SAUGET AREA 2
ILD000605790

Reference No. 25

150800

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ARDL Inc.

applied research & development laboratory

CHEMISTRY • BIOLOGY • PHYSIOLOGY
ENGINEERING • ENVIRONMENTAL ANALYSIS

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"Test Everything - Keep The Good" 1 Thes. 5:21

INORGANIC ANALYSIS DATA PACKAGE
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
FACILITY: SAUGET SA 1 & 2
ARDL REPORT NO.: 2343

VOLUME 1 - 1

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ARDL, INC. Contract: 2343

Lab Code: ARDL Case No.: BBE SAS No.: _____ SDG No.: X101

SOW No.: ILM02.0

EPA Sample No.	Lab Sample ID.
X101	2343-1
X101D	2343-1D
X101S	2343-1S
X102	2343-2
X103	2343-3
X104	2343-4
X105	2343-5
X106	2343-6
X107	2343-7
X108	2343-8
X109	2343-9
X110	2343-10
X111	2343-11

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Daniel J. Gillespie Name: Daniel J. Gillespie

Date: 12/7/94 Title: Technical Services Manager

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ARDL, INC. Contract: 2343
Lab Code: ARDL Case No.: BBE SAS No.: _____ SDG No.: X101
SOW No.: ILMO2.0

Case Narrative

Eleven soil samples were received 9 November 1994 for analysis. The requested analysis included TAL (23) metals, cyanide, sulfide and sulfate .

It is policy at ARDL to follow the guidelines set forth in the SOW relating to the minimum time requirements between analytical samples and CCV's or CCB's. In some cases minor exceptions appear on the Form 14's due to: 1) rounding of the actual times to the nearest minute as required on the forms; and 2) the necessity of reprinting a data page when an incorrect limit checking table was employed.

In accordance with the instructions received from Ron Turpin, IEPA, LCS and CRA analyses need not be in each and every analytical run provided that: 1) the operating software automatically recalibrates and continues sample analysis when an out-of-control situation is reached; and 2) the initial run contained valid analyses of these QC solutions. This occurred in the thallium determination of the subject samples.

The level of the CRI standard for lead is 40 ug/L which is twice the instrument detection limit.

Lead results on ICP run dated 16 November 1994 were used as a basis for determining initial dilutions for GFAA analysis.

Duplication for ICP metals was unusually poor (9 of 19 were outside of control limits). In an attempt to confirm whether sample heterogeneity or poor digestion procedures were responsible for the poor duplication, the 'F' digests for samples X101 and X101D were scanned by ICP. The results of this scan and a comparison table are included in the ICP Raw Data section of this report.

Two cyanide distillation batches were used to obtain requisite data. Both batches were quantitated from the same calibration curve and are presented as two separate analytical runs on Forms 1-14.

As the referenced SOW does not contain any provisions for the requested non-metallic analytes, the following methods were employed:

		Detection Limits (ug/L)
Sulfate	Method 300.0	2000
Sulfide	Method 376.1	1000

The non-CLP analytes were analyzed as close to CLP procedures as possible.

INORGANIC DATA QUALIFIERS

FORM I-IN includes fields for three types of result qualifiers. These qualifiers are completed as follows:

C (Concentration) qualifier:

B - Reported value obtained from a reading between the CRDL and IDL.

U - Analyte was analyzed for but not detected.

Q qualifier -- Specified entries and their meanings are as follows:

E - The reported value is estimated because of the presence of interference. This determination is from: 1) ICP serial dilution results exceeding specified limits; or 2) very low (<40%) GFAA post-digestion spike recovery.

M - Duplicate injection precision not met.

N - Spiked sample recovery not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

W - Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.

* - Duplicate analysis not within control limits.

+ - Correlation coefficient for the MSA is less than 0.995.

NOTE: Entering 'S', 'W' or '+' is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

M (Method) qualifier -- Enter:

'P' for ICP
'A' for Flame AA
'F' for Furnace AA
'CV' for manual Cold Vapor AA
'C' for Manual Spectrophotometric

ORGANIC ANALYSIS DATA PACKAGE

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
CONTRACT LABORATORY SERVICES
ORGANIC ANALYSIS DATA PACKAGE

Date: 12/07/94

Lab Name: ARDL, Inc.

ARDL Report No.: 2343

Site Inventory No.: 1630200005

Facility Name: Sauget Site Area 1+2

County: St. Clair

Region: Collinsville

SDG NARRATIVE

IEPA ID No.	Lab ID No.	Volatile Analysis Date
X101	2343-1	11/15/94
X101MS	2343-1MS	11/17/94
X101MSD	2343-1MSD	11/16/94
X101RE	2343-1RE	11/17/94
X102	2343-2	11/15/94
X102RE	2343-2RE	11/16/94
X103	2343-3	11/16/94
X103RE	2343-3RE	11/16/94
X104	2343-4	11/15/94
X104RE	2343-4RE	11/16/94
X105	2343-5	11/15/94
X106	2343-6	11/15/94
X106RE	2343-6RE	11/16/94
X107	2343-7	11/16/94
X108	2343-8	11/16/94
X108RE	2343-8RE	11/17/94
X109	2343-9	11/16/94
X109RE	2343-9RE	11/17/94
X110	2343-10	11/16/94
X110RE	2343-10RE	11/17/94
X111	2343-11	11/16/94
X111RE	2343-11RE	11/17/94
VBLKB1	BK2 11/15/94	11/15/94
VBLKB2	BK2 11/16/94	11/16/94
VBLKB3	BK2 11/17/94	11/17/94

ORGANIC ANALYSIS DATA PACKAGE

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
CONTRACT LABORATORY SERVICES
ORGANIC ANALYSIS DATA PACKAGE

Date: 12/07/94

Lab Name: ARDL, Inc.

ARDL Report No.: 2343

Site Inventory No.: 1630200005

Facility Name: Sauget Site Area 1+2

County: St. Clair

Region: Collinsville

SDG NARRATIVE

IEPA ID No.	Lab ID No.	Semi-Volatile Extr. Date	Semi-Volatile Analysis Date
X101	2343-1	11/18/94	11/30/94
X102	2343-2	11/18/94	11/30/94
X102RE	2343-2RE	11/18/94	11/30/94
X103	2343-3	11/18/94	11/29/94
X104	2343-4	11/18/94	12/02/94
X105	2343-5	11/18/94	11/30/94
X106	2343-6	11/18/94	11/30/94
X107	2343-7	11/18/94	11/30/94
X107MS	2343-7MS	11/18/94	11/30/94
X107MSD	2343-7MSD	11/18/94	11/30/94
X108	2343-8	11/18/94	11/30/94
X109	2343-9	11/18/94	11/30/94
X110	2343-10	11/18/94	11/30/94
X111	2343-11	11/18/94	11/30/94
SBLKE1	BLANK B4163	11/18/94	11/29/94
SBLKF1	BLANK B4163	11/18/94	11/29/94

ORGANIC ANALYSIS DATA PACKAGE

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
CONTRACT LABORATORY SERVICES
ORGANIC ANALYSIS DATA PACKAGE

Date: 12/07/94

Lab Name: ARDL, Inc.

ARDL Report No.: 2343

Site Inventory No.: 1630200005

Facility Name: Sauget Site Area 1+2

County: St. Clair

Region: Collinsville

SDG NARRATIVE

IEPA ID No.	Lab ID No.	Pesticide/PCB Extr. Date	Pesticide/PCB Analysis Date
X101	2343-1	11/16/94	11/24/94
X101DL	2343-1DL	11/16/94	11/24/94
X102	2343-2	11/16/94	11/23/94
X102DL	2343-2DL	11/16/94	11/23/94
X103	2343-3	11/16/94	11/24/94
X103DL	2343-3DL	11/16/94	11/23/94
X104	2343-4	11/16/94	11/23/94
X105	2343-5	11/16/94	11/24/94
X105DL	2343-5DL	11/16/94	11/24/94
X106	2343-6	11/16/94	11/23/94
X107	2343-7	11/16/94	11/24/94
X107DL	2343-7DL	11/16/94	11/24/94
X107MS	2343-7MS	11/16/94	11/24/94
X107MSD	2343-7MSD	11/16/94	11/24/94
X108	2343-8	11/16/94	11/24/94
X108DL	2343-8DL	11/16/94	11/24/94
X109	2343-9	11/16/94	11/23/94
X110	2343-10	11/16/94	11/23/94
X111	2343-11	11/16/94	11/23/94
PBLK59	BLANK B4159	11/16/94	11/23/94

ORGANIC ANALYSIS DATA PACKAGE

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Date: 12/07/94

Lab Name: ARDL, Inc.

ARDL Report No.: 2343

Site Inventory No.: 1630200005

Facility Name: Sauget Site Area 1+2

County: St. Clair

Region: Collinsville

SAMPLE SUMMARY

IEPA NUMBER	ARDL NUMBER	LEVEL LOW	LEVEL MED	FRACTION VOA	FRACTION BNA	FRACTION PEST	FRACTION PCB	FRACTION PNA	MS/ MSD	RPT	DIL.	COMMENTS
X101	2343-1	X		X		X	X					
X101	2343-1	X			X						1:1000	
X101DL	2343-1DL	X				X	X				1:500	
X101MS	2343-1MS	X		X					X			
X101MSD	2343-1MSD	X		X					X			
X101RE	2343-1RE	X		X						X		
X102	2343-2	X		X		X	X					
X102	2343-2	X			X						1:10	
X102DL	2343-2DL	X				X	X				1:5	
X102RE	2343-2RE	X		X						X		
X102RE	2343-2RE	X			X						1:10	
X103	2343-3	X		X		X	X					
X103	2343-3	X			X						1:10	
X103DL	2343-3DL	X				X	X				1:10	
X103RE	2343-3RE	X		X						X		
X104	2343-4	X		X		X	X					
X104	2343-4	X			X						1:50000	
X104RE	2343-4RE	X		X						X		
X105	2343-5	X		X		X	X					
X105	2343-5	X			X						1:10	
X105DL	2343-5DL	X				X	X				1:100	
X106	2343-6	X		X		X	X					
X106	2343-6	X			X						1:250	
X106RE	2343-6RE	X		X						X		
X107	2343-7	X		X	X	X	X					
X107DL	2343-7DL	X				X	X				1:100	
X107MS	2343-7MS	X			X	X	X		X			
X107MSD	2343-7MSD	X			X	X	X		X			
X108	2343-8	X		X		X	X					
X108	2343-8	X			X						1:2	
X108DL	2343-8DL	X				X	X				1:100	
X108RE	2343-8RE	X		X						X		
X109	2343-9	X		X	X	X	X					
X109RE	2343-9RE	X		X						X		
X110	2343-10	X		X	X	X	X					
X110RE	2343-10RE	X		X						X		
X111	2343-11	X		X	X	X	X					
X111RE	2343-11RE	X		X						X		

ORGANIC ANALYSIS DATA PACKAGE

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
CONTRACT LABORATORY SERVICES Date: 12/07/94
ORGANIC ANALYSIS DATA PACKAGE

Lab Name: ARDL, Inc. ARDL Report No.: 2343

Site Inventory No.: 1630200005 Facility Name: Sauget Site Area 1+2

County: St. Clair Region: Collinsville

SAMPLE SUMMARY (Continued)

IEPA NUMBER	ARDL NUMBER	LEVEL LOW	LEVEL MED	FRACTION VOA	FRACTION BNA	FRACTION PEST	FRACTION PCB	FRACTION PNA	MS/ MSD	RPT	DIL.	COMMENTS
VBLKB1	BK2 11/15/94	X		X								METHOD BLK
VBLKB2	BK2 11/16/94	X		X								METHOD BLK
VBLKB3	BK2 11/17/94	X		X								METHOD BLK
PBLK59	2343-B4159	X				X	X					METHOD BLK
SBLKE1	BLANK B4163	X			X							METHOD BLK
SBLKF1	BLANK B4163	X			X							METHOD BLK

ORGANIC ANALYSIS DATA PACKAGE

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
CONTRACT LABORATORY SERVICES
ORGANIC ANALYSIS DATA PACKAGE

Date: 12/07/94

Lab Name: ARDL, Inc.

ARDL Report No.: 2343

Site Inventory No.: 1630200005

Facility Name: Sauget Site Area 1+2

County: St. Clair

Region: Collinsville

SDG NARRATIVE

VOLATILE FRACTION

Eleven (11) soil samples were received by ARDL, Inc. on November 9, 1994, for VOA analysis by GC/MS. All analyses were performed according to low level protocol.

IEPA Samples X102, X103, X104, X106, X108, X109, X110 and X111 failed to meet internal standard area recovery criteria during the initial analyses and reanalyses. Results of both analyses of these samples are reported herein.

IEPA Sample X101 failed to meet internal standard area recovery criteria during the initial analysis. This internal standard area recovery failure trend was also observed in the matrix spike and matrix spike duplicate evaluations of this sample.

IEPA Sample X101 was rerun due to the discrepancy in the concentration of 1,2-Dichloroethene (total) as compared to the matrix spike and matrix spike duplicate. Both analyses are reported herein.

There were no other unusual problems encountered during the sample analyses.

SEMIVOLATILE FRACTION

Eleven (11) soil samples were received by ARDL, Inc. on November 9, 1994, for BNA analysis by GC/MS. All analyses were performed according to low level protocol.

IEPA Samples X104 and X106 would not pass through the GPC pre-filter. A 200 uL aliquot was filtered for each of these samples. This aliquot was diluted to a volume of 10 mL with methylene chloride. This diluted extract was then GPC cleaned up, with a 500 uL final being obtained per protocol.

IEPA Samples X102 and X106 had dilutions performed to get all target compounds within linear calibration range. A large mass of an apparent non-TCL phthalate was present in these samples. This mass was checked at various retention times, with the mass spectrum remaining constant. The entire mass was integrated and a tentative concentration calculated, as found on the Form 1's.

ORGANIC ANALYSIS DATA PACKAGE

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Date: 12/07/94

Lab Name: ARDL, Inc. ARDL Report No.: 2343

Site Inventory No.: 1630200005 Facility Name: Sauget Site Area 1+2

County: St. Clair Region: Collinsville

SDG NARRATIVE (Continued)

SEMIVOLATILE FRACTION (Continued)

IEPA Sample X102 failed internal standard recovery failed in the initial analysis and the reanalysis. Results of both analysis are included herein.

There were no other unusual problems encountered during the sample analyses.

PESTICIDE/PCB FRACTION

Eleven (11) soil samples were received by ARDL, Inc. on November 9, 1994, for Pesticide/PCB analysis. The samples were extracted and concentrated per 3/90 protocol.

IEPA Samples X104 and X106 were extremely viscous. The sample extracts would not pass through the 0.45 um GPC pre-filter. The sample extracts were adjusted to 10 mL and 100 uL of this was diluted to 10 mL, filtered and placed on the GPC. This factored in a 50x dilution for these two samples and was notated as such on the Form 1's of these samples.

All samples were identified and confirmed as containing one or more Aroclor compounds. Identification and quantitation of the target compounds was difficult due to the extreme matrix encountered. Identification of specific Aroclor compounds in the sample extracts was made in general agreement with the confirmation procedures employed by GC/MS. Aroclor identification was made by the use of TIC's search in the BNA data for IEPA Samples X103, X105, X107, X108 and X109. This data can be found in the Semi-Volatile portion of this data package. Confirmation by GC/MS was performed on IEPA Samples X101, X102, X110 and X111 by manually extracting the characteristic ions from the BNA data for each sample. This data is submitted in the Pesticide/PCB portion of this data package. Due to the nature of the extraction performed on IEPA Samples X104 and X106, the concentration of Aroclor compounds in the extracts were too low to be confirmed using GC/MS.

Dilutions were necessary on several samples due to concentration of Aroclor present in the extracts. Surrogate recoveries in these diluted could not be calculated and are so noted. Also, retention time data for the surrogate on Form 8 for these diluted samples were notated at 0.00 because they were not detected.

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Date: 12/07/94

Lab Name: ARDL, Inc. ARDL Report No.: 2343

Site Inventory No.: 1630200005 Facility Name: Sauget Site Area 1+2

County: St. Clair Region: Collinsville

SDG NARRATIVE (Continued)

PESTICIDE/PCB FRACTION (Continued)

The recovery of target compound, DDT, could not be calculated in the matrix spike and matrix spike duplicate samples on the RTx5 column due to the interfering presence of Aroclor compounds present in the sample extract. The PCB compounds completely masked DDT which could not be differentiated from the Aroclor pattern. Dieldrin recovery in the matrix spike and matrix spike duplicate samples was high due to the interfering matrix.

During the sequences used to analyze these samples, two injections of the individual standards were made. This was done as the calibration was run as part of an unattended overnight run, and any bad injection of these standards would have jeopardized the entire calibration.

The MID62 standard initially analyzed in one of the sequences appeared to contain some contamination. This standard was injected overnight. When the analyst reviewed the data the following morning, it was apparent that this standard would not be acceptable. The MIDA62 standard was acceptable when initially analyzed. Another MIDB62 standard from a different standard storage ampule was analyzed immediately that morning. This reanalyzed standard met all criteria and was used to continue the sequence.

No additional problems were encountered in the analyses of these samples.

ORGANIC DATA REPORTING QUALIFIERS

The following organic data reporting qualifiers are used as required.

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.

ORGANIC ANALYSIS DATA PACKAGE

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
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ORGANIC ANALYSIS DATA PACKAGE

Date: 12/07/94

Lab Name: ARDL, Inc.

ARDL Report No.: 2343

Site Inventory No.: 1630200005

Facility Name: Sauget Site Area 1+2

County: St. Clair

Region: Collinsville

SDG NARRATIVE (Continued)

ORGANIC DATA REPORTING QUALIFIERS (Continued)

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a laboratory-defined flag.

B - This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must by used for a TIC as well as for a positively identified target compound.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form 1 for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form 1. The Form 1 for the diluted sample shall have the "DL" suffix appended to the sample number.

ORGANIC ANALYSIS DATA PACKAGE

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Date: 12/07/94

Lab Name: ARDL, Inc.

ARDL Report No.: 2343

Site Inventory No.: 1630200005

Facility Name: Sauget Site Area 1+2

County: St. Clair

Region: Collinsville

SDG NARRATIVE (Continued)

ORGANIC DATA REPORTING QUALIFIERS (Continued)

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form 1 for the diluted sample, and all concentration values reported on that Form 1 are flagged with the "D" flag.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized for the Laboratory Manager or his designee, as verified by the following signature.

Daniel J. Gillespie
Technical Services Manager

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ARDL, INC. Contract No.: 2343

Lab Code: ARDL Case No.: BBE SAS No.: _____ SDG No.: X101

Matrix (soil/water) SOIL Lab Sample ID: 2343-1

Level (low/med): LOW Date Received: 11/09/94

% Solids: 74.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10700		*	P
7440-36-0	Antimony	157		N *	P
7440-38-2	Arsenic	13.7		N * S	F
7440-39-3	Barium	1220		N *	P
7440-41-7	Beryllium	0.54	B		P
7440-43-9	Cadmium	2260		*	P
7440-70-2	Calcium	13400			P
7440-47-3	Chromium	3650		*	P
7440-48-4	Cobalt	18.7			P
7440-50-8	Copper	324			P
7439-89-6	Iron	63500		*	P
7439-92-1	Lead	7690		*	P
7439-95-4	Magnesium	2940			P
7439-96-5	Manganese	606			P
7439-97-6	Mercury	4.9			CV
7440-02-0	Nickel	153		N *	P
7440-09-7	Potassium	1310	B		P
7782-49-2	Selenium	59.9		* S	F
7440-22-4	Silver	3.3		N	P
7440-23-5	Sodium	268	B		P
7440-28-0	Thallium	0.27	U		F
7440-62-2	Vanadium	7.3	B		P
7440-66-6	Zinc	7290		*	P
	Cyanide	3.3			C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments: PEBBLES, LEAVES AND ROOTS

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ARDL, INC. Contract: 2343

Lab Code: ARDL Case No.: BBE SAS No.: _____ SDG No.: X101

Matrix (soil/water): SOIL Lab Sample ID: 2343-1

Level (low/med): LOW Date Received: 11/09/94

% Solids: 74.2

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

CAS No.	Analyte	Concentration	C	Q	M
	Sulfate	82.4			
	Sulfide	26.9	U		

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ARDL, INC. Contract No.: 2343

Lab Code: ARDL Case No.: BBE SAS No.: _____ SDG No.: X101

Matrix (soil/water) SOIL Lab Sample ID: 2343-2

Level (low/med): LOW Date Received: 11/09/94

% Solids: 77.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5710		*	P
7440-36-0	Antimony	5.2	U	N *	P
7440-38-2	Arsenic	1.4	B	N * S	F
7440-39-3	Barium	141		N *	P
7440-41-7	Beryllium	0.49	B		P
7440-43-9	Cadmium	3.9		*	P
7440-70-2	Calcium	18000			P
7440-47-3	Chromium	12.1		*	P
7440-48-4	Cobalt	7.4	B		P
7440-50-8	Copper	18.7			P
7439-89-6	Iron	11600		*	P
7439-92-1	Lead	152		*	P
7439-95-4	Magnesium	4250			P
7439-96-5	Manganese	372			P
7439-97-6	Mercury	0.13	U		CV
7440-02-0	Nickel	17.6		N *	P
7440-09-7	Potassium	1030	B		P
7782-49-2	Selenium	0.26	U	* W	F
7440-22-4	Silver	1.3	U	N	P
7440-23-5	Sodium	233	U		P
7440-28-0	Thallium	0.26	U		F
7440-62-2	Vanadium	16.0			P
7440-66-6	Zinc	689		*	P
	Cyanide	0.61	U		C

Color Before: GRAY/BROW Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments: PEBBLES, LEAVES AND ROOTS

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

Lab Name: ARDL, INC. Contract: 2343

Lab Code: ARDL Case No.: BBE SAS No.: _____ SDG No.: X101

Matrix (soil/water): SOIL Lab Sample ID: 2343-2

Level (low/med): LOW Date Received: 11/09/94

% Solids: 77.2

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

CAS No.	Analyte	Concentration	C	Q	M
	Sulfate	51.4	U		
	Sulfide	25.5	U		

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.: 2343

Lab Code: ARDL Case No.: BBE SAS No.: _____ SDG No.: X101

Matrix (soil/water) SOIL Lab Sample ID: 2343-3

Level (low/med): LOW Date Received: 11/09/94

% Solids: 74.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3240		*	P
7440-36-0	Antimony	17900		N *	P
7440-38-2	Arsenic	216		N * S	F
7440-39-3	Barium	1680		N *	P
7440-41-7	Beryllium	0.30	B		P
7440-43-9	Cadmium	8.7		*	P
7440-70-2	Calcium	10300			P
7440-47-3	Chromium	142		*	P
7440-48-4	Cobalt	13.3	B		P
7440-50-8	Copper	1630			P
7439-89-6	Iron	80500		*	P
7439-92-1	Lead	195000		*	P
7439-95-4	Magnesium	1350			P
7439-96-5	Manganese	1270			P
7439-97-6	Mercury	0.25			CV
7440-02-0	Nickel	101		N *	P
7440-09-7	Potassium	446	B		P
7782-49-2	Selenium	1.3	U	* E	F
7440-22-4	Silver	30.2		N	P
7440-23-5	Sodium	242	U		P
7440-28-0	Thallium	0.89	B		F
7440-62-2	Vanadium	1.3	U		P
7440-66-6	Zinc	9520		*	P
	Cyanide	2.8			C

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments: PEBBLES, LEAVES AND ROOTS

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

X103

Lab Name: ARDL, INC. Contract: 2343

Lab Code: ARDL Case No.: BBE SAS No.: _____ SDG No.: X101

Matrix (soil/water): SOIL Lab Sample ID: 2343-3

Level (low/med): LOW Date Received: 11/09/94

% Solids: 74.4

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

CAS No.	Analyte	Concentration	C	Q	M
	Sulfate	55.9			
	Sulfide	26.7	U		

Color Before: _____ Clarity Before: _____ Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments:

VOLATILES ANALYSIS DATA PACKAGE
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
FACILITY NAME: SAUGET SA 1 & 2
ARDL REPORT NO.: 2343

VOLUME 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ARDL, INC. Contract: SAUGET SA 1&2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X101

Matrix: (soil/water) SOIL Lab Sample ID: 2343-1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D0741

Level: (low/med) LOW Date Received: 11/09/94

% Moisture: not dec. 26 Date Analyzed: 11/15/94

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/KG	Q
74-87-3	Chloromethane	14.	U
74-83-9	Bromomethane	14.	U
75-01-4	Vinyl Chloride	14.	U
75-00-3	Chloroethane	14.	U
75-09-2	Methylene Chloride	15.	
67-64-1	Acetone	14.	U
75-15-0	Carbon Disulfide	14.	U
75-35-4	1,1-Dichloroethene	14.	U
75-34-3	1,1-Dichloroethane	24.	
540-59-0	1,2-Dichloroethene (total)	240.	
67-66-3	Chloroform	14.	U
107-06-2	1,2-Dichloroethane	14.	U
78-93-3	2-Butanone	14.	U
71-55-6	1,1,1-Trichloroethane	10.	J
56-23-5	Carbon Tetrachloride	14.	U
75-27-4	Bromodichloromethane	14.	U
78-87-5	1,2-Dichloropropane	14.	U
10061-01-5	cis-1,3-Dichloropropene	14.	U
79-01-6	Trichloroethene	6.	J
124-48-1	Dibromochloromethane	14.	U
79-00-5	1,1,2-Trichloroethane	14.	U
71-43-2	Benzene	5.	J
10061-02-6	trans-1,3-Dichloropropene	14.	U
75-25-2	Bromoform	14.	U
108-10-1	4-Methyl-2-Pentanone	14.	U
591-78-6	2-Hexanone	14.	U
127-18-4	Tetrachloroethene	14.	U
79-34-5	1,1,2,2-Tetrachloroethane	14.	U
108-88-3	Toluene	8.	J
108-90-7	Chlorobenzene	14.	U
100-41-4	Ethylbenzene	14.	U
100-42-5	Styrene	14.	U
1330-20-7	Xylene (total)	14.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X102

ab Name: ARDL, INC. Contract: SAUGET SA 1&2

ab Code: --- Case No.: --- SAS No.: --- SDG No.: X101

atrix: (soil/water) SOIL Lab Sample ID: 2343-2

ample wt/vol: 5.0 (g/mL) G Lab File ID: >D0742

evel: (low/med) LOW Date Received: 11/09/94

Moisture: not dec. 23 Date Analyzed: 11/15/94

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	13.	U
74-83-9	Bromomethane	13.	U
75-01-4	Vinyl Chloride	13.	U
75-00-3	Chloroethane	13.	U
75-09-2	Methylene Chloride	6.	J
67-64-1	Acetone	13.	U
75-15-0	Carbon Disulfide	13.	U
75-35-4	1,1-Dichloroethene	13.	U
75-34-3	1,1-Dichloroethane	13.	U
540-59-0	1,2-Dichloroethene (total)	13.	U
67-66-3	Chloroform	10.	J
107-06-2	1,2-Dichloroethane	13.	U
78-93-3	2-Butanone	13.	U
71-55-6	1,1,1-Trichloroethane	13.	U
56-23-5	Carbon Tetrachloride	13.	U
75-27-4	Bromodichloromethane	13.	U
78-87-5	1,2-Dichloropropane	13.	U
10061-01-5	cis-1,3-Dichloropropene	13.	U
79-01-6	Trichloroethene	13.	U
124-48-1	Dibromochloromethane	13.	U
79-00-5	1,1,2-Trichloroethane	13.	U
71-43-2	Benzene	13.	U
10061-02-6	trans-1,3-Dichloropropene	13.	U
75-25-2	Bromoform	13.	U
108-10-1	4-Methyl-2-Pentanone	13.	U
591-78-6	2-Hexanone	13.	U
127-18-4	Tetrachloroethene	13.	U
79-34-5	1,1,2,2-Tetrachloroethane	13.	U
108-88-3	Toluene	13.	U
108-90-7	Chlorobenzene	13.	U
100-41-4	Ethylbenzene	13.	U
100-42-5	Styrene	13.	U
1330-20-7	Xylene (total)	13.	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X105

ab Name: ARDL, INC. Contract: SAUGET SA 1&2

ab Code: --- Case No.: --- SAS No.: --- SDG No.: X101

latrix: (soil/water) SOIL Lab Sample ID: 2343-5

ample wt/vol: 5.0 (g/mL) G Lab File ID: >D0745

evel: (low/med) LOW Date Received: 11/09/94

Moisture: not dec. 24 Date Analyzed: 11/15/94

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	13.	U
74-83-9	Bromomethane	13.	U
75-01-4	Vinyl Chloride	13.	U
75-00-3	Chloroethane	13.	U
75-09-2	Methylene Chloride	5.	J
67-64-1	Acetone	27.	
75-15-0	Carbon Disulfide	13.	U
75-35-4	1,1-Dichloroethene	13.	U
75-34-3	1,1-Dichloroethane	13.	U
540-59-0	1,2-Dichloroethene (total)	13.	U
67-66-3	Chloroform	13.	U
107-06-2	1,2-Dichloroethane	13.	U
78-93-3	2-Butanone	13.	U
71-55-6	1,1,1-Trichloroethane	13.	U
56-23-5	Carbon Tetrachloride	13.	U
75-27-4	Bromodichloromethane	13.	U
78-87-5	1,2-Dichloropropane	13.	U
10061-01-5	cis-1,3-Dichloropropene	13.	U
79-01-6	Trichloroethene	13.	U
124-48-1	Dibromochloromethane	13.	U
79-00-5	1,1,2-Trichloroethane	13.	U
71-43-2	Benzene	13.	U
10061-02-6	trans-1,3-Dichloropropene	13.	U
75-25-2	Bromoform	13.	U
108-10-1	4-Methyl-2-Pentanone	13.	U
591-78-6	2-Hexanone	13.	U
127-18-4	Tetrachloroethene	5.	J
79-34-5	1,1,2,2-Tetrachloroethane	13.	U
108-88-3	Toluene	14.	
108-90-7	Chlorobenzene	13.	U
100-41-4	Ethylbenzene	13.	U
100-42-5	Styrene	13.	U
1330-20-7	Xylene (total)	14.	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X106

Lab Name: ARDL, INC. Contract: SAUGET SA 1&2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X101

Matrix: (soil/water) SOIL Lab Sample ID: 2343-6

Sample wt/vol: 5.0 (g/mL) G Lab File ID: >D0749

Level: (low/med) LOW Date Received: 11/09/94

% Moisture: not dec. 20 Date Analyzed: 11/15/94

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/KG	Q
74-87-3	Chloromethane	12.	U
74-83-9	Bromomethane	12.	U
75-01-4	Vinyl Chloride	12.	U
75-00-3	Chloroethane	12.	U
75-09-2	Methylene Chloride	12.	U
67-64-1	Acetone	12.	U
75-15-0	Carbon Disulfide	12.	U
75-35-4	1,1-Dichloroethene	12.	U
75-34-3	1,1-Dichloroethane	12.	U
540-59-0	1,2-Dichloroethene (total)	12.	U
67-66-3	Chloroform	12.	U
107-06-2	1,2-Dichloroethane	12.	U
78-93-3	2-Butanone	12.	U
71-55-6	1,1,1-Trichloroethane	18.	
56-23-5	Carbon Tetrachloride	12.	U
75-27-4	Bromodichloromethane	12.	U
78-87-5	1,2-Dichloropropane	12.	U
10061-01-5	cis-1,3-Dichloropropene	12.	U
79-01-6	Trichloroethene	12.	U
124-48-1	Dibromochloromethane	12.	U
79-00-5	1,1,2-Trichloroethane	12.	U
71-43-2	Benzene	12.	U
10061-02-6	trans-1,3-Dichloropropene	12.	U
75-25-2	Bromoform	12.	U
108-10-1	4-Methyl-2-Pentanone	12.	U
591-78-6	2-Hexanone	12.	U
127-18-4	Tetrachloroethene	12.	U
79-34-5	1,1,2,2-Tetrachloroethane	12.	U
108-88-3	Toluene	12.	U
108-90-7	Chlorobenzene	12.	U
100-41-4	Ethylbenzene	12.	U
100-42-5	Styrene	12.	U
1330-20-7	Xylene (total)	12.	U

SEMI-VOLATILES ANALYSIS DATA PACKAGE
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
FACILITY NAME: SAUGET 1 & 2
ARDL REPORT NO. 2343

VOLUME 4-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ARDL, INC. Contract: SAUGET SA 1 & 2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X101

Matrix: (soil/water) SOIL Lab Sample ID: 2343-4

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >M7294

Level: (low/med) LOW Date Received: 11/09/94

% Moisture: 28 decanted: (Y/N) N Date Extracted: 11/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/94

Injection Volume: 2.0 (uL) Dilution Factor: 50000.0

GPC Cleanup: (Y/N) Y pH: 6.7 Conversion Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	23000000.	U
111-44-4	bis(2-Chloroethyl)ether	23000000.	U
95-57-8	2-Chlorophenol	23000000.	U
541-73-1	1,3-Dichlorobenzene	23000000.	U
106-46-7	1,4-Dichlorobenzene	23000000.	U
95-50-1	1,2-Dichlorobenzene	23000000.	U
95-48-7	2-Methylphenol	23000000.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	23000000.	U
106-44-5	4-Methylphenol	23000000.	U
621-64-7	N-Nitroso-Di-n-propylamine	23000000.	U
67-72-1	Hexachloroethane	23000000.	U
98-95-3	Nitrobenzene	23000000.	U
78-59-1	Isophorone	23000000.	U
88-75-5	2-Nitrophenol	23000000.	U
105-67-9	2,4-Dimethylphenol	23000000.	U
111-91-1	bis(2-Chloroethoxy)methane	23000000.	U
120-83-2	2,4-Dichlorophenol	23000000.	U
120-82-1	1,2,4-Trichlorobenzene	23000000.	U
91-20-3	Naphthalene	23000000.	U
106-47-8	4-Chloroaniline	23000000.	U
87-68-3	Hexachlorobutadiene	23000000.	U
59-50-7	4-Chloro-3-methylphenol	23000000.	U
91-57-6	2-Methylnaphthalene	23000000.	U
77-47-4	Hexachlorocyclopentadiene	23000000.	U
88-06-2	2,4,6-Trichlorophenol	23000000.	U
95-95-4	2,4,5-Trichlorophenol	56000000.	U
91-58-7	2-Chloronaphthalene	23000000.	U
88-74-4	2-Nitroaniline	56000000.	U
131-11-3	Dimethylphthalate	23000000.	U
208-96-8	Acenaphthylene	23000000.	U
606-20-2	2,6-Dinitrotoluene	23000000.	U
99-09-2	3-Nitroaniline	56000000.	U
83-32-9	Acenaphthene	23000000.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X104

Lab Name: ARDL, INC. Contract: SAUGET SA 1 & 2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X101

Matrix: (soil/water) SOIL Lab Sample ID: 2343-4

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >M7294

Level: (low/med) LOW Date Received: 11/09/94

% Moisture: 28 decanted: (Y/N) N Date Extracted: 11/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 12/02/94

Injection Volume: 2.0 (uL) Dilution Factor: 50000.0

GPC Cleanup: (Y/N) Y pH: 6.7 Conversion Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	56000000.	U
100-02-7	4-Nitrophenol	56000000.	U
132-64-9	Dibenzofuran	23000000.	U
121-14-2	2,4-Dinitrotoluene	23000000.	U
84-66-2	Diethylphthalate	23000000.	U
7005-72-3	4-Chlorophenyl-phenylether	23000000.	U
86-73-7	Fluorene	23000000.	U
100-01-6	4-Nitroaniline	56000000.	U
534-52-1	4,6-Dinitro-2-methylphenol	56000000.	U
86-30-6	N-Nitrosodiphenylamine (1)	23000000.	U
101-55-3	4-Bromophenyl-phenylether	23000000.	U
118-74-1	Hexachlorobenzene	23000000.	U
87-86-5	Pentachlorophenol	56000000.	U
85-01-8	Phenanthrene	23000000.	U
120-12-7	Anthracene	23000000.	U
86-74-8	Carbazole	23000000.	U
84-74-2	Di-n-butylphthalate	23000000.	U
206-44-0	Fluoranthene	23000000.	U
129-00-0	Pyrene	23000000.	U
85-68-7	Butylbenzylphthalate	23000000.	U
91-94-1	3,3'-Dichlorobenzidine	23000000.	U
56-55-3	Benzo(a)anthracene	23000000.	U
218-01-9	Chrysene	23000000.	U
117-81-7	bis(2-Ethylhexyl)phthalate	110000000.	B
117-84-0	Di-n-octylphthalate	23000000.	U
205-99-2	Benzo(b)fluoranthene	23000000.	U
207-08-9	Benzo(k)fluoranthene	23000000.	U
50-32-8	Benzo(a)pyrene	23000000.	U
193-39-5	Indeno(1,2,3-cd)pyrene	23000000.	U
53-70-3	Dibenz(a,h)anthracene	23000000.	U
191-24-2	Benzo(g,h,i)perylene	23000000.	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ARDL, INC. Contract: SAUGET SA 1 & 2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X101

Matrix: (soil/water) SOIL Lab Sample ID: 2343-7

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >W4083

Level: (low/med) LOW Date Received: 11/09/94

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Conversion Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	430.	U
111-44-4	bis(2-Chloroethyl)ether	430.	U
95-57-8	2-Chlorophenol	430.	U
541-73-1	1,3-Dichlorobenzene	430.	U
106-46-7	1,4-Dichlorobenzene	430.	U
95-50-1	1,2-Dichlorobenzene	430.	U
95-48-7	2-Methylphenol	270.	J
108-60-1	2,2'-oxybis(1-Chloropropane)	430.	U
106-44-5	4-Methylphenol	280.	J
621-64-7	N-Nitroso-Di-n-propylamine	430.	U
67-72-1	Hexachloroethane	430.	U
98-95-3	Nitrobenzene	430.	U
78-59-1	Isophorone	210.	J
88-75-5	2-Nitrophenol	430.	U
105-67-9	2,4-Dimethylphenol	270.	J
111-91-1	bis(2-Chloroethoxy)methane	430.	U
120-83-2	2,4-Dichlorophenol	430.	U
120-82-1	1,2,4-Trichlorobenzene	430.	U
91-20-3	Naphthalene	430.	U
106-47-8	4-Chloroaniline	430.	U
87-68-3	Hexachlorobutadiene	430.	U
59-50-7	4-Chloro-3-methylphenol	430.	U
91-57-6	2-Methylnaphthalene	430.	U
77-47-4	Hexachlorocyclopentadiene	430.	U
88-06-2	2,4,6-Trichlorophenol	430.	U
95-95-4	2,4,5-Trichlorophenol	1000.	U
91-58-7	2-Chloronaphthalene	430.	U
88-74-4	2-Nitroaniline	1000.	U
131-11-3	Dimethylphthalate	430.	U
208-96-8	Acenaphthylene	430.	U
606-20-2	2,6-Dinitrotoluene	430.	U
99-09-2	3-Nitroaniline	1000.	U
83-32-9	Acenaphthene	430.	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ARDL, INC. Contract: SAUGET SA 1 & 2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X101

Matrix: (soil/water) SOIL Lab Sample ID: 2343-7

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >W4083

Level: (low/med) LOW Date Received: 11/09/94

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Conversion Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000.	U
100-02-7	4-Nitrophenol	1000.	U
132-64-9	Dibenzofuran	430.	U
121-14-2	2,4-Dinitrotoluene	430.	U
84-66-2	Diethylphthalate	430.	U
7005-72-3	4-Chlorophenyl-phenylether	430.	U
86-73-7	Fluorene	430.	U
100-01-6	4-Nitroaniline	1000.	U
534-52-1	4,6-Dinitro-2-methylphenol	1000.	U
86-30-6	N-Nitrosodiphenylamine (1)	430.	U
101-55-3	4-Bromophenyl-phenylether	430.	U
118-74-1	Hexachlorobenzene	430.	U
87-86-5	Pentachlorophenol	1000.	U
85-01-8	Phenanthrene	430.	U
120-12-7	Anthracene	430.	U
86-74-8	Carbazole	430.	U
84-74-2	Di-n-butylphthalate	430.	U
206-44-0	Fluoranthene	430.	U
129-00-0	Pyrene	430.	U
85-68-7	Butylbenzylphthalate	120.	J
91-94-1	3,3'-Dichlorobenzidine	430.	U
56-55-3	Benzo(a)anthracene	430.	U
218-01-9	Chrysene	430.	U
117-81-7	bis(2-Ethylhexyl)phthalate	1900.	B
117-84-0	Di-n-octylphthalate	430.	U
205-99-2	Benzo(b)fluoranthene	430.	U
207-08-9	Benzo(k)fluoranthene	430.	U
50-32-8	Benzo(a)pyrene	430.	U
193-39-5	Indeno(1,2,3-cd)pyrene	430.	U
53-70-3	Dibenz(a,h)anthracene	430.	U
191-24-2	Benzo(g,h,i)perylene	430.	U

(1) - Cannot be separated from Diphenylamine

SEMI-VOLATILES ANALYSIS DATA PACKAGE
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
FACILITY NAME: SAUGET 1 & 2
ARDL REPORT NO. 2343

VOLUME 4-2

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ARDL, INC. Contract: SAUGET SA 1 & 2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X101

Matrix: (soil/water) SOIL Lab Sample ID: 2343-9

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >W4087

Level: (low/med) LOW Date Received: 11/09/94

% Moisture: 27 decanted: (Y/N) N Date Extracted: 11/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.6 Conversion Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	450.	U
111-44-4	bis(2-Chloroethyl)ether	450.	U
95-57-8	2-Chlorophenol	450.	U
541-73-1	1,3-Dichlorobenzene	450.	U
106-46-7	1,4-Dichlorobenzene	450.	U
95-50-1	1,2-Dichlorobenzene	450.	U
95-48-7	2-Methylphenol	450.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	450.	U
106-44-5	4-Methylphenol	450.	U
621-64-7	N-Nitroso-Di-n-propylamine	450.	U
67-72-1	Hexachloroethane	450.	U
98-95-3	Nitrobenzene	450.	U
78-59-1	Isophorone	450.	U
88-75-5	2-Nitrophenol	450.	U
105-67-9	2,4-Dimethylphenol	450.	U
111-91-1	bis(2-Chloroethoxy)methane	450.	U
120-83-2	2,4-Dichlorophenol	450.	U
120-82-1	1,2,4-Trichlorobenzene	450.	U
91-20-3	Naphthalene	450.	U
106-47-8	4-Chloroaniline	450.	U
87-68-3	Hexachlorobutadiene	450.	U
59-50-7	4-Chloro-3-methylphenol	450.	U
91-57-6	2-Methylnaphthalene	450.	U
77-47-4	Hexachlorocyclopentadiene	450.	U
88-06-2	2,4,6-Trichlorophenol	450.	U
95-95-4	2,4,5-Trichlorophenol	1100.	U
91-58-7	2-Chloronaphthalene	450.	U
88-74-4	2-Nitroaniline	1100.	U
131-11-3	Dimethylphthalate	450.	U
208-96-8	Acenaphthylene	450.	U
606-20-2	2,6-Dinitrotoluene	450.	U
99-09-2	3-Nitroaniline	1100.	U
83-32-9	Acenaphthene	450.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X109

Lab Name: ARDL, INC. Contract: SAUGET SA 1 & 2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X101

Matrix: (soil/water) SOIL Lab Sample ID: 2343-9

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >W4087

Level: (low/med) LOW Date Received: 11/09/94

% Moisture: 27 decanted: (Y/N) N Date Extracted: 11/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.6 Conversion Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100.	U
100-02-7	4-Nitrophenol	1100.	U
132-64-9	Dibenzofuran	450.	U
121-14-2	2,4-Dinitrotoluene	450.	U
84-66-2	Diethylphthalate	450.	U
7005-72-3	4-Chlorophenyl-phenylether	450.	U
86-73-7	Fluorene	450.	U
100-01-6	4-Nitroaniline	1100.	U
534-52-1	4,6-Dinitro-2-methylphenol	1100.	U
86-30-6	N-Nitrosodiphenylamine (1)	450.	U
101-55-3	4-Bromophenyl-phenylether	450.	U
118-74-1	Hexachlorobenzene	450.	U
87-86-5	Pentachlorophenol	1100.	U
85-01-8	Phenanthrene	76.	J
120-12-7	Anthracene	450.	U
86-74-8	Carbazole	450.	U
84-74-2	Di-n-butylphthalate	310.	J
206-44-0	Fluoranthene	160.	J
129-00-0	Pyrene	170.	J
85-68-7	Butylbenzylphthalate	450.	U
91-94-1	3,3'-Dichlorobenzidine	450.	U
56-55-3	Benzo(a)anthracene	89.	J
218-01-9	Chrysene	110.	J
117-81-7	bis(2-Ethylhexyl)phthalate	310.	JB
117-84-0	Di-n-octylphthalate	450.	U
205-99-2	Benzo(b)fluoranthene	87.	J
207-08-9	Benzo(k)fluoranthene	96.	J
50-32-8	Benzo(a)pyrene	84.	J
193-39-5	Indeno(1,2,3-cd)pyrene	450.	U
53-70-3	Dibenz(a,h)anthracene	450.	U
191-24-2	Benzo(g,h,i)perylene	450.	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

Lab Name: ARDL, INC. Contract: SAUGET SA 1 & 2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X101

Matrix: (soil/water) SOIL Lab Sample ID: 2343-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >W4088

Level: (low/med) LOW Date Received: 11/09/94

% Moisture: 29 decanted: (Y/N) N Date Extracted: 11/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.7 Conversion Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	460.	U
111-44-4	bis(2-Chloroethyl)ether	460.	U
95-57-8	2-Chlorophenol	460.	U
541-73-1	1,3-Dichlorobenzene	460.	U
106-46-7	1,4-Dichlorobenzene	460.	U
95-50-1	1,2-Dichlorobenzene	460.	U
95-48-7	2-Methylphenol	460.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460.	U
106-44-5	4-Methylphenol	460.	U
621-64-7	N-Nitroso-Di-n-propylamine	460.	U
67-72-1	Hexachloroethane	460.	U
98-95-3	Nitrobenzene	460.	U
78-59-1	Isophorone	460.	U
88-75-5	2-Nitrophenol	460.	U
105-67-9	2,4-Dimethylphenol	460.	U
111-91-1	bis(2-Chloroethoxy)methane	460.	U
120-83-2	2,4-Dichlorophenol	460.	U
120-82-1	1,2,4-Trichlorobenzene	460.	U
91-20-3	Naphthalene	460.	U
106-47-8	4-Chloroaniline	460.	U
87-68-3	Hexachlorobutadiene	460.	U
59-50-7	4-Chloro-3-methylphenol	460.	U
91-57-6	2-Methylnaphthalene	460.	U
77-47-4	Hexachlorocyclopentadiene	460.	U
88-06-2	2,4,6-Trichlorophenol	460.	U
95-95-4	2,4,5-Trichlorophenol	1100.	U
91-58-7	2-Chloronaphthalene	460.	U
88-74-4	2-Nitroaniline	1100.	U
131-11-3	Dimethylphthalate	460.	U
208-96-8	Acenaphthylene	460.	U
606-20-2	2,6-Dinitrotoluene	460.	U
99-09-2	3-Nitroaniline	1100.	U
83-32-9	Acenaphthene	460.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X110

Lab Name: ARDL, INC. Contract: SAUGET SA 1 & 2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X101

Matrix: (soil/water) SOIL Lab Sample ID: 2343-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >W4088

Level: (low/med) LOW Date Received: 11/09/94

% Moisture: 29 decanted: (Y/N) N Date Extracted: 11/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 3.7 Conversion Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100.	U
100-02-7	4-Nitrophenol	1100.	U
132-64-9	Dibenzofuran	460.	U
121-14-2	2,4-Dinitrotoluene	460.	U
84-66-2	Diethylphthalate	460.	U
7005-72-3	4-Chlorophenyl-phenylether	460.	U
86-73-7	Fluorene	460.	U
100-01-6	4-Nitroaniline	1100.	U
534-52-1	4,6-Dinitro-2-methylphenol	1100.	U
86-30-6	N-Nitrosodiphenylamine (1)	460.	U
101-55-3	4-Bromophenyl-phenylether	460.	U
118-74-1	Hexachlorobenzene	460.	U
87-86-5	Pentachlorophenol	1100.	U
85-01-8	Phenanthrene	460.	U
120-12-7	Anthracene	460.	U
86-74-8	Carbazole	460.	U
84-74-2	Di-n-butylphthalate	380.	J
206-44-0	Fluoranthene	460.	U
129-00-0	Pyrene	460.	U
85-68-7	Butylbenzylphthalate	460.	U
91-94-1	3,3'-Dichlorobenzidine	460.	U
56-55-3	Benzo(a)anthracene	460.	U
218-01-9	Chrysene	460.	U
117-81-7	bis(2-Ethylhexyl)phthalate	1000.	B
117-84-0	Di-n-octylphthalate	460.	U
205-99-2	Benzo(b)fluoranthene	460.	U
207-08-9	Benzo(k)fluoranthene	460.	U
50-32-8	Benzo(a)pyrene	460.	U
193-39-5	Indeno(1,2,3-cd)pyrene	460.	U
53-70-3	Dibenz(a,h)anthracene	460.	U
191-24-2	Benzo(g,h,i)perylene	460.	U

(1) - Cannot be separated from Diphenylamine

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X111

Lab Name: ARDL, INC. Contract: SAUGET SA 1 & 2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X101

Matrix: (soil/water) SOIL Lab Sample ID: 2343-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >W4089

Level: (low/med) LOW Date Received: 11/09/94

% Moisture: 29 decanted: (Y/N) N Date Extracted: 11/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8 Conversion Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	460.	U
111-44-4	bis(2-Chloroethyl)ether	460.	U
95-57-8	2-Chlorophenol	460.	U
541-73-1	1,3-Dichlorobenzene	460.	U
106-46-7	1,4-Dichlorobenzene	460.	U
95-50-1	1,2-Dichlorobenzene	460.	U
95-48-7	2-Methylphenol	460.	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460.	U
106-44-5	4-Methylphenol	460.	U
621-64-7	N-Nitroso-Di-n-propylamine	460.	U
67-72-1	Hexachloroethane	460.	U
98-95-3	Nitrobenzene	460.	U
78-59-1	Isophorone	460.	U
88-75-5	2-Nitrophenol	460.	U
105-67-9	2,4-Dimethylphenol	460.	U
111-91-1	bis(2-Chloroethoxy)methane	460.	U
120-83-2	2,4-Dichlorophenol	460.	U
120-82-1	1,2,4-Trichlorobenzene	460.	U
91-20-3	Naphthalene	460.	U
106-47-8	4-Chloroaniline	460.	U
87-68-3	Hexachlorobutadiene	460.	U
59-50-7	4-Chloro-3-methylphenol	460.	U
91-57-6	2-Methylnaphthalene	460.	U
77-47-4	Hexachlorocyclopentadiene	460.	U
88-06-2	2,4,6-Trichlorophenol	460.	U
95-95-4	2,4,5-Trichlorophenol	1100.	U
91-58-7	2-Chloronaphthalene	460.	U
88-74-4	2-Nitroaniline	1100.	U
131-11-3	Dimethylphthalate	460.	U
208-96-8	Acenaphthylene	460.	U
606-20-2	2,6-Dinitrotoluene	460.	U
99-09-2	3-Nitroaniline	1100.	U
83-32-9	Acenaphthene	460.	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X111

Lab Name: ARDL, INC. Contract: SAUGET SA 1 & 2

Lab Code: --- Case No.: --- SAS No.: --- SDG No.: X101

Matrix: (soil/water) SOIL Lab Sample ID: 2343-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: >W4089

Level: (low/med) LOW Date Received: 11/09/94

% Moisture: 29 decanted: (Y/N) N Date Extracted: 11/18/94

Concentrated Extract Volume: 500.0 (uL) Date Analyzed: 11/30/94

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.8 Conversion Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100.	U
100-02-7	4-Nitrophenol	1100.	U
132-64-9	Dibenzofuran	460.	U
121-14-2	2,4-Dinitrotoluene	460.	U
84-66-2	Diethylphthalate	460.	U
7005-72-3	4-Chlorophenyl-phenylether	460.	U
86-73-7	Fluorene	460.	U
100-01-6	4-Nitroaniline	1100.	U
534-52-1	4,6-Dinitro-2-methylphenol	1100.	U
86-30-6	N-Nitrosodiphenylamine (1)	460.	U
101-55-3	4-Bromophenyl-phenylether	460.	U
118-74-1	Hexachlorobenzene	460.	U
87-86-5	Pentachlorophenol	1100.	U
85-01-8	Phenanthrene	73.	J
120-12-7	Anthracene	62.	J
86-74-8	Carbazole	460.	U
84-74-2	Di-n-butylphthalate	250.	J
206-44-0	Fluoranthene	140.	J
129-00-0	Pyrene	140.	J
85-68-7	Butylbenzylphthalate	460.	U
91-94-1	3,3'-Dichlorobenzidine	460.	U
56-55-3	Benzo(a)anthracene	460.	U
218-01-9	Chrysene	110.	J
117-81-7	bis(2-Ethylhexyl)phthalate	1500.	
117-84-0	Di-n-octylphthalate	460.	U
205-99-2	Benzo(b)fluoranthene	110.	J
207-08-9	Benzo(k)fluoranthene	88.	J
50-32-8	Benzo(a)pyrene	460.	U
193-39-5	Indeno(1,2,3-cd)pyrene	460.	U
53-70-3	Dibenz(a,h)anthracene	460.	U
191-24-2	Benzo(g,h,i)perylene	460.	U

(1) - Cannot be separated from Diphenylamine

PESTICIDE/PCB ANALYSIS DATA PACKAGE
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
FACILITY NAME: SAUGET 1 & 2
ARDL REPORT NO. 2343

VOLUME 5-1

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101

Lab Name: ARDL, INC.
Lab Code: Case No.: 2343
Matrix(soil/water) : SOIL
Sample(wt/vol) : 30.0 (g/mL) g
% Moisture: 26 decanted:(Y/N) N
Extraction(Sepf/Cont/Sonc) SONC
Concentrated Extract Volume:5000(uL)
Injection Volume: 1 (uL)
GPC Cleanup:(Y/N) Y pH: 6.6

Contract: SAUGET SA 1+2
SDG No.: X101
Lab Sample ID : 2343-1
Lab File ID :
Date Received : 11/09/94
Date Extracted : 11/16/94
Date Analyzed : 11/24/94
Dilution Factor: 200.0
Sulfur Cleanup : N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/Kg	Q
319-84-6	alpha-BHC	460	U
319-85-7	beta-BHC	460	U
319-86-8	delta-BHC	460	U
58-89-9	gamma-BHC(Lindane)	460	U
76-44-8	Heptachlor	460	U
309-00-2	Aldrin	460	U
1024-57-3	Heptachlor Epoxide	460	U
959-98-8	Endosulfan I	460	U
60-57-1	Dieldrin	880	U
72-55-9	4,4'-DDE	880	U
72-20-8	Endrin	880	U
33213-65-9	Endosulfan II	880	U
72-54-8	4,4'-DDD	880	U
1013-07-8	Endosulfan sulfate	880	U
50-29-3	4,4'-DDT	880	U
72-43-5	Methoxychlor	4600	U
53494-70-5	Endrin ketone	880	U
7421-36-3	Endrin aldehyde	880	U
5103-71-9	alpha-Chlordane	460	U
5103-74-2	gamma-Chlordane	460	U
8001-35-2	Toxaphene	46000	U
12674-11-2	Aroclor 1016	8800	U
11104-28-2	Aroclor 1221	18000	U
11141-16-5	Aroclor 1232	8800	U
53469-21-9	Aroclor 1242	8800	U
12672-29-6	Aroclor 1248	8800	U
11097-69-1	Aroclor 1254	140000	E
11096-82-5	Aroclor 1260	83000	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X101DL

Lab Name: ARDL, INC.
Lab Code: Case No.: 2343
Matrix(soil/water) : SOIL
Sample(wt/vol) : 30.0 (g/mL) g
% Moisture: 26 decanted:(Y/N) N
Extraction(Sepf/Cont/Sonc) SONC
Concentrated Extract Volume:5000(uL)
Injection Volume: 1 (uL)
GPC Cleanup:(Y/N) Y pH: 6.6

Contract: SAUGET SA 1+2
SDG No.: X101
Lab Sample ID : 2343-1DL
Lab File ID :
Date Received : 11/09/94
Date Extracted : 11/16/94
Date Analyzed : 11/24/94
Dilution Factor: 500.0
Sulfur Cleanup : N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/Kg	Q
319-84-6	alpha-BHC	1200	U
319-85-7	beta-BHC	1200	U
319-86-8	delta-BHC	1200	U
58-89-9	gamma-BHC(Lindane)	1200	U
76-44-8	Heptachlor	1200	U
309-00-2	Aldrin	1200	U
1024-57-3	Heptachlor Epoxide	1200	U
959-98-8	Endosulfan I	1200	U
60-57-1	Dieldrin	2200	U
72-55-9	4,4'-DDE	2200	U
72-20-8	Endrin	2200	U
33213-65-9	Endosulfan II	2200	U
72-54-8	4,4'-DDD	2200	U
1013-07-8	Endosulfan sulfate	2200	U
50-29-3	4,4'-DDT	2200	U
72-43-5	Methoxychlor	12000	U
53494-70-5	Endrin ketone	2200	U
7421-36-3	Endrin aldehyde	2200	U
5103-71-9	alpha-Chlordane	1200	U
5103-74-2	gamma-Chlordane	1200	U
8001-35-2	Toxaphene	120000	U
12674-11-2	Aroclor 1016	22000	U
11104-28-2	Aroclor 1221	45000	U
11141-16-5	Aroclor 1232	22000	U
53469-21-9	Aroclor 1242	22000	U
12672-29-6	Aroclor 1248	22000	U
11097-69-1	Aroclor 1254	110000	P
11096-82-5	Aroclor 1260	72000	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

X107

Lab Name: ARDL, INC.
Lab Code: Case No.: 2343
Matrix(soil/water) : SOIL
Sample(wt/vol) : 30.0 (g/mL) g
% Moisture: 24 decanted:(Y/N) N
Extraction(Sepf/Cont/Sonc) SONC
Concentrated Extract Volume:5000(uL)
Injection Volume: 1 (uL)
GPC Cleanup:(Y/N) Y pH: 6.0

Contract: SAUGET 1+2
SDG No.: X101
Lab Sample ID : 2343-7
Lab File ID :
Date Received : 11/09/94
Date Extracted : 11/16/94
Date Analyzed : 11/24/94
Dilution Factor: 10.0
Sulfur Cleanup : N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/Kg	Q
319-84-6	alpha-BHC	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
58-89-9	gamma-BHC(Lindane)	22	U
76-44-8	Heptachlor	22	U
309-00-2	Aldrin	22	U
1024-57-3	Heptachlor Epoxide	22	U
959-98-8	Endosulfan I	22	U
60-57-1	Dieldrin	43	U
72-55-9	4,4'-DDE	43	U
72-20-8	Endrin	43	U
33213-65-9	Endosulfan II	43	U
72-54-8	4,4'-DDD	43	U
1013-07-8	Endosulfan sulfate	43	U
50-29-3	4,4'-DDT	43	U
72-43-5	Methoxychlor	220	U
53494-70-5	Endrin ketone	43	U
7421-36-3	Endrin aldehyde	43	U
5103-71-9	alpha-Chlordane	22	U
5103-74-2	gamma-Chlordane	22	U
8001-35-2	Toxaphene	2200	U
12674-11-2	Aroclor 1016	430	U
11104-28-2	Aroclor 1221	880	U
11141-16-5	Aroclor 1232	430	U
53469-21-9	Aroclor 1242	430	U
12672-29-6	Aroclor 1248	4800	P
11097-69-1	Aroclor 1254	11000	E
11096-82-5	Aroclor 1260	8800	PE