DL.D Date Extracted: 07/01/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 2.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZC2

M45

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC2 Date Received: 06/27/97

Lab File ID: 26652B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	5	U
111-44-4	bis(2-Chloroethyl) ether	81	E
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZC2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC2 Date Received: 06/27/97

Lab File ID: 26652B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	5	U
117-84-0	Di-n-octylphthalate	5	UJ
205-99-2	Benzo(b) fluoranthene	5	UJ
207-08-9	Benzo(k) fluoranthene	5	UJ
50-32-8	Benzo(a) pyrene	5	UJ
193-39-5	Indeno (1,2,3-cd) pyrene	5	UJ
53-70-3	Dibenz (ah) anthracene	5	UJ
191-24-2	Benzo (ghi) perylene	5	UJ

CWB 09/11/97

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZC2

M45

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC2 Date Received: 06/27/97

Lab File ID: 26652B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 16

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1.		unknown	8.07	25	J
2.	020324-32-7	2-Propanol, 1-(2-methoxy-1-methylethoxy	8.16	41	JN
3.	001561-86-0	2-Chlorocyclohexanol	8.69	25	JN
4.	000873-94-9	Cyclohexanone, 3,3,5-trimethyl-	8.98	64	JN
5.	000116-02-9	Cyclohexanol, 3,3,5-trimethyl-	9.36	72	JN
6.		unknown	9.65	12	J
7.		unknown siloxane	13.44	17	J
8.		unknown	13.80	27	J
9.		unknown	15.36	10	J
10.		unknown	15.70	62	J
11.		unknown	16.43	21	J
12.		unknown	17.37	18	J
13.		unknown	17.53	14	J
14.		unknown	17.75	20	J
15.		unknown	18.38	15	J
16.	000076-73-3	Secobarbital	22.33	16	JN

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZC2DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC2DL Date Received: 06/27/97

Lab File ID: 26652DL.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 2.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	3	JD
111-44-4	bis(2-Chloroethyl) ether	92	D
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	n-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-chloroethoxy) methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	40	U
91-58-7	2-Chloronapthalene	10	U
88-74-4	2-Nitroaniline	40	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenapthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	40	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	40	U
100-02-7	4-Nitrophenol	40	U
132-64-9	Dibenzofuran	10	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZC2DL

M45

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC2DL Date Received: 06/27/97

Lab File ID: 26652DL.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 2.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	40	U
534-52-1	4,6-Dinitro-2-methylphenol	40	U
86-30-6	n-Nitrosodiphenylamine(1)	10	U
101-55-3	4-Bromophenyl phenyl ether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	40	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butyl benzyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a) anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl) phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b) fluoranthene	10	U
207-08-9	Benzo(k) fluoranthene	10	U
50-32-8	Benzo(a) pyrene	10	U
193-39-5	Indeno (1,2,3-cd) pyrene	10	U
53-70-3	Dibenz (ah) anthracene	10	U
191-24-2	Benzo (ghi) perylene	10	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZC2DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC2DL Date Received: 06/27/97

Lab File ID: 26652DL.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 2.0

Injection Volume: 1.0 (uL)

Number TICs found: 11

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1.	020324-32-7	2-Propanol, 1-(2-methoxy-1-methylethoxy	8.11	69	JND
2.	000873-94-9	Cyclohexanone, 3,3,5-trimethyl-	8.95	33	JND
3.	000116-02-9	Cyclohexanol, 3,3,5-trimethyl-	9.32	38	JND
4.		unknown	11.45	32	JD
5.	001696-20-4	Morpholine, 4-acetyl-	12.33	25	JND
6.		unknown	13.27	48	JD
7.		unknown	13.66	34	JD
8.	000085-44-9	Phthalic anhydride	14.27	61	JND
9.	055956-25-7	2-Propanol, 1-[1-methyl-2-(2-propenyloxy	14.35	25	JND
10.		unknown	15.57	62	JD
11.		unknown	17.69	21	JD

1LCB

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZC3

MW10C

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC3 Date Received: 06/27/97

Lab File ID: 26653B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	2	J
111-44-4	bis(2-Chloroethyl) ether	5	U
95-57-8	2-Chlorophenol	5	U
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis-(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	n-Nitroso-di-n-propylamine	5	U
67-72-1	Hexachloroethane	5	U
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	5	U
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-chloroethoxy) methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	5	U
106-47-8	4-Chloroaniline	5	U
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	5	U
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronapthalene	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenapthylene	5	U
606-20-2	2,6-Dinitrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U

1LCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EBZC3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC3 Date Received: 06/27/97

Lab File ID: 26653B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl phenyl ether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	n-Nitrosodiphenylamine(1)	5	U
101-55-3	4-Bromophenyl phenyl ether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butyl benzyl phthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a) anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl) phthalate	1	J
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b) fluoranthene	5	U
207-08-9	Benzo(k) fluoranthene	5	U
50-32-8	Benzo(a) pyrene	5	U
193-39-5	Indeno (1,2,3-cd) pyrene	5	U
53-70-3	Dibenz (ah) anthracene	5	U
191-24-2	Benzo (ghi) perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EBZC3

MW10C

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: EBZC3 Date Received: 06/27/97

Lab File ID: 26653B.D Date Extracted: 06/30/97

Sample Volume: 1000 (ML) Date Analyzed: 07/02/97

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 5

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. ug/L	Q
1.	020324-32-7	2-Propanol, 1-(2-methoxy-1-methylethoxy	8.04	53	JN
2.		unknown	8.12	29	J
3.	013429-07-7	2-Propanol, 1-(2-methoxypropoxy)-	8.35	12	JN
4.		unknown	8.57	12	J
5.		unknown	15.53	16	J

2LCC
LOW CONC. WATER PESTICIDE SURROGATE RECOVERY

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

GC Column(1): DB-1701 ID: 0.32 (mm) GC Column(2): DB-17 ID: 0.32 (mm)

	EPA SAMPLE NO.	TCX(1) %REC #	TCX(2) %REC #	DCB(1) %REC #	DCB(2) %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	EBZA4	70	70	65	60			0
02	EBZA5	75	90	70	70			0
03	EBZA6	115	70	70	70			0
04	EBZB9	115	80	95	90			0
05	EBZC0	110	95	90	95			0
06	EBZC2	380*	125	46	47			1
07	EBZC2DL	475D	185D	95	75			0
08	EBZC2RE	360*	135	85	85			1
09	EBZC3	370*	75	80	80			1
10	EBZC3RE	370*	65	60	55			1
11	PBLKF5	80	85	90	90			0
12	PBLKF8	80	80	95	90			0
13	PLCSD4	80	85	110	105			0
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

QC LIMITS

		%REC
S1 TCX	= Tetrachloro-m-xylene	(30-150)
S2 DCB	= Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values.
* Values outside of QC limits.
D Surrogate diluted out.

3LCC

LOW CONC. WATER PESTICIDE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

PLCSD4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: LCS063097 LCS Lot No.: A006181

LCS Aliquot: 1000 (uL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y

Instrument ID(1): 3400C GC Column(1):DB-1701 ID:0.32 (mm)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.050	0.047	94	50-120
Heptachlor epoxide	0.050	0.045	90	50-150
Dieldrin	0.10	0.10	100	30-130
4,4'-DDE	0.10	0.11	110	50-150
Endrin	0.10	0.11	110	50-120
Endosulfan sulfate	0.10	0.096	96	50-120
gamma-Chlordane	0.050	0.049	98	30-130

Instrument ID(2): 3400D GC Column(2):DB-17 ID:0.32 (mm)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
gamma-BHC (Lindane)	0.050	0.051	102	50-120
Heptachlor epoxide	0.050	0.048	96	50-150
Dieldrin	0.10	0.10	100	30-130
4,4'-DDE	0.10	0.11	110	50-150
Endrin	0.10	0.11	110	50-120
Endosulfan sulfate	0.10	0.10	100	50-120
gamma-Chlordane	0.050	0.051	102	30-130

Column to be used to flag LCS recovery with an asterisk.
* Values outside of QC limits.
LCS Recovery: 0 outside limits out of 14 total.

COMMENTS:

4LCC

LOW CONC. WATER PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKF5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Date Extracted: 06/30/97 Lab Sample ID: MB063097

Date Analyzed (1): 07/01/97 Date Analyzed (2): 07/01/97

Time Analyzed (1): 2142 Time Analyzed (2): 2142

Instrument ID (1): 3400C Instrument ID (2): 3400D

GC Column (1): DB-1701 ID: 0.32(mm) GC Column (2): DB-17 ID: 0.32(mm)

Sulfur Cleanup (Y/N) Y Extraction:(SepF/Cont) SEPF

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EBZA4	26646	07/01/97	07/01/97
02	EBZA5	26647	07/01/97	07/01/97
03	EBZA6	26648	07/01/97	07/01/97
04	EBZB9	26649	07/01/97	07/01/97
05	EBZC0	26650	07/02/97	07/02/97
06	EBZC2	26652	07/02/97	07/02/97
07	EBZC2DL	26652DL1:5	07/02/97	07/02/97
08	EBZC3	26653	07/02/97	07/02/97
09	PLCSD4	LCS063097	07/01/97	07/01/97
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

4LCC

EPA SAMPLE NO.

LOW CONC. WATER PESTICIDE METHOD BLANK SUMMARY

PBLKF8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Date Extracted: 07/03/97 Lab Sample ID: MB070397

Date Analyzed (1): 07/07/97 Date Analyzed (2): 07/07/97

Time Analyzed (1): 1325 Time Analyzed (2): 1325

Instrument ID (1): 3400C Instrument ID (2): 3400D

GC Column (1): DB-1701 ID: 0.32(mm) GC Column (2): DB-17 ID: 0.32(mm)

Sulfur Cleanup (Y/N) Y Extraction:(SepF/Cont) SEPF

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EBZC2RE	26652RE	07/07/97	07/07/97
02	EBZC3RE	26653RE	07/07/97	07/07/97
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
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19				
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23				
24				
25				
26				

COMMENTS: _____

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKF5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: MB063097 Date Received:

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4' DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKF8

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: MB070397 Date Received:

Sample Volume: 1000.00 (mL) Date Extracted: 07/03/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/07/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSD4(1)

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: LCS063097 Date Received:

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.094	
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.090	
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.21	
72-55-9	4,4'-DDE	0.21	
72-20-8	Endrin	0.23	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.19	
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.099	
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

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LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCSD4(2)

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: LCS063097 Date Received:

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.10	
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.096	
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.21	
72-55-9	4,4'-DDE	0.22	
72-20-8	Endrin	0.23	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.20	
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.10	
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	0.50	U

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LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZA4

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

MWS.

Lab Sample ID: 26646 Date Received: 06/27/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

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LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZA5

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

MIS

Lab Sample ID: 26647 Date Received: 06/27/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZA6

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

M3S

Lab Sample ID: 26648 Date Received: 06/27/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZB9

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

M4D

Lab Sample ID: 26649 Date Received: 06/27/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/01/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC0

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

M25

Lab Sample ID: 26650 Date Received: 06/27/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/02/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC2

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

M45

Lab Sample ID: 26652 Date Received: 06/27/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/02/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC2DL

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: 26652DL1:5 Date Received: 06/27/97 M4S

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/02/97

Injection Volume: 1 (uL) Dilution Factor: 5.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
8001-35-2	Toxaphene	5.0	U

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LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC3

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

MW10C

Lab Sample ID: 26653 Date Received: 06/27/97

Sample Volume: 1000.00 (mL) Date Extracted: 06/30/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/02/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC2RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

M4S

Lab Sample ID: 26652RE Date Received: 06/27/97

Sample Volume: 1000.00 (mL) Date Extracted: 07/03/97

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/07/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.20	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EBZC3RE

Lab Name: REI Contract: 68-D6-0061

Lab Code: ROLLIN Case No.: 25525 SAS No.: SDG No.: EBZA4

Lab Sample ID: 26653RE Date Received: 06/27/97

Sample Volume: 1000.00 (mL) Date Extracted: 07/03/97 MW10C

Concentrated Extract Volume: 2000(uL) Date Analyzed: 07/07/97

Injection Volume: 1 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) Y Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.10	U
53494-70-5	Endrin ketone	0.020	U
7421-93-4	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
5103-74-2	gamma-Chlordane	0.010	U
12674-11-2	Aroclor-1016	0.20	U
11104-28-2	Aroclor-1221	0.40	U
11141-16-5	Aroclor-1232	0.20	U
53469-21-9	Aroclor-1242	0.20	U
12672-29-6	Aroclor-1248	0.20	U
11097-69-1	Aroclor-1254	0.20	U
11096-82-5	Aroclor-1260	0.20	U
8001-35-2	Toxaphene	1.0	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No: _____ CERCLIS No: IN

Case No: 25525 Site Name Location: American Chem SVC

Contractor or EPA Lab: Rollins Data User: B+V

No. of Samples: 9 Date Sampled or Data Received: 7-14-97

Have Chain-of-Custody records been received? Yes ✓ No ___
Have traffic reports or packing lists been received? Yes ✓ No ___
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes ✓ No ___
If no, which traffic report or packing list numbers are missing?

_____ _____ _____ _____

_____ _____ _____ _____

Are basic data forms in? Yes ✓ No ___
No of samples claimed: 9 No. of samples received: 9

Received by: Lynette Burnett Date: 7-14-97

Received by LSSS: Lynette Burnett Date: 7-14-97

Review started: 7-18-97 Reviewer Signature: Stephanie N Tohn

Total time spent on review: 8 hrs Date review completed: 7-28-97

Copied by: Lynette Burnett Date: 7-28-97

Mailed to user by: Lynette Burnett Date: 7-28-97

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

_____

_____

Received by Data Mgmt. Coordinator for Files. Data: _____