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ILLINOIS
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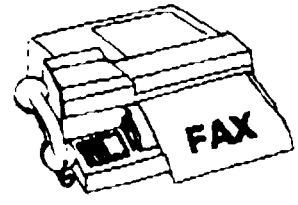

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FROM: PAUL TAKACS

MEMO: ANALYTICALS ON STORMWATER @ CS-B IN LATE 1993. SS04 TAKEN ON 10-18-93 WAS "CLEAN". ALL SAMPLES HAD HIGH LEVELS OF Fe - CONCERNED?

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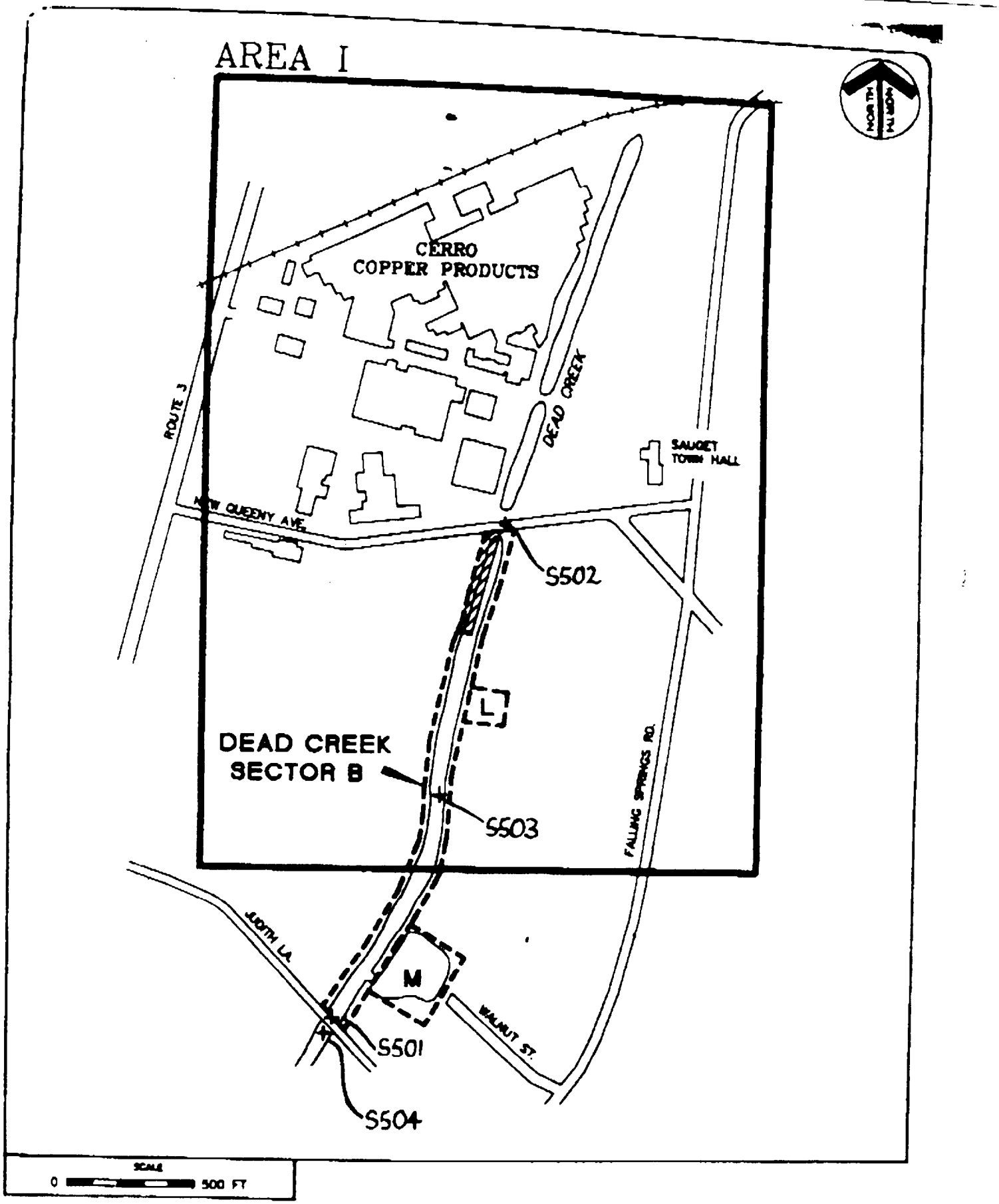
AREA I
NORTH
CERRO
COPPER PRODUCTS
ROUTE 3
DEAD CREEK
SAUGET
TOWN HALL
NEW QUEENY AVE.
S502
L
DEAD CREEK
SECTOR B
S503
FALLING SPRINGS RD.
JUDITH LA.
M
WALNUT ST.
S501
S504
SCALE
0
500 FT

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S501

Lab Name: ARDL, INC. Contract: SAUGET

Lab Code: -- Case No.: --- SAS No.: --- SDG No.: S501

Matrix: (soil/water) WATER Lab Sample ID: 2265-1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: >J5522

Level: (low/med) LOW Date Received: 9/24/93

% Moisture: not dec. --- Date Analyzed: 9/25/93

GC column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.00000

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
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	3.	J
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

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S501

Lab Name: ARDL, INC. Contract: SAUGET

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S501

Matrix: (soil/water) WATER Lab Sample ID: 2265-1

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: >M4169

Level: (low/med) LOW Date Received: 9/24/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 9/25/93

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 9/27/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.00000

GPC Cleanup: (Y/N) N pH: --- Conversion Factor: 1.0000

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	2.	J
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5	4-Methylphenol	10.	J
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	2.	J
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	2.	J
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-Trichlorophanol	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

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S501

Lab Name: ARDL, INC. Contract: SAUGET

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S501

Matrix: (soil/water) WATER Lab Sample ID: 2265-1

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: >M4169

Level: (low/med) LOW Date Received: 9/24/93

% Moisture: not dec. --- decanted:(Y/N) N Date Extracted: 9/25/93

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 9/27/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.00000

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
1. 106489	PHENOL, 4-CHLORO-	13.27	80.	JN
2. 118901	BENZOIC ACID, 2-METHYL-	14.17	40.	JN
3.	UNKNOWN	15.15	200.	J
4.	BENZENAMINE, DICHLORO-	15.29	10.	J
5. 612204	BENZOIC ACID, 2-(HYDROXYMETH	15.59	40.	JN
6. 124174	ETHANOL, 2-(2-BUTOXYETHOXY)-	15.70	20.	JNB
7.	UNKNOWN	18.82	20.	J B
8.	UNKNOWN	19.37	80.	J
9.	UNKNOWN	19.76	20.	J
10. 2169871	2,3-NAPHTHALENEDICARBOXYLIC	21.79	20.	JN
11.	UNKNOWN	23.92	10.	J
12. 84651	9,10-ANTHRACENEDIONE	25.81	90.	JN
13.	UNKNOWN	26.40	30.	J
14.	UNKNOWN	26.73	20.	J
15.	UNKNOWN	28.18	30.	J
16.	UNKNOWN	28.54	10.	J
17.	UNKNOWN	31.42	20.	J
18.	UNKNOWN	32.70	20.	J
19.	UNKNOWN	33.25	20.	J
20.	UNKNOWN	34.60	20.	J
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S502

Lab Name: ARDL, INC. Contract: SAUGET

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: G106

Matrix: (soil/water) WATER Lab Sample ID: 2266-7

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: >J5563

Level: (low/med) LOW Date Received: 9/28/93

% Moisture: not dec. --- Date Analyzed: 9/30/93

GC column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.00000

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	51.	
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	19.	
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
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	6.	J
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

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S502

Lab Name: ARDL, INC. Contract: SAUGET

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: G106

Matrix: (soil/water) WATER Lab Sample ID: 2266-7

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: >M4242

Level: (low/med) LOW Date Received: 9/28/93

% Moisture: not dec. --- decanted:(Y/N) N Date Extracted: 9/30/93

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 10/02/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.00000

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
1.	UNKNOWN	4.90	7.	J
2. 106489	PHENOL, 4-CHLORO-	13.20	40.	JN
3. 118901	BENZOIC ACID, 2-METHYL-	14.08	20.	JN
4. 88993	1,2-BENZENEDICARBOXYLIC ACID	15.02	50.	JN
5. 612204	BENZOIC ACID, 2-(HYDEOXYMETH	15.50	30.	JN
6. 124174	ETHANOL, 2-(2-BUTOXYETHOXY)-	15.64	5.	JN
7.	UNKNOWN	17.60	5.	J
8.	UNKNOWN	18.74	8.	J B
9. 88197	BENZENESULFONAMIDE, 2-METHYL	19.28	80.	JN
10.	UNKNOWN	19.66	10.	J
11. 62442	ACETAMIDE, N-(4-ETHOXYPHENYL	20.17	5.	JN
12.	UNKNOWN	20.26	6.	J
13. 2169871	2,3-NAPHTHALENEDICARBOXYLIC	21.70	5.	JN
14.	UNKNOWN PHTHALATE	21.87	8.	J B
15.	UNKNOWN	23.54	5.	J
16. 81845	1,8-NAPHTHALIC ANHYDRIDE	23.83	20.	JN
17. 84651	9,10-ANTHRACENEDIONE	25.69	60.	JN
18.	UNKNOWN	26.29	10.	J
19.	UNKNOWN	26.63	10.	J
20.	UNKNOWN	28.08	20.	J
21.				
22.				
23.				
24.				
25.				
26.				
27.				
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29.				
30.				

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S502

Lab Name: ARDL, INC. Contract: SAUGET

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: G106

Matrix: (soil/water) WATER Lab Sample ID: 2266-7

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: >M4242

Level: (low/med) LOW Date Received: 9/28/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 9/30/93

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 10/02/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.00000

GPC Cleanup: (Y/N) N pH: --- Conversion Factor: 1.0000

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 (1)	10.	U
101-55-3	4-Bromophenyl-phenylether	10.	U
118-74-1	Hexachlorobenzene	10.	U
87-86-5	Pentachlorophenol	4.	J
85-01-8	Phenanthrene	10.	U
120-12-7	Anthracene	10.	U
86-74-8	Carbazole	10.	U
84-74-2	Di-n-butylphthalate	3.	J
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

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S502

Lab Name: ARDL, INC. Contract: SAUGET

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: G106

Matrix: (soil/water) WATER Lab Sample ID: 2266-7

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: >M4242

Level: (low/med) LOW Date Received: 9/28/93

% Moisture: - - decanted: (Y/N) N Date Extracted: 9/30/93

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 10/02/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.00000

GPC Cleanup: (Y/N) N pH: --- Conversion Factor: 1.0000

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	7.	J
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	5.	J
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

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

S502

Lab Name: ARDL, INC. Contract No.: 2266

Lab Code: _____ SAS No.: _____ SDG No.: G106

Matrix (soil/water) WATER Lab Sample ID: 2266-7

Level (low/med): LOW Date Received: 09/28/93

% 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	630			P
7440-36-0	Antimony	25.0	U		P
7440-38-2	Arsenic	5.6	B	N W	F
7440-39-3	Barium	259.0			P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.8	B		P
7440-70-2	Calcium	121000			P
7440-47-3	Chromium	8.3	B		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	1150			P
7439-89-6	Iron	3310			P
7439-92-1	Lead	120.0		N	F
7439-95-4	Magnesium	11800			P
7439-96-5	Manganese	589			P
7439-97-6	Mercury	0.20			CV
7440-02-0	Nickel	10.0	U		P
7440-09-7	Potassium	4570	B		P
7782-49-2	Selenium	1.0	U	N W	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	16100			P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	8.1	B		P
7440-66-6	Zinc	432			P
	Cyanide				NR

Color Before: GRAY Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S503

Name: ARDL, INC. Contract: SAUGET #1

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S503

Matrix: (soil/water) WATER Lab Sample ID: 2268-1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: >J5766

Level: (low/med) LOW Date Received: 10/15/93

% Moisture: not dec. --- Date Analyzed: 10/18/93

GC column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.00000

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	34.	
75-15-0	Carbon Disulfide	10.	U
75-35-4	1,1-Dichloroethene	3.	J
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
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	20.	
108-90-7	Chlorobenzene	21.	
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylene (total)	10.	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S503

Lab Name: ARDL, INC. Contract: SAUGET #1

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S503

Matrix: (soil/water) WATER Lab Sample ID: 2268-1

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: >M4433

Level: (low/med) LOW Date Received: 10/15/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 10/16/93

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 10/18/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.00000

GPC Cleanup: (Y/N) N pH: 6.5

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	25.	
111-44-4	bis(2-Chloroethyl)_ether	10.	U
95-57-8	2-Chlorophenol	7.	J
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	4.	J
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5	4-Methylphenol	35.	
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	5.	J
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	10.	J
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	8.	J
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

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S503

Lab Name: ARDL, INC. Contract: SAUGET #1

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S503

Matrix: (soil/water) WATER Lab Sample ID: 2268-1

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: >M4433

Level: (low/med) LOW Date Received: 10/15/93

% Moisture: not dec. --- decanted:(Y/N) N Date Extracted: 10/16/93

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 10/18/93

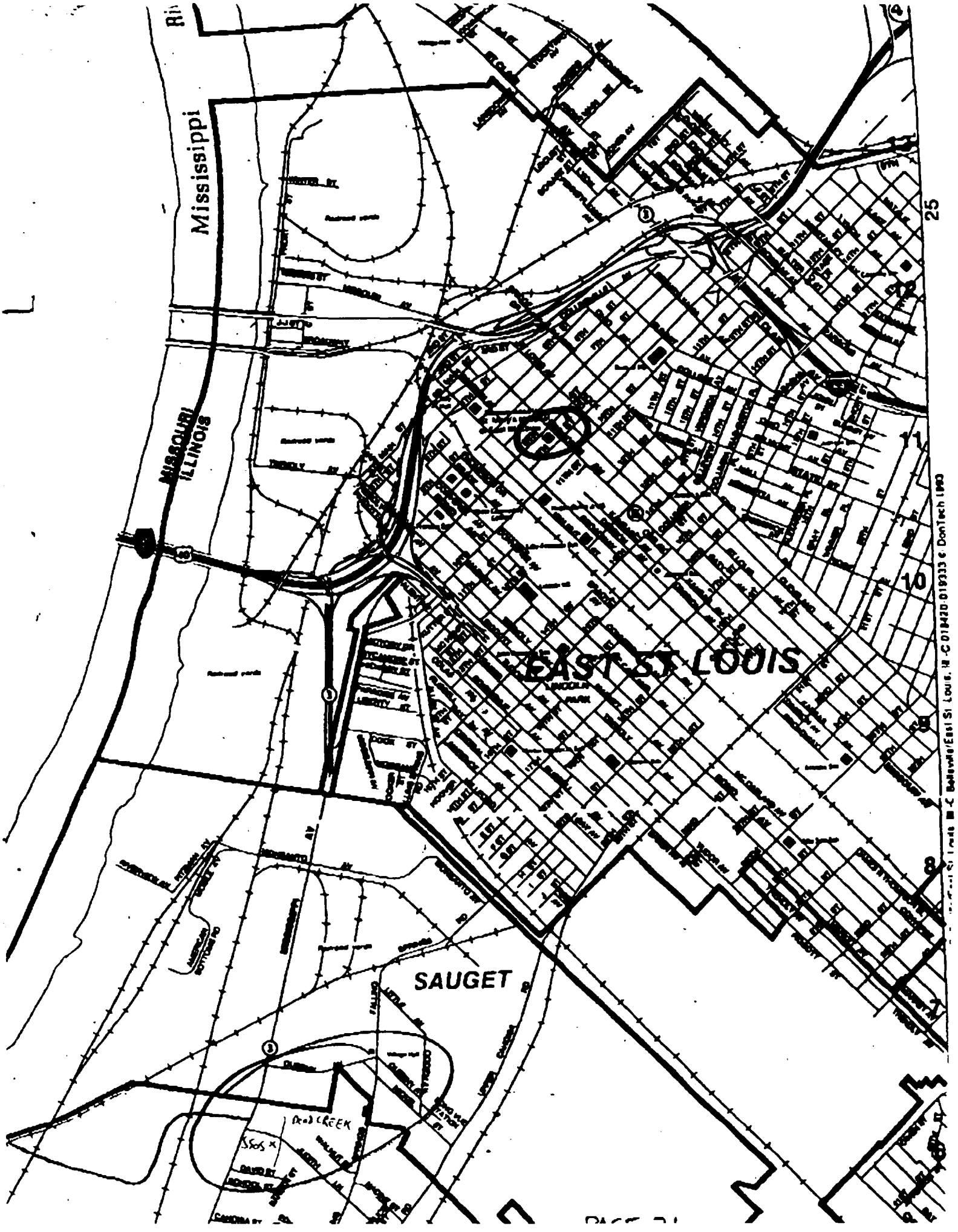
Injection Volume: 2.0 (uL) Dilution Factor: 1.00000

GPC Cleanup: (Y/N) N pH: 6.5

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 95512	O-CHLOROANILINE	11.90	20.	JN
2.	UNKNOWN	13.13	200.	J
3. 118901	BENZOIC ACID, 2-METHYL-	14.27	100.	JN
4.	BENZENEDIOL	14.48	40.	J
5.	UNKNOWN	15.15	100.	J
6. 87412	1(3H)-ISOBENZOFURANONE	15.55	20.	JN
7.	UNKNOWN	16.64	20.	J
8. 88197	BENZENESULFONAMIDE, 2-METHYL	19.18	10.	JN
9.	UNKNOWN	19.45	80.	J
10. 70553	BENZENESULFONAMIDE, 4-METHYL	19.82	30.	JN
11.	UNKNOWN	20.17	6.	J
12.	UNKNOWN	21.65	20.	J
13. 2169871	2,3-NAPHTHALENEDICARBOXYLIC	22.62	10.	JN
14. 81845	1,8-NAPHTHALIC ANHYDRIDE	23.81	20.	JN
15. 84651	9,10-ANTHRACENEDIONE	25.71	60.	JN
16.	UNKNOWN	26.27	20.	J
17.	UNKNOWN	26.61	20.	J
18.	UNKNOWN	28.04	20.	J
19.	UNKNOWN	28.43	10.	J
20.	UNKNOWN	29.32	20.	J
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				


Mississippi
MISSOURI
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SAUGET
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
S505

Lab Name: ARDL, INC. Contract: SAUGET A#1

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S505

Matrix: (soil/water) WATER Lab Sample ID: 2274-1

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: >J6111

Level: (low/med) LOW Date Received: 11/19/93

% Moisture: not dec. --- Date Analyzed: 11/20/93

GC column: 1%SP-1000 ID: 2.0 (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
79-34-5	1,1,2,2-Tetrachloroethane	10.	U
108-88-3	Toluene	22.	
108-90-7	Chlorobenzene	28.	
100-41-4	Ethylbenzene	10.	U
100-42-5	Styrene	10.	U
1330-20-7	Xylene (total)	10.	U

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S505

Lab Name: ARDL, INC. Contract: SAUGET A#1

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S505

Matrix: (soil/water) WATER Lab Sample ID: 2274-1

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: >W0861

Level: (low/med) LOW Date Received: 11/19/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 11/22/93

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 11/23/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	61.	
111-44-4	bis(2-Chloroethyl)_ether	10.	U
95-57-8	2-Chlorophenol	11.	
541-73-1	1,3-Dichlorobenzene	10.	U
106-46-7	1,4-Dichlorobenzene	4.	J
95-50-1	1,2-Dichlorobenzene	10.	U
95-48-7	2-Methylphenol	5.	J
108-60-1	2,2'-oxybis(1-Chloropropane)	10.	U
106-44-5	4-Methylphenol	29.	
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	8.	J
111-91-1	bis(2-Chloroethoxy)methane	10.	U
120-83-2	2,4-Dichlorophenol	41.	
120-82-1	1,2,4-Trichlorobenzene	10.	U
91-20-3	Naphthalene	18.	
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