160136

State of Illinois
ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

217/782-6760

Refer to: L1631210001 -- St. Clair County
Sauget & Company (Site Q) -- Cahokia
Superfund/Technical Reports

October 8, 1993

Mr. Richard D. Burke, President
Eagle Marine Industries, Inc.
200 North Broadway - Suite 1725
St. Louis, Missouri 63102-2716

Dear Richard:

Please find enclosed the results of our sampling performed at Site Q on September 2, 1993.

Samples X102, S101 and S102 were taken at the Explorer Pipeline excavation with X102 being a soil sample from the excavation, and S101 (VOCs only) and S102 being water samples taken from the excavation before and after it was drained. X101 was a soil sample from a surface leachate seep. X103 was a soil sample from a leachate stream going into the river and S103 was a water sample outside of a concrete structure at the southern portion of Site Q. A map showing all sample locations is provided in the enclosure.

As IEPA is concerned about the migration of contaminants from the excavation, Explorer Pipeline indicated that they would be filling in the excavation as soon as the waters go down.

If you have any questions about the lab results, please do not hesitate to call.

Sincerely,

Paul E. Takács, Project Manager
Federal Sites Management Unit
Division of Remediation Management
Bureau of Land

Enclosures - Analytical Results for X101, X102, X103, S101, S102 and S103; Sample Location Map

cc: Terry Ayers (w/o enclosures)
Jim Janssen (w/o enclosures)
Division File

Printed on Recycled Paper

State of Illinois
ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

217/782-6760

Refer to: L1631210001 -- St. Clair County
Sauget & Company (Site Q) -- Cahokia
Superfund/Technical Reports

October 8, 1993

Mr. James F. Sieck, P.E.
Health, Safety, Security and Environmental Manager
Explorer Pipeline Company
P.O. Box 2650
Tulsa, Oklahoma 74101

Dear Jim:

Please find enclosed the results of our sampling at the excavated area around your pipeline in Cahokia. Sample X102 was a soil sample near the pipeline from the excavation. S101 (VOCs only) and S102 were water samples taken in the pit before and after the excavation was drained.

It is the recommendation of this agency that the excavation be filled in as soon as possible to prevent the spread of what appears to be petroleum contamination from unknown sources. If you have any questions about the lab results or need additional background information on the area, please do not hesitate to call.

Thank you again for your cooperation in this matter.

Sincerely,

Paul E. Takács, Project Manager
Federal Sites Management Unit
Division of Remediation Management
Bureau of Land

Enclosure - Analytical Results X102, S102, S103

cc: Terry Ayers (w/o enclosure)
Jim Janssen (w/o enclosure)
Division File

Printed on Recycled Paper

1631210001 / St. Clair
Sauget Area #2
Site Q S.F. Track

ARDL Inc.

applied research & development laboratory

CHEMISTRY · BIOLOGY · PHYSIOLOGY
ENGINEERING · ENVIRONMENTAL ANALYSIS

27 September 1993

Mr. Ron Turpin
Division of Laboratories # 4
Illinois Environmental Protection Agency
2200 Churchill Road
Springfield, IL 62706

SUBJECT: Data Package Submittal
Facility: Sauget Area #2 Site Q
ARDL ID No.: 2263
Site Inventory No.: 1631210001
Due Date: 10/2/93

Dear Mr. Turpin:

Enclosed please find ARDL's data package for analyses performed on samples delivered to our laboratory on 9/02/93. The data package consists of the following:

1. Letter of Transmittal
2. Tabulated Analytical Results
3. Chain-of-Custody Documentation
4. Data Package - Paginated and submitted in the following order:
   a. Volume 1 - Inorganic Analysis Data Package
   b. Volume 2 - Organic Sample Data Summary Package
   c. Volume 3 - Volatiles Analysis Data Package
   d. Volume 4 - Semi-Volatiles Analysis Data Package
   b. Volume 5 - Pesticide/PCB Analysis Data Package

I have forwarded one (1) copy of the sample results for this package to Sue Doubet, IEPA.

We appreciate the opportunity to be of service to the IEPA.

Thank you.

Sincerely yours,

Daniel J. Gillespie

Daniel J. Gillespie
Technical Services Manager

RECEIVED
OCT 04 1993
IEPA/DLPC

P.O. Box 1566 · Mt. Vernon Airport, Route 15 East · Mt. Vernon, Illinois 62864 · (618) 244-3235 · FAX (618) 244-1149
"Test Everything - Keep The Good" 1 Thes. 5:21

SCREENED BF

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S101

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-1

Sample wt/vol: 0.5 (g/ml) ML Lab File ID: >R5334

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: not dec. --- Date Analyzed: 9/08/93

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 10.0

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	100	U
74-83-9	Bromomethane	100	U
75-01-4	Vinyl Chloride	100	U
75-00-3	Chloroethane	100	U
75-09-2	Methylene Chloride	100	U
67-64-1	Acetone	220	
75-15-0	Carbon Disulfide	100	U
75-35-4	1,1-Dichloroethene	100	U
75-34-3	1,1-Dichloroethane	100	U
156-60-5	1,2-Dichloroethene (total)	100	U
67-66-3	Chloroform	100	U
107-06-2	1,2-Dichloroethane	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	900	
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
79-34-5	1,1,2,2-Tetrachloroethane	100	U
108-88-3	Toluene	300	
108-90-7	Chlorobenzene	100	U
110-12-3	5-Methyl-2-Hexanone	100	U
100-41-4	Ethylbenzene	490	
100-42-5	Styrene	100	U
1330-20-7	Xylene (total)	2900	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S101

ab Name: ARDL, INC. Contract: SAUGET #2 Q

ab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

atrix: (soil/water) WATER Lab Sample ID: 2263-1

ample wt/vol: 0.5 (g/mL) ML Lab File ID: >R5334

evel: (low/med) LOW Date Received: 9/02/93

Moisture: not dec. --- Date Analyzed: 9/08/93

C Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 10.0000

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

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	13.22	200.	J
2.	UNKNOWN	16.32	200.	J
3.	UNKNOWN	18.32	200.	J
4.	UNKNOWN ALKANE	20.28	200.	J
5.	CYCLOPENTANE, DIMETHYL	20.92	200.	J
6.	UNKNOWN	22.02	100.	J
7.	UNKNOWN ALKANE	23.29	400.	J
8.	UNKNOWN ALKANE	23.75	300.	J
9.	UNKNOWN ALKANE	24.43	300.	J
10. 103651	BENZENE, PROPYL-	33.78	800.	JN
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S102

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-2

Sample wt/vol: 0.05 (g/ml) ML Lab File ID: >R5313

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: not dec. --- Date Analyzed: 9/07/93

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 100.0

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	1000	U
74-83-9	Bromomethane	1000	U
75-01-4	Vinyl Chloride	1000	U
75-00-3	Chloroethane	1000	U
75-09-2	Methylene Chloride	1000	U
67-64-1	Acetone	1000	U
75-15-0	Carbon Disulfide	1000	U
75-35-4	1,1-Dichloroethene	1000	U
75-34-3	1,1-Dichloroethane	1000	U
156-60-5	1,2-Dichloroethene (total)	1000	U
67-66-3	Chloroform	1000	U
107-06-2	1,2-Dichloroethane	1000	U
78-93-3	2-Butanone	1000	U
71-55-6	1,1,1-Trichloroethane	1000	U
56-23-5	Carbon Tetrachloride	1000	U
75-27-4	Bromodichloromethane	1000	U
78-87-5	1,2-Dichloropropane	1000	U
10061-01-5	cis-1,3-Dichloropropene	1000	U
79-01-6	Trichloroethene	1000	U
124-48-1	Dibromochloromethane	1000	U
79-00-5	1,1,2-Trichloroethane	1000	U
71-43-2	Benzene	25000	E
10061-02-6	trans-1,3-Dichloropropene	1000	U
75-25-2	Bromoform	1000	U
108-10-1	4-Methyl-2-Pentanone	1000	U
591-78-6	2-Hexanone	1000	U
127-18-4	Tetrachloroethene	1000	U
79-34-5	1,1,2,2-Tetrachloroethane	1000	U
108-88-3	Toluene	6700	
108-90-7	Chlorobenzene	1000	U
110-12-3	5-Methyl-2-Hexanone	1000	U
100-41-4	Ethylbenzene	2800	
100-42-5	Styrene	1000	U
1330-20-7	Xylene (total)	14000	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S102

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-2

Sample wt/vol: 0.05 (g/mL) ML Lab File ID: >R5313

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: not dec. --- Date Analyzed: 9/07/93

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 100.000

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
1.	UNKNOWN	8.66	700.	J
2.	UNKNOWN	13.21	2000.	J
3.	UNKNOWN	14.85	700.	J
4.	UNKNOWN	15.35	1000.	J
5.	UNKNOWN	16.31	700.	J
6.	UNKNOWN AROMATIC	27.61	700.	J
7.	UNKNOWN	33.90	7000.	J
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S102DL

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-2DL

Sample wt/vol: 0.025 (g/ml) ML Lab File ID: >R5327

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: not dec. --- Date Analyzed: 9/08/93

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 200.0

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	2000	U D
74-83-9	Bromomethane	2000	U D
75-01-4	Vinyl Chloride	2000	U D
75-00-3	Chloroethane	2000	U D
75-09-2	Methylene Chloride	2000	U D
67-64-1	Acetone	2000	U D
75-15-0	Carbon Disulfide	2000	U D
75-35-4	1,1-Dichloroethene	2000	U D
75-34-3	1,1-Dichloroethane	2000	U D
156-60-5	1,2-Dichloroethene (total)	2000	U D
67-66-3	Chloroform	2000	U D
107-06-2	1,2-Dichloroethane	2000	U D
78-93-3	2-Butanone	2000	U D
71-55-6	1,1,1-Trichloroethane	2000	U D
56-23-5	Carbon Tetrachloride	2000	U D
75-27-4	Bromodichloromethane	2000	U D
78-87-5	1,2-Dichloropropane	2000	U D
10061-01-5	cis-1,3-Dichloropropene	2000	U D
79-01-6	Trichloroethene	2000	U D
124-48-1	Dibromochloromethane	2000	U D
79-00-5	1,1,2-Trichloroethane	2000	U D
71-43-2	Benzene	27000	D
10061-02-6	trans-1,3-Dichloropropene	2000	U D
75-25-2	Bromoform	2000	U D
108-10-1	4-Methyl-2-Pentanone	2000	U D
591-78-6	2-Hexanone	2000	U D
127-18-4	Tetrachloroethene	2000	U D
79-34-5	1,1,2,2-Tetrachloroethane	2000	U D
108-88-3	Toluene	6700	D
108-90-7	Chlorobenzene	2000	U D
110-12-3	5-Methyl-2-Hexanone	2000	U D
100-41-4	Ethylbenzene	3800	D
100-42-5	Styrene	2000	U D
1330-20-7	Xylene (total)	15000	D

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S102DL

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-2DL

Sample wt/vol: 0.025 (g/mL) ML Lab File ID: >R5327

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: not dec. --- Date Analyzed: 9/08/93

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 200.000

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
1.	UNKNOWN	13.23	2000.	J D
2. 76131	ETHANE, 1,1,2-TRICHLORO-1,2,2	13.45	2000.	JN D
3.	UNKNOWN	15.37	1000.	J D
4.	BENZENE, ETHYLMETHYL	24.62	40000.	J D
5.	BENZENE, ETHYLMETHYL	27.77	8000.	J D
6.	UNKNOWN AROMATIC	33.15	9000.	J D
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S103

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-3

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: >R5311

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: not dec. --- Date Analyzed: 9/07/93

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
156-60-5	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	10	U
108-90-7	Chlorobenzene	10	U
110-12-3	5-Methyl-2-Hexanone	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S103

ab Name: ARDL, INC. Contract: SAUGET #2 Q

ab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

atrix: (soil/water) WATER Lab Sample ID: 2263-3

ample wt/vol: 5.0 (g/mL) ML Lab File ID: >R5311

evel: (low/med) LOW Date Received: 9/02/93

Moisture: not dec. --- Date Analyzed: 9/07/93

C Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.00000

oil 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
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) SOIL Lab Sample ID: 2263-4

Sample wt/vol: 4.0 (g/ml) G Lab File ID: >R5324

Level: (low/med) MED Date Received: 9/02/93

% Moisture: not dec. 11 Date Analyzed: 9/08/93

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000.0 (uL) Soil Aliquot Volume: 100.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1300	U
74-83-9	Bromomethane	1300	U
75-01-4	Vinyl Chloride	1300	U
75-00-3	Chloroethane	1300	U
75-09-2	Methylene Chloride	1300	U
67-64-1	Acetone	1300	U
75-15-0	Carbon Disulfide	1300	U
75-35-4	1,1-Dichloroethene	1300	U
75-34-3	1,1-Dichloroethane	1300	U
156-60-5	1,2-Dichloroethene (total)	1300	U
67-66-3	Chloroform	1300	U
107-06-2	1,2-Dichloroethane	1300	U
78-93-3	2-Butanone	3400	B
71-55-6	1,1,1-Trichloroethane	1300	U
56-23-5	Carbon Tetrachloride	1300	U
75-27-4	Bromodichloromethane	1300	U
78-87-5	1,2-Dichloropropane	1300	U
10061-01-5	cis-1,3-Dichloropropene	1300	U
79-01-6	Trichloroethene	1300	U
124-48-1	Dibromochloromethane	1300	U
79-00-5	1,1,2-Trichloroethane	1300	U
71-43-2	Benzene	1300	U
10061-02-6	trans-1,3-Dichloropropene	1300	U
75-25-2	Bromoform	1300	U
108-10-1	4-Methyl-2-Pentanone	1300	U
591-78-6	2-Hexanone	1300	U
127-18-4	Tetrachloroethene	1300	U
79-34-5	1,1,2,2-Tetrachloroethane	1300	U
108-88-3	Toluene	390	J
108-90-7	Chlorobenzene	1300	U
110-12-3	5-Methyl-2-Hexanone	1300	U
100-41-4	Ethylbenzene	850	J
100-42-5	Styrene	1300	U
1330-20-7	Xylene (total)	4800	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) SOIL Lab Sample ID: 2263-4

Sample wt/vol: 4.0 (g/mL) G Lab File ID: >R5324

Level: (low/med) MED Date Received: 9/02/93

% Moisture: not dec. 11 Date Analyzed: 9/08/93

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

Soil Extract Volume: 10000.0 (uL) Soil Aliquot Volume: 100.0 (uL)

Number TICs found: 4

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	76131	ETHANE, 1,1,2-TRICHLORO-1,2,2	13.46	1000.	JNB
2.		UNKNOWN	16.33	1000.	J
3.		UNKNOWN ALKANE	20.29	1000.	J
4.		UNKNOWN	27.22	1000.	J
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) SOIL Lab Sample ID: 2263-5

Sample wt/vol: 4.0 (g/ml) G Lab File ID: >R5325

Level: (low/med) MED Date Received: 9/02/93

% Moisture: not dec. 34 Date Analyzed: 9/08/93

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000.0 (uL) Soil Aliquot Volume: 100.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1800	U
74-83-9	Bromomethane	1800	U
75-01-4	Vinyl Chloride	1800	U
75-00-3	Chloroethane	1800	U
75-09-2	Methylene Chloride	1800	U
67-64-1	Acetone	13000	
75-15-0	Carbon Disulfide	1800	U
75-35-4	1,1-Dichloroethene	1800	U
75-34-3	1,1-Dichloroethane	1800	U
156-60-5	1,2-Dichloroethene (total)	1800	U
67-66-3	Chloroform	1800	U
107-06-2	1,2-Dichloroethane	1800	U
78-93-3	2-Butanone	1800	U
71-55-6	1,1,1-Trichloroethane	1800	U
56-23-5	Carbon Tetrachloride	1800	U
75-27-4	Bromodichloromethane	1800	U
78-87-5	1,2-Dichloropropane	1800	U
10061-01-5	cis-1,3-Dichloropropene	1800	U
79-01-6	Trichloroethene	1800	U
124-48-1	Dibromochloromethane	1800	U
79-00-5	1,1,2-Trichloroethane	1800	U
71-43-2	Benzene	22000	
10061-02-6	trans-1,3-Dichloropropene	1800	U
75-25-2	Bromoform	1800	U
108-10-1	4-Methyl-2-Pentanone	1800	U
591-78-6	2-Hexanone	1800	U
127-18-4	Tetrachloroethene	1800	U
79-34-5	1,1,2,2-Tetrachloroethane	1800	U
108-88-3	Toluene	21000	
108-90-7	Chlorobenzene	1800	U
110-12-3	5-Methyl-2-Hexanone	1800	U
100-41-4	Ethylbenzene	32000	
100-42-5	Styrene	1800	U
1330-20-7	Xylene (total)	160000	E

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102

ab Name: ARDL, INC. Contract: SAUGET #2 Q

ab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

atrix: (soil/water) SOIL Lab Sample ID: 2263-5

ample wt/vol: 4.0 (g/mL) G Lab File ID: >R5325

evel: (low/med) MED Date Received: 9/02/93

Moisture: not dec. 34 Date Analyzed: 9/08/93

C Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.00000

oil Extract Volume: 10000.0 (uL) Soil Aliquot Volume: 100.0 (uL)

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	13.17	20000.	J
2. 96377	CYCLOPENTANE, METHYL-	16.32	10000.	JN
3.	UNKNOWN	18.32	10000.	J
4.	UNKNOWN ALKANE	20.28	10000.	J
5.	CYCLOPENTANE, DIMETHYL-	20.92	8000.	J
6.	UNKNOWN ALKANE	23.29	20000.	J
7.	UNKNOWN ALKANE	23.75	10000.	J
8.	UNKNOWN ALKANE	24.43	40000.	J
9.	UNKNOWN ALKANE	29.81	10000.	J
10. 103651	BENZENE, PROPYL-	33.78	40000.	JN
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102DL

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) SOIL Lab Sample ID: 2263-5DL

Sample wt/vol: 4.0 (g/ml) G Lab File ID: >R5335

Level: (low/med) MED Date Received: 9/02/93

% Moisture: not dec. 34 Date Analyzed: 9/08/93

GC Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 5.0

Soil Extract Volume: 10000.0 (uL) Soil Aliquot Volume: 20.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	9100	U D
74-83-9	Bromomethane	9100	U D
75-01-4	Vinyl Chloride	9100	U D
75-00-3	Chloroethane	9100	U D
75-09-2	Methylene Chloride	9100	U D
67-64-1	Acetone	9100	U D
75-15-0	Carbon Disulfide	9100	U D
75-35-4	1,1-Dichloroethene	9100	U D
75-34-3	1,1-Dichloroethane	9100	U D
156-60-5	1,2-Dichloroethene (total)	9100	U D
67-66-3	Chloroform	9100	U D
107-06-2	1,2-Dichloroethane	9100	U D
78-93-3	2-Butanone	9100	U D
71-55-6	1,1,1-Trichloroethane	9100	U D
56-23-5	Carbon Tetrachloride	9100	U D
75-27-4	Bromodichloromethane	9100	U D
78-87-5	1,2-Dichloropropane	9100	U D
10061-01-5	cis-1,3-Dichloropropene	9100	U D
79-01-6	Trichloroethene	9100	U D
124-48-1	Dibromochloromethane	9100	U D
79-00-5	1,1,2-Trichloroethane	9100	U D
71-43-2	Benzene	16000	D
10061-02-6	trans-1,3-Dichloropropene	9100	U D
75-25-2	Bromoform	9100	U D
108-10-1	4-Methyl-2-Pentanone	9100	U D
591-78-6	2-Hexanone	9100	U D
127-18-4	Tetrachloroethene	9100	U D
79-34-5	1,1,2,2-Tetrachloroethane	9100	U D
108-88-3	Toluene	21000	D
108-90-7	Chlorobenzene	9100	U D
110-12-3	5-Methyl-2-Hexanone	9100	U D
100-41-4	Ethylbenzene	26000	D
100-42-5	Styrene	9100	U D
1330-20-7	Xylene (total)	130000	D

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102DL

b Name: ARDL, INC. Contract: SAUGET #2 Q

b Code: --- Case No.: --- SAS No.: --- SDG No.: S101

.trix: (soil/water) SOIL Lab Sample ID: 2263-5DL

ımple wt/vol: 4.0 (g/mL) G Lab File ID: >R5335

:vel: (low/med) MED Date Received: 9/02/93

Moisture: not dec. 34 Date Analyzed: 9/08/93

: Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 5.00000

›il Extract Volume: 10000.0 (uL) Soil Aliquot Volume: 20.0 (uL)

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	13.23	20000.	J D
2.	UNKNOWN	16.32	10000.	J D
3.	UNKNOWN	18.33	20000.	J D
4.	UNKNOWN ALKANE	20.29	40000.	J D
5.	UNKNOWN	20.93	20000.	J D
6.	UNKNOWN ALKANE	23.30	30000.	J D
7.	UNKNOWN	23.75	20000.	J D
8.	UNKNOWN	25.67	20000.	J D
9.	UNKNOWN	27.59	10000.	J D
10.	UNKNOWN	33.75	200000.	J D
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

ab Name: ARDL, INC. Contract: SAUGET #2 Q

ab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

atrix: (soil/water) SOIL Lab Sample ID: 2263-6

ample wt/vol: 5.0 (g/ml) G Lab File ID: >R5343

evel: (low/med) LOW Date Received: 9/02/93

Moisture: not dec. 56 Date Analyzed: 9/09/93

C Column: 1%SP-1000 ID: 2.0 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	23	U
74-83-9	Bromomethane	23	U
75-01-4	Vinyl Chloride	23	U
75-00-3	Chloroethane	23	U
75-09-2	Methylene Chloride	23	U
67-64-1	Acetone	36	B
75-15-0	Carbon Disulfide	23	U
75-35-4	1,1-Dichloroethene	23	U
75-34-3	1,1-Dichloroethane	23	U
156-60-5	1,2-Dichloroethene (total)	23	U
67-66-3	Chloroform	23	U
107-06-2	1,2-Dichloroethane	23	U
78-93-3	2-Butanone	23	U
71-55-6	1,1,1-Trichloroethane	23	U
56-23-5	Carbon Tetrachloride	23	U
75-27-4	Bromodichloromethane	23	U
78-87-5	1,2-Dichloropropane	23	U
10061-01-5	cis-1,3-Dichloropropene	23	U
79-01-6	Trichloroethene	23	U
124-48-1	Dibromochloromethane	23	U
79-00-5	1,1,2-Trichloroethane	23	U
71-43-2	Benzene	23	U
10061-02-6	trans-1,3-Dichloropropene	23	U
75-25-2	Bromoform	23	U
108-10-1	4-Methyl-2-Pentanone	23	U
591-78-6	2-Hexanone	23	U
127-18-4	Tetrachloroethene	23	U
79-34-5	1,1,2,2-Tetrachloroethane	23	U
108-88-3	Toluene	23	U
108-90-7	Chlorobenzene	23	U
110-12-3	5-Methyl-2-Hexanone	23	U
100-41-4	Ethylbenzene	23	U
100-42-5	Styrene	23	U
1330-20-7	Xylene (total)	23	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X103

b Name: ARDL, INC. Contract: SAUGET #2 Q

b Code: --- Case No.: --- SAS No.: --- SDG No.: S101

.trix: (soil/water) SOIL Lab Sample ID: 2263-6

.mple wt/vol: 5.0 (g/mL) G Lab File ID: >R5343

:vel: (low/med) LOW Date Received: 9/02/93

Moisture: not dec. 56 Date Analyzed: 9/09/93

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

›il Extract Volume: --- (uL) Soil Aliquot Volume: --- (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLK

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-7

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: >R5310

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: not dec. --- Date Analyzed: 9/07/93

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
156-60-5	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	10	U
108-90-7	Chlorobenzene	10	U
110-12-3	5-Methyl-2-Hexanone	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLK

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-7

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: >R5310

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: not dec. --- Date Analyzed: 9/07/93

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

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
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S101

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-1

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: >W0293

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 20000.0(uL) Date Analyzed: 9/18/93

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	2000	U
111-44-4	bis(-2-Chloroethyl)Ether	2000	U
95-57-8	2-Chlorophenol	2000	U
541-73-1	1,3-Dichlorobenzene	2000	U
106-46-7	1,4-Dichlorobenzene	2000	U
95-50-1	1,2-Dichlorobenzene	2000	U
95-48-7	2-Methylphenol	2000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2000	U
106-44-5	4-Methylphenol	2000	U
621-64-7	N-Nitroso-Di-n-Propylamine	2000	U
67-72-1	Hexachloroethane	2000	U
98-95-3	Nitrobenzene	2000	U
78-59-1	Isophorone	2000	U
88-75-5	2-Nitrophenol	2000	U
105-67-9	2,4-Dimethylphenol	2000	U
111-91-1	bis(-2-Chloroethoxy)Methane	2000	U
120-83-2	2,4-Dichlorophenol	2000	U
120-82-1	1,2,4-Trichlorobenzene	2000	U
91-20-3	Naphthalene	40000	E
106-47-8	4-Chloroaniline	2000	U
87-68-3	Hexachlorobutadiene	2000	U
59-50-7	4-Chloro-3-Methylphenol	2000	U
91-57-6	2-Methylnaphthalene	41000	E
77-47-4	Hexachlorocyclopentadiene	2000	U
88-06-2	2,4,6-Trichlorophenol	2000	U
95-95-4	2,4,5-Trichlorophenol	5000	U
91-58-7	2-Chloronaphthalene	2000	U
88-74-4	2-Nitroaniline	5000	U
131-11-3	Dimethyl Phthalate	2000	U
208-96-8	Acenaphthylene	2000	U
606-20-2	2,6-Dinitrotoluene	2000	U
99-09-2	3-Nitroaniline	5000	U
83-32-9	Acenaphthene	4900	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S101

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-1

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: >W0293

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 20000.0(uL) Date Analyzed: 9/18/93

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

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	5000	U
100-02-7	4-Nitrophenol	5000	U
132-64-9	Dibenzofuran	3800	
121-14-2	2,4-Dinitrotoluene	2000	U
84-66-2	Diethylphthalate	2000	U
7005-72-3	4-Chlorophenyl-phenylether	2000	U
86-73-7	Fluorene	8000	
100-01-6	4-Nitroaniline	5000	U
534-52-1	4,6-Dinitro-2-Methylphenol	5000	U
86-30-6	N-Nitrosodiphenylamine	5900	
101-55-3	4-Bromophenyl-phenylether	2000	U
118-74-1	Hexachlorobenzene	2000	U
87-86-5	Pentachlorophenol	5000	U
85-01-8	Phenanthrene	26000	E
120-12-7	Anthracene	980	J
86-74-8	Carbazole	2000	U
84-74-2	Di-N-Butylphthalate	2000	U
206-44-0	Fluoranthene	5700	
129-00-0	Pyrene	3600	
85-68-7	Butylbenzylphthalate	2000	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
56-55-3	Benzo(a)Anthracene	790	J
218-01-9	Chrysene	1500	J
117-81-7	bis(2-Ethylhexyl)Phthalate	1400	J
117-84-0	Di-n-Octyl Phthalate	2000	U
205-99-2	Benzo(b)Fluoranthene	1000	J
207-08-9	Benzo(k)Fluoranthene	930	J
50-32-8	Benzo(a)Pyrene	330	J
193-39-5	Indeno(1,2,3-cd)Pyrene	520	J
53-70-3	Dibenzo(a,h)Anthracene	2000	U
191-24-2	Benzo(g,h,i)Perylene	300	J
88-73-3	2-Nitrochlorobenzene	4000	U
100-00-5	4-Nitrochlorobenzene	4000	U

1C-3

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S101

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-1

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: >W0293

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 20000.0(uL) Date Analyzed: 9/18/93

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
97-00-7	2,4-Dinitrochlorobenzene	4000	U
610-40-2	3,4-Dinitrochlorobenzene	4000	U
115-86-6	Triphenyl Phosphate	4000	U
106-48-9	4-Chlorophenol	4000	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S101

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-1

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: >W0293

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: not dec. --- decanted:(Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume:20000.0 (uL) Date Analyzed: 9/18/93

Injection Volume: 2.0 (uL) Dilution Factor: 10.0000

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.	BENZENE, ETHYL-METHYL-	8.63	4000.	J
2.	UNKNOWN AROMATIC	9.29	5000.	J
3.	UNKNOWN ALKANE	11.37	6000.	J
4. 112403	DODECANE	13.05	7000.	JN
5.	UNKNOWN ALKANE	13.27	3000.	J
6.	UNKNOWN	13.87	1000.	J
7. 90120	NAPHTHALENE, 1-METHYL-	14.85	3000.	JN
8.	UNKNOWN	15.26	2000.	J
9.	NAPHTHALENE, DIMETHYL-	16.44	3000.	J
10.	UNKNOWN	16.71	4000.	J
11.	UNKNOWN ALKANE	17.40	6000.	J
12.	UNKNOWN	18.08	3000.	J
13.	UNKNOWN	18.28	3000.	J
14.	UNKNOWN	18.71	4000.	J
15.	UNKNOWN ALKANE	19.24	3000.	J
16.	UNKNOWN	19.32	1000.	J
17.	UNKNOWN ALKANE	19.89	5000.	J
18.	UNKNOWN ALKANE	21.06	2000.	J
19.	UNKNOWN ALKANE	22.03	3000.	J
20.	UNKNOWN ALKANE	23.02	2000.	J
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S101DL

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-1DL

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: >W0292

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 20000.0(uL) Date Analyzed: 9/18/93

Injection Volume: 2.0 (uL) Dilution Factor: 50.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10000	U D
111-44-4	bis(-2-Chloroethyl)Ether	10000	U D
95-57-8	2-Chlorophenol	10000	U D
541-73-1	1,3-Dichlorobenzene	10000	U D
106-46-7	1,4-Dichlorobenzene	10000	U D
95-50-1	1,2-Dichlorobenzene	10000	U D
95-48-7	2-Methylphenol	10000	U D
108-60-1	2,2'-oxybis(1-Chloropropane)	10000	U D
106-44-5	4-Methylphenol	10000	U D
621-64-7	N-Nitroso-Di-n-Propylamine	10000	U D
67-72-1	Hexachloroethane	10000	U D
98-95-3	Nitrobenzene	10000	U D
78-59-1	Isophorone	10000	U D
88-75-5	2-Nitrophenol	10000	U D
105-67-9	2,4-Dimethylphenol	10000	U D
111-91-1	bis(-2-Chloroethoxy)Methane	10000	U D
120-83-2	2,4-Dichlorophenol	10000	U D
120-82-1	1,2,4-Trichlorobenzene	10000	U D
91-20-3	Naphthalene	44000	D
106-47-8	4-Chloroaniline	10000	U D
87-68-3	Hexachlorobutadiene	10000	U D
59-50-7	4-Chloro-3-Methylphenol	10000	U D
91-57-6	2-Methylnaphthalene	76000	D
77-47-4	Hexachlorocyclopentadiene	10000	U D
88-06-2	2,4,6-Trichlorophenol	10000	U D
95-95-4	2,4,5-Trichlorophenol	25000	U D
91-58-7	2-Chloronaphthalene	10000	U D
88-74-4	2-Nitroaniline	25000	U D
131-11-3	Dimethyl Phthalate	10000	U D
208-96-8	Acenaphthylene	10000	U D
606-20-2	2,6-Dinitrotoluene	10000	U D
99-09-2	3-Nitroaniline	25000	U D
83-32-9	Acenaphthene	5900	J D

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S101DL

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-1DL

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: >W0292

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 20000.0(uL) Date Analyzed: 9/18/93

Injection Volume: 2.0 (uL) Dilution Factor: 50.0

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	25000	U D
100-02-7	4-Nitrophenol	25000	U D
132-64-9	Dibenzofuran	3200	J D
121-14-2	2,4-Dinitrotoluene	10000	U D
84-66-2	Diethylphthalate	10000	U D
7005-72-3	4-Chlorophenyl-phenylether	10000	U D
86-73-7	Fluorene	9200	J D
100-01-6	4-Nitroaniline	25000	U D
534-52-1	4,6-Dinitro-2-Methylphenol	25000	U D
86-30-6	N-Nitrosodiphenylamine	10000	U D
101-55-3	4-Bromophenyl-phenylether	10000	U D
118-74-1	Hexachlorobenzene	10000	U D
87-86-5	Pentachlorophenol	25000	U D
85-01-8	Phenanthrene	39000	D
120-12-7	Anthracene	1300	J D
86-74-8	Carbazole	10000	U D
84-74-2	Di-N-Butylphthalate	10000	U D
206-44-0	Fluoranthene	5300	J D
129-00-0	Pyrene	4300	J D
85-68-7	Butylbenzylphthalate	10000	U D
91-94-1	3,3'-Dichlorobenzidine	10000	U D
56-55-3	Benzo(a)Anthracene	10000	U D
218-01-9	Chrysene	1700	J D
117-81-7	bis(2-Ethylhexyl)Phthalate	10000	U D
117-84-0	Di-n-Octyl Phthalate	10000	U D
205-99-2	Benzo(b)Fluoranthene	10000	U D
207-08-9	Benzo(k)Fluoranthene	10000	U D
50-32-8	Benzo(a)Pyrene	10000	U D
193-39-5	Indeno(1,2,3-cd)Pyrene	10000	U D
53-70-3	Dibenzo(a,h)Anthracene	10000	U D
191-24-2	Benzo(g,h,i)Perylene	10000	U D
88-73-3	2-Nitrochlorobenzene	20000	U D
100-00-5	4-Nitrochlorobenzene	20000	U D

1C-3

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S101DL

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-1DL

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: >W0292

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 20000.0(uL) Date Analyzed: 9/18/93

Injection Volume: 2.0 (uL) Dilution Factor: 50.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
97-00-7	2,4-Dinitrochlorobenzene	20000	U D
610-40-2	3,4-Dinitrochlorobenzene	20000	U D
115-86-6	Triphenyl Phosphate	20000	U D
106-48-9	4-Chlorophenol	20000	U D

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S101DL

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-1DL

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: >W0292

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: not dec. --- decanted:(Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume:20000.0 (uL) Date Analyzed: 9/18/93

Injection Volume: 2.0 (uL) Dilution Factor: 50.0000

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 ALKANE	11.33	100000.	J D
2.	UNKNOWN ALKANE	13.00	200000.	J D
3.	UNKNOWN	13.80	50000.	J D
4.	UNKNOWN ALKANE	14.12	70000.	J D
5. 90120	NAPHTHALENE, 1-METHYL-	14.75	100000.	JN D
6.	UNKNOWN ALKANE	15.63	70000.	J D
7. 629594	TETRADECANE	15.99	300000.	JN D
8.	NAPHTHALENE, DIMETHYL-	16.09	90000.	J D
9.	NAPHTHALENE, DIMETHYL-	16.30	90000.	J D
10.	UNKNOWN	16.61	100000.	J D
11.	UNKNOWN ALKANE	16.80	100000.	J D
12.	UNKNOWN ALKANE	17.32	200000.	J D
13.	NAPHTHALENE, TRIMETHYL-	17.43	70000.	J D
14.	UNKNOWN	17.97	80000.	J D
15.	UNKNOWN	18.17	70000.	J D
16.	UNKNOWN ALKANE	18.57	200000.	J D
17.	UNKNOWN ALKANE	19.13	100000.	J D
18.	UNKNOWN ALKANE	19.76	200000.	J D
19.	UNKNOWN ALKANE	19.82	90000.	J D
20.	UNKNOWN ALKANE	21.94	90000.	J D
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S103

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-3

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: >W0288

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 9/18/93

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-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
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	Dimethyl Phthalate	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

EPA SAMPLE NO.

S103

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-3

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: >W0288

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 9/18/93

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	160	E
117-84-0	Di-n-Octyl Phthalate	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	Dibenzo(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U
88-73-3	2-Nitrochlorobenzene	20	U
100-00-5	4-Nitrochlorobenzene	20	U

1C-3

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S103

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-3

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: >W0288

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 9/18/93

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
97-00-7	2,4-Dinitrochlorobenzene	20	U
610-40-2	3,4-Dinitrochlorobenzene	20	U
115-86-6	Triphenyl Phosphate	20	U
106-48-9	4-Chlorophenol	20	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S103

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-3

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: >W0288

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: not dec. --- decanted:(Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 9/18/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.00000

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
1.		UNKNOWN	15.30	3.	J
2.		UNKNOWN	18.53	3.	J B
3.	57103	HEXADECANOIC ACID	22.55	4.	JN
4.		UNKNOWN PHTHALATE	22.61	3.	J
5.		UNKNOWN	26.65	2.	J
6.		UNKNOWN	29.69	2.	J
7.		UNKNOWN	30.05	3.	J
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S103DL

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-3DL

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: >W0300

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 9/20/93

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

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

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

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S103DL

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-3DL

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: >W0300

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 9/20/93

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

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	120	U D
100-02-7	4-Nitrophenol	120	U D
132-64-9	Dibenzofuran	50	U D
121-14-2	2,4-Dinitrotoluene	50	U D
84-66-2	Diethylphthalate	50	U D
7005-72-3	4-Chlorophenyl-phenylether	50	U D
86-73-7	Fluorene	50	U D
100-01-6	4-Nitroaniline	120	U D
534-52-1	4,6-Dinitro-2-Methylphenol	120	U D
86-30-6	N-Nitrosodiphenylamine	50	U D
101-55-3	4-Bromophenyl-phenylether	50	U D
118-74-1	Hexachlorobenzene	50	U D
87-86-5	Pentachlorophenol	120	U D
85-01-8	Phenanthrene	50	U D
120-12-7	Anthracene	50	U D
86-74-8	Carbazole	50	U D
84-74-2	Di-N-Butylphthalate	50	U D
206-44-0	Fluoranthene	50	U D
129-00-0	Pyrene	50	U D
85-68-7	Butylbenzylphthalate	50	U D
91-94-1	3,3'-Dichlorobenzidine	50	U D
56-55-3	Benzo(a)Anthracene	50	U D
218-01-9	Chrysene	50	U D
117-81-7	bis(2-Ethylhexyl)Phthalate	200	D
117-84-0	Di-n-Octyl Phthalate	50	U D
205-99-2	Benzo(b)Fluoranthene	50	U D
207-08-9	Benzo(k)Fluoranthene	50	U D
50-32-8	Benzo(a)Pyrene	50	U D
193-39-5	Indeno(1,2,3-cd)Pyrene	50	U D
53-70-3	Dibenzo(a,h)Anthracene	50	U D
191-24-2	Benzo(g,h,i)Perylene	50	U D
88-73-3	2-Nitrochlorobenzene	100	U D
100-00-5	4-Nitrochlorobenzene	100	U D

1C-3

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S103DL

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-3DL

Sample wt/vol: 1000.0 (g/ml) ML Lab File ID: >W0300

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: --- decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 9/20/93

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
97-00-7	2,4-Dinitrochlorobenzene	100	U D
610-40-2	3,4-Dinitrochlorobenzene	100	U D
115-86-6	Triphenyl Phosphate	100	U D
106-48-9	4-Chlorophenol	100	U D

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S103DL

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) WATER Lab Sample ID: 2263-3DL

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: >W0300

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: not dec. --- decanted:(Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 1000.0 (uL) Date Analyzed: 9/20/93

Injection Volume: 2.0 (uL) Dilution Factor: 5.00000

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) SOIL Lab Sample ID: 2263-4

Sample wt/vol: 30.0 (g/ml) G Lab File ID: >W0304

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: 11 decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 9/20/93

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 6.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1800	U
111-44-4	bis(-2-Chloroethyl)Ether	1800	U
95-57-8	2-Chlorophenol	1800	U
541-73-1	1,3-Dichlorobenzene	1800	U
106-46-7	1,4-Dichlorobenzene	270	J
95-50-1	1,2-Dichlorobenzene	1800	U
95-48-7	2-Methylphenol	1800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1800	U
106-44-5	4-Methylphenol	1800	U
621-64-7	N-Nitroso-Di-n-Propylamine	1800	U
67-72-1	Hexachloroethane	1800	U
98-95-3	Nitrobenzene	1800	U
78-59-1	Isophorone	1800	U
88-75-5	2-Nitrophenol	1800	U
105-67-9	2,4-Dimethylphenol	1800	U
111-91-1	bis(-2-Chloroethoxy)Methane	1800	U
120-83-2	2,4-Dichlorophenol	1800	U
120-82-1	1,2,4-Trichlorobenzene	1800	U
91-20-3	Naphthalene	210	J
106-47-8	4-Chloroaniline	1800	U
87-68-3	Hexachlorobutadiene	1800	U
59-50-7	4-Chloro-3-Methylphenol	1800	U
91-57-6	2-Methylnaphthalene	110	J
77-47-4	Hexachlorocyclopentadiene	1800	U
88-06-2	2,4,6-Trichlorophenol	1800	U
95-95-4	2,4,5-Trichlorophenol	4500	U
91-58-7	2-Chloronaphthalene	1800	U
88-74-4	2-Nitroaniline	4500	U
131-11-3	Dimethyl Phthalate	1800	U
208-96-8	Acenaphthylene	1800	U
606-20-2	2,6-Dinitrotoluene	1800	U
99-09-2	3-Nitroaniline	4500	U
83-32-9	Acenaphthene	240	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) SOIL Lab Sample ID: 2263-4

Sample wt/vol: 30.0 (g/ml) G Lab File ID: >W0304

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: 11 decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 9/20/93

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 6.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	4500	U
100-02-7	4-Nitrophenol	4500	U
132-64-9	Dibenzofuran	180	J
121-14-2	2,4-Dinitrotoluene	1800	U
84-66-2	Diethylphthalate	1800	U
7005-72-3	4-Chlorophenyl-phenylether	1800	U
86-73-7	Fluorene	310	J
100-01-6	4-Nitroaniline	4500	U
534-52-1	4,6-Dinitro-2-Methylphenol	4500	U
86-30-6	N-Nitrosodiphenylamine	1800	U
101-55-3	4-Bromophenyl-phenylether	1800	U
118-74-1	Hexachlorobenzene	1800	U
87-86-5	Pentachlorophenol	4500	U
85-01-8	Phenanthrene	2600	
120-12-7	Anthracene	1800	U
86-74-8	Carbazole	1800	U
84-74-2	Di-N-Butylphthalate	1800	U
206-44-0	Fluoranthene	3000	
129-00-0	Pyrene	3800	
85-68-7	Butylbenzylphthalate	1800	U
91-94-1	3,3'-Dichlorobenzidine	1800	U
56-55-3	Benzo(a)Anthracene	1800	U
218-01-9	Chrysene	1800	U
117-81-7	bis(2-Ethylhexyl)Phthalate	1800	U
117-84-0	Di-n-Octyl Phthalate	1800	U
205-99-2	Benzo(b)Fluoranthene	2100	
207-08-9	Benzo(k)Fluoranthene	1800	U
50-32-8	Benzo(a)Pyrene	1100	J
193-39-5	Indeno(1,2,3-cd)Pyrene	670	J
53-70-3	Dibenzo(a,h)Anthracene	1800	U
191-24-2	Benzo(g,h,i)Perylene	510	J
88-73-3	2-Nitrochlorobenzene	3600	U
100-00-5	4-Nitrochlorobenzene	3600	U

1C-3

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) SOIL Lab Sample ID: 2263-4

Sample wt/vol: 30.0 (g/ml) G Lab File ID: >W0304

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: 11 decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 9/20/93

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 6.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
97-00-7	2,4-Dinitrochlorobenzene	3600	U
610-40-2	3,4-Dinitrochlorobenzene	3600	U
115-86-6	Triphenyl Phosphate	3600	U
106-48-9	4-Chlorophenol	3600	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X101

ab Name: ARDL, INC. Contract: SAUGET #2 Q

ab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

atrix: (soil/water) SOIL Lab Sample ID: 2263-4

ample wt/vol: 30.0 (g/mL) G Lab File ID: >W0304

evel: (low/med) LOW Date Received: 9/02/93

Moisture: not dec. 11 decanted:(Y/N) N Date Extracted: 9/08/93

oncentrated Extract Volume: 500.0 (uL) Date Analyzed: 9/20/93

njection Volume: 2.0 (uL) Dilution Factor: 5.00000

PC Cleanup: (Y/N) Y pH: 6.4

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.90	10000.	J
2. 29548025	1,3,6-HEPTATRIENE, 2,5,5-TRI	8.29	3000.	JN
3. 3658808	TRISULFIDE, DIMETHYL-	8.71	2000.	JN
4.	UNKNOWN	9.48	1000.	J
5.	UNKNOWN AROMATIC	9.88	2000.	J
6.	UNKNOWN	12.79	4000.	J
7.	UNKNOWN	12.86	4000.	J
8.	UNKNOWN	13.48	20000.	J
9.	UNKNOWN	13.65	1000.	J
10.	BICYCLO[2.2.1]HEPTANE-2-THIO	13.78	6000.	J
11.	UNKNOWN	14.14	3000.	J
12.	UNKNOWN	15.29	2000.	J
13.	UNKNOWN	15.77	1000.	J
14.	UNKNOWN ALKANE	15.90	900.	J
15.	UNKNOWN	16.48	4000.	J
16.	UNKNOWN	17.32	10000.	J
17.	UNKNOWN	17.83	2000.	J
18.	UNKNOWN	17.97	2000.	J
19.	UNKNOWN	18.17	6000.	J
20.	UNKNOWN	18.55	4000.	J
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) SOIL Lab Sample ID: 2263-5

Sample wt/vol: 30.0 (g/ml) G Lab File ID: >W0275

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: 34 decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 9/18/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	500	U
111-44-4	bis(-2-Chloroethyl)Ether	500	U
95-57-8	2-Chlorophenol	500	U
541-73-1	1,3-Dichlorobenzene	500	U
106-46-7	1,4-Dichlorobenzene	500	U
95-50-1	1,2-Dichlorobenzene	500	U
95-48-7	2-Methylphenol	500	U
108-60-1	2,2'-oxybis(1-Chloropropane)	500	U
106-44-5	4-Methylphenol	500	U
621-64-7	N-Nitroso-Di-n-Propylamine	500	U
67-72-1	Hexachloroethane	500	U
98-95-3	Nitrobenzene	500	U
78-59-1	Isophorone	500	U
88-75-5	2-Nitrophenol	500	U
105-67-9	2,4-Dimethylphenol	500	U
111-91-1	bis(-2-Chloroethoxy)Methane	500	U
120-83-2	2,4-Dichlorophenol	500	U
120-82-1	1,2,4-Trichlorobenzene	500	U
91-20-3	Naphthalene	7800	E
106-47-8	4-Chloroaniline	500	U
87-68-3	Hexachlorobutadiene	500	U
59-50-7	4-Chloro-3-Methylphenol	500	U
91-57-6	2-Methylnaphthalene	9000	E
77-47-4	Hexachlorocyclopentadiene	500	U
88-06-2	2,4,6-Trichlorophenol	500	U
95-95-4	2,4,5-Trichlorophenol	1200	U
91-58-7	2-Chloronaphthalene	500	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethyl Phthalate	500	U
208-96-8	Acenaphthylene	500	U
606-20-2	2,6-Dinitrotoluene	500	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	550	

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) SOIL Lab Sample ID: 2263-5

Sample wt/vol: 30.0 (g/ml) G Lab File ID: >W0275

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: 34 decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 9/18/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	340	J
121-14-2	2,4-Dinitrotoluene	500	U
84-66-2	Diethylphthalate	500	U
7005-72-3	4-Chlorophenyl-phenylether	500	U
86-73-7	Fluorene	810	
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-Methylphenol	1200	U
86-30-6	N-Nitrosodiphenylamine	500	U
101-55-3	4-Bromophenyl-phenylether	500	U
118-74-1	Hexachlorobenzene	500	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	2900	
120-12-7	Anthracene	260	J
86-74-8	Carbazole	110	J
84-74-2	Di-N-Butylphthalate	370	JB
206-44-0	Fluoranthene	880	
129-00-0	Pyrene	800	
85-68-7	Butylbenzylphthalate	500	U
91-94-1	3,3'-Dichlorobenzidine	500	U
56-55-3	Benzo(a)Anthracene	320	J
218-01-9	Chrysene	340	J
117-81-7	bis(2-Ethylhexyl)Phthalate	130	JB
117-84-0	Di-n-Octyl Phthalate	500	U
205-99-2	Benzo(b)Fluoranthene	220	J
207-08-9	Benzo(k)Fluoranthene	220	J
50-32-8	Benzo(a)Pyrene	230	J
193-39-5	Indeno(1,2,3-cd)Pyrene	140	J
53-70-3	Dibenzo(a,h)Anthracene	500	U
191-24-2	Benzo(g,h,i)Perylene	110	J
88-73-3	2-Nitrochlorobenzene	1000	U
100-00-5	4-Nitrochlorobenzene	1000	U

1C-3

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) SOIL Lab Sample ID: 2263-5

Sample wt/vol: 30.0 (g/ml) G Lab File ID: >W0275

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: 34 decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 9/18/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
97-00-7	2,4-Dinitrochlorobenzene	1000	U
610-40-2	3,4-Dinitrochlorobenzene	1000	U
115-86-6	Triphenyl Phosphate	1000	U
106-48-9	4-Chlorophenol	1000	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) SOIL Lab Sample ID: 2263-5

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >W0275

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: not dec. 34 decanted:(Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 9/18/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.00000

GPC Cleanup: (Y/N) Y pH: 6.6

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.99	5000.	J
2.	UNKNOWN	8.48	5000.	J
3.	UNKNOWN AROMATIC	8.71	10000.	J
4.	BENZENE, TRIMETHYL-	8.85	6000.	J
5.	UNKNOWN AROMATIC	9.90	8000.	J
6.	BENENE, METHYL-PROPYL-	10.48	7000.	J
7.	UNKNOWN ALKANE	11.41	10000.	J
8.	UNKNOWN AROMATIC	11.65	5000.	J
9.	UNKNOWN	12.26	5000.	J
10.	UNKNOWN ALKANE	13.05	10000.	J
11.	UNKNOWN ALKANE	13.25	5000.	J
12.	UNKNOWN	13.63	5000.	J
13. 90120	NAPHTHALENE, 1-METHYL-	14.80	6000.	JN
14.	UNKNOWN ALKANE	16.03	10000.	J
15.	NAPHTHALENE, DIMETHYL-	16.14	4000.	J
16.	NAPHTHALENE, DIMETHYL-	16.35	6000.	J
17.	UNKNOWN	16.63	6000.	J
18.	UNKNOWN ALKANE	16.81	7000.	J
19.	UNKNOWN ALKANE	17.34	9000.	J
20.	UNKNOWN ALKANE	19.77	8000.	J
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102DL

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) SOIL Lab Sample ID: 2263-5DL

Sample wt/vol: 30.0 (g/ml) G Lab File ID: >W0301

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: 34 decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 9/20/93

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 6.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2500	U D
111-44-4	bis(-2-Chloroethyl)Ether	2500	U D
95-57-8	2-Chlorophenol	2500	U D
541-73-1	1,3-Dichlorobenzene	2500	U D
106-46-7	1,4-Dichlorobenzene	2500	U D
95-50-1	1,2-Dichlorobenzene	2500	U D
95-48-7	2-Methylphenol	2500	U D
108-60-1	2,2'-oxybis(1-Chloropropane)	2500	U D
106-44-5	4-Methylphenol	2500	U D
621-64-7	N-Nitroso-Di-n-Propylamine	2500	U D
67-72-1	Hexachloroethane	2500	U D
98-95-3	Nitrobenzene	2500	U D
78-59-1	Isophorone	2500	U D
88-75-5	2-Nitrophenol	2500	U D
105-67-9	2,4-Dimethylphenol	2500	U D
111-91-1	bis(-2-Chloroethoxy)Methane	2500	U D
120-83-2	2,4-Dichlorophenol	2500	U D
120-82-1	1,2,4-Trichlorobenzene	2500	U D
91-20-3	Naphthalene	9000	D
106-47-8	4-Chloroaniline	2500	U D
87-68-3	Hexachlorobutadiene	2500	U D
59-50-7	4-Chloro-3-Methylphenol	2500	U D
91-57-6	2-Methylnaphthalene	9300	D
77-47-4	Hexachlorocyclopentadiene	2500	U D
88-06-2	2,4,6-Trichlorophenol	2500	U D
95-95-4	2,4,5-Trichlorophenol	6100	U D
91-58-7	2-Chloronaphthalene	2500	U D
88-74-4	2-Nitroaniline	6100	U D
131-11-3	Dimethyl Phthalate	2500	U D
208-96-8	Acenaphthylene	2500	U D
606-20-2	2,6-Dinitrotoluene	2500	U D
99-09-2	3-Nitroaniline	6100	U D
83-32-9	Acenaphthene	580	J D

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102DL

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) SOIL Lab Sample ID: 2263-5DL

Sample wt/vol: 30.0 (g/ml) G Lab File ID: >W0301

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: 34 decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 9/20/93

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 6.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	6100	U D
100-02-7	4-Nitrophenol	6100	U D
132-64-9	Dibenzofuran	280	J D
121-14-2	2,4-Dinitrotoluene	2500	U D
84-66-2	Diethylphthalate	2500	U D
7005-72-3	4-Chlorophenyl-phenylether	2500	U D
86-73-7	Fluorene	710	J D
100-01-6	4-Nitroaniline	6100	U D
534-52-1	4,6-Dinitro-2-Methylphenol	6100	U D
86-30-6	N-Nitrosodiphenylamine	2500	U D
101-55-3	4-Bromophenyl-phenylether	2500	U D
118-74-1	Hexachlorobenzene	2500	U D
87-86-5	Pentachlorophenol	6100	U D
85-01-8	Phenanthrene	2700	D
120-12-7	Anthracene	220	J D
86-74-8	Carbazole	110	J D
84-74-2	Di-N-Butylphthalate	340	JBD
206-44-0	Fluoranthene	760	J D
129-00-0	Pyrene	740	J D
85-68-7	Butylbenzylphthalate	2500	U D
91-94-1	3,3'-Dichlorobenzidine	2500	U D
56-55-3	Benzo(a)Anthracene	290	J D
218-01-9	Chrysene	310	J D
117-81-7	bis(2-Ethylhexyl)Phthalate	110	JBD
117-84-0	Di-n-Octyl Phthalate	2500	U D
205-99-2	Benzo(b)Fluoranthene	240	J D
207-08-9	Benzo(k)Fluoranthene	190	J D
50-32-8	Benzo(a)Pyrene	200	J D
193-39-5	Indeno(1,2,3-cd)Pyrene	150	J D
53-70-3	Dibenzo(a,h)Anthracene	2500	U D
191-24-2	Benzo(g,h,i)Perylene	120	J D
88-73-3	2-Nitrochlorobenzene	5000	U D
100-00-5	4-Nitrochlorobenzene	5000	U D

1C-3

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102DL

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) SOIL Lab Sample ID: 2263-5DL

Sample wt/vol: 30.0 (g/ml) G Lab File ID: >W0301

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: 34 decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 9/20/93

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 6.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
97-00-7	2,4-Dinitrochlorobenzene	5000	U D
610-40-2	3,4-Dinitrochlorobenzene	5000	U D
115-86-6	Triphenyl Phosphate	5000	U D
106-48-9	4-Chlorophenol	5000	U D

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X102DL

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) SOIL Lab Sample ID: 2263-5DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >W0301

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: not dec. 34 decanted:(Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 9/20/93

Injection Volume: 2.0 (uL) Dilution Factor: 5.00000

GPC Cleanup: (Y/N) Y pH: 6.6

Number TICs found: 20

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.90	8000.	J D
2.		UNKNOWN	8.43	8000.	J D
3.		BENZENE, ETHYL-METHYL-	8.64	30000.	J D
4.		UNKNOWN AROMATIC	8.77	10000.	J D
5.		UNKNOWN ALKANE	9.45	10000.	J D
6.		UNKNOWN AROMATIC	9.83	10000.	J D
7.		BENENE, METHYL-PROPYL-	10.40	10000.	J D
8.		BENENE, ETHYL-DIMETHYL-	10.53	8000.	J D
9.		UNKNOWN AROMATIC	10.91	10000.	J D
10.		UNKNOWN ALKANE	11.32	20000.	J D
11.		UNKNOWN AROMATIC	11.57	7000.	J D
12.		UNKNOWN ALKANE	12.97	20000.	J D
13.		UNKNOWN ALKANE	14.08	6000.	J D
14.	90120	NAPHTHALENE, 1-METHYL-	14.70	10000.	JN D
15.		UNKNOWN ALKANE	15.92	30000.	J D
16.		NAPHTHALENE, DIMETHYL-	16.05	9000.	J D
17.		NAPHTHALENE, DIMETHYL-	16.26	9000.	J D
18.		UNKNOWN ALKANE	16.74	10000.	J D
19.		UNKNOWN ALKANE	17.26	20000.	J D
20.		UNKNOWN ALKANE	18.50	20000.	J D
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) SOIL Lab Sample ID: 2263-6

Sample wt/vol: 30.0 (g/ml) G Lab File ID: >W0276

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: 56 decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 9/18/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	750	U
111-44-4	bis(-2-Chloroethyl)Ether	750	U
95-57-8	2-Chlorophenol	750	U
541-73-1	1,3-Dichlorobenzene	750	U
106-46-7	1,4-Dichlorobenzene	750	U
95-50-1	1,2-Dichlorobenzene	750	U
95-48-7	2-Methylphenol	750	U
108-60-1	2,2'-oxybis(1-Chloropropane)	750	U
106-44-5	4-Methylphenol	750	U
621-64-7	N-Nitroso-Di-n-Propylamine	750	U
67-72-1	Hexachloroethane	750	U
98-95-3	Nitrobenzene	750	U
78-59-1	Isophorone	750	U
88-75-5	2-Nitrophenol	750	U
105-67-9	2,4-Dimethylphenol	750	U
111-91-1	bis(-2-Chloroethoxy)Methane	750	U
120-83-2	2,4-Dichlorophenol	750	U
120-82-1	1,2,4-Trichlorobenzene	750	U
91-20-3	Naphthalene	750	U
106-47-8	4-Chloroaniline	750	U
87-68-3	Hexachlorobutadiene	750	U
59-50-7	4-Chloro-3-Methylphenol	750	U
91-57-6	2-Methylnaphthalene	750	U
77-47-4	Hexachlorocyclopentadiene	750	U
88-06-2	2,4,6-Trichlorophenol	750	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	750	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethyl Phthalate	750	U
208-96-8	Acenaphthylene	750	U
606-20-2	2,6-Dinitrotoluene	750	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	750	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) SOIL Lab Sample ID: 2263-6

Sample wt/vol: 30.0 (g/ml) G Lab File ID: >W0276

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: 56 decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 9/18/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	750	U
121-14-2	2,4-Dinitrotoluene	750	U
84-66-2	Diethylphthalate	750	U
7005-72-3	4-Chlorophenyl-phenylether	750	U
86-73-7	Fluorene	750	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-Methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine	750	U
101-55-3	4-Bromophenyl-phenylether	750	U
118-74-1	Hexachlorobenzene	750	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	750	U
120-12-7	Anthracene	750	U
86-74-8	Carbazole	750	U
84-74-2	Di-N-Butylphthalate	1300	B
206-44-0	Fluoranthene	750	U
129-00-0	Pyrene	750	U
85-68-7	Butylbenzylphthalate	750	U
91-94-1	3,3'-Dichlorobenzidine	750	U
56-55-3	Benzo(a)Anthracene	750	U
218-01-9	Chrysene	750	U
117-81-7	bis(2-Ethylhexyl)Phthalate	170	JB
117-84-0	Di-n-Octyl Phthalate	750	U
205-99-2	Benzo(b)Fluoranthene	750	U
207-08-9	Benzo(k)Fluoranthene	750	U
50-32-8	Benzo(a)Pyrene	750	U
193-39-5	Indeno(1,2,3-cd)Pyrene	750	U
53-70-3	Dibenzo(a,h)Anthracene	750	U
191-24-2	Benzo(g,h,i)Perylene	750	U
88-73-3	2-Nitrochlorobenzene	1500	U
100-00-5	4-Nitrochlorobenzene	1500	U

1C-3

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ARDL, INC. Contract: SAUGET #2 Q

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

Matrix: (soil/water) SOIL Lab Sample ID: 2263-6

Sample wt/vol: 30.0 (g/ml) G Lab File ID: >W0276

Level: (low/med) LOW Date Received: 9/02/93

% Moisture: 56 decanted: (Y/N) N Date Extracted: 9/08/93

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 9/18/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.2

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
97-00-7	2,4-Dinitrochlorobenzene	1500	U
610-40-2	3,4-Dinitrochlorobenzene	1500	U
115-86-6	Triphenyl Phosphate	1500	U
106-48-9	4-Chlorophenol	1500	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

X103

ab Name: ARDL, INC. Contract: SAUGET #2 Q

ab Code: --- Case No.: --- SAS No.: --- SDG No.: S101

atrix: (soil/water) SOIL Lab Sample ID: 2263-6

ample wt/vol: 30.0 (g/mL) G Lab File ID: >W0276

evel: (low/med) LOW Date Received: 9/02/93

Moisture: not dec. 56 decanted:(Y/N) N Date Extracted: 9/08/93

oncentrated Extract Volume: 500.0 (uL) Date Analyzed: 9/18/93

njection Volume: 2.0 (uL) Dilution Factor: 1.00000

PC Cleanup: (Y/N) Y pH: 6.2

Number TICs found: 20

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.81	300.	J
2.		UNKNOWN	5.25	400.	J B
3.		UNKNOWN	5.78	200.	J
4.		UNKNOWN	5.93	10000.	J B
5.		UNKNOWN	6.19	400.	J B
6.		UNKNOWN	8.42	900.	J B
7.		UNKNOWN	8.63	400.	J
8.		UNKNOWN	17.89	200.	J
9.	120401	DODECANAMIDE, N,N-BIS(2-HYDR	18.09	1000.	JNB
10.		UNKNOWN ALKANE	18.49	200.	J
11.		UNKNOWN	19.60	300.	J
12.		UNKNOWN	22.36	300.	J
13.		UNKNOWN	24.50	200.	J
14.		UNKNOWN	29.69	4000.	J
15.		UNKNOWN	29.86	400.	J
16.		UNKNOWN	32.05	200.	J
17.		UNKNOWN	32.68	200.	J
18.		UNKNOWN	34.78	200.	J
19.		UNKNOWN	37.39	300.	J
20.		UNKNOWN	39.04	3000.	J
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S101

Lab Name: ARDL, INC. Contract: SAUGET #2Q

Lab Code: Case No.: SAS No.: SDG No.: S101
Matrix(soil/water) : WATER Lab Sample ID : 2263-1
Sample(wt/vol) : 1000 (g/mL) mL Lab File ID :
% Moisture: -- decanted:(Y/N) N Date Received : 09/02/93
Extraction(SepF/Cont/Sonc) SEPF Date Extracted : 09/09/93
Concentrated Extract Volume:10000(uL) Date Analyzed : 09/16/93
Injection Volume: 1 (uL) Dilution Factor: 1.0
GPC Cleanup:(Y/N) N pH: --- Sulfur Cleanup : N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC(Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor Epoxide	0.23	P
959-98-8	Endosulfan I	0.12	P
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
1013-07-8	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
7421-36-3	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.05	U
5103-74-2	gamma-Chlordane	0.05	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

EPA SAMPLE NO.

S103

Lab Name: ARDL, INC. Contract: SAUGET #2Q

Lab Code: Case No.: SAS No.: SDG No.: S101
Matrix(soil/water) : WATER Lab Sample ID : 2263-3
Sample(wt/vol) : 1000 (g/mL) mL Lab File ID :
% Moisture: -- decanted:(Y/N) N Date Received : 09/02/93
Extraction(SepF/Cont/Sonc) SEPF Date Extracted : 09/09/93
Concentrated Extract Volume:10000(uL) Date Analyzed : 09/16/93
Injection Volume: 1 (uL) Dilution Factor: 1.0
GPC Cleanup:(Y/N) N pH: --- Suufur Cleanup : N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC(Lindane)	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Heptachlor Epoxide	0.05	U
959-98-8	Endosulfan I	0.05	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
1013-07-8	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
7421-36-3	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.05	U
5103-74-2	gamma-Chlordane	0.05	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

EPA SAMPLE NO.

X101

Lab Name: ARDL, INC. Contract: SAUGET #2Q

Lab Code: Case No.: SAS No.: SDG No.: S101

Matrix(soil/water) : SOIL Lab Sample ID : 2263-4

Sample(wt/vol) : 30.0 (g/mL) G Lab File ID :

% Moisture: 11 decanted:(Y/N) N Date Received : 09/02/93

Extraction(SepF/Cont/Sonc) SONC Date Extracted : 09/09/93

Concentrated Extract Volume:5000 (uL) Date Analyzed : 09/17/93

Injection Volume: 1 (uL) Dilution Factor: 2.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.8	U
319-85-7	beta-BHC	28	
319-86-8	delta-BHC	3.8	U
58-89-9	gamma-BHC(Lindane)	3.8	U
76-44-8	Heptachlor	3.8	U
309-00-2	Aldrin	3.8	U
1024-57-3	Heptachlor Epoxide	3.8	U
959-98-8	Endosulfan I	3.8	U
60-57-1	Dieldrin	90	
72-55-9	4,4'-DDE	31	
72-20-8	Endrin	7.4	U
33213-65-9	Endosulfan II	7.4	U
72-54-8	4,4'-DDD	45	P
1013-07-8	Endosulfan sulfate	7.4	U
50-29-3	4,4'-DDT	56	P
72-43-5	Methoxychlor	38	U
53494-70-5	Endrin ketone	7.4	U
7421-36-3	Endrin aldehyde	7.4	U
5103-71-9	alpha-Chlordane	30	P
5103-74-2	gamma-Chlordane	3.8	U
8001-35-2	Toxaphene	380	U
12674-11-2	Aroclor 1016	74	U
11104-28-2	Aroclor 1221	150	U
11141-16-5	Aroclor 1232	74	U
53469-21-9	Aroclor 1242	74	U
12672-29-6	Aroclor 1248	74	U
11097-69-1	Aroclor 1254	74	U
11096-82-5	Aroclor 1260	74	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101DL

Lab Name: ARDL, INC. Contract: SAUGET #2Q

Lab Code: Case No.: SAS No.: SDG No.: S101
Matrix(soil/water) : SOIL Lab Sample ID : 2263-4(20X)
Sample(wt/vol) : 30.0 (g/mL) G Lab File ID :
% Moisture: 11 decanted:(Y/N) N Date Received : 09/02/93
Extraction(SepF/Cont/Sonc) SONC Date Extracted : 09/09/93
Concentrated Extract Volume:5000 (uL) Date Analyzed : 09/17/93
Injection Volume: 1 (uL) Dilution Factor: 20
GPC Cleanup:(Y/N) Y pH: --- Sulfur Cleanup : N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	38	UD
319-85-7	beta-BHC	23	JPD
319-86-8	delta-BHC	38	UD
58-89-9	gamma-BHC(Lindane)	38	UD
76-44-8	Heptachlor	38	UD
309-00-2	Aldrin	38	UD
1024-57-3	Heptachlor Epoxide	38	UD
959-98-8	Endosulfan I	38	UD
60-57-1	Dieldrin	77	D
72-55-9	4,4'-DDE	74	UD
72-20-8	Endrin	74	UD
33213-65-9	Endosulfan II	74	UD
72-54-8	4,4'-DDD	74	UD
1013-07-8	Endosulfan sulfate	74	UD
50-29-3	4,4'-DDT	74	UD
72-43-5	Methoxychlor	380	UD
53494-70-5	Endrin ketone	74	UD
7421-36-3	Endrin aldehyde	74	UD
5103-71-9	alpha-Chlordane	23	JPD
5103-74-2	gamma-Chlordane	38	UD
8001-35-2	Toxaphene	3800	UD
12674-11-2	Aroclor 1016	740	UD
11104-28-2	Aroclor 1221	1500	UD
11141-16-5	Aroclor 1232	740	UD
53469-21-9	Aroclor 1242	740	UD
12672-29-6	Aroclor 1248	740	UD
11097-69-1	Aroclor 1254	740	UD
11096-82-5	Aroclor 1260	740	UD

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ARDL, INC. Contract: SAUGET #2Q

Lab Code: Case No.: SAS No.: SDG No.: S101
Matrix(soil/water) : SOIL Lab Sample ID : 2263-5
Sample(wt/vol) : 30.0 (g/mL) G Lab File ID :
% Moisture: 34 decanted:(Y/N) N Date Received : 09/02/93
Extraction(SepF/Cont/Sonc) SONC Date Extracted : 09/09/93
Concentrated Extract Volume:5000 (uL) Date Analyzed : 09/16/93
Injection Volume: 1 (uL) Dilution Factor: 1.0
GPC Cleanup:(Y/N) Y pH: --- Sulfur Cleanup : N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.6	U
319-85-7	beta-BHC	2.6	U
319-86-8	delta-BHC	2.6	U
58-89-9	gamma-BHC(Lindane)	2.6	U
76-44-8	Heptachlor	2.6	U
309-00-2	Aldrin	2.6	U
1024-57-3	Heptachlor Epoxide	2.6	U
959-98-8	Endosulfan I	2.6	U
60-57-1	Dieldrin	5.0	U
72-55-9	4,4'-DDE	5.0	U
72-20-8	Endrin	5.0	U
33213-65-9	Endosulfan II	5.0	U
72-54-8	4,4'-DDD	5.0	U
1013-07-8	Endosulfan sulfate	5.0	U
50-29-3	4,4'-DDT	5.0	U
72-43-5	Methoxychlor	26	U
53494-70-5	Endrin ketone	5.0	U
7421-36-3	Endrin aldehyde	5.0	U
5103-71-9	alpha-Chlordane	2.6	U
5103-74-2	gamma-Chlordane	2.6	U
8001-35-2	Toxaphene	260	U
12674-11-2	Aroclor 1016	50	U
11104-28-2	Aroclor 1221	100	U
11141-16-5	Aroclor 1232	50	U
53469-21-9	Aroclor 1242	50	U
12672-29-6	Aroclor 1248	50	U
11097-69-1	Aroclor 1254	50	U
11096-82-5	Aroclor 1260	50	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ARDL, INC. Contract: SAUGET #2Q

Lab Code: Case No.: SAS No.: SDG No.: S101
Matrix(soil/water) : SOIL Lab Sample ID : 2263-6
Sample(wt/vol) : 30.0 (g/mL) G Lab File ID :
% Moisture: 56 decanted:(Y/N) N Date Received : 09/02/93
Extraction(SepF/Cont/Sonc) SONC Date Extracted : 09/09/93
Concentrated Extract Volume:5000 (uL)Date Analyzed : 09/16/93
Injection Volume: 1 (uL) Dilution Factor: 1.0
GPC Cleanup:(Y/N) Y pH: --- Sulfur Cleanup : N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.9	U
319-85-7	beta-BHC	3.9	U
319-86-8	delta-BHC	3.9	U
58-89-9	gamma-BHC(Lindane)	3.9	U
76-44-8	Heptachlor	3.9	U
309-00-2	Aldrin	3.9	U
1024-57-3	Heptachlor Epoxide	3.9	U
959-98-8	Endosulfan I	3.9	U
60-57-1	Dieldrin	12	P
72-55-9	4,4'-DDE	7.5	U
72-20-8	Endrin	7.5	U
33213-65-9	Endosulfan II	11	
72-54-8	4,4'-DDD	7.5	U
1013-07-8	Endosulfan sulfate	7.5	U
50-29-3	4,4'-DDT	7.5	U
72-43-5	Methoxychlor	39	U
53494-70-5	Endrin ketone	7.5	U
7421-36-3	Endrin aldehyde	7.5	U
5103-71-9	alpha-Chlordane	8.8	P
5103-74-2	gamma-Chlordane	3.9	U
8001-35-2	Toxaphene	390	U
12674-11-2	Aroclor 1016	75	U
11104-28-2	Aroclor 1221	150	U
11141-16-5	Aroclor 1232	75	U
53469-21-9	Aroclor 1242	830	
12672-29-6	Aroclor 1248	75	U
11097-69-1	Aroclor 1254	75	U
11096-82-5	Aroclor 1260	75	U

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

S101

Lab Name: ARDL, INC. Contract No.: 2263

Lab Code: _____ SAS No.: _____ SDG No.: S101

Matrix (soil/water) WATER Lab Sample ID: 2263-1

Level (low/med): LOW Date Received: 09/02/93

% 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	38000			P
7440-36-0	Antimony	25.0	U		P
7440-38-2	Arsenic	244.0	B		F
7440-39-3	Barium	1770			P
7440-41-7	Beryllium	3.3	B		P
7440-43-9	Cadmium	13.0			P
7440-70-2	Calcium	402000			P
7440-47-3	Chromium	83.4			P
7440-48-4	Cobalt	38.6	B		P
7440-50-8	Copper	1030			P
7439-89-6	Iron	106000		E	P
7439-92-1	Lead	1880			P
7439-95-4	Magnesium	46800			P
7439-96-5	Manganese	11600			P
7439-97-6	Mercury	5.3			CV
7440-02-0	Nickel	84.4			P
7440-09-7	Potassium	22000			P
7782-49-2	Selenium	5.0	U	N E	F
7440-22-4	Silver	14.4			P
7440-23-5	Sodium	80600			P
7440-28-0	Thallium	1.0	U	W	F
7440-62-2	Vanadium	119			P
7440-66-6	Zinc	1190			P
	Cyanide				NR

Color Before: BROWN Clarity Before: MURKEY Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments: OIL, SAND

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

S101

Lab Name: ARDL, INC. Contract: 2263

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S101

Matrix (soil/water): WATER Lab Sample ID: 2263-1

Level (low/med): LOW Date Received: 09/02/93

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
Sulfate		26800			
Sulfide		2000			

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

S103

Lab Name: ARDL, INC. Contract No.: 2263

Lab Code: _____ SAS No.: _____ SDG No.: S101

Matrix (soil/water) WATER Lab Sample ID: 2263-3

Level (low/med): LOW Date Received: 09/02/93

% 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	446			P
7440-36-0	Antimony	25.0	U		P
7440-38-2	Arsenic	3.4	B		F
7440-39-3	Barium	98.1	B		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	4.0	U		P
7440-70-2	Calcium	58000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	5.0	U		P
7440-50-8	Copper	5.0	U		P
7439-89-6	Iron	837		E	P
7439-92-1	Lead	16.6		N *	F
7439-95-4	Magnesium	20300			P
7439-96-5	Manganese	134			P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	17.1	B		P
7440-09-7	Potassium	4400	B		P
7782-49-2	Selenium	1.0	U	N W	F
7440-22-4	Silver	5.0	U		P
7440-23-5	Sodium	10800			P
7440-28-0	Thallium	1.0	U		F
7440-62-2	Vanadium	5.0	U		P
7440-66-6	Zinc	12.7	B		P
	Cyanide				C

Color Before: CLEAR Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

S103

Lab Name: ARDL, INC. Contract: 2263

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S101

Matrix (soil/water): WATER Lab Sample ID: 2263-3

Level (low/med): LOW Date Received: 09/02/93

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
Sulfate		33900			
Sulfide		1000	U		

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ARDL, INC. Contract No.: 2263

Lab Code: _____ SAS No.: _____ SDG No.: S101

Matrix (soil/water) SOIL Lab Sample ID: 2263-4

Level (low/med): LOW Date Received: 09/02/93

% Solids: 88.7

Concentration Units: (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	2850			P
7440-36-0	Antimony	5.6	U	N	P
7440-38-2	Arsenic	2.2	B	W	F
7440-39-3	Barium	196			P
7440-41-7	Beryllium	0.31	B		P
7440-43-9	Cadmium	1.3			P
7440-70-2	Calcium	76900			P
7440-47-3	Chromium	11.1		*	P
7440-48-4	Cobalt	2.4	B		P
7440-50-8	Copper	35.8			P
7439-89-6	Iron	4020			P
7439-92-1	Lead	247		*	P
7439-95-4	Magnesium	3800			P
7439-96-5	Manganese	125			P
7439-97-6	Mercury	34.1			CV
7440-02-0	Nickel	8.4	B		P
7440-09-7	Potassium	692	B		P
7782-49-2	Selenium	0.23	U	N W	F
7440-22-4	Silver	1.1	U		P
7440-23-5	Sodium	201	U		P
7440-28-0	Thallium	0.23	U	W	F
7440-62-2	Vanadium	11.9			P
7440-66-6	Zinc	289			P
	Cyanide				NR

Color Before: BLACK Clarity Before: Texture: COARSE

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments: LEAVES, ORGANIC MATTER

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ARDL, INC. Contract: 2263

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S101

Matrix (soil/water): SOIL Lab Sample ID: 2263-4

Level (low/med): LOW Date Received: 09/02/93

% Solids: 88.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
Sulfate		10100			
Sulfide		25800			

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ARDL, INC. Contract No.: 2263

Lab Code: _____ SAS No.: _____ SDG No.: S101

Matrix (soil/water) SOIL Lab Sample ID: 2263-5

Level (low/med): LOW Date Received: 09/02/93

% Solids: 66.5

Concentration Units: (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5220			P
7440-36-0	Antimony	7.5	U	N	P
7440-38-2	Arsenic	6.2		S	F
7440-39-3	Barium	180			P
7440-41-7	Beryllium	0.57	B		P
7440-43-9	Cadmium	1.2	U		P
7440-70-2	Calcium	17400			P
7440-47-3	Chromium	9.4		*	P
7440-48-4	Cobalt	6.2	B		P
7440-50-8	Copper	42.5			P
7439-89-6	Iron	11900			P
7439-92-1	Lead	50.3		*	P
7439-95-4	Magnesium	5350			P
7439-96-5	Manganese	299			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	18.5			P
7440-09-7	Potassium	1100	B		P
7782-49-2	Selenium	0.30	U	N W	F
7440-22-4	Silver	1.5	U		P
7440-23-5	Sodium	271	U		P
7440-28-0	Thallium	0.30	U		F
7440-62-2	Vanadium	19.8			P
7440-66-6	Zinc	106			P
	Cyanide				C

Color Before: GRAY Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: CLEAR Artifacts: YES

Comments: SMALL ROCKS

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ARDL, INC. Contract: 2263

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S101

Matrix (soil/water): SOIL Lab Sample ID: 2263-5

Level (low/med): LOW Date Received: 09/02/93

% Solids: 66.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
Sulfate		821			
Sulfide		71.8			

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ARDL, INC. Contract No.: 2263

Lab Code: _____ SAS No.: _____ SDG No.: S101

Matrix (soil/water) SOIL Lab Sample ID: 2263-6

Level (low/med): LOW Date Received: 09/02/93

% Solids: 44.1

Concentration Units: (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4920			P
7440-36-0	Antimony	11.3	U	N	P
7440-38-2	Arsenic	6.9	B	S	F
7440-39-3	Barium	176			P
7440-41-7	Beryllium	0.73	B		P
7440-43-9	Cadmium	1.8	U		P
7440-70-2	Calcium	11900			P
7440-47-3	Chromium	12.2		*	P
7440-48-4	Cobalt	8.5	B		P
7440-50-8	Copper	19.3			P
7439-89-6	Iron	17800			P
7439-92-1	Lead	74.1		*	P
7439-95-4	Magnesium	3240			P
7439-96-5	Manganese	481			P
7439-97-6	Mercury	0.15	U		CV
7440-02-0	Nickel	22.1			P
7440-09-7	Potassium	1040	B		P
7782-49-2	Selenium	0.45	U	N	F
7440-22-4	Silver	2.3	B		P
7440-23-5	Sodium	408	U		P
7440-28-0	Thallium	0.45	U		F
7440-62-2	Vanadium	21.1	B		P
7440-66-6	Zinc	219			P
	Cyanide				C

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: CLEAR Artifacts: NO

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ARDL, INC. Contract: 2263

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: S101

Matrix (soil/water): SOIL Lab Sample ID: 2263-6

Level (low/med): LOW Date Received: 09/02/93

% Solids: 44.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
Sulfate		809			
Sulfide		63.6			

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

IEPA - CLP
CHAIN OF CUSTODY

Seal # 8792

Date Sealed: 9/1/93 By: [illegible]

Facility
Name : SAUGET AREA#2 SITE Q
Region: COLLINSVILLE
County: ST.CLAIR

Site Inventory # : 1631210001
Site Billing Code: SA06-690
Project Manager : KIM ~~HUBBARD~~ HUBBERT

Laboratory #	Sample I.D.	Sample Date	Sample Time
2263-1	S101	9/2/93	9:05A

Sample Appearance : Yellow, brownish substance mixed

Collector Comments:

Sampler Signature : Kim Hubbert Division/Company IEPA/LAND/RPMS

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
1	5	1L Gr	GRN	TOTAL METALS	N		
1	6	1L Bk	BLK	CYANIDE			
1	7	1L OR	PURP	SULFIDE			
1	8	1L Or		SULFATE			
1	9	500ML	GRY	MERCURY			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Kim Hubbert Signature: Kim Hubbert

Date: 9/2/93 Time: 8:52A Seal #: 8791 Intact?: (Y) N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Kim Hubbert Signature: Kim Hubbert

Date: 9/2/93 Time: 2:45P Seal # 8792

Courier - Sample Pickup: IEPA

Courier - Sample Delivery: IEPA

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. ~~After recording the sample in the official record book,~~ the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Sheila Kettler Signature: Sheila Kettler

Date: 9/2/93 Time: 1810 Seal #: 8792 Intact?: (Y) / N

Lab Name: AROL INC Comments: Cooler temp 10.3°C

IEPA - CLP
CHAIN OF CUSTODY

Seal # 8785

Date Sealed: 9/1/93 By: [illegible]

Facility
Name : SAUGET AREA#2 SITE Q
Region: COLLINSVILLE
County: ST.CLAIR

Site Inventory # : 1631210001
Site Billing Code: SA06-690
Project Manager : KIM HUBBARD

Laboratory #	Sample I.D.	Sample Date	Sample Time
2263-2	S102	9/2/93	12:35P

Sample Appearance : Brownish

Collector Comments:

Sampler Signature : Kim Hubbard Division/Company IEPA/LAND/RPMS

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	176	40ml	HCL	VOA,ISO-BUTYLKETONE,	N		
	177			ISO-AMYLKETONE,M-XYLENE,			
	178			O-XYLENE,P-XYLENE			
2	179	80oz		BNA,4-CHLOROPHENOL,			
	180			2-NITROANILINE,4-NITROANILINE			
	181			2-NITROCHLOROBENZENE,			
	182			4-NITROCHLOROBENZENE,			
	183			2,4-DINITROCHLOROBENZENE,			
	184			3,4-DINITROCHLOROBENZENE,			
	185			4-NITROTHENYLAMINE,			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Bob Casper Signature: R. Casper

Date: 9/2/93 Time: 12:25P Seal #: 8785 Intact?: (Y) N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Kim Hubbard Signature: Kim Hubbard

Date: 9/2/93 Time: 2:05P Seal # 8786

Courier - Sample Pickup: IEPA

Courier - Sample Delivery: IEPA

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. ~~After recording the sample in the official record book~~, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Sheila Kettler Signature: Sheila Kettler

Date: 9/2/93 Time: 1810 Seal #: 8784 Intact?: (Y) / N

Lab Name: AROL Comments: Cooler temp 11.7°C
only rec 2 40ml vials

IEPA - CLP
CHAIN OF CUSTODY

Seal # 8785

Date Sealed: 9/1/93 By: RCW

Facility
Name : SAUGET AREA#2 SITE Q
Region: COLLINSVILLE
County: ST.CLAIR

Site Inventory # : 1631210001
Site Billing Code: SA06-690
Project Manager : KIM HUBBARD

Laboratory #	Sample I.D.	Sample Date	Sample Time
	S102	9/2/93	1200 ~~10~~ 12:35f

Sample Appearance :

Collector Comments:

Sampler Signature : Division/Company

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
	186			TRIPHENYLPHOSPHATE			
2	4	80oz		PESTICIDE/PCB			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Sel P. I Signature:

Date: Time: Seal #: Intact?: Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Signature: Kim Hubbert

Date: Time: 2:05P. Seal # 8786

Courier - Sample Pickup:

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. ~~After recording the sample in the official record book~~, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Sheila Kettler Signature: Sheila Kettler

Date: 9/2/93 Time: 1810 Seal #: 8786 Intact?: (Y) / N

Lab Name: AROL INC. Comments: Cooler temp 11.7°C
no containers recieved

IEPA - CLP
CHAIN OF CUSTODY

Seal # 8787

Date Sealed: 9/1/93 By: [illegible]

Facility
Name : SAUGET AREA#2 SITE O
Region: COLLINSVILLE
County: ST.CLAIR

Site Inventory # : 1631210001
Site Billing Code: SA06-690
Project Manager : KIM HUBBARD

Laboratory #	Sample I.D.	Sample Date	Sample Time
2263-3	S103	9/2/93	2:15P.

Sample Appearance : Clear / slightly murky

Collector Comments:

Sampler Signature : Kim Hubbard Division/Company IEPA/LAND/RPHS

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	176	40ml	HCL	VOA,ISO-BUTYLKETONE,	N		
	177			ISO-AMYLKETONE,M-XYLENE,			
	178			O-XYLENE,P-XYLENE			
2	179	80oz		BNA,4-CHLOROPHENOL,			
	180			2-NITROANILINE,4-NITROANILINE			
	181			2-NITROCHLOROBENZENE,			
	182			4-NITROCHLOROBENZENE,			
	183			2,4-DINITROCHLOROBENZENE,			
	184			3,4-DINITROCHLOROBENZENE,			
	185			4-NITROTHENYLAMINE,			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Bob Casper Signature: R. Casper

Date: 9/2/93 Time: 2:05P. Seal #: 8787 Intact? (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Kim Hubbard Signature: Kim Hubbard

Date: 9/2/93 Time: 2:45P Seal # 8788

Courier - Sample Pickup: IEPA

Courier - Sample Delivery: IEPA

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. ~~After recording the sample in the official record book,~~ the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Sheila Kettler Signature: Sheila Kettler

Date: 9/2/93 Time: 1810 Seal #: 8788 Intact?: (Y) / N

Lab Name: ARDL INC. Comments: Cooler temp 1.2°C

IEPA - CLP
CHAIN OF CUSTODY

Seal # 8787

Date Sealed: 9/1/93 By: [illegible]

Facility
Name : SAUGET AREA#2 SITE Q
Region: COLLINSVILLE
County: ST.CLAIR

Site Inventory # : 1631210001
Site Billing Code: SA06-690
Project Manager : KIM HUBBARD

Laboratory #	Sample I.D.	Sample Date	Sample Time
2263-3	S102		

Sample Appearance :

Collector Comments: See P. 1

Sampler Signature : Division/Company

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
	186			TRIPHENYLPHOSPHATE			
2	4	80oz		PESTICIDE/PCB			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Signature:

Date: Time: Seal #: Intact?: Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Signature: Kim Hubbard

Date: Time: Seal #

Courier - Sample Pickup:

Courier - Sample Delivery: IEPA

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. ~~After recording the sample in the official record book,~~ the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Sheila Kettler Signature: Sheila Kettler

Date: 9/2/93 Time: 1810 Seal #: 8788 Intact?: (Y) / N

Lab Name: ARDL INC. Comments: Cooler temp 11.2°C

~~no containers received~~

IEPA - CLP
CHAIN OF CUSTODY

Seal # 8782

Date Sealed: 9/1/93 By: [illegible]

Facility
Name : SAUGET AREA#2 SITE Q
Region: COLLINSVILLE
County: ST.CLAIR

Site Inventory # : 1631210001
Site Billing Code: SA06-690
Project Manager : KIM HUBBARD

Laboratory #	Sample I.D.	Sample Date	Sample Time
2263-3	S108		

Sample Appearance : *

Collector Comments: INORG. NOT TAKEN

Sampler Signature : _____ Division/Company _____

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
1	5	1L Gr	GRN	TOTAL METALS			
1	6	1L Bk	BLK	CYANIDE			
1	7	1L OR	PURP	SULFIDE			
1	8	1L Or		SULFATE			
1	9	500ML	GRY	MERCURY			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): _____ Signature: _____

Date: _____ Time: _____ Seal #: _____ Intact?: Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): _____ Signature: _____

Date: _____ Time: _____ Seal # _____

Courier - Sample Pickup: _____

Courier - Sample Delivery: IEPA

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Sheila Kettler Signature: Sheila Kettler

Date: 9/2/93 Time: 1810 Seal #: 8788 Intact?: (Y) / N

Lab Name: ARDL INC Comments: Cooler Temp 11.2°C

* received contain for for sample S103 [illegible]

IEPA - CLP
CHAIN OF CUSTODY

Seal # 8795

Date Sealed: 9/1/93 By: RLCM

Facility
Name : SAUGET AREA#2 SITE Q
Region: COLLINSVILLE
County: ST.CLAIR

Site Inventory # : 1631210001
Site Billing Code: SA06-690
Project Manager : KIM ~~HUBBARD~~ HUBBERT

Laboratory #	Sample I.D.	Sample Date	Sample Time
2263-4	X101	9/2/93	11:05 A

Sample Appearance :

Collector Comments:

Sampler Signature : Kim Hubbert Division/Company IEPA/LAND/RPMS

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	176	2oz		VOA, ISO-BUTYLKETONE,	N		
	177			ISO-AMYLKETONE, M-XYLENE,			
	178			O-XYLENE, P-XYLENE			
1	179	32oz		BNA, PEST/PCB, 4-CHLOROPHENOL,			
	180			2-NITROANILINE, 4-NITROANILINE			
	181			2-NITROCHLOROBENZENE,			
	182			4-NITROCHLOROBENZENE,			
	183			2,4-DINITROCHLOROBENZENE,			
	184			3,4-DINITROCHLOROBENZENE,			
	185			4-NITROTHENYLAMINE,			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Kim Hubbert Signature: Kim Hubbert

Date: 9/2/93 Time: 10:50A Seal #: 8795 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Kim Hubbert Signature: Kim Hubbert

Date: 9/2/93 Time: 4:05P Seal # 8796

Courier - Sample Pickup: IEPA

Courier - Sample Delivery: IEPA

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. ~~After recording the sample in the official record book~~, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Sheila Kettler Signature: Sheila Kettler

Date: 9/2/93 Time: 1810 Seal #: 8796 Intact?: (Y) / N

Lab Name: ARDL INC. Comments: Cooler temp 11.2°C

IEPA - CLP
CHAIN OF CUSTODY

Seal # 8795

Date Sealed: 9/1/93 By: [illegible]

Facility
Name : SAUGET AREA#2 SITE Q
Region: COLLINSVILLE
County: ST.CLAIR

Site Inventory # : 1631210001
Site Billing Code: SA06-690
Project Manager : KIM HUBBARD

Laboratory #	Sample I.D.	Sample Date	Sample Time
2263-4	X101	9/2/93	11:05 A

Sample Appearance : See p. 1

Collector Comments:

Sampler Signature : Kim Hubbert Division/Company IEPA/LAND/RPMS

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
	186			TRIPHENYLPHOSPHATE	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Kim Hubbert Signature: Kim Hubbert

Date: 9/2/93 Time: 10:50A Seal #: 8795 Intact?: (Y) N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Kim Hubbert Signature: Kim Hubbert

Date: 9/2/93 Time: 4:05P Seal # 8796

Courier - Sample Pickup: IEPA

Courier - Sample Delivery: IEPA

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. ~~After recording the sample in the official record book~~, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Sheila Kettler Signature: Sheila Kettler

Date: 9/2/93 Time: 1810 Seal #: 8796 Intact?: (Y) / N

Lab Name: ARDL INC. Comments: Cooler temp 11.2°C

IEPA - CLP
CHAIN OF CUSTODY

Seal # 8793

Date Sealed: 9/1/93 By: [illegible]

Facility
Name : SAUGET AREA#2 SITE O
Region: COLLINSVILLE
County: ST.CLAIR

Site Inventory # : 1631210001
Site Billing Code: SA06-690
Project Manager : KIM ~~HUBBARD~~ HUBBERT

Laboratory #	Sample I.D.	Sample Date	Sample Time
2263-4	X101	9/2/93	11:05A

Sample Appearance : Gooey - greenish-gray, stratified var.

Collector Comments:

Sampler Signature : Kim Hubbert Division/Company IEPA/LAND/RPMS

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
1	11	32ozG		TOTAL METALS, CYANIDE,	N		
	12			SULFIDE, SULFATE,			
	13			MERCURY			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Kim Hubbert Signature: Kim Hubbert

Date: 9/2/93 Time: 10:55A Seal #: 8793 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Kim Hubbert Signature: Kim Hubbert

Date: 9/2/93 Time: 5:45P Seal # 8794

Courier - Sample Pickup: IEPA

Courier - Sample Delivery: IEPA

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. ~~After recording the sample in the official record book~~, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Sheila Kettler Signature: Sheila Kettler

Date: 9/2/93 Time: 1810 Seal #: 8794 Intact?: (Y) / N

Lab Name: ARDL INC. Comments: Cooler temp 11.6°C

IEPA - CLP
CHAIN OF CUSTODY

Seal # 8795

Date Sealed: 9/1/93 By: RCM

Facility
Name : SAUGET AREA#2 SITE Q
Region: COLLINSVILLE
County: ST.CLAIR

Site Inventory # : 1631210001
Site Billing Code: SA06-690
Project Manager : KIM ~~HUBBARD~~ Hubbert

Laboratory #	Sample I.D.	Sample Date	Sample Time
22643-5	X102	9-2-93	12:25P

Sample Appearance : Oily Sheen

Collector Comments:

Sampler Signature : Kim Hubbert Division/Company IEPA/LAND/RPMS

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	176	2oz		VOA,ISO-BUTYLKETONE,	P		
	177			ISO-AMYLKETONE,M-XYLENE,			
	178			O-XYLENE,P-XYLENE			
1	179	32oz		BNA,PEST/PCB,4-CHLOROPHENOL,			
	180			2-NITROANILINE,4-NITROANILINE			
	181			2-NITROCHLOROBENZENE,			
	182			4-NITROCHLOROBENZENE,			
	183			2,4-DINITROCHLOROBENZENE,			
	184			3,4-DINITROCHLOROBENZENE,			
	185			4-NITROTHENYLAMINE,			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Kim Hubbert Signature: Kim Hubbert

Date: 9/2/93 Time: 10:50A Seal #: 8795 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Kim Hubbert Signature: Kim Hubbert

Date: 9/2/93 Time: 4:05P Seal # 8796

Courier - Sample Pickup: IEPA

Courier - Sample Delivery: IEPA

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. ~~After recording the sample in the official record book~~, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Sheila Kettler Signature: Sheila Kettler

Date: 9/2/93 Time: 1810 Seal #: 8796 Intact?: (Y) / N

Lab Name: ARDL INC Comments: Cooler temp 10.9°C

IEPA - CLP
CHAIN OF CUSTODY

Seal # 8795

Date Sealed: 9/1/93 By: RCH

Facility
Name : SAUGET AREA#2 SITE Q
Region: COLLINSVILLE
County: ST.CLAIR

Site Inventory # : 1631210001
Site Billing Code: SA06-690
Project Manager : KIM HUBBARD

Laboratory #	Sample I.D.	Sample Date	Sample Time
2263-5	X102	9-2-93	12:25P

Sample Appearance : Oily sheen

Collector Comments:

Sampler Signature : Kim Hubbard Division/Company IEPA/LAND/DPM

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
	186			TRIPHENYLPHOSPHATE	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Kim Hubbard Signature: Kim Hubbard

Date: 9/2/93 Time: 10:50A Seal #: 8795 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Kim Hubbard Signature: Kim Hubbard

Date: 9/2/93 Time: 4:05P Seal # 8796

Courier - Sample Pickup: IEPA

Courier - Sample Delivery: IEPA

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Sheila Kettler Signature: Sheila Kettler

Date: 9/2/93 Time: 1810 Seal #: 8796 Intact?: (Y) / N

Lab Name: ARDL INC. Comments: Cooler Temp 10.9°C

IEPA - CLP
CHAIN OF CUSTODY

Seal # 8793

Date Sealed: 9/1/93 By: Kim

Facility
Name : SAUGET AREA#2 SITE Q
Region: COLLINSVILLE
County: ST.CLAIR

Site Inventory # : 1631210001
Site Billing Code: SA06-690
Project Manager : KIM ~~HUBBARD~~ HUBBERT

Laboratory #	Sample I.D.	Sample Date	Sample Time
2263-5	X102	9/2/93	12:25P

Sample Appearance : Oily Sheen in Excavation

Collector Comments:

Sampler Signature : Kim Hubbert Division/Company IEPA/LAND/RPMS

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
1	11	32ozG		TOTAL METALS, CYANIDE,	N		
	12			SULFIDE, SULFATE,			
	13			MERCURY			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Kim Hubbert Signature: Kim Hubbert

Date: 9/2/93 Time: 10:55A Seal #: 8793 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Kim Hubbert Signature: Kim Hubbert

Date: 9/2/93 Time: 5:45P Seal # 8794

Courier - Sample Pickup: IEPA

Courier - Sample Delivery: IEPA

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. ~~After recording the sample in the official record book~~, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Sheila Kettler Signature: Sheila Kettler

Date: 9/2/93 Time: 1810 Seal #: 8794 Intact?: (Y) / N

Lab Name: ARAL INC. Comments: Cooler temp 11.6°C

IEPA - CLP
CHAIN OF CUSTODY

Seal # 8795

Date Sealed: 9/1/93 By: [illegible]

Facility
Name : SAUGET AREA#2 SITE O
Region: COLLINSVILLE
County: ST.CLAIR

Site Inventory # : 1631210001
Site Billing Code: SA06-690
Project Manager : KIM HUBBARD

Laboratory #	Sample I.D.	Sample Date	Sample Time
2263-6	X103	9/2/93	3:35P

Sample Appearance : Leachate - Rusty color

Collector Comments:

Sampler Signature : Kim Hubbert Division/Company IEPA/LAND/RPMS

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	176	2oz		VOA,ISO-BUTYLKETONE,	N		
	177			ISO-AMYLKETONE,M-XYLENE,			
	178			O-XYLENE,P-XYLENE			
1	179	32oz		BNA,PEST/PCB,4-CHLOROPHENOL,			
	180			2-NITROANILINE,4-NITROANILINE			
	181			2-NITROCHLOROBENZENE,			
	182			4-NITROCHLOROBENZENE,			
	183			2,4-DINITROCHLOROBENZENE,			
	184			3,4-DINITROCHLOROBENZENE,			
	185			4-NITROTHENYLAMINE,			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Kim Hubbert Signature: Kim Hubbert

Date: 9/2/93 Time: 10:50A Seal #: 8795 Intact? (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Kim Hubbert Signature: Kim Hubbert

Date: 9/2/93 Time: 4:05P Seal # 8796

Courier - Sample Pickup: IEPA

Courier - Sample Delivery: IEPA

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Sheila Kettler Signature: Sheila Kettler

Date: 9/2/93 Time: 1810 Seal #: 8796 Intact?: (Y) / N

Lab Name: ARDL INC. Comments: Cooler temp 10.9°C

IEPA - CLP
CHAIN OF CUSTODY

Seal # 8795

Date Sealed: 9/1/93 By: RLM

Facility
Name : SAUGET AREA#2 SITE O
Region: COLLINSVILLE
County: ST.CLAIR

Site Inventory # : 1631210001
Site Billing Code: SA06-690
Project Manager : KIM HUBBARD

Laboratory #	Sample I.D.	Sample Date	Sample Time
2263-6	X103	9/2/93	3:35P.

Sample Appearance : See P.

Collector Comments:

Sampler Signature : Division/Company

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
	186			TRIPHENYLPHOSPHATE	N		

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Kim Hubbert Signature: Kim Hubbert

Date: 9/2/93 Time: 10:50A Seal #: 8795 Intact?: (Y) N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Kim Hubbert Signature: Kim Hubbert

Date: 9/2/93 Time: 4:05P Seal # 8796

Courier - Sample Pickup: IEPA

Courier - Sample Delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Sheila Kettler Signature: Sheila Kettler

Date: 9/2/93 Time: 1810 Seal #: 8796 Intact?: (Y) / N

Lab Name: ARDL INC Comments: Cooler temp 10.9°C

IEPA - CLP
CHAIN OF CUSTODY

Seal # 8793

Date Sealed: 9/1/93 By: [illegible]

Facility
Name : SAUGET AREA#2 SITE Q
Region: COLLINSVILLE
County: ST.CLAIR

Site Inventory # : 1631210001
Site Billing Code: SA06-690
Project Manager : KIM HUBBARD

Laboratory #	Sample I.D.	Sample Date	Sample Time
22636	X103	9/2/93	3:35P

Sample Appearance : Deacrate - Rusty color

Collector Comments:

Sampler Signature : Kim Hubbert Division/Company IEPA/LAND/RPMS

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
1	11	32ozG		TOTAL METALS, CYANIDE,			
	12			SULFIDE, SULFATE,			
	13			MERCURY			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Kim Hubbert Signature: Kim Hubbert

Date: 9/2/93 Time: 10:55A Seal #: 8793 Intact?: (Y) N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Kim Hubbert Signature: Kim Hubbert

Date: 9/2/93 Time: 5:45P Seal # 8794

Courier - Sample Pickup: IEPA

Courier - Sample Delivery: IEPA

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Sheila Kettler Signature: Sheila Kettler

Date: 9/2/93 Time: 1810 Seal #: 8794 Intact?: Y / N

Lab Name: ARDL INC. Comments: Cooler temp 11.6°C

NONPRIORITY POLLUTANT COMPOUND LIST - SAUGET SITES

Volatile Organics

Methyl-iso-butyl ketone
Methyl-isoamyl ketone
m-Xylene
o-Xylene
p-Xylene

Acid Extractable Organics

4-chlorophenol

Base/Neutral Extractable Organics

2-Nitroaniline
4-Nitroaniline
2-Nitrochlorobenzene
4-Nitrochlorobenzene
2,4-Dinitrochlorobenzene
3,4-Dinitrochlorobenzene
4-Nitrophenylamine
Triphenyl Phosphate

IEPA - CLP
CHAIN OF CUSTODY

Seal # 8787

Date Sealed: 9/1/93 By: [illegible]

Facility
Name : SAUGET AREA#2 SITE Q
Region: COLLINSVILLE
County: ST.CLAIR

Site Inventory # : 1631210001
Site Billing Code: SA06-690
Project Manager : KIM HUBBARD

Laboratory #	Sample I.D.	Sample Date	Sample Time
2263-7	Trip BLANK		

Sample Appearance :

Collector Comments:

Sampler Signature : Division/Company

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Preser		(Y/N)	Date	Time
2	15	40ml		TRIP BLANK			

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): Signature:

Date: Time: Seal #: Intact?: Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): Signature:

Date: Time: Seal #

Courier - Sample Pickup:

Courier - Sample Delivery: IEPA

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Sheila Kettler Signature: Sheila Kettler

Date: 9/2/93 Time: 1810 Seal #: 8792 Intact?: (Y) / N

Lab Name: ARDL Comments: Cooler Temp 10.3°C