EPA Region 5 Records Ctr.
334413

LPC# 0310240005--Cook County
Clark/Blue Island
a.k.a. Premcor Refining Group Inc.
ILN 000 508 156
SF/HRS

Volume 2 of 2

CERCLA

Analytical Results

Illinois Environmental
Protection Agency

APPENDIX – C

DATE: November 29, 2001

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Clark

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
29954	Sentinel	15	ME00G0	Soil

==========

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

DEC 0 3 2001

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

NOV 2 9 2001

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: November 29, 2001

SUBJECT: Review of Data
Received for Review on November 21, 2001

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

The data in this case has not been validated.
We have compiled the CADRE files into a narrative format for the following case:

SITE NAME: Clark

CASE NUMBER: 29954 SDG NUMBER: ME00G0

Number and Type of Samples: 15 soils

Sample Numbers: ME00G0,2-9; ME00H0-5

Laboratory: Sentinel Hrs. for Review: 2

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

Case Number : 29954
Site Name: Clark

SDG Number: ME00G0
Laboratory: Sentinel

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

NUMBER (##) MATRIX samples numbered ##, were collected on DATE. The lab received the samples on DATE in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using CLP SOW ILM04.1 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric procedure.

Assembled By: ESAT
Date: November 29, 2001

Case Number : 29954
Site Name: Clark

SDG Number: ME00G0
Laboratory: Sentinel

1. HOLDING TIME:

Holding Time Report

SDG NO: ME00G0

HOLDING TIME CRITERIA

Inorganic

	-- Holding Time --		------- pH -------	
	Primary	Expanded	Primary	Expanded
Metals	180	0	2.0	0.0
Mercury	28	0	2.0	0.0
Cyanide	14	0	12.0	0.0

DC-280: The following inorganic soil samples were reviewed for holding time violations using criteria developed for water samples.

ME00G0, ME00G2, ME00G3, ME00G4, ME00G5, ME00G6
ME00G6D, ME00G6S, ME00G7, ME00G8, ME00G9, ME00H0
ME00H1, ME00H2, ME00H3, ME00H4, ME00H5

2. CALIBRATIONS:

Calibration Report

SDG NO: ME00G0

CALIBRATION CRITERIA

Inorganic

Percent Recovery Limits

	--- Primary ---		-- Expanded ---	
	Low	High	Low	High
Cyanide	85.00	115.00	70.00	130.00
AA	90.00	110.00	75.00	125.00
ICP	90.00	110.00	75.00	125.00
Mercury	80.00	120.00	65.00	135.00

No problems found for this qualification.

Assembled By: ESAT
Date: November 29, 2001

CRDL Standards Report

SDG NO: ME00G0

DC-373: The following inorganic samples are associated with a CRDL standard with low percent recovery.

Lead
ME00G8, ME00G9, ME00H0, ME00H1, ME00H2, ME00H3
ME00H4, ME00H5

Mercury
ME00G0, ME00G2, ME00G3, ME00G4, ME00G5, ME00G6
ME00G7, ME00G8, ME00G9, ME00H0, ME00H1, ME00H2
ME00H3, ME00H4, ME00H5, PBS03

Selenium
ME00G8, ME00G9, ME00H0, ME00H1, ME00H2, ME00H3
ME00H4, ME00H5

Thallium
ME00G0, ME00G2, ME00G3, ME00G4, ME00G5, ME00G6
ME00G7, PBS04

DC-374: The following inorganic samples are associated with a CRDL standard with high percent recovery.
Hits and non-detects are flagged .

Lead
ME00G0, ME00G2, ME00G3, ME00G4, ME00G5, ME00G6
ME00G7, PBS04

3. BLANKS:

Laboratory Blanks Report

SDG NO: ME00G0

LABORATORY BLANKS CRITERIA

DC-283: The following inorganic samples are associated with a blank analyte with negative concentration whose absolute value is greater than the instrument detection limit (IDL). Professional judgement should be used to qualify the data.

ME00G0
Copper, Sodium, Cyanide

ME00G2
Copper, Sodium, Cyanide

ME00G3
Copper, Sodium, Cyanide

Assembled By: ESAT
Date: November 29, 2001

ME00G4
Copper, Sodium, Cyanide

ME00G5
Copper, Sodium, Cyanide

ME00G6
Copper, Sodium, Cyanide

ME00G6D
Copper, Sodium, Cyanide

ME00G6S
Copper, Cyanide

ME00G7
Copper, Sodium

ME00G8
Copper

ME00G9
Copper

ME00H0
Copper

ME00H1
Copper

ME00H2
Copper, Cyanide

ME00H3
Copper

ME00H4
Copper

ME00H5
Copper, Cyanide

DC-284: The following inorganic samples are associated with a blank concentration which is greater than the instrument detection limit (IDL). The sample concentration is also greater than the IDL and less than five times the blank concentration. Hits are qualified "J"; non-detects are not flagged.

Antimony
ME00G0, ME00G6, ME00G6A, ME00G6D

DC-338: During review of the following inorganic samples, the reported IDL/default CRDL value was used for cyanide.

ME00G0, ME00G2, ME00G3, ME00G4, ME00G5, ME00G6
ME00G6D, ME00G6S, ME00G7, ME00G8, ME00G9, ME00H0
ME00H1, ME00H2, ME00H3, ME00H4, ME00H5

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

Matrix Spike Report

SDG NO: ME00G0

MATRIX SPIKE CRITERIA

Inorganic

Percent Recovery Limits

Upper	125.0
Lower	75.0
Extreme lower	30.0

DC-268: The following inorganic samples are associated with a matrix spike recovery which is low (30-74 %) indicating that sample results may be biased low.
Hits are qualified "J" and non-detects are qualified "UJ".

Antimony
ME00G0, ME00G2, ME00G3, ME00G4, ME00G5, ME00G6
ME00G6A, ME00G6D, ME00G7, ME00G8, ME00G9, ME00H0
ME00H1, ME00H2, ME00H3, ME00H4, ME00H5

LCS Report

SDG NO: ME00G0

No problems found for this qualification.

5. LABORATORY AND FIELD DUPLICATE

Duplicates Report

SDG NO: ME00G0

DC-330: The following inorganic samples are associated with duplicate results which did not meet absolute difference criteria.
Hits are qualified "J" and non-detects are qualified "UJ".

Nickel
ME00G0, ME00G2, ME00G3, ME00G4, ME00G5, ME00G6
ME00G6S, ME00G7, ME00G8, ME00G9, ME00H0, ME00H1
ME00H2, ME00H3, ME00H4, ME00H5

6. ICP ANALYSIS

Assembled By: ESAT
Date: November 29, 2001

ICS Report

SDG NO: ME00G0

No problems found for this qualification.

Serial Dilution Report

SDG NO: ME00G0

DC-295: The following inorganic samples are associated with an ICP serial dilution percent difference which is not in criteria. The serial dilution result is greater than the sample result, indicating a potential negative interference. The data must be qualified using professional judgement. Hits are qualified "J", non-detects "UJ".

Copper
ME00G0, ME00G2, ME00G3, ME00G4, ME00G5, ME00G6
ME00G6D, ME00G6S, ME00G7, ME00G8, ME00G9, ME00H0
ME00H1, ME00H2, ME00H3, ME00H4, ME00H5

7. GFAA ANALYSIS

Furnace AA QC Report

SDG NO: ME00G0

No problems found for this qualification.

8. SAMPLE RESULTS

All data, except those qualified above, are acceptable.

Sample Result Verification Report

SDG NO: ME00G0

No problems found for this qualification.

Assembled By: ESAT
Date: November 29, 2001

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Page ____ of ____

Case #: 29954 SDG : ME00G0

Site : CLARK

Lab : SENTIN

Reviewer :

Date :

Number of Soil Samples : 15

Number of Water Samples : 0

Sample Number	ME00G0		ME00G2		ME00G3		ME00G4		ME00G5	
Sampling Location :	X119		X128		X126		X125		X124	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	11/06/2001		11/06/2001		11/06/2001		11/06/2001		11/06/2001	
Time Sampled :	09:20		09:45		10:00		10:15		10 30	
%Solids :	74.9		80.1		73.2		82.0		81 2	
Dilution Factor :	1.0		1.0		1.0		1 0		1 0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	6510		7160		9330		7800		7340	
ANTIMONY	1.2	J	1.0	J	2.4	J	0.68	J	1 8	J
ARSENIC	5 5		9.2		8 6		7 8		8.6	
BARIUM	187		198		1130		147		185	
BERYLLIUM	0.32		0 41		0.57		0.36		0 42	
CADMIUM	0.39		0 53		2.0		0.33		0.70	
CALCIUM	3390		4610		6700		2970		10800	
CHROMIUM	11.7		13.7		99.6		12.8		18.7	
COBALT	6.3		8.1		7 7		5.4		6 5	
COPPER	20.3	J	27.4	J	44.2	J	17 6	J	21.1	J
IRON	11100		16400		16800		13100		15600	
LEAD	69.1		301		705		60 6		100	
MAGNESIUM	1770		2540		3370		1690		4660	
MANGANESE	489		358		439		435		354	
MERCURY	0.070	U	0.20		0.15		0 060	U	0 080	
NICKEL	10.5	J	17.0	J	19.3	J	12.0	J	15.6	J
POTASSIUM	1150		1160		993		792		1230	
SELENIUM	0.59	U	0.55	U	0.93		0.54	U	0 54	U
SILVER	0.24	U	0.22	U	0.32		0.22	U	0.22	U
SODIUM	648		827		753		699		720	
THALLIUM	0.93	U	0.87	U	0.96	U	0.85	U	0.86	U
VANADIUM	17.0		22.2		23.5		22.3		19.0	
ZINC	106		183		314		76.3		132	
CYANIDE	0.13	U	0.20		0.13	U	0.12	U	0.12	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29954 SDG : ME00G0
Site : CLARK
Lab. : SENTIN
Reviewer :
Date :

Sample Number :	ME00G6		ME00G7		ME00G8		ME00G9		ME00H0	
Sampling Location :	X113		X117		~~X116~~ X-118		X143		X110	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	11/06/2001		11/06/2001		11/06/2001		11/06/2001		11/06/2001	
Time Sampled :	11:30		11:40		11:40		12:00		12:20	
%Solids :	76.7		82.1		81.8		77.2		77.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	8960		6880		6180		7920		13800	
ANTIMONY	1.6	J	1.2	J	1.1	J	1.2	J	2.3	J
ARSENIC	9.8		9.3		9.5		9.2		14.5	
BARIUM	107		58.5		48.1		116		192	
BERYLLIUM	0.43		0.39		0.40		0.43		0.83	
CADMIUM	0.29		0.31		0.33		0.51		0.87	
CALCIUM	17900		25000		24800		4280		6920	
CHROMIUM	14.6		12.3		11.5		30.5		24.0	
COBALT	7.5		6.5		5.8		8.6		12.8	
COPPER	26.6	J	21.6	J	21.5	J	27.2	J	37.7	J
IRON	16500		12900		12300		14300		29400	
LEAD	46.7		38.2		40.3		88.7		162	
MAGNESIUM	10200		13100		12800		2380		5270	
MANGANESE	398		355		287		431		492	
MERCURY	0.11		0.060	U	0.060	U	0.14		1.5	
NICKEL	17.5	J	14.3	J	13.8	J	15.7	J	27.0	J
POTASSIUM	1790		1250		1120		1280		2230	
SELENIUM	0.57	U	0.54	U	0.54	U	0.57	U	0.67	
SILVER	0.23	U	0.22	U	0.22	U	0.23	U	0.23	U
SODIUM	735		684		546		844		958	
THALLIUM	0.91	U	0.85	U	0.86	U	0.91	U	0.90	U
VANADIUM	21.2		16.7		16.3		24.2		35.2	
ZINC	84.7		73.3		71.6		127		252	
CYANIDE	0.37		0.12	U	0.12	U	0.12	U	0.12	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case # 29954 SDG : ME00G0
Site : CLARK
Lab: SENTIN
Reviewer :
Date

Sample Number :	ME00H1		ME00H2		ME00H3		ME00H4		ME00H5	
Sampling Location :	X105		X130		X133		X132		X112	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	11/06/2001		11/06/2001		11/06/2001		11/06/2001		11/06/2001	
Time Sampled :	12:45		13.45		14.05		14:15		14 35	
%Solids :	78.4		72.9		78.2		75.3		72.0	
Dilution Factor :	1 0		1 0		1 0		1 0		1 0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	8390		6490		9570		9000		8640	
ANTIMONY	1.3	J	1 3	J	1.4	J	3.3	J	0.69	UJ
ARSENIC	7 8		8.3		10.0		8 5		7 2	
BARIUM	93.9		162		132		190		118	
BERYLLIUM	0.57		0.43		0.56		0 71		0.45	
CADMIUM	0.95		0.98		1.4		13.9		0.48	
CALCIUM	16000		39600		19400		32800		8690	
CHROMIUM	17.4		17.3		30.5		167		18.9	
COBALT	7.1		6 3		10.1		8.3		7 2	
COPPER	31.6	J	33.3	J	40.6	J	148	J	26 7	J
IRON	14800		16000		19600		16900		15000	
LEAD	55.1		164		145		186		47.2	
MAGNESIUM	8090		20600		9980		15900		4260	
MANGANESE	350		599		404		474		345	
MERCURY	0.060	U	0 11		0.32		0 80		0 070	U
NICKEL	18.0	J	16.8	J	32 4	J	34.8	J	19 6	J
POTASSIUM	1570		1370		1580		1640		1650	
SELENIUM	0.56	U	0.60	U	0.56	U	0.60		0.80	
SILVER	0.23	U	0.25	U	0.23	U	4.6		0.25	U
SODIUM	869		690		776		842		798	
THALLIUM	0.89	U	0.96	U	0.90	U	0 93	U	0.97	U
VANADIUM	22.2		20.0		22.0		20.2		20.2	
ZINC	142		187		217		414		93.4	
CYANIDE	0.12	U	0.19		0.12	U	2.3		0.23	

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29954 SDG : ME00G0
Site CLARK
Lab SENTIN
Reviewer
Date

Sample Number	ME00G6D		ME00G6S							
Sampling Location :	X113		X113							
Matrix :	Soil		Soil							
Units :	mg/Kg		mg/Kg							
Date Sampled :	11/06/2001		11/06/2001							
Time Sampled :	11:30		11:30							
%Solids :	77.3		76.7							
Dilution Factor :	1.0		1.0							
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	8420									
ANTIMONY	2.0	J	63.3							
ARSENIC	8.4		17.9							
BARIUM	103		614							
BERYLLIUM	0.42		12.9							
CADMIUM	0.27		13.0							
CALCIUM	21100									
CHROMIUM	13.8		63.4							
COBALT	6.7		133							
COPPER	25.4	J	88.6	J						
IRON	15100									
LEAD	46.2		50.3							
MAGNESIUM	12400									
MANGANESE	376		528							
MERCURY	0.090		0.69							
NICKEL	46.0		141	J						
POTASSIUM	1660									
SELENIUM	0.57	U	3.0							
SILVER	0.23	U	12.3							
SODIUM	752									
THALLIUM	0.91	U	10.8							
VANADIUM	20.0		143							
ZINC	80.6		204							
CYANIDE	0.12	U	5.9							

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

US EPA Contract Laboratory Program
Inorganic Traffic Report

Case No: 29954
DAS No:
SDG No: ME00G0

L

Date Shipped: 11/7/01 Carrier Name: FedEx Airbill: 832620621125 Shipped to: Sentinel Inc. 116 Washington Street, NE Huntsville AL 35801 (256) 534-9800	Date Received/Received by: Jessica Baltz 11/08/01 0943 Lab Contract No: 68W00085 Unit Price: 100.00 Transfer To: Date Received/Received By: Jessica Baltz 11/08/01 Lab Contract No: 68W00085 Price: 100.00 JB 11/12/01	Sampler (Signature): Paul Mason 11/08/01 0943 Relinquished By: Paul Mason Date / Time: 11-12-01 6:15p Received By: Jessica Baltz Relinquished By: Date / Time: Received By: Relinquished By: Date / Time: Received By:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00G0	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-059928 (Ice Only) (1)	X119	11/6/01 9:20	E00G0	
ME00G2	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59930 (Ice Only) (1)	X128	11/6/01 9:45	E00G2	
ME00G3	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59932 (Ice Only) (1)	X126	11/6/01 10:00	E00G3	
ME00G4	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59934 (Ice Only) (1)	X125	11/6/01 10:15	E00G4	
ME00G5	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59936 (Ice Only) (1)	X124	11/6/01 10:30	E00G5	
ME00G6	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59938 (Ice Only) (1)	X113	11/6/01 11:30	E00G6	
ME00G7	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59940 (Ice Only) (1)	X117	11/6/01 11:40	E00G7	
ME00G8	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59942 (Ice Only) (1)	X118	11/6/01 11:40	E00G8	
ME00G9	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59944 (Ice Only) (1)	X143	11/6/01 12:00	E00G9	
ME00H0	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59946 (Ice Only) (1)	X110	11/6/01 12:20	E00H0	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: ME00G6, ME00J2, ME00J3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2.0°C, -0.5°C, 2.5°C	Chain of Custody Seal Number: 81138, 81142, 81143
Analysis Key: TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

2 of 3

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-110701-0003

US EPA Contract Laboratory Program
Inorganic Traffic Report

Case No: 29954
DAS No:
SDG No: ME00G0

L

Date Shipped: 11/7/01 Carrier Name: FedEx Airbill: 832620621125 Shipped to: Sentinel Inc. 116 Washington Street, NE Huntsville AL 35801 (256) 534-9800	Date Received/Received by: Jessica Baltz 11/08/01 0943 Lab Contract No: 68W00085 Unit Price: 100.00 Transfer To: Date Received/Received By: Jessica Baltz 11/08/01 Lab Contract No: 68W00085 Price: 100.00 JB 11/12/01	Sampler (Signature): [signature] 11/08/01 0943 Relinquished By: [signature] Date / Time: 11-7-01 6:15P Received By: Jessica Baltz Relinquished By: Date / Time: Received By: Relinquished By: Date / Time: Received By:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00H1	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59948 (Ice Only) (1)	X105	11/6/01 12:45	E00H1	
ME00H2	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59950 (Ice Only) (1)	X130	11/6/01 13:45	E00H2	
ME00H3	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59952 (Ice Only) (1)	X133	11/6/01 14:05	E00H3	
ME00H4	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59954 (Ice Only) (1)	X132	11/6/01 14:15	E00H4	
ME00H5	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59956 (Ice Only) (1)	X112	11/6/01 14:35	E00H5	
ME00H6	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59958 (Ice Only) (1)	X102	11/6/01 15:00	E00H6	
ME00H7	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59960 (Ice Only) (1)	X139	11/6/01 15:20	E00H7	
ME00H8	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59962 (Ice Only) (1)	X136	11/6/01 15:50	E00H8	
ME00H9	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59964 (Ice Only) (1)	X122	11/6/01 16:35	E00H9	
ME00J0	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59966 (Ice Only) (1)	X144	11/6/01 17:00	E00J0	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: ME00G6, ME00J2, ME00J3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 20°C, -05°C, 25°C	Chain of Custody Seal Number: 81138, 81142, 81143
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y
TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide			2 of 3	

168

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-110701-0003

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

SOW No.: ILM04.1

EPA SAMPLE NO.	Lab Sample ID.
ME00G0	41809S
ME00G2	41810S
ME00G3	41811S
ME00G4	41812S
ME00G5	41813S
ME00G6	41814S
ME00G6D	41814S2
ME00G6S	41814MS
ME00G7	41815S
ME00G8	41816S
ME00G9	41817S
ME00H0	41818S
ME00H1	41819S
ME00H2	41820S
ME00H3	41821S
ME00H4	41822S
ME00H5	41823S

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 data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:

Name: Title: Date: 11/16/01

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00G0

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Matrix (soil/water): SOIL Lab Sample ID: 41809S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 74.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6510			P
7440-36-0	Antimony	1.2	B	N	P
7440-38-2	Arsenic	5.5			P
7440-39-3	Barium	187			P
7440-41-7	Beryllium	0.32	B		P
7440-43-9	Cadmium	0.39	B		P
7440-70-2	Calcium	3390			P
7440-47-3	Chromium	11.7			P
7440-48-4	Cobalt	6.3	B		P
7440-50-8	Copper	20.3		E	P
7439-89-6	Iron	11100			P
7439-92-1	Lead	69.1			P
7439-95-4	Magnesium	1770			P
7439-96-5	Manganese	489			P
7439-97-6	Mercury	0.07	U		CV
7440-02-0	Nickel	10.5	B	*	P
7440-09-7	Potassium	1150	B		P
7782-49-2	Selenium	0.59	U		P
7440-22-4	Silver	0.24	U		P
7440-23-5	Sodium	648	B		P
7440-28-0	Thallium	0.93	U		P
7440-62-2	Vanadium	17.0			P
7440-66-6	Zinc	106			P
	Cyanide	0.13	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

U.S. EPA - CLP
1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00G2

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Matrix (soil/water): SOIL Lab Sample ID: 41810S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 80.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7160			P
7440-36-0	Antimony	1.0	B	N	P
7440-38-2	Arsenic	9.2			P
7440-39-3	Barium	198			P
7440-41-7	Beryllium	0.41	B		P
7440-43-9	Cadmium	0.53	B		P
7440-70-2	Calcium	4610			P
7440-47-3	Chromium	13.7			P
7440-48-4	Cobalt	8.1	B		P
7440-50-8	Copper	27.4		E	P
7439-89-6	Iron	16400			P
7439-92-1	Lead	301			P
7439-95-4	Magnesium	2540			P
7439-96-5	Manganese	358			P
7439-97-6	Mercury	0.20			CV
7440-02-0	Nickel	17.0		*	P
7440-09-7	Potassium	1160	B		P
7782-49-2	Selenium	0.55	U		P
7440-22-4	Silver	0.22	U		P
7440-23-5	Sodium	827	B		P
7440-28-0	Thallium	0.87	U		P
7440-62-2	Vanadium	22.2			P
7440-66-6	Zinc	183			P
	Cyanide	0.20	B		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

4

U.S. EPA - CLP
1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00G3

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00GC

Matrix (soil/water): SOIL Lab Sample ID: 41811S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 73.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9330			P
7440-36-0	Antimony	2.4	B	N	P
7440-38-2	Arsenic	8.6			P
7440-39-3	Barium	1130			P
7440-41-7	Beryllium	0.57	B		P
7440-43-9	Cadmium	2.0			P
7440-70-2	Calcium	6700			P
7440-47-3	Chromium	99.6			P
7440-48-4	Cobalt	7.7	B		P
7440-50-8	Copper	44.2		E	P
7439-89-6	Iron	16800			P
7439-92-1	Lead	705			P
7439-95-4	Magnesium	3370			P
7439-96-5	Manganese	439			P
7439-97-6	Mercury	0.15			CV
7440-02-0	Nickel	19.3		*	P
7440-09-7	Potassium	993	B		P
7782-49-2	Selenium	0.93	B		P
7440-22-4	Silver	0.32	B		P
7440-23-5	Sodium	753	B		P
7440-28-0	Thallium	0.96	U		P
7440-62-2	Vanadium	23.5			P
7440-66-6	Zinc	314			P
	Cyanide	0.13	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00G4

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Matrix (soil/water): SOIL Lab Sample ID: 41812S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 82.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7800			P
7440-36-0	Antimony	0.68	B	N	P
7440-38-2	Arsenic	7.8			P
7440-39-3	Barium	147			P
7440-41-7	Beryllium	0.36	B		P
7440-43-9	Cadmium	0.33	B		P
7440-70-2	Calcium	2970			P
7440-47-3	Chromium	12.8			P
7440-48-4	Cobalt	5.4	B		P
7440-50-8	Copper	17.6		E	P
7439-89-6	Iron	13100			P
7439-92-1	Lead	60.6			P
7439-95-4	Magnesium	1690			P
7439-96-5	Manganese	435			P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	12.0		*	P
7440-09-7	Potassium	792	B		P
7782-49-2	Selenium	0.54	U		P
7440-22-4	Silver	0.22	U		P
7440-23-5	Sodium	699	B		P
7440-28-0	Thallium	0.85	U		P
7440-62-2	Vanadium	22.3			P
7440-66-6	Zinc	76.3			P
	Cyanide	0.12	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME00G5

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Matrix (soil/water): SOIL Lab Sample ID: 41813S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 81.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7340			P
7440-36-0	Antimony	1.8	B	N	P
7440-38-2	Arsenic	8.6			P
7440-39-3	Barium	185			P
7440-41-7	Beryllium	0.42	B		P
7440-43-9	Cadmium	0.70	B		P
7440-70-2	Calcium	10800			P
7440-47-3	Chromium	18.7			P
7440-48-4	Cobalt	6.5	B		P
7440-50-8	Copper	21.1		E	P
7439-89-6	Iron	15600			P
7439-92-1	Lead	100			P
7439-95-4	Magnesium	4660			P
7439-96-5	Manganese	354			P
7439-97-6	Mercury	0.08	B		CV
7440-02-0	Nickel	15.6		*	P
7440-09-7	Potassium	1230	B		P
7782-49-2	Selenium	0.54	U		P
7440-22-4	Silver	0.22	U		P
7440-23-5	Sodium	720	B		P
7440-28-0	Thallium	0.86	U		P
7440-62-2	Vanadium	19.0			P
7440-66-6	Zinc	132			P
	Cyanide	0.12	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

7

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00G6

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Matrix (soil/water): SOIL Lab Sample ID: 41814S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 76.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8960			P
7440-36-0	Antimony	1.6	B	N	P
7440-38-2	Arsenic	9.8			P
7440-39-3	Barium	107			P
7440-41-7	Beryllium	0.43	B		P
7440-43-9	Cadmium	0.29	B		P
7440-70-2	Calcium	17900			P
7440-47-3	Chromium	14.6			P
7440-48-4	Cobalt	7.5	B		P
7440-50-8	Copper	26.6		E	P
7439-89-6	Iron	16500			P
7439-92-1	Lead	46.7			P
7439-95-4	Magnesium	10200			P
7439-96-5	Manganese	398			P
7439-97-6	Mercury	0.11	B		CV
7440-02-0	Nickel	17.5		*	P
7440-09-7	Potassium	1790			P
7782-49-2	Selenium	0.57	U		P
7440-22-4	Silver	0.23	U		P
7440-23-5	Sodium	735	B		P
7440-28-0	Thallium	0.91	U		P
7440-62-2	Vanadium	21.2			P
7440-66-6	Zinc	84.7			P
	Cyanide	0.37	B		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

U.S. EPA - CLP
1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00G7

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Matrix (soil/water): SOIL Lab Sample ID: 41815S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 82.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6880			P
7440-36-0	Antimony	1.2	B	N	P
7440-38-2	Arsenic	9.3			P
7440-39-3	Barium	58.5			P
7440-41-7	Beryllium	0.39	B		P
7440-43-9	Cadmium	0.31	B		P
7440-70-2	Calcium	25000			P
7440-47-3	Chromium	12.3			P
7440-48-4	Cobalt	6.5	B		P
7440-50-8	Copper	21.6		E	P
7439-89-6	Iron	12900			P
7439-92-1	Lead	38.2			P
7439-95-4	Magnesium	13100			P
7439-96-5	Manganese	355			P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	14.3		*	P
7440-09-7	Potassium	1250			P
7782-49-2	Selenium	0.54	U		P
7440-22-4	Silver	0.22	U		P
7440-23-5	Sodium	684	B		P
7440-28-0	Thallium	0.85	U		P
7440-62-2	Vanadium	16.7			P
7440-66-6	Zinc	73.3			P
	Cyanide	0.12	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

U.S. EPA - CLP
1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00G8

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Matrix (soil/water): SOIL Lab Sample ID: 41816S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 81.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6180			P
7440-36-0	Antimony	1.1	B	N	P
7440-38-2	Arsenic	9.5			P
7440-39-3	Barium	48.1	B		P
7440-41-7	Beryllium	0.40	B		P
7440-43-9	Cadmium	0.33	B		P
7440-70-2	Calcium	24800			P
7440-47-3	Chromium	11.5			P
7440-48-4	Cobalt	5.8	B		P
7440-50-8	Copper	21.5		E	P
7439-89-6	Iron	12300			P
7439-92-1	Lead	40.3			P
7439-95-4	Magnesium	12800			P
7439-96-5	Manganese	287			P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	13.8		*	P
7440-09-7	Potassium	1120	B		P
7782-49-2	Selenium	0.54	U		P
7440-22-4	Silver	0.22	U		P
7440-23-5	Sodium	546	B		P
7440-28-0	Thallium	0.86	U		P
7440-62-2	Vanadium	16.3			P
7440-66-6	Zinc	71.6			P
	Cyanide	0.12	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME00G9

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Matrix (soil/water): SOIL Lab Sample ID: 41817S

Level (low/med): LOW Date Received: 11/08/01

% 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	7920			P
7440-36-0	Antimony	1.2	B	N	P
7440-38-2	Arsenic	9.2			P
7440-39-3	Barium	116			P
7440-41-7	Beryllium	0.43	B		P
7440-43-9	Cadmium	0.51	B		P
7440-70-2	Calcium	4280			P
7440-47-3	Chromium	30.5			P
7440-48-4	Cobalt	8.6	B		P
7440-50-8	Copper	27.2		E	P
7439-89-6	Iron	14300			P
7439-92-1	Lead	88.7			P
7439-95-4	Magnesium	2380			P
7439-96-5	Manganese	431			P
7439-97-6	Mercury	0.14			CV
7440-02-0	Nickel	15.7		*	P
7440-09-7	Potassium	1280	B		P
7782-49-2	Selenium	0.57	U		P
7440-22-4	Silver	0.23	U		P
7440-23-5	Sodium	844	B		P
7440-28-0	Thallium	0.91	U		P
7440-62-2	Vanadium	24.2			P
7440-66-6	Zinc	127			P
	Cyanide	0.12	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00H0

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Matrix (soil/water): SOIL Lab Sample ID: 41818S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 77.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13800			P
7440-36-0	Antimony	2.3	B	N	P
7440-38-2	Arsenic	14.5			P
7440-39-3	Barium	192			P
7440-41-7	Beryllium	0.83	B		P
7440-43-9	Cadmium	0.87	B		P
7440-70-2	Calcium	6920			P
7440-47-3	Chromium	24.0			P
7440-48-4	Cobalt	12.8	B		P
7440-50-8	Copper	37.7		E	P
7439-89-6	Iron	29400			P
7439-92-1	Lead	162			P
7439-95-4	Magnesium	5270			P
7439-96-5	Manganese	492			P
7439-97-6	Mercury	1.5			CV
7440-02-0	Nickel	27.0		*	P
7440-09-7	Potassium	2230			P
7782-49-2	Selenium	0.67	B		P
7440-22-4	Silver	0.23	U		P
7440-23-5	Sodium	958	B		P
7440-28-0	Thallium	0.90	U		P
7440-62-2	Vanadium	35.2			P
7440-66-6	Zinc	252			P
	Cyanide	0.12	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

12

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME00H1

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Matrix (soil/water): SOIL Lab Sample ID: 41819S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 78.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8390			P
7440-36-0	Antimony	1.3	B	N	P
7440-38-2	Arsenic	7.8			P
7440-39-3	Barium	93.9			P
7440-41-7	Beryllium	0.57	B		P
7440-43-9	Cadmium	0.95	B		P
7440-70-2	Calcium	16000			P
7440-47-3	Chromium	17.4			P
7440-48-4	Cobalt	7.1	B		P
7440-50-8	Copper	31.6		E	P
7439-89-6	Iron	14800			P
7439-92-1	Lead	55.1			P
7439-95-4	Magnesium	8090			P
7439-96-5	Manganese	350			P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	18.0		*	P
7440-09-7	Potassium	1570			P
7782-49-2	Selenium	0.56	U		P
7440-22-4	Silver	0.23	U		P
7440-23-5	Sodium	869	B		P
7440-28-0	Thallium	0.89	U		P
7440-62-2	Vanadium	22.2			P
7440-66-6	Zinc	142			P
	Cyanide	0.12	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

13

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00H2

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00GC

Matrix (soil/water): SOIL Lab Sample ID: 41820S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 72.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6490			P
7440-36-0	Antimony	1.3	B	N	P
7440-38-2	Arsenic	8.3			P
7440-39-3	Barium	162			P
7440-41-7	Beryllium	0.43	B		P
7440-43-9	Cadmium	0.98	B		P
7440-70-2	Calcium	39600			P
7440-47-3	Chromium	17.3			P
7440-48-4	Cobalt	6.3	B		P
7440-50-8	Copper	33.3		E	P
7439-89-6	Iron	16000			P
7439-92-1	Lead	164			P
7439-95-4	Magnesium	20600			P
7439-96-5	Manganese	599			P
7439-97-6	Mercury	0.11	B		CV
7440-02-0	Nickel	16.8		*	P
7440-09-7	Potassium	1370	B		P
7782-49-2	Selenium	0.60	U		P
7440-22-4	Silver	0.25	U		P
7440-23-5	Sodium	690	B		P
7440-28-0	Thallium	0.96	U		P
7440-62-2	Vanadium	20.0			P
7440-66-6	Zinc	187			P
	Cyanide	0.19	B		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

U.S. EPA - CLP
1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00H3

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Matrix (soil/water): SOIL Lab Sample ID: 41821S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 78.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9570			P
7440-36-0	Antimony	1.4	B	N	P
7440-38-2	Arsenic	10			P
7440-39-3	Barium	132			P
7440-41-7	Beryllium	0.56	B		P
7440-43-9	Cadmium	1.4			P
7440-70-2	Calcium	19400			P
7440-47-3	Chromium	30.5			P
7440-48-4	Cobalt	10.1	B		P
7440-50-8	Copper	40.6		E	P
7439-89-6	Iron	19600			P
7439-92-1	Lead	145			P
7439-95-4	Magnesium	9980			P
7439-96-5	Manganese	404			P
7439-97-6	Mercury	0.32			CV
7440-02-0	Nickel	32.4		*	P
7440-09-7	Potassium	1580			P
7782-49-2	Selenium	0.56	U		P
7440-22-4	Silver	0.23	U		P
7440-23-5	Sodium	776	B		P
7440-28-0	Thallium	0.90	U		P
7440-62-2	Vanadium	22.0			P
7440-66-6	Zinc	217			P
	Cyanide	0.12	U		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

15

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00H4

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Matrix (soil/water): SOIL Lab Sample ID: 41822S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 75.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9000			P
7440-36-0	Antimony	3.3	B	N	P
7440-38-2	Arsenic	8.5			P
7440-39-3	Barium	190			P
7440-41-7	Beryllium	0.71	B		P
7440-43-9	Cadmium	13.9			P
7440-70-2	Calcium	32800			P
7440-47-3	Chromium	167			P
7440-48-4	Cobalt	8.3	B		P
7440-50-8	Copper	148		E	P
7439-89-6	Iron	16900			P
7439-92-1	Lead	186			P
7439-95-4	Magnesium	15900			P
7439-96-5	Manganese	474			P
7439-97-6	Mercury	0.80			CV
7440-02-0	Nickel	34.8		*	P
7440-09-7	Potassium	1640			P
7782-49-2	Selenium	0.60	B		P
7440-22-4	Silver	4.6			P
7440-23-5	Sodium	842	B		P
7440-28-0	Thallium	0.93	U		P
7440-62-2	Vanadium	20.2			P
7440-66-6	Zinc	414			P
	Cyanide	2.3			CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

16

U.S. EPA - CLP
1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00H5

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Matrix (soil/water): SOIL Lab Sample ID: 41823S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 72.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8640			P
7440-36-0	Antimony	0.69	U	N	P
7440-38-2	Arsenic	7.2			P
7440-39-3	Barium	118			P
7440-41-7	Beryllium	0.45	B		P
7440-43-9	Cadmium	0.48	B		P
7440-70-2	Calcium	8690			P
7440-47-3	Chromium	18.9			P
7440-48-4	Cobalt	7.2	B		P
7440-50-8	Copper	26.7		E	P
7439-89-6	Iron	15000			P
7439-92-1	Lead	47.2			P
7439-95-4	Magnesium	4260			P
7439-96-5	Manganese	345			P
7439-97-6	Mercury	0.07	U		CV
7440-02-0	Nickel	19.6		*	P
7440-09-7	Potassium	1650			P
7782-49-2	Selenium	0.80	B		P
7440-22-4	Silver	0.25	U		P
7440-23-5	Sodium	798	B		P
7440-28-0	Thallium	0.97	U		P
7440-62-2	Vanadium	20.2			P
7440-66-6	Zinc	93.4			P
	Cyanide	0.23	B		CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

3

BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	31.8	U	105.4	B	31.8	U	102.8	B	10.681	B	P
Antimony	2.5	U	3.1	B	2.5	U	2.5	U	0.500	U	P
Arsenic	1.8	U	1.8	U	1.8	U	1.8	U	0.360	U	P
Barium	2.2	B	1.7	B	1.4	B	1.6	B	0.240	U	P
Beryllium	0.3	U	0.3	U	0.3	U	0.3	U	0.060	U	P
Cadmium	0.4	U	0.4	U	0.4	U	0.4	U	0.080	U	P
Calcium	459.9	U	459.9	U	459.9	U	459.9	U	91.980	U	P
Chromium	0.5	U	0.5	U	0.5	U	0.5	B	0.100	U	P
Cobalt	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Copper	1.5	U	-1.6	B	1.5	U	-2.1	B	0.300	U	P
Iron	19.4	U	35.0	B	19.4	U	35.6	B	61.545		P
Lead	1.9	U	1.9	U	1.9	U	1.9	U	0.413	B	P
Magnesium	34.4	U	103.8	B	34.4	U	104.5	B	8.931	B	P
Manganese	1.5	U	1.5	U	1.5	U	1.5	U	1.163	B	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.050	U	CV
Nickel	0.9	U	0.9	U	0.9	U	0.9	U	0.180	U	P
Potassium	20.2	U	20.2	U	20.2	U	20.2	U	4.040	U	P
Selenium	2.2	U	2.2	U	2.2	U	2.2	U	0.440	U	P
Silver	0.9	U	0.9	U	0.9	U	0.9	U	0.180	U	P
Sodium	-252.1	B	228.7	U	-249.6	B	228.7	U	45.740	U	P
Thallium	3.5	U	3.5	U	3.5	U	3.5	U	0.700	U	P
Vanadium	1.1	U	1.1	U	1.1	U	1.1	U	0.220	U	P
Zinc	8.5	U	8.5	U	8.5	U	8.5	U	1.700	U	P
Cyanide	1.9	U	1.9	U	1.9	U	2.7	B	-0.099	B	CA

23

3

BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			31.8	U	85.7	B					P
Antimony			2.5	U	2.7	B					P
Arsenic			1.8	U	1.9	B					P
Barium			1.4	B	1.4	B					P
Beryllium			0.3	U	0.3	U					P
Cadmium			0.4	U	0.4	U					P
Calcium			459.9	U	459.9	U					P
Chromium			0.5	U	0.5	U					P
Cobalt			1.0	U	1.0	U					P
Copper			-1.6	B	1.5	U					P
Iron			19.4	U	28.2	B					P
Lead			1.9	U	1.9	U					P
Magnesium			34.4	U	78.3	B					P
Manganese			1.5	U	1.5	U					P
Mercury			0.1	U							CV
Nickel			0.9	U	0.9	U					P
Potassium			20.2	U	20.2	U					P
Selenium			2.2	U	2.2	U					P
Silver			0.9	U	0.9	U					P
Sodium			228.7	U	228.7	U					P
Thallium			3.5	U	3.5	U					P
Vanadium			1.1	U	1.1	U					P
Zinc			8.5	U	8.5	U					P
Cyanide			1.9	U					0.095	U	CA

24

3

BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide	1.9	U	1.9	U	1.9	U					CA

25

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00G6S

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 76.7

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	63.2671		1.5858	B	130.38	47.3	N	P
Arsenic	75-125	17.9460		9.7867		10.43	78.2		P
Barium	75-125	614.1815		106.5011		521.51	97.3		P
Beryllium	75-125	12.9387		0.4321	B	13.04	95.9		P
Cadmium	75-125	13.0050		0.2938	B	13.04	97.5		P
Calcium									NR
Chromium	75-125	63.3731		14.5925		52.15	93.5		P
Cobalt	75-125	132.6711		7.5268	B	130.38	96.0		P
Copper	75-125	88.5800		26.6005		65.19	95.1		P
Iron									NR
Lead		50.2797		46.7033		5.22	68.5		P
Magnesium									NR
Manganese	75-125	527.7629		397.5703		130.38	99.9		P
Mercury	75-125	0.6910		0.1076	B	0.65	89.8		CV
Nickel	75-125	141.4130		17.5462		130.38	95.0		P
Potassium									NR
Selenium	75-125	3.0357		0.5737	U	2.61	116.3		P
Silver	75-125	12.2524		0.2347	U	13.04	94.0		P
Sodium									NR
Thallium	75-125	10.7620		0.9126	U	13.04	82.5		P
Vanadium	75-125	142.9893		21.2211		130.38	93.4		P
Zinc	75-125	203.9436		84.6705		130.38	91.5		P
Cyanide	75-125	5.8541		0.3697	B	6.52	84.1		CA

Comments:

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00G6A

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		118.70		6.08	B	120.0	93.8		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

U.S. EPA - CLP

6

DUPLICATES

EPA SAMPLE NO.

ME00G6D

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 76.7 % Solids for Duplicate: 77.3

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		8963.9082		8422.8625		6.2		P
Antimony		1.5858	B	1.9739	B	21.8		P
Arsenic	2.6	9.7867		8.4182		15.0		P
Barium	52.2	106.5011		103.1324		3.2		P
Beryllium		0.4321	B	0.4208	B	2.6		P
Cadmium		0.2938	B	0.2736	B	7.1		P
Calcium		17908.5408		21090.3245		16.3		P
Chromium		14.5925		13.7861		5.7		P
Cobalt		7.5268	B	6.7248	B	11.3		P
Copper	6.5	26.6005		25.3633		4.8		P
Iron		16509.8675		15114.9217		8.8		P
Lead		46.7033		46.2326		1.0		P
Magnesium		10151.0481		12397.9506		19.9		P
Manganese		397.5703		375.7323		5.6		P
Mercury		0.1076	B	0.0867	B	21.5		CV
Nickel	10.4	17.5462		46.0463		89.6	*	P
Potassium	1303.8	1785.0152		1661.9216		7.1		P
Selenium		0.5737	U	0.5737	U			P
Silver		0.2347	U	0.2347	U			P
Sodium		734.5288	B	751.7336	B	2.3		P
Thallium		0.9126	U	0.9126	U			P
Vanadium	13.0	21.2211		19.9960		5.9		P
Zinc		84.6705		80.5664		5.0		P
Cyanide		0.3697	B	0.1239	U	200.0		CA

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

ME00G6L

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	34376.59		35044.29		1.9		P
Antimony	6.08	B	12.50	U	100.0		P
Arsenic	37.53		46.48	B	23.8		P
Barium	408.43		408.91	B	0.1		P
Beryllium	1.66	B	1.99	B	19.9		P
Cadmium	1.13	B	2.22	B	96.5		P
Calcium	68679.25		70921.60		3.3		P
Chromium	55.96		55.07		1.6		P
Cobalt	28.87	B	29.76	B	3.1		P
Copper	102.01		118.03	B	15.7	E	P
Iron	63315.34		64192.79		1.4		P
Lead	179.11		182.57		1.9		P
Magnesium	38929.27		39542.20		1.6		P
Manganese	1524.68		1536.39		0.8		P
Mercury							NR
Nickel	67.29		66.03	B	1.9		P
Potassium	6845.53		7026.89	B	2.6		P
Selenium	2.20	U	11.00	U			P
Silver	0.90	U	4.50	U			P
Sodium	2816.92	B	3348.62	B	18.9		P
Thallium	3.50	U	17.50	U			P
Vanadium	81.38		81.84	B	0.6		P
Zinc	324.71		336.56		3.6		P

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

ICP ID Number: P3 Date: 10/15/01

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	31.8	P
Antimony	206.80		60	2.5	P
Arsenic	189.00		10	1.8	P
Barium	493.40		200	1.2	P
Beryllium	313.00		5	0.3	P
Cadmium	226.50		5	0.4	P
Calcium	317.90		5000	459.9	P
Chromium	267.70		10	0.5	P
Cobalt	228.60		50	1.0	P
Copper	324.70		25	1.5	P
Iron	271.40		100	19.4	P
Lead	220.30		3	1.9	P
Magnesium	279.00		5000	34.4	P
Manganese	257.60		15	1.5	P
Mercury			0.2		NR
Nickel	231.60		40	0.9	P
Potassium	766.40		5000	20.2	P
Selenium	196.00		5	2.2	P
Silver	328.00		10	0.9	P
Sodium	330.20		5000	228.7	P
Thallium	190.80		10	3.5	P
Vanadium	292.40		50	1.1	P
Zinc	206.20		20	8.5	P
Cyanide			10		NR

Comments:
P3: THERMO JARRELL ASH

34

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

ICP ID Number: Date: 10/15/01

Flame AA ID Number: C5

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10		NR

Comments:
C5: CETAC M6000

35

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00GC

ICP ID Number: Date: 10/15/01

Flame AA ID Number: C1

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide	578.00		10	1.9	CA

Comments:
C1: LACHAT

36

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	11/13/01	1.00	200
ME00G0	11/13/01	1.00	200
ME00G2	11/13/01	1.00	200
ME00G3	11/13/01	1.00	200
ME00G4	11/13/01	1.00	200
ME00G5	11/13/01	1.00	200
ME00G6	11/13/01	1.00	200
ME00G6D	11/13/01	1.00	200
ME00G6S	11/13/01	1.00	200
ME00G7	11/13/01	1.00	200
ME00G8	11/13/01	1.00	200
ME00G9	11/13/01	1.00	200
ME00H0	11/13/01	1.00	200
ME00H1	11/13/01	1.00	200
ME00H2	11/13/01	1.00	200
ME00H3	11/13/01	1.00	200
ME00H4	11/13/01	1.00	200
ME00H5	11/13/01	1.00	200
PBS	11/13/01	1.00	200

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	11/12/01	0.20	100
ME00G0	11/12/01	0.20	100
ME00G2	11/12/01	0.20	100
ME00G3	11/12/01	0.20	100
ME00G4	11/12/01	0.20	100
ME00G5	11/12/01	0.20	100
ME00G6	11/12/01	0.20	100
ME00G6D	11/12/01	0.20	100
ME00G6S	11/12/01	0.20	100
ME00G7	11/12/01	0.20	100
ME00G8	11/12/01	0.20	100
ME00G9	11/12/01	0.20	100
ME00H0	11/12/01	0.20	100
ME00H1	11/12/01	0.20	100
ME00H2	11/12/01	0.20	100
ME00H3	11/12/01	0.20	100
ME00H4	11/12/01	0.20	100
ME00H5	11/12/01	0.20	100
PBS	11/12/01	0.20	100

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Method: CA

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	11/13/01	1.00	50
ME00G0	11/13/01	1.00	50
ME00G2	11/13/01	1.00	50
ME00G3	11/13/01	1.00	50
ME00G4	11/13/01	1.00	50
ME00G5	11/13/01	1.00	50
ME00G6	11/13/01	1.00	50
ME00G6D	11/13/01	1.00	50
ME00G6S	11/13/01	1.00	50
ME00G7	11/13/01	1.00	50
ME00G8	11/13/01	1.00	50
ME00G9	11/13/01	1.00	50
ME00H0	11/13/01	1.00	50
ME00H1	11/13/01	1.00	50
ME00H2	11/13/01	1.00	50
ME00H3	11/13/01	1.00	50
ME00H4	11/13/01	1.00	50
PBS	11/13/01	1.00	50
S100	11/13/01		50

43

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00G0

Method: CA

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	11/13/01	1.00	50
ME00H5	11/13/01	1.00	50
PBS	11/13/01	1.00	50
S100	11/13/01		50

44

DATE: November 29, 2001

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Clark

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
29954	Sentinel	8	ME00J3	Water

==========

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

DEC 03 2001

NOV 2 9 2001

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: November 28, 2001

SUBJECT: Review of Data
Received for Review on November 21, 2001

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

The data in this case has not been validated.
We have compiled the CADRE files into a narrative format for the following case:

SITE NAME: Clark

CASE NUMBER: 29954 SDG NUMBER: ME00J3

Number and Type of Samples: 8 waters

Sample Numbers: ME00J3-5; ME00K5-8; ME00L8

Laboratory: Sentinel Hrs. for Review: /

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

Case Number : 29954
Site Name: Clark

SDG Number: ME00J3
Laboratory: Sentinel

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

NUMBER (##) MATRIX samples numbered ##, were collected on DATE. The lab received the samples on DATE in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using CLP SOW ILM04.1 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric procedure.

Assembled By: ESAT
Date: _____

Case Number : 29954
Site Name: Clark

SDG Number: ME00J3
Laboratory: Sentinel

1. HOLDING TIME:

Holding Time Report

SDG NO: ME00J3

HOLDING TIME CRITERIA

Inorganic

	-- Holding Time --		------- pH -------	
	Primary	Expanded	Primary	Expanded
Metals	180	0	2.0	0.0
Mercury	28	0	2.0	0.0
Cyanide	14	0	12.0	0.0

No problems found for this qualification.

2. CALIBRATIONS:

Calibration Report

SDG NO: ME00J3

CALIBRATION CRITERIA

Inorganic

Percent Recovery Limits

	--- Primary ---		-- Expanded ---	
	Low	High	Low	High
Cyanide	85.00	115.00	70.00	130.00
AA	90.00	110.00	75.00	125.00
ICP	90.00	110.00	75.00	125.00
Mercury	80.00	120.00	65.00	135.00

No problems found for this qualification.

CRDL Standards Report

SDG NO: ME00J3

Assembled By: ESAT
Date: _____

Case Number : 29954
Site Name: Clark

SDG Number: ME00J3
Laboratory: Sentinel

DC-373: The following inorganic samples are associated with a CRDL standard with low percent recovery.

Lead
ME00J3, ME00J4, ME00J5, ME00K5, ME00K6, ME00K7
ME00K8, ME00L8, PBW02

Mercury
ME00J3, ME00J4, ME00J5, ME00K5, ME00K6, ME00K7
ME00K8, ME00L8, PBW01

DC-374: The following inorganic samples are associated with a CRDL standard with high percent recovery.
Hits and non-detects are flagged .

Selenium
ME00K8, ME00L8

Thallium
ME00J3, ME00J4, ME00J5, ME00K5, ME00K6, ME00K7
PBW02

3. **BLANKS:**

Laboratory Blanks Report

SDG NO: ME00J3

LABORATORY BLANKS CRITERIA

DC-193: The following inorganic samples are associated with a blank analyte with negative concentration whose absolute value is greater than the instrument detection limit (IDL). Professional judgement should be used to qualify the data.

ME00J3
Antimony

ME00J31
Antimony

ME00J33
Antimony

ME00J4
Antimony

ME00J5
Antimony

ME00K5
Antimony

ME00K6
Antimony

Assembled By: ESAT
Date: _____

Case Number : 29954
Site Name: Clark

SDG Number: ME00J3
Laboratory: Sentinel

ME00K7
Antimony

ME00K8
Antimony

ME00L8
Antimony

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

Matrix Spike Report

SDG NO: ME00J3

MATRIX SPIKE CRITERIA

Inorganic

Percent Recovery Limits	
Upper	125.0
Lower	75.0
Extreme lower	30.0

DC-268: The following inorganic samples are associated with a matrix spike recovery which is low (30-74 %) indicating that sample results may be biased low.
Hits are qualified "J" and non-detects are qualified "UJ".

Aluminum
ME00J3, ME00J3A, ME00J3D, ME00J4, ME00J5, ME00K5
ME00K6, ME00K7, ME00K8, ME00L8

LCS Report

SDG NO: ME00J3

No problems found for this qualification.

5. LABORATORY AND FIELD DUPLICATE

Duplicates Report

SDG NO: ME00J3

Assembled By: ESAT
Date: _____

Case Number : 29954
Site Name: Clark

SDG Number: ME00J3
Laboratory: Sentinel

DC-330: The following inorganic samples are associated with duplicate results which did not meet absolute difference criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Aluminum
ME00J3, ME00J3S, ME00J4, ME00J5, ME00K5, ME00K6
ME00K7, ME00K8, ME00L8

6. ICP ANALYSIS

ICS Report

SDG NO: ME00J3

DC-312: The following inorganic samples have elements other than Al, Ca, Fe, and Mg at concentrations higher than 10 ppm that may cause potential interference.
Hits are flagged "J" and non-detects are qualified "UJ".

Potassium
ME00J3, ME00K6, ME00K7

Sodium
ME00J3, ME00J4, ME00J5, ME00K5, ME00K6, ME00K7
ME00L8

Serial Dilution Report

SDG NO: ME00J3

No problems found for this qualification.

7. GFAA ANALYSIS

Furnace AA QC Report

SDG NO: ME00J3

No problems found for this qualification.

8. SAMPLE RESULTS

All data, except those qualified above, are acceptable.

Sample Result Verification Report

Assembled By: ESAT
Date: _____

Case Number : 29954
Site Name: Clark

SDG Number: ME00J3
Laboratory: Sentinel

SDG NO: ME00J3

No problems found for this qualification.

Assembled By: ESAT
Date: _____

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J.	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Case #: 29954 SDG : ME00J3
Site : CLARK
Lab. . SENTIN
Reviewer :
ate .

Number of Soil Samples : 0
Number of Water Samples : 8

Sample Number	ME00J3		ME00J4		ME00J5		ME00K5		ME00K6	
Sampling Location :	S104		S114		S101		S103		S106	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/07/2001		11/07/2001		11/07/2001		11/07/2001		11/07/2001	
Time Sampled :	09:00		10:40		11:15		15:45		16:15	
%Solids :	0 0		0.0		0.0		0.0		0.0	
Dilution Factor :	1 0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	1040	J	517	J	285	J	176	J	343	J
ANTIMONY	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U
ARSENIC	6.1	U	6.1	U	6.1	U	6.1	U	7.4	
BARIUM	84.8		28.4		24.4		59.3		74.2	
BERYLLIUM	0.30	U	0 30	U	0.30	U	0.30	U	0.30	U
CADMIUM	0.60	U	0 60	U	0.60	U	0.60	U	0.60	U
CALCIUM	140000		71100		68700		127000		149000	
CHROMIUM	1.6	U	2.2		1.6	U	1.6	U	1.6	U
COBALT	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U
COPPER	3.3		20.7		10.1		2.8		5.7	
IRON	395		754		391		619		1690	
LEAD	2.4	U	5.5		2.4		2.4	J	8.7	
MAGNESIUM	55400		27300		25800		51100		46400	
MANGANESE	111		40.4		31.6		62.2		551	
MERCURY	0.10	U	0 10	U	0.10	U	0.10	U	0 10	U
NICKEL	3.0	U	25.1		17.7		3.0	U	7.5	
POTASSIUM	10600	J	8390		8260		5680		10500	J
SELENIUM	4.7	U	4.7	U	4.7	U	4.7	U	4.7	U
SILVER	1 0	U	1.0	U	1.0	U	1.0	U	1.0	U
SODIUM	193000	J	103000	J	103000	J	108000	J	177000	J
THALLIUM	4 6	U	4.6	U	4.6	U	4.6	U	4 6	U
VANADIUM	1.8	U	2.0		2.0		1.8	U	1.8	
ZINC	32.2		39.5		33 1		12.6	U	88.2	
CYANIDE										

DISCLAIMER: This package has been electronically assessed as an added service to our customer It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data

Analytical Results (Qualified Data)

Case #: 29954 SDG : ME00J3
Site CLARK
Lab. : SENTIN
Reviewer :
Date :

Sample Number :	ME00K7		ME00K8		ME00L8		ME00J3D		ME00J3S	
Sampling Location :	S150		FIELD BLANK		S102		S104		S104	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/07/2001		11/07/2001		11/08/2001		11/07/2001		11/07/2001	
Time Sampled :	16:15		17 00		13:20		09:00		09:00	
%Solids :	0.0		0.0		0.0		0.0		0.0	
Dilution Factor :	1.0		1 0		1.0		1 0		1 0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	205	J	136	UJ	136	UJ	136	UJ	2160	J
ANTIMONY	3.1	U	3.1	U	3.1	U	3.1	U	482	
ARSENIC	6.1	U	6.1	U	6.1	U	6.6		36 2	
BARIUM	72.7		4.5	U	53.5		79.7		2090	
BERYLLIUM	0.30	U	0.30	U	0.30	U	0.30	U	48.3	
CADMIUM	0.60	U	0.60	U	0.60	U	0.60	U	48.1	
CALCIUM	149000		1670	U	118000		138000			
CHROMIUM	1.6	U	1.6	U	1.6	U	1.6	U	193	
COBALT	2.1	U	2.1	U	2.1	U	2.1	U	482	
COPPER	3.4		1.6	U	1.6	U	1.6		251	
IRON	1370		49.6	U	1610		354		1300	
LEAD	6.7		2.4	U	2.4	U	2.4	U	21.1	
MAGNESIUM	46300		114	U	45200		55400			
MANGANESE	506		5.2	U	242		110		597	
MERCURY	0 10	U	0.10	U	0.10	U	0.10	U	1 0	
NICKEL	6.6		3 0	U	3.0	U	3.0	U	484	
POTASSIUM	10500	J	33.4	U	4330		10700			
SELENIUM	4.7	U	4.7	U	4.7	U	4.7	U	9.9	
SILVER	1.0	U	1 0	U	1.0	U	1.0	U	49.4	
SODIUM	180000	J	154	U	77100	J	194000			
THALLIUM	4.6	U	5 1		4 6	U	4.6	U	46 8	
VANADIUM	1 8	U	1 8	U	1.8	U	1.8	U	484	
ZINC	71.7		12 6	U	12.6	U	12.6	U	483	
CYANIDE										

DISCLAIMER. This package has been electronically assessed as an added service to our customer It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 29934
DAS No:
SDG No: ME00J3

Jessica Baltz 11/08/01 0943

Date Shipped: 11/7/01 Carrier Name: FedEx Airbill: 832620621125 Shipped to: Sentinel Inc. 116 Washington Street, NE Huntsville AL 35801 (256) 534-9800	Date Received/Received by: Jessica Baltz 3IC 11/12/01 Lab Contract No: 68W00085 Unit Price: 100.00 Transfer To: Date Received/Received By: 11/08/01 Jessica Baltz Lab Contract No: 68W00085 Price: 100.00 JB 11/12/01	Sampler (Signature): Paul Mason 11/08/01 0943 Relinquished By: Paul Mason — Date / Time: 11-7-01 6:15P — Received By: Jessica Baltz Relinquished By: — Date / Time: — Received By: Relinquished By: — Date / Time: — Received By:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00J2	Sediment/ Paul Mason	L/G	TM/CN (21)	5-59968 (Ice Only) (1)	X204	11/7/01 9:00	E00J2	
ME00J3	Surface Water/ Paul Mason	L/G	TM (21)	5-59972 (HNO3), 5-59973 (HNO3), 5-59974 (HNO3) (3)	S104	11/7/01 9:00	E00J3	
ME00J4	Surface Water/ Paul Mason	L/G	TM (21)	5-59987 (HNO3) (1)	S114	11/7/01 10:40	E00J4	
ME00J5	Surface Water/ Paul Mason	L/G	TM (21)	5-59992 (HNO3) (1)	S101	11/7/01 11:15	E00J5	
ME00J6	Sediment/ Paul Mason	L/G	TM/CN (21)	5-59997 (Ice Only) (1)	X201	11/7/01 11:30	E00J6	
ME00J7	Sediment/ Paul Mason	L/G	TM/CN (21)	5-122283 (Ice Only) (1)	X215	11/7/01 12:00	E00J7	
ME00J8	Sediment/ Paul Mason	L/G	TM/CN (21)	5-122287 (Ice Only) (1)	X214	11/7/01 12:15	E00J8	
ME00J9	Sediment/ Paul Mason	L/G	TM/CN (21)	5-122291 (Ice Only) (1)	X250	11/7/01 12:15	E00J9	
ME00K2	Sediment/ Paul Mason	L/G	TM/CN (21)	5-122299 (Ice Only) (1)	X212	11/7/01 13:00	E00K2	
ME00K3	Sediment/ Paul Mason	L/G	TM/CN (21)	5-59004 (Ice Only) (1)	X205	11/7/01 15:15	E00K3	
ME00K4	Sediment/ Paul Mason	L/G	TM/CN (21)	5-59008 (Ice Only) (1)	X203	11/7/01 15:45	E00K4	
ME00K5	Surface Water/ Paul Mason	M/G	TM (21)	5-122303 (HNO3) (1)	S103	11/7/01 15:45	E00K5	
ME00K6	Surface Water/ Paul Mason	L/G	TM (21)	5-122308 (HNO3) (1)	S106	11/7/01 16:15	E00K6	
ME00K7	Surface Water/ Paul Mason	L/G	TM (21)	5-122313 (HNO3) (1)	S150	11/7/01 16:15	E00K7	

Original Documents Are Included In CSF ME00H6

Signature: Jessica Baltz
Date: 11/08/01

Copy

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: ME00G6, ME00J2, ME00J3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2.0°C, -0.5°C, 2.5°C	Chain of Custody Seal Number: 81138, 81142, 81143
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y
TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide			2 of 3	

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-110701-0003

USEPA Contract Laboratory Program
Organic Traffic Report

DAS No:
SDG No: ME00J3

Date Shipped: 11/7/01 Carrier Name: FedEx Airbill: 832620621125 Shipped to: Sentinel Inc. 116 Washington Street, NE Huntsville AL 35801 (256) 534-9800	Date Received/Received by: Jessica Baltz 11/08/01 0943 Lab Contract No: 68W00085 Unit Price: 100.00 Transfer To: Date Received/Received By: Jessica Baltz 11/08/01 Lab Contract No: 68W00085 Price: 100.00 JB 11/12/01	Sampler (Signature): Paul Mason 11/08/01 0943 Relinquished By: Paul Mason Date / Time: 11-7-01 6:15P Received By: Jessica Baltz Relinquished By: Date / Time: Received By: Relinquished By: Date / Time: Received By:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00K8	Surface Water/ Paul Mason	L/G	TM (21)	5-122318 (HNO3) (1)	Field Blank	11/7/01 17:00	E00K8	
ME00K9	Sediment/ Paul Mason	M/G	TM/CN (21)	5-143959 (Ice Only) (1)	X206	11/7/01 16:15	E00K9	

Copy

Original Documents Are Included In CSF ME00H6

Jessica Baltz
Signature

11/08/01
Date

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: ME00G6, ME00J2, ME00J3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2.0°C, -0.5°C, 2.5°C	Chain of Custody Seal Number: 81138, 81142, 81143
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y
TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide				2 of 3

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-110701-0003

USEPA Contract Laboratory Program
Inorganic Traffic Report

0940

Case No: 29954
DAS No:
SDG No: ME00J3

L

Date Shipped: 11/8/01 Carrier Name: FedEx Airbill: 832620621180 Shipped to: Sentinel Inc. 116 Washington Street, NE Huntsville AL 35801 (256) 534-9800	Date Received/Received by: Jessica Baltz 11/09/01 Lab Contract No: 68W000085 Unit Price: 100.00 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): 11/08/01 11/09/01 0940 Relinquished By: Date / Time: 11/08/01 1530 Received By: Jessica Baltz Relinquished By: Date / Time: Received By: Relinquished By: Date / Time: Received By:	

Original Documents are kept in CSF

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00L0	Surface Soil (0"-12")/ Mark Wagner	L/G	TM/CN (21)	5-143963 (Ice Only) (1)	X145	11/8/01 8:05	E00L0	
ME00L1	Surface Soil (0"-12")/ Mark Wagner	L/G	TM/CN (21)	5-143965 (Ice Only) (1)	X120	11/8/01 8:25	E00L1	
ME00L2	Sediment/ Mark Wagner	M/G	TM/CN (21)	5-143967 (Ice Only) (1)	X207	11/8/01 8:45	E00L2	
ME00L3	Sediment/ Mark Wagner	L/G	TM/CN (21)	5-143971 (Ice Only) (1)	X209	11/8/01 10:05	E00L3	
ME00L4	Sediment/ Mark Wagner	L/G	TM/CN (21)	5-143975 (Ice Only) (1)	X208	11/8/01 9:45	E00L4	
ME00L5	Sediment/ Mark Wagner	L/G	TM/CN (21)	5-143979 (Ice Only) (1)	X211	11/8/01 11:10	E00L5	
ME00L6	Sediment/ Mark Wagner	L/G	TM/CN (21)	5-143983 (Ice Only) (1)	X210	11/8/01 10:40	E00L6	
ME00L7	Surface Soil (0"-12")/ Mark Wagner	L/G	TM/CN (21)	5-143987 (Ice Only) (1)	X101	11/8/01 12:20	E00L7	
ME00L8	Surface Water/ Mark Wagner	L/G	TM (21)	5-143989 (HNO3) (1)	S102	11/8/01 13:20	E00L8	
ME00L9	Soil/Sediment/ Mark Wagner	L/G	TM/CN (21)	5-143994 (Ice Only) (1)	X202	11/8/01 13:20	E00L9	

Jessica Baltz
Signature
11/09/01
Date

Copy

ME00L0
~~ME00L3~~
JB 11/09/01

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 3.0°C	Chain of Custody Seal Number: 26008
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-110801-0002

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00J3

SOW No.: ILM04.1

EPA SAMPLE NO.	Lab Sample ID.
ME00J3	41838S
ME00J3D	41838S2
ME00J3S	41838MS
ME00J4	41839S
ME00J5	41840S
ME00K5	41841S
ME00K6	41842S
ME00K7	41843S
ME00K8	41844S
ME00L8	41847S

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 data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:

Name: BAKilgore Title: QAOfficer Date: 11/19/01

U.S. EPA - CLP
1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00J3

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00J3

Matrix (soil/water): WATER Lab Sample ID: 41838S

Level (low/med): LOW Date Received: 11/08/01

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	1040		N*	P
7440-36-0	Antimony	3.1	U		P
7440-38-2	Arsenic	6.1	U		P
7440-39-3	Barium	84.8	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium	140000			P
7440-47-3	Chromium	1.6	U		P
7440-48-4	Cobalt	2.1	U		P
7440-50-8	Copper	3.3	B		P
7439-89-6	Iron	395			P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	55400			P
7439-96-5	Manganese	111			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	10600			P
7782-49-2	Selenium	4.7	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	193000			P
7440-28-0	Thallium	4.6	U		P
7440-62-2	Vanadium	1.8	U		P
7440-66-6	Zinc	32.2		*	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00J4

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00J3

Matrix (soil/water): WATER Lab Sample ID: 41839S

Level (low/med): LOW Date Received: 11/08/01

% 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	517		N*	P
7440-36-0	Antimony	3.1	U		P
7440-38-2	Arsenic	6.1	U		P
7440-39-3	Barium	28.4	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium	71100			P
7440-47-3	Chromium	2.2	B		P
7440-48-4	Cobalt	2.1	U		P
7440-50-8	Copper	20.7	B		P
7439-89-6	Iron	754			P
7439-92-1	Lead	5.5			P
7439-95-4	Magnesium	27300			P
7439-96-5	Manganese	40.4			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	25.1	B		P
7440-09-7	Potassium	8390			P
7782-49-2	Selenium	4.7	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	103000			P
7440-28-0	Thallium	4.6	U		P
7440-62-2	Vanadium	2.0	B		P
7440-66-6	Zinc	39.5		*	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00J5

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00J3

Matrix (soil/water): WATER Lab Sample ID: 41840S

Level (low/med): LOW Date Received: 11/08/01

% 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	285		N*	P
7440-36-0	Antimony	3.1	U		P
7440-38-2	Arsenic	6.1	U		P
7440-39-3	Barium	24.4	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium	68700			P
7440-47-3	Chromium	1.6	U		P
7440-48-4	Cobalt	2.1	U		P
7440-50-8	Copper	10.1	B		P
7439-89-6	Iron	391			P
7439-92-1	Lead	2.4	B		P
7439-95-4	Magnesium	25800			P
7439-96-5	Manganese	31.6			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	17.7	B		P
7440-09-7	Potassium	8260			P
7782-49-2	Selenium	4.7	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	103000			P
7440-28-0	Thallium	4.6	U		P
7440-62-2	Vanadium	2.0	B		P
7440-66-6	Zinc	33.1		*	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP
1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00K5

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00J3

Matrix (soil/water): WATER Lab Sample ID: 41841S

Level (low/med): LOW Date Received: 11/08/01

% 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	176	B	N*	P
7440-36-0	Antimony	3.1	U		P
7440-38-2	Arsenic	6.1	U		P
7440-39-3	Barium	59.3	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium	127000			P
7440-47-3	Chromium	1.6	U		P
7440-48-4	Cobalt	2.1	U		P
7440-50-8	Copper	2.8	B		P
7439-89-6	Iron	619			P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	51100			P
7439-96-5	Manganese	62.2			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	5680			P
7782-49-2	Selenium	4.7	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	108000			P
7440-28-0	Thallium	4.6	U		P
7440-62-2	Vanadium	1.8	U		P
7440-66-6	Zinc	12.6	U	*	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00K6

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00J3

Matrix (soil/water): WATER Lab Sample ID: 41842S

Level (low/med): LOW Date Received: 11/08/01

% 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	343		N*	P
7440-36-0	Antimony	3.1	U		P
7440-38-2	Arsenic	7.4	B		P
7440-39-3	Barium	74.2	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium	149000			P
7440-47-3	Chromium	1.6	U		P
7440-48-4	Cobalt	2.1	U		P
7440-50-8	Copper	5.7	B		P
7439-89-6	Iron	1690			P
7439-92-1	Lead	8.7			P
7439-95-4	Magnesium	46400			P
7439-96-5	Manganese	551			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	7.5	B		P
7440-09-7	Potassium	10500			P
7782-49-2	Selenium	4.7	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	177000			P
7440-28-0	Thallium	4.6	U		P
7440-62-2	Vanadium	1.8	B		P
7440-66-6	Zinc	88.2		*	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP
1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00K7

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00J3

Matrix (soil/water): WATER Lab Sample ID: 41843S

Level (low/med): LOW Date Received: 11/08/01

% 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	205		N*	P
7440-36-0	Antimony	3.1	U		P
7440-38-2	Arsenic	6.1	U		P
7440-39-3	Barium	72.7	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium	149000			P
7440-47-3	Chromium	1.6	U		P
7440-48-4	Cobalt	2.1	U		P
7440-50-8	Copper	3.4	B		P
7439-89-6	Iron	1370			P
7439-92-1	Lead	6.7			P
7439-95-4	Magnesium	46300			P
7439-96-5	Manganese	506			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	6.6	B		P
7440-09-7	Potassium	10500			P
7782-49-2	Selenium	4.7	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	180000			P
7440-28-0	Thallium	4.6	U		P
7440-62-2	Vanadium	1.8	U		P
7440-66-6	Zinc	71.7		*	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP
1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00K8

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00J3

Matrix (soil/water): WATER Lab Sample ID: 41844S

Level (low/med): LOW Date Received: 11/08/01

% 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	136	U	N*	P
7440-36-0	Antimony	3.1	U		P
7440-38-2	Arsenic	6.1	U		P
7440-39-3	Barium	4.5	U		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium	1670	U		P
7440-47-3	Chromium	1.6	U		P
7440-48-4	Cobalt	2.1	U		P
7440-50-8	Copper	1.6	U		P
7439-89-6	Iron	49.6	U		P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	114	U		P
7439-96-5	Manganese	5.2	U		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	33.4	U		P
7782-49-2	Selenium	4.7	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	154	U		P
7440-28-0	Thallium	5.1	B		P
7440-62-2	Vanadium	1.8	U		P
7440-66-6	Zinc	12.6	U	*	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP
1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00L8

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00J3

Matrix (soil/water): WATER Lab Sample ID: 41847S

Level (low/med): LOW Date Received: 11/09/01

% 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	136	U	N*	P
7440-36-0	Antimony	3.1	U		P
7440-38-2	Arsenic	6.1	U		P
7440-39-3	Barium	53.5	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	0.60	U		P
7440-70-2	Calcium	118000			P
7440-47-3	Chromium	1.6	U		P
7440-48-4	Cobalt	2.1	U		P
7440-50-8	Copper	1.6	U		P
7439-89-6	Iron	1610			P
7439-92-1	Lead	2.4	U		P
7439-95-4	Magnesium	45200			P
7439-96-5	Manganese	242			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	3.0	U		P
7440-09-7	Potassium	4330	B		P
7782-49-2	Selenium	4.7	U		P
7440-22-4	Silver	1.0	U		P
7440-23-5	Sodium	77100			P
7440-28-0	Thallium	4.6	U		P
7440-62-2	Vanadium	1.8	U		P
7440-66-6	Zinc	12.6	U	*	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

3

BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00J3

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	135.9	U	135.9	U	135.9	U	135.9	U	135.900	U	P
Antimony	3.1	U	3.1	U	3.1	U	3.1	U	-4.303	B	P
Arsenic	6.1	U	6.1	U	6.1	U	6.1	U	6.100	U	P
Barium	4.5	U	4.5	U	4.5	U	4.5	U	4.500	U	P
Beryllium	0.3	U	0.3	U	0.3	U	0.3	U	0.300	U	P
Cadmium	0.6	U	0.6	U	0.6	U	0.6	U	0.600	U	P
Calcium	1672.4	U	1672.4	U	1672.4	U	1672.4	U	1672.400	U	P
Chromium	1.6	U	1.6	U	1.6	U	1.6	U	1.600	U	P
Cobalt	2.1	U	2.1	U	2.1	U	2.1	U	2.100	U	P
Copper	1.6	U	1.6	U	1.6	U	1.6	U	1.600	U	P
Iron	49.6	U	49.6	U	49.6	U	49.6	U	49.600	U	P
Lead	2.4	U	2.4	U	2.4	U	2.4	U	2.400	U	P
Magnesium	113.5	U	113.5	U	113.5	U	113.5	U	113.500	U	P
Manganese	5.2	U	5.2	U	5.2	U	5.2	U	5.200	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.100	U	CV
Nickel	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Potassium	33.4	U	33.4	U	33.4	U	33.4	U	33.400	U	P
Selenium	4.7	U	4.7	U	4.7	U	4.7	U	4.700	U	P
Silver	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Sodium	153.8	U	153.8	U	153.8	U	153.8	U	153.800	U	P
Thallium	4.6	U	4.6	U	6.2	B	4.6	U	4.600	U	P
Vanadium	1.8	U	1.8	U	1.8	U	1.8	U	1.800	U	P
Zinc	12.6	U	12.6	U	12.6	U	12.6	U	12.600	U	P
Cyanide											NR

U.S. EPA - CLP

3

BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00J3

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			135.9	U							P
Antimony			-3.5	B							P
Arsenic			6.1	U							P
Barium			4.5	U							P
Beryllium			0.3	U							P
Cadmium			0.6	U							P
Calcium			1672.4	U							P
Chromium			1.6	U							P
Cobalt			2.1	U							P
Copper			1.6	U							P
Iron			49.6	U							P
Lead			2.4	U							P
Magnesium			113.5	U							P
Manganese			5.2	U							P
Mercury											NR
Nickel			3.0	U							P
Potassium			33.4	U							P
Selenium			4.7	U							P
Silver			1.0	U							P
Sodium			153.8	U							P
Thallium			4.6	U							P
Vanadium			1.8	U							P
Zinc			12.6	U							P
Cyanide											NR

3

BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00J3

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	31.8	U	41.8	B	31.8	U	58.0	B			P
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00J3S

ab Name: Sentinel, Inc. Contract: 68-W-00-085

ab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00J3

atrix (soil/water): WATER Level (low/med): LOW

Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2162.3867		1043.0008		2000.00	56.0	N	P
Antimony	75-125	481.5778		3.1000	U	500.00	96.3		P
Arsenic	75-125	36.1915		6.1000	U	40.00	90.5		P
Barium	75-125	2091.7982		84.7565	B	2000.00	100.4		P
Beryllium	75-125	48.3041		0.3000	U	50.00	96.6		P
Cadmium	75-125	48.0756		0.6000	U	50.00	96.2		P
Calcium									NR
Chromium	75-125	193.2090		1.6000	U	200.00	96.6		P
Cobalt	75-125	481.6128		2.1000	U	500.00	96.3		P
Copper	75-125	250.9910		3.2884	B	250.00	99.1		P
Iron	75-125	1301.8018		394.7999		1000.00	90.7		P
Lead	75-125	21.1006		2.4000	U	20.00	105.5		P
Magnesium									NR
Manganese	75-125	596.6881		110.9701		500.00	97.1		P
Mercury	75-125	1.0100		0.1000	U	1.00	101.0		CV
Nickel	75-125	483.9155		3.0000	U	500.00	96.8		P
Potassium									NR
Selenium	75-125	9.8805		4.7000	U	10.00	98.8		P
Silver	75-125	49.3926		1.0000	U	50.00	98.8		P
Sodium									NR
Thallium	75-125	46.7813		4.6000	U	50.00	93.6		P
Vanadium	75-125	483.6486		1.8000	U	500.00	96.7		P
Zinc	75-125	482.5580		32.2467		500.00	90.1		P
Cyanide									NR

Comments:

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00J3A

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00J3

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum		2656.62		1043.00		2086.0	77.4		P
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

6

DUPLICATES

EPA SAMPLE NO.

ME00J3D

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00J3

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	200.0	1043.0008		135.9000	U	200.0	*	P
Antimony		3.1000	U	3.1000	U			P
Arsenic		6.1000	U	6.5930	B	200.0		P
Barium		84.7565	B	79.6837	B	6.2		P
Beryllium		0.3000	U	0.3000	U			P
Cadmium		0.6000	U	0.6000	U			P
Calcium		140082.0550		137851.1720		1.6		P
Chromium		1.6000	U	1.6000	U			P
Cobalt		2.1000	U	2.1000	U			P
Copper		3.2884	B	1.6198	B	68.0		P
Iron	100.0	394.7999		353.5942		11.0		P
Lead		2.4000	U	2.4000	U			P
Magnesium		55387.0566		55449.3711		0.1		P
Manganese		110.9701		109.5828		1.3		P
Mercury		0.1000	U	0.1000	U			CV
Nickel		3.0000	U	3.0000	U			P
Potassium	5000.0	10638.3340		10656.4034		0.2		P
Selenium		4.7000	U	4.7000	U			P
Silver		1.0000	U	1.0000	U			P
Sodium		192508.6800		193572.3280		0.6		P
Thallium		4.6000	U	4.6000	U			P
Vanadium		1.8000	U	1.8000	U			P
Zinc	20.0	32.2467		12.6000	U	200.0	*	P
Cyanide								NR

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00J3

ICP ID Number: P3 Date: 10/15/01

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	31.8	P
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10		NR

Comments:

P3: THERMO JARRELL ASH

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00J3

ICP ID Number: P4 Date: 10/15/01

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	135.9	P
Antimony	206.80		60	3.1	P
Arsenic	189.00		10	6.1	P
Barium	493.40		200	4.5	P
Beryllium	313.00		5	0.3	P
Cadmium	226.50		5	0.6	P
Calcium	317.90		5000	1672.4	P
Chromium	267.70		10	1.6	P
Cobalt	228.60		50	2.1	P
Copper	324.70		25	1.6	P
Iron	271.40		100	49.6	P
Lead	220.30		3	2.4	P
Magnesium	279.00		5000	113.5	P
Manganese	257.60		15	5.2	P
Mercury			0.2		NR
Nickel	231.60		40	3.0	P
Potassium	766.40		5000	33.4	P
Selenium	196.00		5	4.7	P
Silver	328.00		10	1.0	P
Sodium	330.20		5000	153.8	P
Thallium	190.80		10	4.6	P
Vanadium	292.40		50	1.8	P
Zinc	206.20		20	12.6	P
Cyanide			10		NR

Comments:

P4: THERMO JARRELL ASH

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00J3

ICP ID Number: Date: 10/15/01

Flame AA ID Number: C5

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10		NR

Comments:

C5: CETAC M6000

DATE: November 29, 2001

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Clark

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
29954	Sentinel	9	ME00L0	Soil

==========

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

DEC 0 3 2001

NOV 2 9 2001

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: November 28, 2001

SUBJECT: Review of Data
Received for Review on November 21, 2001

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

The data in this case has not been validated.
We have compiled the CADRE files into a narrative format for the following case:

SITE NAME: Clark

CASE NUMBER: 29954 SDG NUMBER: ME00L0

Number and Type of Samples: 9 soils

Sample Numbers: ME00L0-7,9

Laboratory: Sentinel Hrs. for Review: 1

Following are our findings:

CC: Cecilia Moore
Region 5 TPC
Mail Code: SM-5J

Case Number : 29954
Site Name: Clark

SDG Number: ME00L0
Laboratory: Sentinel

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

NUMBER (##) MATRIX samples numbered ##, were collected on DATE. The lab received the samples on DATE in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using CLP SOW ILM04.1 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining incrganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric procedure.

Assembled By: ESAT
Date: November 28, 2001

Case Number : 29954
Site Name: Clark

SDG Number: ME00L0
Laboratory: Sentinel

1. HOLDING TIME:

Holding Time Report

SDG NO: ME00L0

HOLDING TIME CRITERIA

Inorganic

	-- Holding Time --		------- pH -------	
	Primary	Expanded	Primary	Expanded
Metals	180	0	2.0	0.0
Mercury	28	0	2.0	0.0
Cyanide	14	0	12.0	0.0

DC-280: The following inorganic soil samples were reviewed for holding time violations using criteria developed for water samples.

ME00L0, ME00L0D, ME00L0S, ME00L1, ME00L2, ME00L3
ME00L4, ME00L5, ME00L6, ME00L7, ME00L9

CALIBRATIONS:

Calibration Report

SDG NO: ME00L0

CALIBRATION CRITERIA

Inorganic

Percent Recovery Limits

	--- Primary ---		-- Expanded ---	
	Low	High	Low	High
Cyanide	85.00	115.00	70.00	130.00
AA	90.00	110.00	75.00	125.00
ICP	90.00	110.00	75.00	125.00
Mercury	60.00	120.00	65.00	135.00

No problems found for this qualification.

Assembled By: ESAT
Date: November 28, 2001

Case Number : 29954
Site Name: Clark

SDG Number: ME00L0
Laboratory: Sentinel

CRDL Standards Report

SDG NO: ME00L0

DC-373: The following inorganic samples are associated with a CRDL standard with low percent recovery.

Lead
ME00L0, ME00L1, ME00L2, ME00L3, ME00L4, ME00L5
ME00L6, PBS03

Mercury
ME00L0, ME00L1, ME00L2, ME00L3, ME00L4, ME00L5
ME00L6, ME00L7, ME00L9, PBS01

Selenium
ME00L0, ME00L1, ME00L2, ME00L3, ME00L4, ME00L5
ME00L6, PBS02

Thallium
ME00L7, ME00L9

3. BLANKS:

Laboratory Blanks Report

SDG NO: ME00L0

LABORATORY BLANKS CRITERIA

DC-281: The following inorganic samples have no associated preparation blank.
Manual review of the data is required.

ME00L0
Cyanide

ME00L0D
Cyanide

ME00L0S
Cyanide

ME00L1
Cyanide

ME00L2
Cyanide

ME00L3
Cyanide

ME00L4
Cyanide

Assembled By: ESAT
Date: November 28, 2001

Case Number : 29954
Site Name: Clark

SDG Number: ME00L0
Laboratory: Sentinel

DC-283: The following inorganic samples are associated with a blank analyte with negative concentration whose absolute value is greater than the instrument detection limit (IDL). Professional judgement should be used to qualify the data.

ME00L0
Aluminum, Cadmium, Chromium, Nickel
Sodium, Thallium

ME00L0D
Aluminum, Cadmium, Chromium, Nickel
Sodium, Thallium

ME00L0S
Cadmium, Chromium, Nickel, Thallium

ME00L1
Aluminum, Cadmium, Chromium, Nickel
Sodium, Thallium

ME00L2
Aluminum, Cadmium, Chromium, Nickel
Sodium, Thallium

ME00L3
Aluminum, Cadmium, Chromium, Nickel
Sodium, Thallium

ME00L4
Aluminum, Cadmium, Chromium, Nickel
Sodium, Thallium

ME00L5
Aluminum, Cadmium, Chromium, Nickel
Sodium, Thallium

ME00L6
Aluminum, Cadmium, Chromium, Nickel
Sodium, Thallium

ME00L7
Aluminum, Cadmium, Chromium, Nickel
Silver, Sodium

ME00L9
Aluminum, Cadmium, Chromium, Nickel
Silver, Sodium

DC-338: During review of the following inorganic samples, the reported IDL/default CRDL value was used for cyanide.

ME00L0, ME00L0A, ME00L0D, ME00L0S, ME00L1, ME00L2
ME00L3, ME00L4, ME00L5, ME00L6, ME00L7, ME00L9

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

Matrix Spike Report

SDG NO: ME00L0

Assembled By: ESAT
Date: November 28, 2001

Case Number : 29954
Site Name: Clark

SDG Number: ME00L0
Laboratory: Sentinel

MATRIX SPIKE CRITERIA

Inorganic

Percent Recovery Limits

Upper	125.0
Lower	75.0
Extreme lower	30.0

DC-268: The following inorganic samples are associated with a matrix spike recovery which is low (30-74 %) indicating that sample results may be biased low.
Hits are qualified "J" and non-detects are qualified "UJ".

Antimony
ME00L0, ME00L0A, ME00L0D, ME00L1, ME00L2, ME00L3
ME00L4, ME00L5, ME00L6, ME00L7, ME00L9

Cyanide
ME00L0, ME00L0A, ME00L0D, ME00L1, ME00L2, ME00L3
ME00L4, ME00L5, ME00L6, ME00L7, ME00L9

LCS Report

SDG NO: ME00L0

No problems found for this qualification.

5. LABORATORY AND FIELD DUPLICATE

Duplicates Report

SDG NO: ME00L0

No problems found for this qualification.

6. ICP ANALYSIS

ICS Report

SDG NO: ME00L0

DC-312: The following inorganic samples have elements other than Al, Ca, Fe, and Mg at concentrations higher than 10 ppm that may cause

Assembled By: ESAT
Date: November 28, 2001

potential interference.
Hits are flagged "J" and non-detects are qualified "UJ".

Sodium
ME00L1

Serial Dilution Report

SDG NO: ME00L0

No problems found for this qualification.

7. GFAA ANALYSIS

Furnace AA QC Report

SDG NO: ME00L0

No problems found for this qualification.

SAMPLE RESULTS

All data, except those qualified above, are acceptable.

Sample Result Verification Report

SDG NO: ME00L0

No problems found for this qualification.

Assembled By: ESAT
Date: November 28, 2001

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Case #: 29954 SDG : ME00L0
Site : CLARK
Lab. : SENTIN
Reviewer :
Date

Number of Soil Samples : 9
Number of Water Samples : 0

Sample Number :	ME00L0		ME00L1		ME00L2		ME00L3		ME00L4	
Sampling Location :	X145		X120		X207		X209		X208	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	11/08/2001		11/08/2001		11/08/2001		11/08/2001		11/08/2001	
Time Sampled :	08 05		08:25		08:45		10:05		09:45	
%Solids :	69 3		75.4		45.0		31.8		58.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	7450		11700		8500		13000		8160	
ANTIMONY	0.72	UJ	1.8	J	4.9	J	3.8	J	17.0	J
ARSENIC	6.0		7.1		54.0		9.2		11.6	
BARIUM	73.9		161		150		124		317	
BERYLLIUM	0 49		0 69		0.47		0.68		0.48	
CADMIUM	0.51		0.66		0.60		2.1		14.2	
CALCIUM	24700		39300		39700		36600		50300	
CHROMIUM	14.5		24.5		51.7		128		67.3	
COBALT	7.9		10.1		12.0		13.0		10.4	
COPPER	28.8		43.4		90.4		114		402	
IRON	16200		20300		88400		23100		23900	
LEAD	59.9		184		788		214		269	
MAGNESIUM	13100		22600		21500		21200		30200	
MANGANESE	712		526		447		334		317	
MERCURY	0.070	U	0 070	U	1.3		0.25		0.14	
NICKEL	19.5		27.8		40.6		51.2		57.0	
POTASSIUM	1670		2080		1530		2570		1340	
SELENIUM	0.63	U	0.58	U	0.98	U	1.6		0.76	U
SILVER	0 26	U	0.24	U	0.40	U	0.57	U	0 42	
SODIUM	607		3840	J	984		1820		2400	
THALLIUM	1 0	U	0 93	U	3.6		2.2	U	1.3	
VANADIUM	18.9		27.6		55.3		78.9		28.6	
ZINC	136		276		1580		723		1090	
CYANIDE	0.14	UJ	1.3	J	0.27	J	0.30	UJ	0.63	J

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29954 SDG : ME00L0
Site : CLARK
Lab : SENTIN
Reviewer :
Date :

Sample Number :	ME00L5		ME00L6		ME00L7		ME00L9		ME00L0D	
Sampling Location :	X211		X210		X101		X202		X145	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	11/08/2001		11/08/2001		11/08/2001		11/08/2001		11/08/2001	
Time Sampled :	11 10		10.40		12:20		13:20		08:05	
%Solids :	68 7		40.4		71.2		77.7		69.3	
Dilution Factor :	1.0		1.0		1 0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	5680		10200		13200		5590		7850	
ANTIMONY	0.73	UJ	1.2	UJ	1.2	J	0.64	UJ	0.72	UJ
ARSENIC	7.2		4.2		8.2		5.7		6.6	
BARIUM	44.1		64.3		108		43.0		75.7	
BERYLLIUM	0.28		0.47		0.68		0.33		0.47	
CADMIUM	0.33		2.0		0.11	U	0.10	U	0.35	
CALCIUM	45500		25800		4830		48000		25500	
CHROMIUM	16.1		38.2		19.4		9.3		14.5	
COBALT	6.2		9.3		13.6		6.4		8.0	
COPPER	26.6		60.5		22.7		18.6		28.9	
IRON	14300		15900		21200		14100		16200	
LEAD	182		213		35.5		24.4		57.9	
MAGNESIUM	23900		12600		3570		25700		13500	
MANGANESE	369		232		440		347		706	
MERCURY	0 070	U	0.16		0.070	U	0.060	U	0.070	U
NICKEL	16.7		101		21.5		16.5		23.4	
POTASSIUM	925		1770		1970		1160		1660	
SELENIUM	0.64	U	1.1	U	0.62	U	0.57	U	0.63	U
SILVER	0.26	U	0 45	U	0.25	U	0.23	U	0.26	U
SODIUM	784		1110		561		520		535	
THALLIUM	1 0	U	1 7	U	0.98	U	0.90	U	1 0	U
VANADIUM	19.5		61.4		27.5		14.3		18.9	
ZINC	424		455		85 1		60.2		137	
CYANIDE	0.14	UJ	2.9	J	0 13	UJ	0.12	UJ	0 14	UJ

DISCLAIMER This package has been electronically assessed as an added service to our customer It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data

Analytical Results (Qualified Data)

Case #: 29954 SDG : ME00L0
Site CLARK
Lab. :
Reviewer :
ate

Sample Number :	ME00L0S									
Sampling Location :	X145									
Matrix :	Soil									
Units :	mg/Kg									
Date Sampled :	11/08/2001									
Time Sampled :	08:05									
%Solids :	69.3									
Dilution Factor :	1.0									
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM										
ANTIMONY	77.7									
ARSENIC	17.7									
BARIUM	640									
BERYLLIUM	14.2									
CADMIUM	14.1									
CALCIUM										
CHROMIUM	69.5									
COBALT	145									
COPPER	98.7									
IRON										
LEAD	63.4									
MAGNESIUM										
MANGANESE	838									
MERCURY	0.69									
NICKEL	157									
POTASSIUM										
SELENIUM	3.3									
SILVER	13.8									
SODIUM										
THALLIUM	12.8									
VANADIUM	155									
ZINC	268									
CYANIDE	5.2									

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

EPA Contract Laboratory Program
Inorganic Traffic Report

0940

Case No:	29954
DAS No:	
SDG No:	ME00L0

L

Date Shipped: 11/8/01	Date Received/Received by: Jessica Baltz 11/09/01	Sampler (Signature): 11/05/01 11/9/01 0940		
Carrier Name: FedEx	Lab Contract No: 68W00085 Unit Price: 100.00	Relinquished By:	Date / Time: 11/08/01 1530	Received By: Jessica Baltz
Airbill: 832620621180		Relinquished By:	Date / Time:	Received By:
Shipped to: Sentinel Inc. 116 Washington Street, NE Huntsville AL 35801 (256) 534-9800	Transfer To:	Relinquished By:	Date / Time:	Received By:
	Date Received/Received By:			
	Lab Contract No: Price:			

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00L0	Surface Soil (0"-12")/ Mark Wagner	L/G	TM/CN (21)	5-143963 (Ice Only) (1)	X145	11/8/01 8:05	E00L0	
ME00L1	Surface Soil (0"-12")/ Mark Wagner	L/G	TM/CN (21)	5-143965 (Ice Only) (1)	X120	11/8/01 8:25	E00L1	
ME00L2	Sediment/ Mark Wagner	M/G	TM/CN (21)	5-143967 (Ice Only) (1)	X207	11/8/01 8:45	E00L2	
ME00L3	Sediment/ Mark Wagner	L/G	TM/CN (21)	5-143971 (Ice Only) (1)	X209	11/8/01 10:05	E00L3	
ME00L4	Sediment/ Mark Wagner	L/G	TM/CN (21)	5-143975 (Ice Only) (1)	X208	11/8/01 9:45	E00L4	
ME00L5	Sediment/ Mark Wagner	L/G	TM/CN (21)	5-143979 (Ice Only) (1)	X211	11/8/01 11:10	E00L5	
ME00L6	Sediment/ Mark Wagner	L/G	TM/CN (21)	5-143983 (Ice Only) (1)	X210	11/8/01 10:40	E00L6	
ME00L7	Surface Soil (0"-12")/ Mark Wagner	L/G	TM/CN (21)	5-143987 (Ice Only) (1)	X101	11/8/01 12:20	E00L7	
ME00L8	Surface Water/ Mark Wagner	L/G	TM (21)	5-143989 (HNO3) (1)	S102	11/8/01 13:20	E00L8	
ME00L9	Soil/Sediment/ Mark Wagner	L/G	TM/CN (21)	5-143994 (Ice Only) (1)	X202	11/8/01 13:20	E00L9	

Shipment for Case Complete? Y	*Sample(s) to be used for laboratory QC:*	*Additional Sampler Signature(s):*	*Cooler Temperature Upon Receipt:* 3.0°C	*Chain of Custody Seal Number:* 26008
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide

174

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-110801-0002

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00L0

SOW No.: ILM04.1

EPA SAMPLE NO.	Lab Sample ID.
ME00L0	41851S
ME00L0D	41851S2
ME00L0S	41851MS
ME00L1	41852S
ME00L2	41853S
ME00L3	41854S
ME00L4	41855S
ME00L5	41856S
ME00L6	41857S
ME00L7	41858S
ME00L9	41859S

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 data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:

Name: BARI Gove Title: QA Mgr Date: 11/20/01

U.S. EPA - CLP
1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00L0

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00L0

Matrix (soil/water): SOIL Lab Sample ID: 41851S

Level (low/med): LOW Date Received: 11/09/01

% Solids: 69.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7450			P
7440-36-0	Antimony	0.72	U	N	P
7440-38-2	Arsenic	6.0			P
7440-39-3	Barium	73.9			P
7440-41-7	Beryllium	0.49	B		P
7440-43-9	Cadmium	0.51	B		P
7440-70-2	Calcium	24700			P
7440-47-3	Chromium	14.5			P
7440-48-4	Cobalt	7.9	B		P
7440-50-8	Copper	28.8			P
7439-89-6	Iron	16200			P
7439-92-1	Lead	59.9			P
7439-95-4	Magnesium	13100			P
7439-96-5	Manganese	712			P
7439-97-6	Mercury	0.07	U		CV
7440-02-0	Nickel	19.5			P
7440-09-7	Potassium	1670			P
7782-49-2	Selenium	0.63	U		P
7440-22-4	Silver	0.26	U		P
7440-23-5	Sodium	607	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	18.9			P
7440-66-6	Zinc	136			P
	Cyanide	0.14	U	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

U.S. EPA - CLP
1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00L1

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00L0

Matrix (soil/water): SOIL Lab Sample ID: 41852S

Level (low/med): LOW Date Received: 11/09/01

% Solids: 75.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11700			P
7440-36-0	Antimony	1.8	B	N	P
7440-38-2	Arsenic	7.1			P
7440-39-3	Barium	161			P
7440-41-7	Beryllium	0.69	B		P
7440-43-9	Cadmium	0.66	B		P
7440-70-2	Calcium	39300			P
7440-47-3	Chromium	24.5			P
7440-48-4	Cobalt	10.1	B		P
7440-50-8	Copper	43.4			P
7439-89-6	Iron	20300			P
7439-92-1	Lead	184			P
7439-95-4	Magnesium	22600			P
7439-96-5	Manganese	526			P
7439-97-6	Mercury	0.07	U		CV
7440-02-0	Nickel	27.8			P
7440-09-7	Potassium	2080			P
7782-49-2	Selenium	0.58	U		P
7440-22-4	Silver	0.24	U		P
7440-23-5	Sodium	3840			P
7440-28-0	Thallium	0.93	U		P
7440-62-2	Vanadium	27.6			P
7440-66-6	Zinc	276			P
	Cyanide	1.3		N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00L2

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00L0

Matrix (soil/water): SOIL Lab Sample ID: 41853S

Level (low/med): LOW Date Received: 11/09/01

% Solids: 45.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8500			P
7440-36-0	Antimony	4.9	B	N	P
7440-38-2	Arsenic	54.0			P
7440-39-3	Barium	150			P
7440-41-7	Beryllium	0.47	B		P
7440-43-9	Cadmium	0.60	B		P
7440-70-2	Calcium	39700			P
7440-47-3	Chromium	51.7			P
7440-48-4	Cobalt	12.0	B		P
7440-50-8	Copper	90.4			P
7439-89-6	Iron	88400			P
7439-92-1	Lead	788			P
7439-95-4	Magnesium	21500			P
7439-96-5	Manganese	447			P
7439-97-6	Mercury	1.3			CV
7440-02-0	Nickel	40.6			P
7440-09-7	Potassium	1530	B		P
7782-49-2	Selenium	0.98	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	984	B		P
7440-28-0	Thallium	3.6	B		P
7440-62-2	Vanadium	55.3			P
7440-66-6	Zinc	1580			P
	Cyanide	0.27	B	N	CA

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:
WATERY

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00L3

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00L0

Matrix (soil/water): SOIL Lab Sample ID: 41854S

Level (low/med): LOW Date Received: 11/09/01

% Solids: 31.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13000			P
7440-36-0	Antimony	3.8	B	N	P
7440-38-2	Arsenic	9.2			P
7440-39-3	Barium	124	B		P
7440-41-7	Beryllium	0.68	B		P
7440-43-9	Cadmium	2.1	B		P
7440-70-2	Calcium	36600			P
7440-47-3	Chromium	128			P
7440-48-4	Cobalt	13.0	B		P
7440-50-8	Copper	114			P
7439-89-6	Iron	23100			P
7439-92-1	Lead	214			P
7439-95-4	Magnesium	21200			P
7439-96-5	Manganese	334			P
7439-97-6	Mercury	0.25	B		CV
7440-02-0	Nickel	51.2			P
7440-09-7	Potassium	2570	B		P
7782-49-2	Selenium	1.6	B		P
7440-22-4	Silver	0.57	U		P
7440-23-5	Sodium	1820	B		P
7440-28-0	Thallium	2.2	U		P
7440-62-2	Vanadium	78.9			P
7440-66-6	Zinc	723			P
	Cyanide	0.30	U	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

U.S. EPA - CLP
1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00L4

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00L0

Matrix (soil/water): SOIL Lab Sample ID: 41855S

Level (low/med): LOW Date Received: 11/09/01

% Solids: 58.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8160			P
7440-36-0	Antimony	17.0	B	N	P
7440-38-2	Arsenic	11.6			P
7440-39-3	Barium	317			P
7440-41-7	Beryllium	0.48	B		P
7440-43-9	Cadmium	14.2			P
7440-70-2	Calcium	50300			P
7440-47-3	Chromium	67.3			P
7440-48-4	Cobalt	10.4	B		P
7440-50-8	Copper	402			P
7439-89-6	Iron	23900			P
7439-92-1	Lead	269			P
7439-95-4	Magnesium	30200			P
7439-96-5	Manganese	317			P
7439-97-6	Mercury	0.14	B		CV
7440-02-0	Nickel	57.0			P
7440-09-7	Potassium	1340	B		P
7782-49-2	Selenium	0.76	U		P
7440-22-4	Silver	0.42	B		P
7440-23-5	Sodium	2400			P
7440-28-0	Thallium	1.3	B		P
7440-62-2	Vanadium	28.6			P
7440-66-6	Zinc	1090			P
	Cyanide	0.63	B	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

7

U.S. EPA - CLP
1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00L5

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00L0

Matrix (soil/water): SOIL Lab Sample ID: 41856S

Level (low/med): LOW Date Received: 11/09/01

% Solids: 68.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5680			P
7440-36-0	Antimony	0.73	U	N	P
7440-38-2	Arsenic	7.2			P
7440-39-3	Barium	44.1	B		P
7440-41-7	Beryllium	0.28	B		P
7440-43-9	Cadmium	0.33	B		P
7440-70-2	Calcium	45500			P
7440-47-3	Chromium	16.1			P
7440-48-4	Cobalt	6.2	B		P
7440-50-8	Copper	26.6			P
7439-89-6	Iron	14300			P
7439-92-1	Lead	182			P
7439-95-4	Magnesium	23900			P
7439-96-5	Manganese	369			P
7439-97-6	Mercury	0.07	U		CV
7440-02-0	Nickel	16.7			P
7440-09-7	Potassium	925	B		P
7782-49-2	Selenium	0.64	U		P
7440-22-4	Silver	0.26	U		P
7440-23-5	Sodium	784	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	19.5			P
7440-66-6	Zinc	424			P
	Cyanide	0.14	U	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00L6

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00L0

Matrix (soil/water): SOIL Lab Sample ID: 41857S

Level (low/med): LOW Date Received: 11/09/01

Solids: 40.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10200			P
7440-36-0	Antimony	1.2	U	N	P
7440-38-2	Arsenic	4.2	B		P
7440-39-3	Barium	64.3	B		P
7440-41-7	Beryllium	0.47	B		P
7440-43-9	Cadmium	2.0	B		P
7440-70-2	Calcium	25800			P
7440-47-3	Chromium	38.2			P
7440-48-4	Cobalt	9.3	B		P
7440-50-8	Copper	60.5			P
7439-89-6	Iron	15900			P
7439-92-1	Lead	213			P
7439-95-4	Magnesium	12600			P
7439-96-5	Manganese	232			P
7439-97-6	Mercury	0.16	B		CV
7440-02-0	Nickel	101			P
7440-09-7	Potassium	1770	B		P
7782-49-2	Selenium	1.1	U		P
7440-22-4	Silver	0.45	U		P
7440-23-5	Sodium	1110	B		P
7440-28-0	Thallium	1.7	U		P
7440-62-2	Vanadium	61.4			P
7440-66-6	Zinc	455			P
	Cyanide	2.9		N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

U.S. EPA - CLP
1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00L7

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00L0

Matrix (soil/water): SOIL Lab Sample ID: 41858S

Level (low/med): LOW Date Received: 11/09/01

% Solids: 71.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13200			P
7440-36-0	Antimony	1.2	B	N	P
7440-38-2	Arsenic	8.2			P
7440-39-3	Barium	108			P
7440-41-7	Beryllium	0.68	B		P
7440-43-9	Cadmium	0.11	U		P
7440-70-2	Calcium	4830			P
7440-47-3	Chromium	19.4			P
7440-48-4	Cobalt	13.6	B		P
7440-50-8	Copper	22.7			P
7439-89-6	Iron	21200			P
7439-92-1	Lead	35.5			P
7439-95-4	Magnesium	3570			P
7439-96-5	Manganese	440			P
7439-97-6	Mercury	0.07	U		CV
7440-02-0	Nickel	21.5			P
7440-09-7	Potassium	1970			P
7782-49-2	Selenium	0.62	U		P
7440-22-4	Silver	0.25	U		P
7440-23-5	Sodium	561	B		P
7440-28-0	Thallium	0.98	U		P
7440-62-2	Vanadium	27.5			P
7440-66-6	Zinc	85.1			P
	Cyanide	0.13	U	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

U.S. EPA - CLP
1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00L9

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00L0

Matrix (soil/water): SOIL Lab Sample ID: 41859S

Level (low/med): LOW Date Received: 11/09/01

Solids: 77.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5590			P
7440-36-0	Antimony	0.64	U	N	P
7440-38-2	Arsenic	5.7			P
7440-39-3	Barium	43.0	B		P
7440-41-7	Beryllium	0.33	B		P
7440-43-9	Cadmium	0.10	U		P
7440-70-2	Calcium	48000			P
7440-47-3	Chromium	9.3			P
7440-48-4	Cobalt	6.4	B		P
7440-50-8	Copper	18.6			P
7439-89-6	Iron	14100			P
7439-92-1	Lead	24.4			P
7439-95-4	Magnesium	25700			P
7439-96-5	Manganese	347			P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	16.5			P
7440-09-7	Potassium	1160	B		P
7782-49-2	Selenium	0.57	U		P
7440-22-4	Silver	0.23	U		P
7440-23-5	Sodium	520	B		P
7440-28-0	Thallium	0.90	U		P
7440-62-2	Vanadium	14.3			P
7440-66-6	Zinc	60.2			P
	Cyanide	0.12	U	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

3

BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00L0

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	-52.0	B	31.8	U	-50.6	B	31.8	U	-7.352	B	P
Antimony	2.5	U	2.5	U	2.5	U	2.5	U	0.500	U	P
Arsenic	1.8	U	1.8	U	1.8	U	1.8	U	0.360	U	P
Barium	1.2	U	1.4	B	1.2	U	1.2	U	0.240	U	P
Beryllium	0.4	B	0.3	U	0.3	B	0.3	U	0.060	U	P
Cadmium	0.4	U	0.4	U	0.4	U	0.4	U	-0.110	B	P
Calcium	459.9	U	459.9	U	459.9	U	459.9	U	91.980	U	P
Chromium	-1.0	B	0.5	U	-0.9	B	0.5	U	-0.238	B	P
Cobalt	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Copper	1.5	U	1.5	U	1.5	U	1.5	U	0.300	U	P
Iron	-31.0	B	19.4	U	19.4	U	19.4	U	3.880	U	P
Lead	1.9	U	1.9	U	1.9	U	1.9	U	0.380	U	P
Magnesium	34.4	U	44.3	B	34.4	U	34.4	U	6.880	U	P
Manganese	1.5	U	1.5	U	1.5	U	1.5	U	0.300	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.050	U	CV
Nickel	0.9	U	0.9	U	0.9	U	0.9	U	-0.274	B	P
Potassium	20.2	U	20.2	U	20.2	U	20.2	U	4.040	U	P
Selenium	2.2	U	2.2	U	2.2	U	2.2	U	0.440	U	P
Silver	-1.2	B	0.9	U	0.9	U	0.9	U	0.180	U	P
Sodium	-604.5	B	-277.1	B	228.7	U	-718.4	B	-211.402	B	P
Thallium	3.5	U	3.5	U	-4.2	B	3.5	U	0.700	U	P
Vanadium	-1.3	B	1.1	U	1.1	U	1.1	U	0.220	U	P
Zinc	8.5	U	8.5	U	8.5	U	8.5	U	1.700	U	P
Cyanide	1.9	U	1.9	U	1.9	U	1.9	U	0.095	U	CA

U.S. EPA - CLP

3

BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00L0

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			31.8	U							P
Antimony			2.5	U							P
Arsenic			1.8	U							P
Barium			1.2	U							P
Beryllium			0.3	U							P
Cadmium			0.4	U							P
Calcium			459.9	U							P
Chromium			-0.8	B							P
Cobalt			1.0	U							P
Copper			1.5	U							P
Iron			19.4	U							P
Lead			1.9	U							P
Magnesium			34.4	U							P
Manganese			1.5	U							P
Mercury											NR
Nickel			0.9	U							P
Potassium			20.2	U							P
Selenium			2.2	U							P
Silver			-1.2	B							P
Sodium			-564.0	B							P
Thallium			3.5	U							P
Vanadium			1.1	U							P
Zinc			8.5	U							P
Cyanide											NR

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00L0S

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00L0

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 69.3

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	77.7146		0.7215	U	144.30	53.9	N	P
Arsenic	75-125	17.6696		6.0297		11.54	100.9		P
Barium	75-125	639.9114		73.9113		577.20	98.1		P
Beryllium	75-125	14.2129		0.4877	B	14.43	95.1		P
Cadmium	75-125	14.1341		0.5087	B	14.43	94.4		P
Calcium									NR
Chromium	75-125	69.4836		14.4931		57.72	95.3		P
Cobalt	75-125	145.4222		7.9447	B	144.30	95.3		P
Copper	75-125	98.6921		28.7769		72.15	96.9		P
Iron									NR
Lead		63.4000		59.9050		5.77	60.6		P
Magnesium									NR
Manganese		837.8945		712.1085		144.30	87.2		P
Mercury	75-125	0.6854		0.0722	U	0.72	95.2		CV
Nickel	75-125	156.8265		19.5300		144.30	95.1		P
Potassium									NR
Selenium	75-125	3.3195		0.6349	U	2.89	114.9		P
Silver	75-125	13.8493		0.2597	U	14.43	96.0		P
Sodium									NR
Thallium	75-125	12.7963		1.0101	U	14.43	88.7		P
Vanadium	75-125	155.0734		18.9104		144.30	94.4		P
Zinc	75-125	267.8088		136.1408		144.30	91.2		P
Cyanide	75-125	5.2138		0.1371	U	7.22	72.2	N	CA

Comments:

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00L0A

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00L0

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		115.62		2.50	U	120.0	96.4		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide		27.09		1.90	U	20.0	135.4		CA

Comments:

U.S. EPA - CLP

6

DUPLICATES

EPA SAMPLE NO.

ME00L0D

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00L0

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 69.3 % Solids for Duplicate: 69.3

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		7448.3566		7846.2448		5.2		P
Antimony		0.7215	U	0.7215	U			P
Arsenic	2.9	6.0297		6.6185		9.3		P
Barium	57.7	73.9113		75.7333		2.4		P
Beryllium		0.4877	B	0.4663	B	4.5		P
Cadmium		0.5087	B	0.3522	B	36.4		P
Calcium		24652.1149		25516.3567		3.4		P
Chromium		14.4931		14.4872		0.0		P
Cobalt		7.9447	B	7.9742	B	0.4		P
Copper	7.2	28.7769		28.8552		0.3		P
Iron		16150.6612		16199.5062		0.3		P
Lead		59.9050		57.9177		3.4		P
Magnesium		13082.9602		13453.6689		2.8		P
Manganese		712.1085		705.6541		0.9		P
Mercury		0.0722	U	0.0722	U			CV
Nickel	11.5	19.5300		23.3856		18.0		P
Potassium	1443.0	1666.1049		1663.4129		0.2		P
Selenium		0.6349	U	0.6349	U			P
Silver		0.2597	U	0.2597	U			P
Sodium		606.5395	B	534.6679	B	12.6		P
Thallium		1.0101	U	1.0101	U			P
Vanadium	14.4	18.9104		18.8623		0.3		P
Zinc		136.1408		136.5228		0.3		P
Cyanide		0.1371	U	0.1371	U			CA

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

ab Name: Sentinel, Inc. Contract: 68-W-00-085

ab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00L0

CP ID Number: P3 Date: 10/15/01

'lame AA ID Number:

'urnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	31.8	P
Antimony	206.80		60	2.5	P
Arsenic	189.00		10	1.8	P
Barium	493.40		200	1.2	P
Beryllium	313.00		5	0.3	P
Cadmium	226.50		5	0.4	P
Calcium	317.90		5000	459.9	P
Chromium	267.70		10	0.5	P
Cobalt	228.60		50	1.0	P
Copper	324.70		25	1.5	P
Iron	271.40		100	19.4	P
Lead	220.30		3	1.9	P
Magnesium	279.00		5000	34.4	P
Manganese	257.60		15	1.5	P
Mercury			0.2		NR
Nickel	231.60		40	0.9	P
Potassium	766.40		5000	20.2	P
Selenium	196.00		5	2.2	P
Silver	328.00		10	0.9	P
Sodium	330.20		5000	228.7	P
Thallium	190.80		10	3.5	P
Vanadium	292.40		50	1.1	P
Zinc	206.20		20	8.5	P
Cyanide			10		NR

Comments:

P3: THERMO JARRELL ASH

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

ab Name: Sentinel, Inc. Contract: 68-W-00-085

ab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00L0

CP ID Number: Date: 10/15/01

lame AA ID Number: C5

urnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10		NR

omments:
C5: CETAC M6000

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00L0

ICP ID Number: Date: 10/15/01

Flame AA ID Number: C1

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide	578.00		10	1.9	CA

Comments:
C1: LACHAT

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00L0

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	11/14/01	1.00	200
ME00L0	11/14/01	1.00	200
ME00L0D	11/14/01	1.00	200
ME00L0S	11/14/01	1.00	200
ME00L1	11/14/01	1.00	200
ME00L2	11/14/01	1.00	200
ME00L3	11/14/01	1.00	200
ME00L4	11/14/01	1.00	200
ME00L5	11/14/01	1.00	200
ME00L6	11/14/01	1.00	200
ME00L7	11/14/01	1.00	200
ME00L9	11/14/01	1.00	200
PBS	11/14/01	1.00	200

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00L0

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	11/14/01	0.20	100
ME00L0	11/14/01	0.20	100
ME00L0D	11/14/01	0.20	100
ME00L0S	11/14/01	0.20	100
ME00L1	11/14/01	0.20	100
ME00L2	11/14/01	0.20	100
ME00L3	11/14/01	0.20	100
ME00L4	11/14/01	0.20	100
ME00L5	11/14/01	0.20	100
ME00L6	11/14/01	0.20	100
ME00L7	11/14/01	0.20	100
ME00L9	11/14/01	0.20	100
PBS	11/14/01	0.20	100

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00L0

Method: CA

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	11/16/01	1.00	50
ME00L0	11/16/01	1.00	50
ME00L0D	11/16/01	1.00	50
ME00L0S	11/16/01	1.00	50
ME00L1	11/16/01	1.00	50
ME00L2	11/16/01	1.00	50
ME00L3	11/16/01	1.00	50
ME00L4	11/16/01	1.00	50
ME00L5	11/16/01	1.00	50
ME00L6	11/16/01	1.00	50
ME00L7	11/16/01	1.00	50
ME00L9	11/16/01	1.00	50
PBS	11/16/01	1.00	50
S100	11/16/01		50

DATE: November 29, 2001

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Clark

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
29954	Sentinel	14	ME00H6	Soil

==========

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

DEC 0 3 2001

NOV 2 9 2001

NOV 2 9 2001

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: November 29, 2001

SUBJECT: Review of Data
Received for Review on November 21, 2001

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

The data in this case has not been validated.
We have compiled the CADRE files into a narrative format for the following case:

SITE NAME: Clark

CASE NUMBER: 29954 SDG NUMBER: ME00H6

Number and Type of Samples: 14 soils

Sample Numbers: ME00H6-9; ME00J0,2,6-9; ME00K2-4,9

Laboratory: Sentinel Hrs. for Review: 2

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

Case Number : 29954
Site Name: Clark

SDG Number: ME00H6
Laboratory: Sentinel

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

NUMBER (##) MATRIX samples numbered ##, were collected on DATE. The lab received the samples on DATE in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using CLP SOW ILM04.1 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric procedure.

Assembled By: ESAT
Date: November 29, 2001

Case Number : 29954
Site Name: Clark

SDG Number: ME00H6
Laboratory: Sentinel

HOLDING TIME:

Holding Time Report

SDG NO: ME00H6

HOLDING TIME CRITERIA

Inorganic

	-- Holding Time --		------- pH -------	
	Primary	Expanded	Primary	Expanded
Metals	180	0	2.0	0.0
Mercury	28	0	2.0	0.0
Cyanide	14	0	12.0	0.0

DC-280: The following inorganic soil samples were reviewed for holding time violations using criteria developed for water samples.

ME00H6, ME00H7, ME00H8, ME00H9, ME00J0, ME00J2
ME00J2D, ME00J2S, ME00J6, ME00J7, ME00J8, ME00J9
ME00K2, ME00K3, ME00K4, ME00K9

CALIBRATIONS:

Calibration Report

SDG NO: ME00H6

CALIBRATION CRITERIA

Inorganic

Percent Recovery Limits

	--- Primary ---		-- Expanded ---	
	Low	High	Low	High
Cyanide	85.00	115.00	70.00	130.00
AA	90.00	110.00	75.00	125.00
ICP	90.00	110.00	75.00	125.00
Mercury	80.00	120.00	65.00	135.00

No problems found for this qualification.

Assembled By: ESAT
Date: November 29, 2001

Case Number : 29954
Site Name: Clark

SDG Number: ME00H6
Laboratory: Sentinel

CRDL Standards Report

SDG NO: ME00H6

DC-373: The following inorganic samples are associated with a CRDL standard with low percent recovery.

Lead
ME00J7, ME00J8, ME00J9, ME00K2, ME00K3, ME00K4
ME00K9

Mercury
ME00H6, ME00H7, ME00H8, ME00H9, ME00J0, ME00J2
ME00J6, ME00J7, ME00J8, ME00J9, ME00K2, ME00K3
ME00K4, ME00K9, PBS01

Thallium
ME00H6, ME00H7, ME00H8, ME00H9, ME00J0, ME00J2
ME00J6, ME00J7, ME00J8, ME00J9, ME00K2, ME00K3
ME00K4, ME00K9, PBS03

3. **BLANKS:**

Laboratory Blanks Report

SDG NO: ME00H6

LABORATORY BLANKS CRITERIA

DC-283: The following inorganic samples are associated with a blank analyte with negative concentration whose absolute value is greater than the instrument detection limit (IDL). Professional judgement should be used to qualify the data.

ME00H6
Aluminum, Chromium, Thallium

ME00H7
Aluminum, Chromium, Copper, Thallium

ME00H8
Aluminum, Chromium, Copper, Thallium

ME00H9
Aluminum, Chromium, Copper, Thallium

ME00J0
Aluminum, Chromium, Copper, Thallium

ME00J2
Aluminum, Chromium, Thallium

ME00J2D
Aluminum, Chromium, Thallium

Assembled By: ESAT
Date: November 29, 2001

ME00J2S
Chromium, Thallium

ME00J6
Aluminum, Chromium, Copper, Thallium

ME00J7
Chromium, Copper, Thallium

ME00J8
Chromium, Copper, Thallium

ME00J9
Chromium, Copper, Thallium

ME00K2
Chromium, Copper, Thallium

ME00K3
Chromium, Copper, Thallium

ME00K4
Chromium, Copper, Thallium

ME00K9
Chromium, Copper, Thallium

DC-284: The following inorganic samples are associated with a blank concentration which is greater than the instrument detection limit (IDL). The sample concentration is also greater than the IDL and less than five times the blank concentration. Hits are qualified "J"; non-detects are not flagged.

Chromium
ME00J2A

DC-338: During review of the following inorganic samples, the reported IDL/default CRDL value was used for cyanide.

ME00H6, ME00H7, ME00H8, ME00H9, ME00J0, ME00J2
ME00J2A, ME00J2D, ME00J2S, ME00J6, ME00J7, ME00J8
ME00J9, ME00K2, ME00K3, ME00K4, ME00K9

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

Matrix Spike Report

SDG NO: ME00H6

MATRIX SPIKE CRITERIA

Inorganic

Percent Recovery Limits

Assembled By: ESAT
Date: November 29, 2001

Upper	125.0
Lower	75.0
Extreme lower	30.0

DC-268: The following inorganic samples are associated with a matrix spike recovery which is low (30-74 %) indicating that sample results may be biased low.
Hits are qualified "J" and non-detects are qualified "UJ".

Chromium
ME00H6, ME00H7, ME00H8, ME00H9, ME00J0, ME00J2
ME00J2A, ME00J2D, ME00J6, ME00J7, ME00J8, ME00J9
ME00K2, ME00K3, ME00K4, ME00K9

Cyanide
ME00H6, ME00H7, ME00H8, ME00H9, ME00J0, ME00J2
ME00J2A, ME00J2D, ME00J6, ME00J7, ME00J8, ME00J9
ME00K2, ME00K3, ME00K4, ME00K9

LCS Report

SDG NO: ME00H6

No problems found for this qualification.

5. LABORATORY AND FIELD DUPLICATE

Duplicates Report

SDG NO: ME00H6

DC-256: The following inorganic samples are associated with duplicate results which did not meet relative percent difference (RPD) criteria.
Hits are qualified "J" and non-detects are qualified "UJ".

Calcium
ME00H6, ME00H7, ME00H8, ME00H9, ME00J0, ME00J2
ME00J6, ME00J7, ME00J8, ME00J9, ME00K2, ME00K3
ME00K4, ME00K9

Magnesium
ME00H6, ME00H7, ME00H8, ME00H9, ME00J0, ME00J2
ME00J6, ME00J7, ME00J8, ME00J9, ME00K2, ME00K3
ME00K4, ME00K9

Manganese
ME00H6, ME00H7, ME00H8, ME00H9, ME00J0, ME00J2
ME00J2S, ME00J6, ME00J7, ME00J8, ME00J9, ME00K2
ME00K3, ME00K4, ME00K9

6. ICP ANALYSIS

Assembled By: ESAT
Date: November 29, 2001

Case Number : 29954
Site Name: Clark

SDG Number: ME00H6
Laboratory: Sentinel

ICS Report

SDG NO: ME00H6

No problems found for this qualification.

Serial Dilution Report

SDG NO: ME00H6

DC-295: The following inorganic samples are associated with an ICP serial dilution percent difference which is not in criteria. The serial dilution result is greater than the sample result, indicating a potential negative interference. The data must be qualified using professional judgement. Hits are qualified "J", non-detects "UJ".

Potassium
ME00H6, ME00H7, ME00H8, ME00H9, ME00J0, ME00J2
ME00J2D, ME00J6, ME00J7, ME00J8, ME00J9, ME00K2
ME00K3, ME00K4, ME00K9

7. GFAA ANALYSIS

Furnace AA QC Report

SDG NO: ME00H6

No problems found for this qualification.

8. SAMPLE RESULTS

All data, except those qualified above, are acceptable.

Sample Result Verification Report

SDG NO: ME00H6

No problems found for this qualification.

Assembled By: ESAT
Date: November 29, 2001

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Case # 29954 SDG : ME00H6
Site : CLARK
Lab. : SENTIN
Reviewer :
Date :

Number of Soil Samples : 14
Number of Water Samples : 0

Sample Number :	ME00H6		ME00H7		ME00H8		ME00H9		ME00J0	
Sampling Location :	X102		X139		X136		X122		X144	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	11/06/2001		11/06/2001		11/06/2001		11/06/2001		11/06/2001	
Time Sampled :	15:00		15:20		15:50		16:35		17:00	
%Solids :	80.7		81.7		73.7		66.7		69.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	7410		7690		10600		10700		11400	
ANTIMONY	1.8		0.61	U	0.77		1.3		3.3	
ARSENIC	9.7		7.7		9.3		8.0		18.0	
BARIUM	193		78.6		123		602		215	
BERYLLIUM	0.51		0.48		0.59		0.76		0.70	
CADMIUM	5.0		0.68		0.87		1.6		1.6	
CALCIUM	5550	J	7110	J	8850	J	24200	J	11300	J
CHROMIUM	69.2	J	14.7	J	20.1	J	21.2	J	76.9	J
COBALT	6.8		8.8		12.4		9.6		12.3	
COPPER	70.1		22.0		232		45.3		119	
IRON	14400		15500		18800		18400		29300	
LEAD	88.5		48.6		88.6		206		450	
MAGNESIUM	2690	J	4010	J	5400	J	11800	J	6150	J
MANGANESE	272	J	381	J	905	J	474	J	658	J
MERCURY	0.27		0.060	U	0.10		0.18		0.51	
NICKEL	18.0		16.6		31.3		26.3		39.1	
POTASSIUM	1460	J	1450	J	2500	J	2220	J	2390	J
SELENIUM	0.55	U	0.54	U	0.71		0.70		0.63	U
SILVER	1.2		0.22	U	0.24	U	0.27	U	0.26	U
SODIUM	735		765		956		1050		1040	
THALLIUM	0.87	U	0.86	U	0.95	U	1.0	U	1.0	U
VANADIUM	19.9		19.9		24.5		24.7		27.0	
ZINC	195		96.4		219		372		458	
CYANIDE	0.54	J	2.7	J	0.13	UJ	0.14	UJ	0.14	UJ

DISCLAIMER This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data

Analytical Results (Qualified Data)

Case #: 29954 SDG : ME00H6
Site : CLARK
Lab. : SENTIN
Reviewer :
Date :

Sample Number :	ME00J2		ME00J6		ME00J7		ME00J8		ME00J9	
Sampling Location :	X204		X201		X215		X214		X250	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	11/07/2001		11/07/2001		11/07/2001		11/07/2001		11/07/2001	
Time Sampled :	09:00		11:30		12:00		12:15		12:15	
%Solids :	51.8		44.3		42.8		35.5		35.1	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	5170		5260		6770		8300		7400	
ANTIMONY	2.6		1.9		2.4		2.6		1.6	
ARSENIC	6.3		5.3		6.7		6.7		6.6	
BARIUM	356		152		170		187		173	
BERYLLIUM	0.56		0.35		0.46		0.51		0.48	
CADMIUM	1.2		2.1		2.3		2.9		2.8	
CALCIUM	49500	J	45300	J	53000	J	53900	J	47400	J
CHROMIUM	44.0	J	42.2	J	48.4	J	58.3	J	55.3	J
COBALT	5.6		7.1		8.5		8.5		8.0	
COPPER	72.5		89.6		90.4		103		95.8	
IRON	19200		24100		26900		26900		25100	
LEAD	471		183		182		175		164	
MAGNESIUM	26700	J	20300	J	24800	J	25500	J	21600	J
MANGANESE	263	J	548	J	579	J	580	J	545	J
MERCURY	4.4		0.26		0.36		0.32		0.51	
NICKEL	21.7		19.6		25.2		26.5		24.5	
POTASSIUM	887	J	1040	J	1270	J	1760	J	1590	J
SELENIUM	1.8		1.0		1.0	U	1.2	U	1.3	U
SILVER	8.0		1.5		1.7		2.0		1.9	
SODIUM	997		964		1090		1390		1340	
THALLIUM	1.4	U	1.6	U	1.6	U	2.0	U	2.0	U
VANADIUM	15.5		12.0		13.9		17.3		15.3	
ZINC	336		533		615		654		603	
CYANIDE	0.18	UJ	0.21	UJ	0.22	UJ	0.27	UJ	0.27	UJ

DISCLAIMER This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data

Analytical Results (Qualified Data)

Case #: 29954 SDG : ME00H6
Site : CLARK
Lab. : SENTIN
Reviewer :

Sample Number :	ME00K2		ME00K3		ME00K4		ME00K9		ME00J2D	
Sampling Location :	X212		X205		X203		X206		X204	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	11/07/2001		11/07/2001		11/07/2001		11/07/2001		11/07/2001	
Time Sampled :	13:00		15:15		15:45		16:15		09:00	
%Solids :	39.9		50.9		80.2		52.3		57.9	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	7510		6690		4670		7530		4280	
ANTIMONY	1.5		3.9		0.62	U	5.5		1.7	
ARSENIC	8.2		14.5		10.2		23.0		4.5	
BARIUM	175		202		39.7		69.2		288	
BERYLLIUM	0.53		0.70		0.33		0.38		0.41	
CADMIUM	2.5		5.9		0.26		0.81		1.4	
CALCIUM	50400	J	40600	J	41800	J	70800	J	29900	
CHROMIUM	52.0	J	71.5	J	10.3	J	46.7	J	49.3	J
COBALT	9.3		7.8		8.7		7.0		4.3	
COPPER	89.3		157		33.4		52.1		73.9	
IRON	25900		25600		18900		77700		25500	
LEAD	153		670		32.0		614		384	
MAGNESIUM	23200	J	19700	J	22900	J	40400	J	14000	
MANGANESE	549	J	583	J	393	J	379	J	4410	
MERCURY	0.37		1.2		0.060	U	0.16		3.7	
NICKEL	26.0		37.9		22.7		38.8		17.9	
POTASSIUM	1600	J	1120	J	1040	J	1720	J	760	J
SELENIUM	1.1	U	0.86	U	0.55	U	0.84	U	3.2	
SILVER	1.9		0.60		0.22	U	0.34	U	8.1	
SODIUM	1280		1440		776		944		769	
THALLIUM	1.8	U	1.4	U	0.87	U	1.3	U	1.4	U
VANADIUM	16.0		26.6		13.0		22.1		30.0	
ZINC	622		771		142		1860		302	
CYANIDE	0.24	UJ	0.19	UJ	0.12	UJ	0.18	UJ	0.18	UJ

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29954 SDG : ME00H6
Site CLARK
Lab. :
Reviewer :
Date :

Sample Number :	ME00J2S									
Sampling Location :	X204									
Matrix :	Soil									
Units :	mg/Kg									
Date Sampled :	11/07/2001									
Time Sampled :	09:00									
%Solids :	51.8									
Dilution Factor :	1.0									
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM										
ANTIMONY	148									
ARSENIC	20.8									
BARIUM	1080									
BERYLLIUM	19.0									
CADMIUM	19.7									
CALCIUM										
CHROMIUM	98.0									
COBALT	190									
COPPER	180									
IRON										
LEAD	441									
MAGNESIUM										
MANGANESE	455	J								
MERCURY	4.0									
NICKEL	205									
POTASSIUM										
SELENIUM	5.9									
SILVER	27.6									
SODIUM										
THALLIUM	16.8									
VANADIUM	200									
ZINC	509									
CYANIDE	6.0									

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 29954
DAS No:
SDG No: ME00H6

L

Date Shipped: 11/7/01 Carrier Name: FedEx Airbill: 832620621125 Shipped to: Sentinel Inc. 116 Washington Street, NE Huntsville AL 35801 (256) 534-9800	Date Received/Received by: Jessica Baltz 11/08/01 0943 Lab Contract No: 68W00085 Unit Price: 100.00 Transfer To: Date Received/Received By: ~~Jessica Baltz 11/08/01~~ Lab Contract No: ~~68W00085~~ Price: ~~100.00~~ JB 11/12/01	Sampler (Signature): Paul Mason 11/08/01 0943 Relinquished By: Paul Mason Relinquished By: Relinquished By:	Date / Time: 11-7-01 6:15P Date / Time: Date / Time:
			Received By: Jessica Baltz Received By: Received By:

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00H1	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59948 (Ice Only) (1)	X105	11/6/01 12:45	E00H1	
ME00H2	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59950 (Ice Only) (1)	X130	11/6/01 13:45	E00H2	
ME00H3	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59952 (Ice Only) (1)	X133	11/6/01 14:05	E00H3	
ME00H4	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59954 (Ice Only) (1)	X132	11/6/01 14:15	E00H4	
ME00H5	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59956 (Ice Only) (1)	X112	11/6/01 14:35	E00H5	
ME00H6	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59958 (Ice Only) (1)	X102	11/6/01 15:00	E00H6	
ME00H7	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59960 (Ice Only) (1)	X139	11/6/01 15:20	E00H7	
ME00H8	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59962 (Ice Only) (1)	X136	11/6/01 15:50	E00H8	
ME00H9	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59964 (Ice Only) (1)	X122	11/6/01 16:35	E00H9	
ME00J0	Surface Soil (0"-12")/ Paul Mason	L/G	TM/CN (21)	5-59966 (Ice Only) (1)	X144	11/6/01 17:00	E00J0	

Original Documents Are Included In CSF ME00G0

Signature: Jessica Baltz
Date: 11/08/01

Copy

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: ME00G6, ME00J2, ME00J3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 20°C, -0.5°C, 2.5°C	Chain of Custody Seal Number: 81138, 81142, 81143
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y
TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide				2 of 3

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-110701-0003

EPA Contract Laboratory Program
Inorganic Traffic Report

Case No: 29954
DAS No:
SDG No: ME00H6

L

Jessica Baltz 11/08/01 0943

Date Shipped: 11/7/01 Carrier Name: FedEx Airbill: 832620621125 Shipped to: Sentinel Inc. 116 Washington Street, NE Huntsville AL 35801 (256) 534-9800	Date Received/Received by: ~~Jessica Baltz~~ JB 11/12/01 Lab Contract No: 68W00085 Unit Price: 100.00 Transfer To: Date Received/Received By: ~~11/08/01 Jessica Baltz~~ Lab Contract No: ~~68W00085~~ Price: ~~100.00~~ JB 11/12/01	Sampler (Signature): 11/08/01 0943 Relinquished By: Date / Time: 11-7-01 6:15p Received By: Jessica Baltz Relinquished By: Date / Time: Received By: Relinquished By: Date / Time: Received By:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00J2	Sediment/ Paul Mason	L/G	TM/CN (21)	5-59968 (Ice Only) (1)	X204	11/7/01 9:00	E00J2	
ME00J3	Surface Water/ Paul Mason	L/G	TM (21)	5-59972 (HNO3), 5-59973 (HNO3), 5-59974 (HNO3) (3)	S104	11/7/01 9:00	E00J3	
ME00J4	Surface Water/ Paul Mason	L/G	TM (21)	5-59987 (HNO3) (1)	S114	11/7/01 10:40	E00J4	
ME00J5	Surface Water/ Paul Mason	L/G	TM (21)	5-59992 (HNO3) (1)	S101	11/7/01 11:15	E00J5	
ME00J6	Sediment/ Paul Mason	L/G	TM/CN (21)	5-59997 (Ice Only) (1)	X201	11/7/01 11:30	E00J6	
ME00J7	Sediment/ Paul Mason	L/G	TM/CN (21)	5-122283 (Ice Only) (1)	X215	11/7/01 12:00	E00J7	
ME00J8	Sediment/ Paul Mason	L/G	TM/CN (21)	5-122287 (Ice Only) (1)	X214	11/7/01 12:15	E00J8	
ME00J9	Sediment/ Paul Mason	L/G	TM/CN (21)	5-122291 (Ice Only) (1)	X250	11/7/01 12:15	E00J9	
ME00K2	Sediment/ Paul Mason	L/G	TM/CN (21)	5-122299 (Ice Only) (1)	X212	11/7/01 13:00	E00K2	
ME00K3	Sediment/ Paul Mason	L/G	TM/CN (21)	5-59004 (Ice Only) (1)	X205	11/7/01 15:15	E00K3	
ME00K4	Sediment/ Paul Mason	L/G	TM/CN (21)	5-59008 (Ice Only) (1)	X203	11/7/01 15:45	E00K4	
ME00K5	Surface Water/ Paul Mason	M/G	TM (21)	5-122303 (HNO3) (1)	S103	11/7/01 15:45	E00K5	
ME00K6	Surface Water/ Paul Mason	L/G	TM (21)	5-122308 (HNO3) (1)	S106	11/7/01 16:15	E00K6	
ME00K7	Surface Water/ Paul Mason	L/G	TM (21)	5-122313 (HNO3) (1)	S150	11/7/01 16:15	E00K7	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: ME00G6, ME00J2, ME00J3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2.0°C, -0.5°C, 2.5°C	Chain of Custody Seal Number: 81138, 81142, 81143
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y Shipment Iced? Y
TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide				2 of 3

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-110701-0003

EPA Contract Laboratory Program
Inorganic Traffic Report

Case No: 29954
DAS No:
SDG No: ME00H6

L

Date Shipped: 11/7/01 Carrier Name: FedEx Airbill: 832620621125 Shipped to: Sentinel Inc. 116 Washington Street, NE Huntsville AL 35801 (256) 534-9800	Date Received/Received by: Jessica Baltz 11/08/01 0943 Lab Contract No: 68W00085 Unit Price: 100.00 Transfer To: Date Received/Received By: Jessica Baltz 11/08/01 Lab Contract No: 68W00085 Price: 100.00 JB 11/12/01	Sampler (Signature): 11/08/01 0943 Relinquished By: Date / Time: 11-7-01 6:15p Received By: Jessica Baltz Relinquished By: Date / Time: Received By: Relinquished By: Date / Time: Received By:	

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME00K8	Surface Water/ Paul Mason	L/G	TM (21)	5-122318 (HNO3) (1)	Field Blank	11/7/01 17:00	E00K8	
ME00K9	Sediment/ Paul Mason	M/G	TM/CN (21)	5-143959 (Ice Only) (1)	X206	11/7/01 16:15	E00K9	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: ME00G6, ME00J2, ME00J3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2.0°C, -0.5°C, 25°C	Chain of Custody Seal Number: 81138, 81142, 81143
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y
TM = CLP TAL Total Metals, TM/CN = CLP TAL Total Metals and Cyanide				2 of 3

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-110701-0003

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

SOW No.: ILM04.1

EPA SAMPLE NO.	Lab Sample ID.
ME00H6	41824S
ME00H7	41825S
ME00H8	41826S
ME00H9	41827S
ME00J0	41828S
ME00J2	41829S
ME00J2D	41829S2
ME00J2S	41829MS
ME00J6	41830S
ME00J7	41831S
ME00J8	41832S
ME00J9	41833S
ME00K2	41834S
ME00K3	41835S
ME00K4	41836S
ME00K9	41837S

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 data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature:

Name: BRKilgore Title: QA Officer Date: 11/19/01

U.S. EPA - CLP
1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00H6

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Matrix (soil/water): SOIL Lab Sample ID: 41824S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 80.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7410			P
7440-36-0	Antimony	1.8	B		P
7440-38-2	Arsenic	9.7			P
7440-39-3	Barium	193			P
7440-41-7	Beryllium	0.51	B		P
7440-43-9	Cadmium	5.0			P
7440-70-2	Calcium	5550		*	P
7440-47-3	Chromium	69.2		N	P
7440-48-4	Cobalt	6.8	B		P
7440-50-8	Copper	70.1			P
7439-89-6	Iron	14400		*	P
7439-92-1	Lead	88.5			P
7439-95-4	Magnesium	2690		*	P
7439-96-5	Manganese	272		*	P
7439-97-6	Mercury	0.27			CV
7440-02-0	Nickel	18.0			P
7440-09-7	Potassium	1460		E	P
7782-49-2	Selenium	0.55	U		P
7440-22-4	Silver	1.2	B		P
7440-23-5	Sodium	735	B		P
7440-28-0	Thallium	0.87	U		P
7440-62-2	Vanadium	19.9			P
7440-66-6	Zinc	195			P
	Cyanide	0.54	B	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME00H7

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Matrix (soil/water): SOIL Lab Sample ID: 41825S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 81.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7690			P
7440-36-0	Antimony	0.61	U		P
7440-38-2	Arsenic	7.7			P
7440-39-3	Barium	78.6			P
7440-41-7	Beryllium	0.48	B		P
7440-43-9	Cadmium	0.68	B		P
7440-70-2	Calcium	7110		*	P
7440-47-3	Chromium	14.7		N	P
7440-48-4	Cobalt	8.8	B		P
7440-50-8	Copper	22.0			P
7439-89-6	Iron	15500		*	P
7439-92-1	Lead	48.6			P
7439-95-4	Magnesium	4010		*	P
7439-96-5	Manganese	381		*	P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	16.6			P
7440-09-7	Potassium	1450		E	P
7782-49-2	Selenium	0.54	U		P
7440-22-4	Silver	0.22	U		P
7440-23-5	Sodium	765	B		P
7440-28-0	Thallium	0.86	U		P
7440-62-2	Vanadium	19.9			P
7440-66-6	Zinc	96.4			P
	Cyanide	2.7		N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

U.S. EPA - CLP
1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00H8

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Matrix (soil/water): SOIL Lab Sample ID: 41826S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 73.7

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10600			P
7440-36-0	Antimony	0.77	B		P
7440-38-2	Arsenic	9.3			P
7440-39-3	Barium	123			P
7440-41-7	Beryllium	0.59	B		P
7440-43-9	Cadmium	0.87	B		P
7440-70-2	Calcium	8850		*	P
7440-47-3	Chromium	20.1		N	P
7440-48-4	Cobalt	12.4	B		P
7440-50-8	Copper	232			P
7439-89-6	Iron	18800		*	P
7439-92-1	Lead	88.6			P
7439-95-4	Magnesium	5400		*	P
7439-96-5	Manganese	905		*	P
7439-97-6	Mercury	0.10	B		CV
7440-02-0	Nickel	31.3			P
7440-09-7	Potassium	2500		E	P
7782-49-2	Selenium	0.71	B		P
7440-22-4	Silver	0.24	U		P
7440-23-5	Sodium	956	B		P
7440-28-0	Thallium	0.95	U		P
7440-62-2	Vanadium	24.5			P
7440-66-6	Zinc	219			P
	Cyanide	0.13	U	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME00H9

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Matrix (soil/water): SOIL Lab Sample ID: 41827S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 66.7

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	1.3	B		P
7440-38-2	Arsenic	8.0			P
7440-39-3	Barium	602			P
7440-41-7	Beryllium	0.76	B		P
7440-43-9	Cadmium	1.6			P
7440-70-2	Calcium	24200		*	P
7440-47-3	Chromium	21.2		N	P
7440-48-4	Cobalt	9.6	B		P
7440-50-8	Copper	45.3			P
7439-89-6	Iron	18400		*	P
7439-92-1	Lead	206			P
7439-95-4	Magnesium	11800		*	P
7439-96-5	Manganese	474		*	P
7439-97-6	Mercury	0.18			CV
7440-02-0	Nickel	26.3			P
7440-09-7	Potassium	2220		E	P
7782-49-2	Selenium	0.70	B		P
7440-22-4	Silver	0.27	U		P
7440-23-5	Sodium	1050	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	24.7			P
7440-66-6	Zinc	372			P
	Cyanide	0.14	U	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00J0

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Matrix (soil/water): SOIL Lab Sample ID: 41828S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 69.4

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	11400			P
7440-36-0	Antimony	3.3	B		P
7440-38-2	Arsenic	18.0			P
7440-39-3	Barium	215			P
7440-41-7	Beryllium	0.70	B		P
7440-43-9	Cadmium	1.6			P
7440-70-2	Calcium	11300		*	P
7440-47-3	Chromium	76.9		N	P
7440-48-4	Cobalt	12.3	B		P
7440-50-8	Copper	119			P
7439-89-6	Iron	29300		*	P
7439-92-1	Lead	450			P
7439-95-4	Magnesium	6150		*	P
7439-96-5	Manganese	658		*	P
7439-97-6	Mercury	0.51			CV
7440-02-0	Nickel	39.1			P
7440-09-7	Potassium	2390		E	P
7782-49-2	Selenium	0.63	U		P
7440-22-4	Silver	0.26	U		P
7440-23-5	Sodium	1040	B		P
7440-28-0	Thallium	1.0	U		P
7440-62-2	Vanadium	27.0			P
7440-66-6	Zinc	458			P
	Cyanide	0.14	U	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00J2

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Matrix (soil/water): SOIL Lab Sample ID: 41829S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 51.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5170			P
7440-36-0	Antimony	2.6	B		P
7440-38-2	Arsenic	6.3			P
7440-39-3	Barium	356			P
7440-41-7	Beryllium	0.56	B		P
7440-43-9	Cadmium	1.2	B		P
7440-70-2	Calcium	49500		*	P
7440-47-3	Chromium	44.0		N	P
7440-48-4	Cobalt	5.6	B		P
7440-50-8	Copper	72.5			P
7439-89-6	Iron	19200		*	P
7439-92-1	Lead	471			P
7439-95-4	Magnesium	26700		*	P
7439-96-5	Manganese	263		*	P
7439-97-6	Mercury	4.4			CV
7440-02-0	Nickel	21.7			P
7440-09-7	Potassium	887	B	E	P
7782-49-2	Selenium	1.8	B		P
7440-22-4	Silver	8.0			P
7440-23-5	Sodium	997	B		P
7440-28-0	Thallium	1.4	U		P
7440-62-2	Vanadium	15.5	B		P
7440-66-6	Zinc	336			P
	Cyanide	0.18	U	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:
WATERY

U.S. EPA - CLP
1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00J6

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Matrix (soil/water): SOIL Lab Sample ID: 41830S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 44.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	5260			P
7440-36-0	Antimony	1.9	B		P
7440-38-2	Arsenic	5.3			P
7440-39-3	Barium	152			P
7440-41-7	Beryllium	0.35	B		P
7440-43-9	Cadmium	2.1	B		P
7440-70-2	Calcium	45300		*	P
7440-47-3	Chromium	42.2		N	P
7440-48-4	Cobalt	7.1	B		P
7440-50-8	Copper	89.6			P
7439-89-6	Iron	24100		*	P
7439-92-1	Lead	183			P
7439-95-4	Magnesium	20300		*	P
7439-96-5	Manganese	548		*	P
7439-97-6	Mercury	0.26			CV
7440-02-0	Nickel	19.6			P
7440-09-7	Potassium	1040	B	E	P
7782-49-2	Selenium	1.0	B		P
7440-22-4	Silver	1.5	B		P
7440-23-5	Sodium	964	B		P
7440-28-0	Thallium	1.6	U		P
7440-62-2	Vanadium	12.0	B		P
7440-66-6	Zinc	533			P
	Cyanide	0.21	U	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:
WATERY

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00J7

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Matrix (soil/water): SOIL Lab Sample ID: 41831S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 42.8

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6770			P
7440-36-0	Antimony	2.4	B		P
7440-38-2	Arsenic	6.7			P
7440-39-3	Barium	170			P
7440-41-7	Beryllium	0.46	B		P
7440-43-9	Cadmium	2.3	B		P
7440-70-2	Calcium	53000		*	P
7440-47-3	Chromium	48.4		N	P
7440-48-4	Cobalt	8.5	B		P
7440-50-8	Copper	90.4			P
7439-89-6	Iron	26900		*	P
7439-92-1	Lead	182			P
7439-95-4	Magnesium	24800		*	P
7439-96-5	Manganese	579		*	P
7439-97-6	Mercury	0.36			CV
7440-02-0	Nickel	25.2			P
7440-09-7	Potassium	1270	B	E	P
7782-49-2	Selenium	1.0	U		P
7440-22-4	Silver	1.7	B		P
7440-23-5	Sodium	1090	B		P
7440-28-0	Thallium	1.6	U		P
7440-62-2	Vanadium	13.9	B		P
7440-66-6	Zinc	615			P
	Cyanide	0.22	U	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:
WATERY

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00J8

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Matrix (soil/water): SOIL Lab Sample ID: 41832S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 35.5

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8300			P
7440-36-0	Antimony	2.6	B		P
7440-38-2	Arsenic	6.7			P
7440-39-3	Barium	187			P
7440-41-7	Beryllium	0.51	B		P
7440-43-9	Cadmium	2.9			P
7440-70-2	Calcium	53900		*	P
7440-47-3	Chromium	58.3		N	P
7440-48-4	Cobalt	8.5	B		P
7440-50-8	Copper	103			P
7439-89-6	Iron	26900		*	P
7439-92-1	Lead	175			P
7439-95-4	Magnesium	25500		*	P
7439-96-5	Manganese	580		*	P
7439-97-6	Mercury	0.32			CV
7440-02-0	Nickel	26.5			P
7440-09-7	Potassium	1760	B	E	P
7782-49-2	Selenium	1.2	U		P
7440-22-4	Silver	2.0	B		P
7440-23-5	Sodium	1390	B		P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	17.3	B		P
7440-66-6	Zinc	654			P
	Cyanide	0.27	U	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:
WATERY

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME00J9

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Matrix (soil/water): SOIL Lab Sample ID: 41833S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 35.1

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7400			P
7440-36-0	Antimony	1.6	B		P
7440-38-2	Arsenic	6.6			P
7440-39-3	Barium	173			P
7440-41-7	Beryllium	0.48	B		P
7440-43-9	Cadmium	2.8	B		P
7440-70-2	Calcium	47400		*	P
7440-47-3	Chromium	55.3		N	P
7440-48-4	Cobalt	8.0	B		P
7440-50-8	Copper	95.8			P
7439-89-6	Iron	25100		*	P
7439-92-1	Lead	164			P
7439-95-4	Magnesium	21600		*	P
7439-96-5	Manganese	545		*	P
7439-97-6	Mercury	0.51			CV
7440-02-0	Nickel	24.5			P
7440-09-7	Potassium	1590	B	E	P
7782-49-2	Selenium	1.3	U		P
7440-22-4	Silver	1.9	B		P
7440-23-5	Sodium	1340	B		P
7440-28-0	Thallium	2.0	U		P
7440-62-2	Vanadium	15.3	B		P
7440-66-6	Zinc	603			P
	Cyanide	0.27	U	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:
WATERY

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00K2

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Matrix (soil/water): SOIL Lab Sample ID: 41834S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 39.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7510			P
7440-36-0	Antimony	1.5	B		P
7440-38-2	Arsenic	8.2			P
7440-39-3	Barium	175			P
7440-41-7	Beryllium	0.53	B		P
7440-43-9	Cadmium	2.5	B		P
7440-70-2	Calcium	50400		*	P
7440-47-3	Chromium	52.0		N	P
7440-48-4	Cobalt	9.3	B		P
7440-50-8	Copper	89.3			P
7439-89-6	Iron	25900		*	P
7439-92-1	Lead	153			P
7439-95-4	Magnesium	23200		*	P
7439-96-5	Manganese	549		*	P
7439-97-6	Mercury	0.37			CV
7440-02-0	Nickel	26.0			P
7440-09-7	Potassium	1600	B	E	P
7782-49-2	Selenium	1.1	U		P
7440-22-4	Silver	1.9	B		P
7440-23-5	Sodium	1280	B		P
7440-28-0	Thallium	1.8	U		P
7440-62-2	Vanadium	16.0	B		P
7440-66-6	Zinc	622			P
	Cyanide	0.24	U	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:
WATERY

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

ME00K3

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Matrix (soil/water): SOIL Lab Sample ID: 41835S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 50.9

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6690			P
7440-36-0	Antimony	3.9	B		P
7440-38-2	Arsenic	14.5			P
7440-39-3	Barium	202			P
7440-41-7	Beryllium	0.70	B		P
7440-43-9	Cadmium	5.9			P
7440-70-2	Calcium	40600		*	P
7440-47-3	Chromium	71.5		N	P
7440-48-4	Cobalt	7.8	B		P
7440-50-8	Copper	157			P
7439-89-6	Iron	25600		*	P
7439-92-1	Lead	670			P
7439-95-4	Magnesium	19700		*	P
7439-96-5	Manganese	583		*	P
7439-97-6	Mercury	1.2			CV
7440-02-0	Nickel	37.9			P
7440-09-7	Potassium	1120	B	E	P
7782-49-2	Selenium	0.86	U		P
7440-22-4	Silver	0.60	B		P
7440-23-5	Sodium	1440	B		P
7440-28-0	Thallium	1.4	U		P
7440-62-2	Vanadium	26.6			P
7440-66-6	Zinc	771			P
	Cyanide	0.19	U	N	CA

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:
WATERY

U.S. EPA - CLP
1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00K4

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Matrix (soil/water): SOIL Lab Sample ID: 41836S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 80.2

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4670			P
7440-36-0	Antimony	0.62	U		P
7440-38-2	Arsenic	10.2			P
7440-39-3	Barium	39.7	B		P
7440-41-7	Beryllium	0.33	B		P
7440-43-9	Cadmium	0.26	B		P
7440-70-2	Calcium	41800		*	P
7440-47-3	Chromium	10.3		N	P
7440-48-4	Cobalt	8.7	B		P
7440-50-8	Copper	33.4			P
7439-89-6	Iron	18900		*	P
7439-92-1	Lead	32.0			P
7439-95-4	Magnesium	22900		*	P
7439-96-5	Manganese	393		*	P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	22.7			P
7440-09-7	Potassium	1040	B	E	P
7782-49-2	Selenium	0.55	U		P
7440-22-4	Silver	0.22	U		P
7440-23-5	Sodium	776	B		P
7440-28-0	Thallium	0.87	U		P
7440-62-2	Vanadium	13.0			P
7440-66-6	Zinc	142			P
	Cyanide	0.12	U	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

U.S. EPA - CLP
1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME00K9

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Matrix (soil/water): SOIL Lab Sample ID: 41837S

Level (low/med): LOW Date Received: 11/08/01

% Solids: 52.3

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7530			P
7440-36-0	Antimony	5.5	B		P
7440-38-2	Arsenic	23.0			P
7440-39-3	Barium	69.2	B		P
7440-41-7	Beryllium	0.38	B		P
7440-43-9	Cadmium	0.81	B		P
7440-70-2	Calcium	70800		*	P
7440-47-3	Chromium	46.7		N	P
7440-48-4	Cobalt	7.0	B		P
7440-50-8	Copper	52.1			P
7439-89-6	Iron	77700		*	P
7439-92-1	Lead	614			P
7439-95-4	Magnesium	40400		*	P
7439-96-5	Manganese	379		*	P
7439-97-6	Mercury	0.16	B		CV
7440-02-0	Nickel	38.8			P
7440-09-7	Potassium	1720	B	E	P
7782-49-2	Selenium	0.84	U		P
7440-22-4	Silver	0.34	U		P
7440-23-5	Sodium	944	B		P
7440-28-0	Thallium	1.3	U		P
7440-62-2	Vanadium	22.1			P
7440-66-6	Zinc	1860			P
	Cyanide	0.18	U	N	CA

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:
WATERY

U.S. EPA - CLP

3

BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	-37.4	B	39.4	B	-52.1	B	51.7	B	6.360	U	P
Antimony	2.5	U	2.5	U	2.5	U	2.5	U	0.500	U	P
Arsenic	1.8	U	1.8	U	1.8	U	1.8	U	0.360	U	P
Barium	1.3	B	1.2	U	1.2	U	1.2	U	0.240	U	P
Beryllium	0.3	U	0.3	U	0.3	U	0.3	U	0.060	U	P
Cadmium	0.4	U	0.4	U	0.4	U	0.4	U	0.080	U	P
Calcium	459.9	U	459.9	U	459.9	U	459.9	U	91.980	U	P
Chromium	-0.7	B	0.6	B	-0.7	B	-0.9	B	0.100	U	P
Cobalt	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Copper	1.5	U	1.5	U	1.5	U	-2.6	B	0.300	U	P
Iron	19.4	U	19.4	U	19.4	U	19.4	U	64.135		P
Lead	1.9	U	1.9	U	1.9	U	1.9	U	0.380	U	P
Magnesium	34.4	U	39.2	B	-35.2	B	57.2	B	6.880	U	P
Manganese	1.5	U	1.5	U	1.5	U	1.5	U	1.074	B	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.050	U	CV
Nickel	0.9	U	1.0	B	0.9	U	0.9	U	0.180	U	P
Potassium	20.2	U	20.2	U	20.2	U	20.2	U	4.040	U	P
Selenium	2.2	U	2.2	U	2.2	U	2.2	U	0.440	U	P
Silver	0.9	U	0.9	U	0.9	U	0.9	U	0.180	U	P
Sodium	228.7	U	228.7	U	228.7	U	228.7	U	45.740	U	P
Thallium	3.5	U	3.5	U	3.5	U	3.5	U	-0.765	B	P
Vanadium	1.1	U	1.1	U	1.1	U	1.1	U	0.220	U	P
Zinc	8.5	U	8.5	U	8.5	U	8.5	U	1.700	U	P
Cyanide	1.9	U	1.9	U	1.9	U	1.9	U	0.095	U	CA

U.S. EPA - CLP

3

BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			-45.2	B	57.5	B					P
Antimony			2.5	U	2.5	U					P
Arsenic			1.8	U	1.8	U					P
Barium			1.2	U	1.2	U					P
Beryllium			0.3	U	0.3	U					P
Cadmium			0.4	U	0.4	U					P
Calcium			459.9	U	459.9	U					P
Chromium			-0.6	B	-0.5	B					P
Cobalt			1.0	U	1.0	U					P
Copper			1.5	U	-1.6	B					P
Iron			19.4	U	27.3	B					P
Lead			1.9	U	1.9	U					P
Magnesium			34.4	U	58.5	B					P
Manganese			1.5	U	1.5	U					P
Mercury											NR
Nickel			0.9	U	0.9	U					P
Potassium			20.2	U	20.2	U					P
Selenium			2.2	U	2.2	U					P
Silver			0.9	U	0.9	U					P
Sodium			228.7	U	228.7	U					P
Thallium			3.5	U	3.5	U					P
Vanadium			1.1	U	1.1	U					P
Zinc			8.5	U	8.5	U					P
Cyanide			1.9	U							CA

U.S. EPA - CLP

3

BLANKS

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium	0.5	U	0.5	U	4.1	B	0.5	U			P
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00J2S

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 51.8

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	148.1258		2.6452	B	193.05	75.4		P
Arsenic	75-125	20.8439		6.3198		15.44	94.1		P
Barium	75-125	1083.3713		355.9952		772.20	94.2		P
Beryllium	75-125	18.9989		0.5624	B	19.31	95.5		P
Cadmium	75-125	19.6858		1.1502	B	19.31	96.0		P
Calcium									NR
Chromium	75-125	97.9994		44.0298		77.22	69.9	N	P
Cobalt	75-125	189.8366		5.5773	B	193.05	95.4		P
Copper	75-125	179.9444		72.4872		96.53	111.3		P
Iron									NR
Lead		441.1419		471.3915		7.72	-391.8		P
Magnesium									NR
Manganese	75-125	454.7556		262.5335		193.05	99.6		P
Mercury		3.9865		4.4015		0.97	-42.8		CV
Nickel	75-125	204.5520		21.7387		193.05	94.7		P
Potassium									NR
Selenium	75-125	5.9454		1.7538	B	3.86	108.6		P
Silver	75-125	27.6493		7.9575		19.31	102.0		P
Sodium									NR
Thallium	75-125	16.7802		1.3514	U	19.31	86.9		P
Vanadium	75-125	200.3435		15.4554	B	193.05	95.8		P
Zinc	75-125	509.1614		336.2682		193.05	89.6		P
Cyanide	75-125	5.9995		0.1834	U	9.65	62.2	N	CA

Comments:

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME00J2A

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium		329.63		114.04		228.1	94.5		P
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide		14.75		1.90	U	20.0	73.8		CA

Comments:

U.S. EPA - CLP

6

DUPLICATES

EPA SAMPLE NO.

ME00J2D

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 51.8 % Solids for Duplicate: 57.9

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		5173.3943		4283.2523		18.8		P
Antimony		2.6452	B	1.6935	B	43.9		P
Arsenic	3.9	6.3198		4.4527		34.7		P
Barium	77.2	355.9952		288.2372		21.0		P
Beryllium		0.5624	B	0.4065	B	32.2		P
Cadmium		1.1502	B	1.4335	B	21.9		P
Calcium		49450.4494		29875.8205		49.4	*	P
Chromium		44.0298		49.2505		11.2		P
Cobalt		5.5773	B	4.2584	B	26.8		P
Copper		72.4872		73.9304		2.0		P
Iron		19227.8792		25464.0293		27.9	*	P
Lead		471.3915		383.9493		20.4		P
Magnesium		26733.1383		14014.1205		62.4	*	P
Manganese		262.5335		4408.5270		177.5	*	P
Mercury		4.4015		3.7452		16.1		CV
Nickel	15.4	21.7387		17.9437		19.1		P
Potassium		886.8583	B	759.5148	B	15.5		P
Selenium	1.9	1.7538	B	3.2470		59.7		P
Silver	3.9	7.9575		8.0829		1.6		P
Sodium		996.9121	B	768.7731	B	25.8		P
Thallium		1.3514	U	1.3514	U			P
Vanadium	19.3	15.4554	B	30.0446		64.1		P
Zinc		336.2682		302.2090		10.7		P
Cyanide		0.1834	U	0.1834	U			CA

EPA SAMPLE NO.

ICP SERIAL DILUTIONS

ME00J2L

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	13399.09		13879.35		3.6		P
Antimony	6.85	B	12.50	U	100.0		P
Arsenic	16.37		21.49	B	31.3		P
Barium	922.03		934.69	B	1.4		P
Beryllium	1.46	B	2.31	B	58.2		P
Cadmium	2.98	B	2.84	B	4.7		P
Calcium	128076.66		134950.02		5.4		P
Chromium	114.04		112.19		1.6		P
Cobalt	14.45	B	13.18	B	8.8		P
Copper	187.74		202.83		8.0		P
Iron	49800.21		51241.53		2.9		P
Lead	1220.90		1275.20		4.4		P
Magnesium	69238.83		70638.35		2.0		P
Manganese	679.96		694.17		2.1		P
Mercury							NR
Nickel	56.30		51.61	B	8.3		P
Potassium	2296.96	B	2598.73	B	13.1	E	P
Selenium	4.54	B	11.00	U	100.0		P
Silver	20.61		16.16	B	21.6		P
Sodium	2582.00	B	5902.22	B	128.6		P
Thallium	3.50	U	17.50	U			P
Vanadium	40.03	B	39.48	B	1.4		P
Zinc	870.93		919.00		5.5		P

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

ICP ID Number: P3 Date: 10/15/01

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	31.8	P
Antimony	206.80		60	2.5	P
Arsenic	189.00		10	1.8	P
Barium	493.40		200	1.2	P
Beryllium	313.00		5	0.3	P
Cadmium	226.50		5	0.4	P
Calcium	317.90		5000	459.9	P
Chromium	267.70		10	0.5	P
Cobalt	228.60		50	1.0	P
Copper	324.70		25	1.5	P
Iron	271.40		100	19.4	P
Lead	220.30		3	1.9	P
Magnesium	279.00		5000	34.4	P
Manganese	257.60		15	1.5	P
Mercury			0.2		NR
Nickel	231.60		40	0.9	P
Potassium	766.40		5000	20.2	P
Selenium	196.00		5	2.2	P
Silver	328.00		10	0.9	P
Sodium	330.20		5000	228.7	P
Thallium	190.80		10	3.5	P
Vanadium	292.40		50	1.1	P
Zinc	206.20		20	8.5	P
Cyanide			10		NR

Comments:
P3: THERMO JARRELL ASH

U.S. EPA - CLP

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

ICP ID Number: Date: 10/15/01

Flame AA ID Number: C5

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10		NR

Comments:
C5: CETAC M6000

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

ICP ID Number: Date: 10/15/01

Flame AA ID Number: C1

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide	578.00		10	1.9	CA

Comments:
C1: LACHAT

U.S. EPA - CLP

13

PREPARATION LOG

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	11/14/01	1.00	200
ME00H6	11/14/01	1.00	200
ME00H7	11/14/01	1.00	200
ME00H8	11/14/01	1.00	200
ME00H9	11/14/01	1.00	200
ME00J0	11/14/01	1.00	200
ME00J2	11/14/01	1.00	200
ME00J2D	11/14/01	1.00	200
ME00J2S	11/14/01	1.00	200
ME00J6	11/14/01	1.00	200
ME00J7	11/14/01	1.00	200
ME00J8	11/14/01	1.00	200
ME00J9	11/14/01	1.00	200
ME00K2	11/14/01	1.00	200
ME00K3	11/14/01	1.00	200
ME00K4	11/14/01	1.00	200
ME00K9	11/14/01	1.00	200
PBS	11/14/01	1.00	200

U.S. EPA - CLP

13
PREPARATION LOG

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	11/14/01	0.20	100
ME00H6	11/14/01	0.20	100
ME00H7	11/14/01	0.20	100
ME00H8	11/14/01	0.20	100
ME00H9	11/14/01	0.20	100
ME00J0	11/14/01	0.20	100
ME00J2	11/14/01	0.20	100
ME00J2D	11/14/01	0.20	100
ME00J2S	11/14/01	0.20	100
ME00J6	11/14/01	0.20	100
ME00J7	11/14/01	0.20	100
ME00J8	11/14/01	0.20	100
ME00J9	11/14/01	0.20	100
ME00K2	11/14/01	0.20	100
ME00K3	11/14/01	0.20	100
ME00K4	11/14/01	0.20	100
ME00K9	11/14/01	0.20	100
PBS	11/14/01	0.20	100

U.S. EPA - CLP

13

PREPARATION LOG

Lab Name: Sentinel, Inc. Contract: 68-W-00-085

Lab Code: SENTIN Case No.: 29954 SAS No.: SDG No.: ME00H6

Method: CA

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	11/14/01	1.00	50
ME00H6	11/14/01	1.00	50
ME00H7	11/14/01	1.00	50
ME00H8	11/14/01	1.00	50
ME00H9	11/14/01	1.00	50
ME00J0	11/14/01	1.00	50
ME00J2	11/14/01	1.00	50
ME00J2D	11/14/01	1.00	50
ME00J2S	11/14/01	1.00	50
ME00J6	11/14/01	1.00	50
ME00J7	11/14/01	1.00	50
ME00J8	11/14/01	1.00	50
ME00J9	11/14/01	1.00	50
ME00K2	11/14/01	1.00	50
ME00K3	11/14/01	1.00	50
ME00K4	11/14/01	1.00	50
ME00K9	11/14/01	1.00	50
PBS	11/14/01	1.00	50
S100	11/14/01		50

DATE: December 6, 2001

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: **Bob Casper**

SITE NAME: Clark

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
29954	Compuchem	9	E00J3	Water

==========

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

DEC 1 0 2001

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE: _____

SUBJECT: Electronic (**Level 2**) Review of Data

Received for Review on 11-30-2001

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

The following data has been electronically reviewed by CADRE. No review of the raw data, *laboratory narrative, laboratory forms or chain-of-custody forms was performed.*

SITE NAME: Clark

CASE NUMBER: 29954 SDG NUMBER: E00J3

Number and Type of Samples: 9 water samples

Sample Numbers: E00J3-E00J5, E00K0, E00K5–E00K8, E00L8

Laboratory: Compuchem Hrs. for Review: _____

Following are our findings:

CC Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

DEC 10 2001

Case Number :29954
Site Name: Clark

SDG Number: E00J3
Laboratory: Compuchem

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Nine water samples, numbered E00J3-E00J5, E00K0, E00K5–E00K8 and E00L8 were collected on *11/07-08/2001.* The lab received the samples on *11/08-09/2001* in good condition. Samples E00K0 were analyzed for only the list of VOA analytes. Samples E00J3-E00J5, E00K5–E00K8 and E00L8 were analyzed for the full list of organic analytes. All were analyzed according to CLP SOW *OLM04.2* 5/99.

Case Number :29954
Site Name: Clark

SDG Number: E00J3
Laboratory: Compuchem

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Nine water samples, numbered E00J3-E00J5, E00K0, E00K5–E00K8 and E00L8 were collected on *11/07-08/2001.* The lab received the samples on *11/08-09/2001* in good condition. Samples E00K0 were analyzed for only the list of VOA analytes. Samples E00J3-E00J5, E00K5–E00K8 and E00L8 were analyzed for the full list of organic analytes. All were analyzed according to CLP SOW *OLM04.2* 5/99.

Case Number :29954
Site Name: Clark

SDG Number: E00J3
Laboratory: Compuchem

1. HOLDING TIME

The following semivolatile water samples are outside primary extraction holding time criteria. Hits are qualified "J" and non-detects are qualified "UJ".

E00K5RE

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems were found for this qualification.

3. CALIBRATION

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria.
Hits are qualified "J" and non-detects are qualified "UJ".

Bromoform
E00J3MS, E00J3MSD, E00K7, E00K8, E00L8, VBLKWJ
VHBLKWJ

The following volatile samples are associated with a continuing calibration relative response factor (RRF50) outside primary criteria.
Hits are flagged "J" and non-detects are qualified "R".

1,2-Dibromo-3-chloropropane
E00J3MS, E00J3MSD, E00K7, E00K8, E00L8, VBLKWJ
VHBLKWJ

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria.
Hits are qualified "J" and non-detects are qualified "UJ".

Hexachlorocyclopentadiene
E00J3, E00J3MS, E00J3MSD, E00J4, E00J5, E00K5
E00K5RE, E00K6, E00K7, E00K8, E00L8, SBLKDF

2,4-Dinitrophenol
E00J3, E00J3MS, E00J3MSD, E00J4, E00J5, E00K5
E00K5RE, E00K6, E00K7, E00K8, E00L8, SBLKDF

Case Number :29954
Site Name: Clark

SDG Number: E00J3
Laboratory: Compuchem

4,6-Dinitro-2-methylphenol
E00J3, E00J3MS, E00J3MSD, E00J4, E00J5, E00K5
E00K5RE, E00K6, E00K7, E00K8, E00L8, SBLKDF

Pentachlorophenol
E00K5, E00K5RE, E00K6, E00K7, E00K8, E00L8

Di-n-octylphthalate
E00J3, E00J3MS, E00J3MSD, E00J4, E00J5, SBLKDF

Benzo(g,h,i)perylene
E00J3, E00J3MS, E00J3MSD, E00J4, E00J5, SBLKDF

4. BLANKS

The following semivolatile samples have no associated method blank. Manual review of the data is required.

E00K5RE

The following semivolatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL.
Hits are qualified "U" and non-detects are not flagged.

bis(2-Ethylhexyl)phthalate
E00J3, E00J4, E00J5, E00K5, E00K6, E00K7
E00K8, E00L8

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

No problems were found for this qualification.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The following semivolatile matrix spike/matrix spike duplicate samples have percent recovery above QC but less than 100%. Hits and non-detects are not flagged.

E00J3MSD
4-Nitrophenol

7 FIELD BLANK AND FIELD DUPLICATE

Case Number :29954
Site Name: Clark

SDG Number: E00J3
Laboratory: Compuchem

Sample *E00K0 is trip blank. Sample E00K8* is field blank. None of the samples are field duplicates. Results are not qualified based upon the results of the field blanks or field duplicates.

8. INTERNAL STANDARDS

The following semivolatile samples have internal standard area counts that are outside the lower limit of primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

E00K5
Hexachlorocyclopentadiene, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 1,1'-Biphenyl
2-Chloronaphthalene, 2-Nitroaniline, Dimethylphthalate, Acenaphthylene
2,6-Dinitrotoluene, 3-Nitroaniline, Acenaphthene, 2,4-Dinitrophenol
4-Nitrophenol, Dibenzofuran, 2,4-Dinitrotoluene, Diethylphthalate
4-Chlorophenyl-phenylether, Fluorene, 4-Nitroaniline

The following semivolatile samples have internal standard area counts outside expanded criteria. Hits are qualified "J" and non-detects are qualified "R".

E00K5RE
Hexachlorocyclopentadiene, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 1,1'-Biphenyl
2-Chloronaphthalene, 2-Nitroaniline, Dimethylphthalate, Acenaphthylene
2,6-Dinitrotoluene, 3-Nitroaniline, Acenaphthene, 2,4-Dinitrophenol
4-Nitrophenol, Dibenzofuran, 2,4-Dinitrotoluene, Diethylphthalate
4-Chlorophenyl-phenylether, Fluorene, 4-Nitroaniline

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E00K5
Acetone , cis-1,2-Dichloroethene

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

Case Number :29954
Site Name: Clark

SDG Number: E00J3
Laboratory: Compuchem

E00J3MSD
Di-n-octylphthalate

E00J4
Atrazine

E00J5
Atrazine

E00K5
Diethylphthalate

E00K5RE
Diethylphthalate, bis(2-Ethylhexyl)phthalate

E00L8
Fluoranthene

SBLKDF
bis(2-Ethylhexyl)phthalate

The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E00K5
4,4'-DDD, 4,4'-DDT, gamma-Chlordane

The following pesticide samples have analytes for which the percent difference between column results exceeds primary criteria.
Professional judgement should be used to qualify the data.

E00K5
4,4'-DDD, 4,4'-DDT, gamma-Chlordane

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

None.

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The anlayte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J3
Site : CLARK
Lab. : LIBRTY
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 9

Sample Number :	E00J3		E00J3MS		E00J3MSD		E00J4		E00J5	
Sampling Location :	S104		S104		S104		S114		S101	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/7/01		11/7/01		11/7/01		11/7/01		11/7/01	
Time Sampled :	09:00		09:00		09:00		10:40		11:15	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10	U	10	U	10	U	10	U	10	U
Chloromethane	10	U	10	U	10	U	10	U	10	U
Vinyl Chloride	10	U	10	U	10	U	10	U	10	U
Bromomethane	10	U	10	U	10	U	10	U	10	U
Chloroethane	10	U	10	U	10	U	10	U	10	U
Trichlorofluoromethane	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	10	U	54		55		10	U	10	U
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10	U	10	U	10	U	10	U
Acetone	10	U	10	U	10	U	10	U	10	U
Carbon Disulfide	10	U	10	U	10	U	10	U	10	U
Methyl Acetate	10	U	10	U	10	U	10	U	10	U
Methylene Chloride	10	U	10	U	10	U	10	U	10	U
trans-1,2-Dichloroethene	10	U	10	U	10	U	10	U	10	U
Methyl tert-Butyl Ether	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethane	10	U	10	U	10	U	10	U	10	U
cis-1,2-Dichloroethene	10	U	10	U	10	U	10	U	10	U
2-Butanone	10	U	10	U	10	U	10	U	10	U
Chloroform	10	U	10	U	10	U	10	U	10	U
1,1,1-Trichloroethane	10	U	10	U	10	U	10	U	10	U
Cyclohexane	10	U	10	U	10	U	10	U	10	U
Carbon Tetrachloride	10	U	10	U	10	U	10	U	10	U
Benzene	10	U	51		53		10	U	10	U
1,2-Dichloroethane	10	U	10	U	10	U	10	U	10	U
Trichloroethene	10	U	47		50		10	U	10	U
Methylcyclohexane	10	U	10	U	10	U	10	U	10	U
1,2-Dichloropropane	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane	10	U	10	U	10	U	10	U	10	U
cis-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U
4-Methyl-2-pentanone	10	U	10	U	10	U	10	U	10	U
Toluene	10	U	50		51		10	U	10	U
trans-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloroethane	10	U	10	U	10	U	10	U	10	U
Tetrachloroethene	10	U	10	U	10	U	10	U	10	U

DISCLAIMER This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J3
Site CLARK
Lab. : LIBRTY
Reviewer :
Date :

Sample Number	E00J3		E00J3MS		E00J3MSD		E00J4		E00J5	
Sampling Location :	S104		S104		S104		S114		S101	
Matrix	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/7/01		11/7/01		11/7/01		11/7/01		11/7/01	
Time Sampled :	09:00		09:00		09:00		10:40		11:15	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH .										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10	U	10	U	10	U	10	U	10	U
Dibromochloromethane	10	U	10	U	10	U	10	U	10	U
1,2-Dibromoethane	10	U	10	U	10	U	10	U	10	U
Chlorobenzene	10	U	51		53		10	U	10	U
Ethylbenzene	10	U	10	U	10	U	10	U	10	U
Xylenes (total)	10	U	10	U	10	U	10	U	10	U
Styrene	10	U	10	U	10	U	10	U	10	U
Bromoform	10	U	10	UJ	10	UJ	10	U	10	U
Isopropylbenzene	10	U	10	U	10	U	10	U	10	U
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dibromo-3-chloropropane	10	U	10	R	10	R	10	U	10	U
1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U	10	U

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J3
Site : CLARK
Lab : LIBRTY
Reviewer :
Date :

Sample Number :	E00K0		E00K5		E00K6		E00K7		E00K8	
Sampling Location	TRIP BLANK		S103		S106		S150		FIELD BLANK	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/7/01		11/7/01		11/7/01		11/7/01		11/7/01	
Time Sampled :	15:48		15:45		16:15		16:15		17:00	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10	U	10	U	10	U	10	U	10	U
Chloromethane	10	U	10	U	10	U	10	U	10	U
Vinyl Chloride	10	U	10	U	10	U	10	U	10	U
Bromomethane	10	U	10	U	10	U	10	U	10	U
Chloroethane	10	U	10	U	10	U	10	U	10	U
Trichlorofluoromethane	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethene	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10	U	10	U	10	U	10	U
Acetone	13		9	J	10	U	10	U	10	U
Carbon Disulfide	10	U	10	U	10	U	10	U	10	U
Methyl Acetate	10	U	10	U	10	U	10	U	10	U
Methylene Chloride	10	U	10	U	10	U	10	U	10	U
trans-1,2-Dichloroethene	10	U	10	U	10	U	10	U	10	U
Methyl tert-Butyl Ether	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethane	10	U	10	U	10	U	10	U	10	U
cis-1,2-Dichloroethene	10	U	1	J	10	U	10	U	10	U
2-Butanone	10	U	10	U	10	U	10	U	10	U
Chloroform	10	U	10	U	10	U	10	U	10	U
1,1,1-Trichloroethane	10	U	10	U	10	U	10	U	10	U
Cyclohexane	10	U	10	U	10	U	10	U	10	U
Carbon Tetrachloride	10	U	10	U	10	U	10	U	10	U
Benzene	10	U	10	U	10	U	10	U	10	U
1,2-Dichloroethane	10	U	10	U	10	U	10	U	10	U
Trichloroethene	10	U	10	U	10	U	10	U	10	U
Methylcyclohexane	10	U	10	U	10	U	10	U	10	U
1,2-Dichloropropane	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane	10	U	10	U	10	U	10	U	10	U
cis-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U
4-Methyl-2-pentanone	10	U	10	U	10	U	10	U	10	U
Toluene	10	U	10	U	10	U	10	U	10	U
trans-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloroethane	10	U	10	U	10	U	10	U	10	U
Tetrachloroethene	10	U	10	U	10	U	10	U	10	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J3
Site CLARK
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00K0		E00K5		E00K6		E00K7		E00K8	
Sampling Location :	TRIP BLANK		S103		S106		S150		FIELD BLANK	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/7/01		11/7/01		11/7/01		11/7/01		11/7/01	
Time Sampled :	15:48		15:45		16:15		16:15		17:00	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10	U	10	U	10	U	10	U	10	U
Dibromochloromethane	10	U	10	U	10	U	10	U	10	U
1,2-Dibromoethane	10	U	10	U	10	U	10	U	10	U
Chlorobenzene	10	U	10	U	10	U	10	U	10	U
Ethylbenzene	10	U	10	U	10	U	10	U	10	U
Xylenes (total)	10	U	10	U	10	U	10	U	10	U
Styrene	10	U	10	U	10	U	10	U	10	U
Bromoform	10	U	10	U	10	U	10	UJ	10	UJ
Isopropylbenzene	10	U	10	U	10	U	10	U	10	U
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dibromo-3-chloropropane	10	U	10	U	10	U	10	R	10	R
1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U	10	U

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J3
Site : CLARK
Lab : LIBRTY
Reviewer :
Date :

Sample Number :	E00L8		VBLKWJ		VBLKXP		VHBLKWJ			
Sampling Location :	S102									
Matrix :	Water		Water		Water		Water			
Units :	ug/L		ug/L		ug/L		ug/L			
Date Sampled :	11/8/01									
Time Sampled :	13:20									
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10	U	10	U	10	U	10	U		
Chloromethane	10	U	10	U	10	U	10	U		
Vinyl Chloride	10	U	10	U	10	U	10	U		
Bromomethane	10	U	10	U	10	U	10	U		
Chloroethane	10	U	10	U	10	U	10	U		
Trichlorofluoromethane	10	U	10	U	10	U	10	U		
1,1-Dichloroethene	10	U	10	U	10	U	10	U		
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10	U	10	U	10	U		
Acetone	10	U	10	U	10	U	10	U		
Carbon Disulfide	10	U	10	U	10	U	10	U		
Methyl Acetate	10	U	10	U	10	U	10	U		
Methylene Chloride	10	U	10	U	10	U	10	U		
trans-1,2-Dichloroethene	10	U	10	U	10	U	10	U		
Methyl tert-Butyl Ether	10	U	10	U	10	U	10	U		
1,1-Dichloroethane	10	U	10	U	10	U	10	U		
cis-1,2-Dichloroethene	10	U	10	U	10	U	10	U		
2-Butanone	10	U	10	U	10	U	10	U		
Chloroform	10	U	10	U	10	U	10	U		
1,1,1-Trichloroethane	10	U	10	U	10	U	10	U		
Cyclohexane	10	U	10	U	10	U	10	U		
Carbon Tetrachloride	10	U	10	U	10	U	10	U		
Benzene	10	U	10	U	10	U	10	U		
1,2-Dichloroethane	10	U	10	U	10	U	10	U		
Trichloroethene	10	U	10	U	10	U	10	U		
Methylcyclohexane	10	U	10	U	10	U	10	U		
1,2-Dichloropropane	10	U	10	U	10	U	10	U		
Bromodichloromethane	10	U	10	U	10	U	10	U		
cis-1,3-Dichloropropene	10	U	10	U	10	U	10	U		
4-Methyl-2-pentanone	10	U	10	U	10	U	10	U		
Toluene	10	U	10	U	10	U	10	U		
trans-1,3-Dichloropropene	10	U	10	U	10	U	10	U		
1,1,2-Trichloroethane	10	U	10	U	10	U	10	U		
Tetrachloroethene	10	U	10	U	10	U	10	U		

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J3
Site : CLARK
Lab : LIBRTY
Reviewer :
Date :

Sample Number :	E00L8		VBLKWJ		VBLKXP		VHBLKWJ			
Sampling Location :	S102									
Matrix :	Water		Water		Water		Water			
Units :	ug/L		ug/L		ug/L		ug/L			
Date Sampled :	11/8/01									
Time Sampled :	13:20									
%Moisture	N/A		N/A		N/A		N/A			
pH										
Dilution Factor :	1.0		1.0		1.0		1.0			
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10	U	10	U	10	U	10	U		
Dibromochloromethane	10	U	10	U	10	U	10	U		
1,2-Dibromoethane	10	U	10	U	10	U	10	U		
Chlorobenzene	10	U	10	U	10	U	10	U		
Ethylbenzene	10	U	10	U	10	U	10	U		
Xylenes (total)	10	U	10	U	10	U	10	U		
Styrene	10	U	10	U	10	U	10	U		
Bromoform	10	UJ	10	UJ	10	U	10	UJ		
Isopropylbenzene	10	U	10	U	10	U	10	U		
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	10	U		
1,3-Dichlorobenzene	10	U	10	U	10	U	10	U		
1,4-Dichlorobenzene	10	U	10	U	10	U	10	U		
1,2-Dichlorobenzene	10	U	10	U	10	U	10	U		
1,2-Dibromo-3-chloropropane	10	R	10	R	10	U	10	R		
1,2,4-Trichlorobenzene	10	U	10	U	10	U	10	U		

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J3
Site : CLARK
Lab. : LIBRTY
eviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 8

Sample Number	E00J3		E00J3MS		E00J3MSD		E00J4		E00J5	
Sampling Location	S104		S104		S104		S114		S101	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/7/01		11/7/01		11/7/01		11/7/01		11/7/01	
Time Sampled :	09:00		09:00		09:00		10:40		11:15	
%Moisture	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	10	U	10	U	10	U	10	U	10	U
Phenol	10	U	44		42		10	U	10	U
bis-(2-Chloroethyl) ether	10	U	10	U	10	U	10	U	10	U
2-Chlorophenol	10	U	45		44		10	U	10	U
2-Methylphenol	10	U	10	U	10	U	10	U	10	U
2,2'-oxybis(1-Chloropropane)	10	U	10	U	10	U	10	U	10	U
Acetophenone	10	U	10	U	10	U	10	U	10	U
4-Methylphenol	10	U	10	U	10	U	10	U	10	U
N-Nitroso-di-n-propylamine	10	U	32		31		10	U	10	U
Hexachloroethane	10	U	10	U	10	U	10	U	10	U
Nitrobenzene	10	U	10	U	10	U	10	U	10	U
Isophorone	10	U	10	U	10	U	10	U	10	U
2-Nitrophenol	10	U	10	U	10	U	10	U	10	U
2,4-Dimethylphenol	10	U	10	U	10	U	10	U	10	U
bis(2-Chloroethoxy)methane	10	U	10	U	10	U	10	U	10	U
2,4-Dichlorophenol	10	U	10	U	10	U	10	U	10	U
Naphthalene	10	U	10	U	10	U	10	U	10	U
4-Chloroaniline	10	U	10	U	10	U	10	U	10	U
Hexachlorobutadiene	10	U	10	U	10	U	10	U	10	U
Caprolactam	10	U	10	U	10	U	10	U	10	U
4-Chloro-3-methylphenol	10	U	51		50		10	U	10	U
2-Methylnaphthalene	10	U	10	U	10	U	10	U	10	U
Hexachlorocyclopentadiene	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
2,4,6-Trichlorophenol	10	U	10	U	10	U	10	U	10	U
2,4,5-Trichlorophenol	25	U	25	U	25	U	25	U	25	U
1,1'-Biphenyl	10	U	10	U	10	U	10	U	10	U
2-Chloronaphthalene	10	U	10	U	10	U	10	U	10	U
2-Nitroaniline	25	U	25	U	25	U	25	U	25	U
Dimethylphthalate	10	U	10	U	10	U	10	U	10	U
2,6-Dinitrotoluene	10	U	10	U	10	U	10	U	10	U
Acenaphthylene	10	U	10	U	10	U	10	U	10	U
3-Nitroaniline	25	U	25	U	25	U	25	U	25	U
Acenaphthene	10	U	35		38		10	U	10	U

DISCLAIMER. This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J3
Site : CLARK
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00J3		E00J3MS		E00J3MSD		E00J4		E00J5	
Sampling Location :	S104		S104		S104		S114		S101	
Matrix	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/7/01		11/7/01		11/7/01		11/7/01		11/7/01	
Time Sampled :	09:00		09:00		09:00		10:40		11:15	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ
4-Nitrophenol	25	U	59		63		25	U	25	U
Dibenzofuran	10	U	10	U	10	U	10	U	10	U
2,4-Dinitrotoluene	10	U	38		38		10	U	10	U
Diethylphthalate	10	U	10	U	10	U	10	U	10	U
Fluorene	10	U	10	U	10	U	10	U	10	U
4-Chlorophenyl-phenyl ether	10	U	10	U	10	U	10	U	10	U
4-Nitroaniline	25	U	25	U	25	U	25	U	25	U
4,6-Dinitro-2-methylphenol	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ
N-Nitrosodiphenylamine	10	U	10	U	10	U	10	U	10	U
4-Bromophenyl-phenylether	10	U	10	U	10	U	10	U	10	U
Hexachlorobenzene	10	U	10	U	10	U	10	U	10	U
Atrazine	10	U	10	U	10	U	0.5	J	0.4	J
Pentachlorophenol	25	U	40		43		25	U	25	U
Phenanthrene	10	U	10	U	10	U	10	U	10	U
Anthracene	10	U	10	U	10	U	10	U	10	U
Carbazole	10	U	10	U	10	U	10	U	10	U
Di-n-butylphthalate	10	U	10	U	10	U	10	U	10	U
Fluoranthene	10	U	10	U	10	U	10	U	10	U
Pyrene	10	U	39		44		10	U	10	U
Butylbenzylphthalate	10	U	10	U	10	U	10	U	10	U
3,3'-Dichlorobenzidine	10	U	10	U	10	U	10	U	10	U
Benzo(a)anthracene	10	U	10	U	10	U	10	U	10	U
Chrysene	10	U	10	U	10	U	10	U	10	U
bis(2-Ethylhexyl)phthalate	10	U	10		13		10	U	10	U
Di-n-octylphthalate	10	UJ	10	UJ	0.3	J	10	UJ	10	UJ
Benzo(b)fluoranthene	10	U	10	U	10	U	10	U	10	U
Benzo(k)fluoranthene	10	U	10	U	10	U	10	U	10	U
Benzo(a)pyrene	10	U	10	U	10	U	10	U	10	U
Indeno(1,2,3-cd)pyrene	10	U	10	U	10	U	10	U	10	U
Dibenzo(a,h)anthracene	10	U	10	U	10	U	10	U	10	U
Benzo(g,h,i)perylene	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J3
Site : CLARK
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00K5		E00K5RE		E00K6		E00K7		E00K8	
Sampling Location :	S103		S103		S106		S150		FIELD BLANK	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/7/01		11/7/01		11/7/01		11/7/01		11/7/01	
Time Sampled :	15:45		15:45		16:15		16:15		17:00	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	10	U	10	UJ	10	U	10	U	10	U
Phenol	10	U	10	UJ	10	U	10	U	10	U
bis-(2-Chloroethyl) ether	10	U	10	UJ	10	U	10	U	10	U
2-Chlorophenol	10	U	10	UJ	10	U	10	U	10	U
2-Methylphenol	10	U	10	UJ	10	U	10	U	10	U
2,2'-oxybis(1-Chloropropane)	10	U	10	UJ	10	U	10	U	10	U
Acetophenone	10	U	10	UJ	10	U	10	U	10	U
4-Methylphenol	10	U	10	UJ	10	U	10	U	10	U
N-Nitroso-di-n-propylamine	10	U	10	UJ	10	U	10	U	10	U
Hexachloroethane	10	U	10	UJ	10	U	10	U	10	U
Nitrobenzene	10	U	10	UJ	10	U	10	U	10	U
Isophorone	10	U	10	UJ	10	U	10	U	10	U
2-Nitrophenol	10	U	10	UJ	10	U	10	U	10	U
2,4-Dimethylphenol	10	U	10	UJ	10	U	10	U	10	U
bis(2-Chloroethoxy)methane	10	U	10	UJ	10	U	10	U	10	U
2,4-Dichlorophenol	10	U	10	UJ	10	U	10	U	10	U
Naphthalene	10	U	10	UJ	10	U	10	U	10	U
4-Chloroaniline	10	U	10	UJ	10	U	10	U	10	U
Hexachlorobutadiene	10	U	10	UJ	10	U	10	U	10	U
Caprolactam	10	U	10	UJ	10	U	10	U	10	U
4-Chloro-3-methylphenol	10	U	10	UJ	10	U	10	U	10	U
2-Methylnaphthalene	10	U	10	UJ	10	U	10	U	10	U
Hexachlorocyclopentadiene	10	UJ	10	R	10	UJ	10	UJ	10	UJ
2,4,6-Trichlorophenol	10	UJ	10	R	10	U	10	U	10	U
2,4,5-Trichlorophenol	25	UJ	25	R	25	U	25	U	25	U
1,1'-Biphenyl	10	UJ	10	R	10	U	10	U	10	U
2-Chloronaphthalene	10	UJ	10	R	10	U	10	U	10	U
2-Nitroaniline	25	UJ	25	R	25	U	25	U	25	U
Dimethylphthalate	10	UJ	10	R	10	U	10	U	10	U
2,6-Dinitrotoluene	10	UJ	10	R	10	U	10	U	10	U
Acenaphthylene	10	UJ	10	R	10	U	10	U	10	U
3-Nitroaniline	25	UJ	25	R	25	U	25	U	25	U
Acenaphthene	10	UJ	10	R	10	U	10	U	10	U

DISCLAIMER This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J3
Site : CLARK
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00K5		E00K5RE		E00K6		E00K7		E00K8	
Sampling Location :	S103		S103		S106		S150		FIELD BLANK	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/7/01		11/7/01		11/7/01		11/7/01		11/7/01	
Time Sampled :	15:45		15:45		16:15		16:15		17:00	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	25	UJ	25	R	25	UJ	25	UJ	25	UJ
4-Nitrophenol	25	UJ	25	R	25	U	25	U	25	U
Dibenzofuran	10	UJ	10	R	10	U	10	U	10	U
2,4-Dinitrotoluene	10	UJ	10	R	10	U	10	U	10	U
Diethylphthalate	0.7	J	0.5	J	10	U	10	U	10	U
Fluorene	10	UJ	10	R	10	U	10	U	10	U
4-Chlorophenyl-phenyl ether	10	UJ	10	R	10	U	10	U	10	U
4-Nitroaniline	25	UJ	25	R	25	U	25	U	25	U
4,6-Dinitro-2-methylphenol	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ
N-Nitrosodiphenylamine	10	U	10	UJ	10	U	10	U	10	U
4-Bromophenyl-phenylether	10	U	10	UJ	10	U	10	U	10	U
Hexachlorobenzene	10	U	10	UJ	10	U	10	U	10	U
Atrazine	10	U	10	UJ	10	U	10	U	10	U
Pentachlorophenol	25	UJ	25	UJ	25	UJ	25	UJ	25	UJ
Phenanthrene	10	U	10	UJ	10	U	10	U	10	U
Anthracene	10	U	10	UJ	10	U	10	U	10	U
Carbazole	10	U	10	UJ	10	U	10	U	10	U
Di-n-butylphthalate	10	U	10	UJ	10	U	10	U	10	U
Fluoranthene	10	U	10	UJ	10	U	10	U	10	U
Pyrene	10	U	10	UJ	10	U	10	U	10	U
Butylbenzylphthalate	10	U	10	UJ	10	U	10	U	10	U
3,3'-Dichlorobenzidine	10	U	10	UJ	10	U	10	U	10	U
Benzo(a)anthracene	10	U	10	UJ	10	U	10	U	10	U
Chrysene	10	U	10	UJ	10	U	10	U	10	U
bis(2-Ethylhexyl)phthalate	10	U	0.9	J	10	U	10	U	10	U
Di-n-octylphthalate	10	U	10	UJ	10	U	10	U	10	U
Benzo(b)fluoranthene	10	U	10	UJ	10	U	10	U	10	U
Benzo(k)fluoranthene	10	U	10	UJ	10	U	10	U	10	U
Benzo(a)pyrene	10	U	10	UJ	10	U	10	U	10	U
Indeno(1,2,3-cd)pyrene	10	U	10	UJ	10	U	10	U	10	U
Dibenzo(a,h)anthracene	10	U	10	UJ	10	U	10	U	10	U
Benzo(g,h,i)perylene	10	U	10	UJ	10	U	10	U	10	U

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J3
Site : CLARK
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00L8		SBLKDF							
Sampling Location :	S102									
Matrix :	Water		Water							
Units :	ug/L		ug/L							
Date Sampled :	11/8/01									
Time Sampled :	13:20									
%Moisture :	N/A		N/A							
pH :										
Dilution Factor :	1.0		1.0							
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	10	U	10	U						
Phenol	10	U	10	U						
bis-(2-Chloroethyl) ether	10	U	10	U						
2-Chlorophenol	10	U	10	U						
2-Methylphenol	10	U	10	U						
2,2'-oxybis(1-Chloropropane)	10	U	10	U						
Acetophenone	10	U	10	U						
4-Methylphenol	10	U	10	U						
N-Nitroso-di-n-propylamine	10	U	10	U						
Hexachloroethane	10	U	10	U						
Nitrobenzene	10	U	10	U						
Isophorone	10	U	10	U						
2-Nitrophenol	10	U	10	U						
2,4-Dimethy phenol	10	U	10	U						
bis(2-Chloroethoxy)methane	10	U	10	U						
2,4-Dichlorophenol	10	U	10	U						
Naphthalene	10	U	10	U						
4-Chloroaniline	10	U	10	U						
Hexachlorobutadiene	10	U	10	U						
Caprolactam	10	U	10	U						
4-Chloro-3-methylphenol	10	U	10	U						
2-Methylnaphthalene	10	U	10	U						
Hexachlorocyclopentadiene	10	UJ	10	UJ						
2,4,6-Trichlorophenol	10	U	10	U						
2,4,5-Trichlorophenol	25	U	25	U						
1,1'-Biphenyl	10	U	10	U						
2-Chloronaphthalene	10	U	10	U						
2-Nitroaniline	25	U	25	U						
Dimethylphthalate	10	U	10	U						
2,6-Dinitrotoluene	10	U	10	U						
Acenaphthylene	10	U	10	U						
3-Nitroaniline	25	U	25	U						
Acenaphthene	10	U	10	U						

DISCLAIMER This package has been electronically assessed as an added service to our customer It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J3
Site : CLARK
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00L8		SBLKDF							
Sampling Location :	S102									
Matrix :	Water		Water							
Units :	ug/L		ug/L							
Date Sampled :	11/8/01									
Time Sampled :	13:20									
%Moisture :	N/A		N/A							
pH :										
Dilution Factor :	1.0		1.0							
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	25	UJ	25	UJ						
4-Nitrophenol	25	U	25	U						
Dibenzofuran	10	U	10	U						
2,4-Dinitrotoluene	10	U	10	U						
Diethylphthalate	10	U	10	U						
Fluorene	10	U	10	U						
4-Chlorophenyl-phenyl ether	10	U	10	U						
4-Nitroaniline	25	U	25	U						
4,6-Dinitro-2-methylphenol	25	UJ	25	UJ						
N-Nitrosodiphenylamine	10	U	10	U						
4-Bromophenyl-phenylether	10	U	10	U						
Hexachlorobenzene	10	U	10	U						
Atrazine	10	U	10	U						
Pentachlorophenol	25	UJ	25	U						
Phenanthrene	10	U	10	U						
Anthracene	10	U	10	U						
Carbazole	10	U	10	U						
Di-n-butylphthalate	10	U	10	U						
Fluoranthene	0.2	J	10	U						
Pyrene	10	U	10	U						
Butylbenzylphthalate	10	U	10	U						
3,3'-Dichlorobenzidine	10	U	10	U						
Benzo(a)anthracene	10	U	10	U						
Chrysene	10	U	10	U						
bis(2-Ethylhexyl)phthalate	10	U	0.6	J						
Di-n-octylphthalate	10	U	10	UJ						
Benzo(b)fluoranthene	10	U	10	U						
Benzo(k)fluoranthene	10	U	10	U						
Benzo(a)pyrene	10	U	10	U						
Indeno(1,2,3-cd)pyrene	10	U	10	U						
Dibenzo(a,h)anthracene	10	U	10	U						
Benzo(g,h,i)perylene	10	U	10	UJ						

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J3
Site : CLARK
Lab. : LIBRTY
eviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 8

Sample Number :	E00J3		E00J3MS		E00J3MSD		E00J4		E00J5	
Sampling Location :	S104		S104		S104		S114		S101	
Matrix .	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/7/01		11/7/01		11/7/01		11/7/01		11/7/01	
Time Sampled :	09:00		09:00		09:00		10:40		11:15	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH .										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
beta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
delta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-BHC (Lindane)	0.050	U	0.46		0.49		0.050	U	0.050	U
Heptachlor	0.050	U	0.45		0.47		0.050	U	0.050	U
Aldrin	0.050	U	0.47		0.48		0.050	U	0.050	U
Heptachlor epoxide	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Endosulfan I	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Dieldrin	0.10	U	0.90		0.97		0.10	U	0.10	U
4,4'-DDE	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin	0.10	U	1.0		1.1		0.10	U	0.10	U
Endosulfan II	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDD	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endosulfan sulfate	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDT	0.10	U	0.91		0.95		0.10	U	0.10	U
Methoxychlor	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Endrin ketone	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin aldehyde	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
alpha-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Toxaphene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Aroclor-1016	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1221	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Aroclor-1232	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1242	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1248	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1254	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1260	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J3
Site CLARK
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00K5		E00K6		E00K7		E00K8		E00L8	
Sampling Location :	S103		S106		S150		FIELD BLANK		S102	
Matrix	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/7/01		11/7/01		11/7/01		11/7/01		11/8/01	
Time Sampled :	15:45		16:15		16:15		17:00		13:20	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
beta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
delta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
gamma-BHC (Lindane)	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Heptachlor	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Aldrin	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Heptachlor epoxide	0.050	U	0.050	U	0.050	U	0.050	U	0.050	U
Endosulfan I	0.073		0.050	U	0.050	U	0.050	U	0.050	U
Dieldrin	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDE	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endosulfan II	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4,4'-DDD	0.086	J	0.10	U	0.10	U	0.10	U	0.10	U
Endosulfan sulfate	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
4'-DDT	0.046	J	0.10	U	0.10	U	0.10	U	0.10	U
Methoxychlor	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Endrin ketone	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
Endrin aldehyde	0.10	U	0.10	U	0.10	U	0.10	U	0.10	U
alpha-Chlordane	0.065		0.050	U	0.050	U	0.050	U	0.050	U
gamma-Chlordane	0.019	J	0.050	U	0.050	U	0.050	U	0.050	U
Toxaphene	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Aroclor-1016	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1221	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U
Aroclor-1232	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1242	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1248	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1254	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Aroclor-1260	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

DISCLAIMER. This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J3
Site : CLARK
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	PBLKDD									
Sampling Location :										
Matrix :	Water									
Units :	ug/L									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH										
Dilution Factor :	1.0									
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	U								
beta-BHC	0.050	U								
delta-BHC	0.050	U								
gamma-BHC (Lindane)	0.050	U								
Heptachlor	0.050	U								
Aldrin	0.050	U								
Heptachlor epoxide	0.050	U								
Endosulfan I	0.050	U								
Dieldrin	0.10	U								
4,4'-DDE	0.10	U								
Endrin	0.10	U								
Endosulfan II	0.10	U								
4,4'-DDD	0.10	U								
Endosulfan sulfate	0.10	U								
4,4'-DDT	0.10	U								
Methoxychlor	0.50	U								
Endrin ketone	0.10	U								
Endrin aldehyde	0.10	U								
alpha-Chlordane	0.050	U								
gamma-Chlordane	0.050	U								
Toxaphene	5.0	U								
Aroclor-1016	1.0	U								
Aroclor-1221	2.0	U								
Aroclor-1232	1.0	U								
Aroclor-1242	1.0	U								
Aroclor-1248	1.0	U								
Aroclor-1254	1.0	U								
Aroclor-1260	1.0	U								

DISCLAIMER This package has been electronically assessed as an added service to our customer It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user Region 5 assumes no responsibility for use of unvalidated data

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

NOV 3 0 2001

SDG NARRATIVE

CASE # 29954
SDG # E00J3
CONTRACT # 68W99070

SAMPLE IDENTIFICATIONS: E00J3, E00J4, E00J5, E00K0, E00K5, E00K6, E00K7, E00K8, E00L8

The 9 aqueous samples listed above were received properly refrigerated at temperatures of 4-5°C, in sealed shipping containers, on November 8, and 9, 2001. The samples were scheduled for the requested analyses of the volatile, semivolatile, and pesticide/PCB fractions except E00K0 was analyzed for volatiles only. The samples were prepared and analyzed following the current EPA Contract Laboratory Program (CLP) Statement of Work (SOW), Document OLM04.2. This portion of the SDG narrative deals with the volatile fractions only. All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices for Case # 29954, SDG E00J3 are included in the sample data sections.

Volatiles

Analysis holding time requirements were met for all of these samples. The pH values of these samples are tabulated on the attached batch sheets. There was one Target Compound List (TCL) analytes identified above the Contract Required Quantitation Limit (CRQL) in sample E00K0. Tentatively Identified Compounds (TICs) were found in two (2) of these samples. The TICs found in these samples were characterized as alkanes. Manual quantitations were performed on one or more of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

All bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG. All of the system monitoring compounds met recovery criteria in the analyses of these samples. All of the internal standards met response and retention time criteria in the analyses of these samples. The associated method blanks met all quality control criteria. E00J3 was used as the original to prepare the duplicate matrix spikes as requested. The associated duplicate matrix spikes met all advisory accuracy and precision criteria.

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 by the Laboratory Manager or his/her designee, as verified by the following signature.

Susan W Bass

Susan W. Bass
Assistant Laboratory Manager
November 29, 2001

ALKANE NARRATIVE REPORT
Report date : 11/29/2001
SDG: E00J3

Client Sample ID: E00K5 Lab Sample ID: E00J3-5 File ID: E00J3-5C59

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	20.82	194.2	J

Client Sample ID: E00K6 Lab Sample ID: E00J3-6 File ID: E00J3-6C59

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	14.31	271.5	J
Straight-Chain Alkane	20.02	26.89	J
Straight-Chain Alkane	20.83	12.61	J

COMPUCHEM
A division of Liberty Analytical Corporation
501 Madison Ave.
Cary, NC 27513

SDG NARRATIVE

CASE #29954
SDG #E00J3
CONTRACT #68W99071

SAMPLE IDENTIFICATIONS:

E00J3 E00J4 E00J5 E00K5 E00K6 E00K7 E00K8 E00L8

This portion of the SDG narrative deals with the semivolatile fractions for the eight samples above only. For the receiving information associated with these samples, please refer to the volatile SDG narrative.

All pertinent Quality Assurance notices are included in the narrative section and all pertinent Laboratory notices are included in the sample data sections.

SEMIVOLATILE
The semivolatile fractions were extracted and analyzed within the required holding time. No Target Compound List (TCL) analytes were detected with concentrations above the Contract Required Quantitation Limit (CRQL) in the samples.

Two to twenty-two Tentatively Identified Compounds (TIC) were detected in six of the samples. These TICs were assessed as unknowns, oxiranes, carboxylic acids, alcohols and trichloropropenes. Other TICs were detected and assessed as unknown alkanes in some of the samples. The TICs that were characterized as alkanes have been summarized on the Alkane Narrative Report that is located in the narrative section of the data package. The TIC spectra for the alkanes are located in the data section for the individual samples.

QC SUMMARY
All decafluorotriphenylphosphine (DFTPP) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

The surrogates met recovery criteria for the semivolatile fractions, with some exceptions. The recovery of d14-terphenyl was flagged as an outlier in E00J5 and the recoveries of 2-fluorobiphenyl were flagged as outliers in the initial and repeat extracts of E00K5. The failing recoveries in E00K5 have been attributed to interferences in the matrix.

The internal standards met area response and retention time criteria, with exceptions. In the initial and repeat extractions of E00K5, the area responses for d10-anthracene varied considerably from the responses in the associated Continuing Calibrations. The failing responses have been attributed to interferences present in the matrix of the sample.

The associated blank met Quality Control criteria.

E00J3 was used as the original to prepare the duplicate matrix spikes as requested. The duplicate matrix spikes met accuracy and precison criteria, with one exception. The recovery of 4-nitrophenol was flagged as an outlier in the MSD. Differences were observed between the Reconstructed Ion Chromatograms (RICs) of the MS, MSD and original sample. The variations in non-target, non-spike peaks have been attributed to the inhomogeneous nature of the sample.

In the analyses of the Initial and Continuing Calibration standards and samples E00J4 and E00K5, manual quantitations were performed. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

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 by the laboratory manager or his/her designee, as verified by the following signature:

Patricia B. Hopkins

Patricia B. Hopkins
Data Analyst II
28 November 2001

Note: This report is paginated for reference and accountability in numerical sequence.

ALKANE NARRATIVE REPORT
Report date : 11/28/2001
SDG: E00J3

Client Sample ID: E00J3 Lab Sample ID: E00J3-1 File ID: E00J3-1C66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	19.93	7.07	J
Straight-Chain Alkane	21.52	6.14	J

Client Sample ID: E00K5 Lab Sample ID: E00J3-5 File ID: E00J3-5A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	10.42	832.6	J
Straight-Chain Alkane	11.18	150.7	J
Branched Alkane	11.38	2.86	J
Straight-Chain Alkane	11.80	63.39	J
Straight-Chain Alkane	12.39	25.21	J
Straight-Chain Alkane	12.99	15.18	J
Unknown Alkane	13.10	9.18	J
Branched Alkane	13.15	13.72	J
Branched Alkane	13.26	12.51	J
Branched Alkane	13.36	13.52	J
Straight-Chain Alkane	13.46	28.65	J
Branched Alkane	13.53	8.83	J
Branched Alkane	13.56	7.15	J
Unknown Alkane	13.64	30.32	J
Unknown Alkane	13.78	6.34	J
Cyclic Alkane	20.50	19.07	J
Cyclic Alkane	21.30	34.31	J
Cyclic Alkane	22.17	40.09	J

Client Sample ID: E00K6 Lab Sample ID: E00J3-6 File ID: E00J3-6A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	19.93	4.07	J
Straight-Chain Alkane	22.43	2.06	J

Client Sample ID: E00K5RE Lab Sample ID: E00J3-5 File ID: E00J3-5JA66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	10.37	11.36	J
Straight-Chain Alkane	11.15	20.00	J
Straight-Chain Alkane	11.78	9.43	J
Straight-Chain Alkane	12.35	19.26	J
Straight-Chain Alkane	12.94	10.18	J
Branched Alkane	13.06	6.17	J
Unknown Alkane	13.21	8.42	J
Branched Alkane	13.31	9.14	J
Straight-Chain Alkane	13.41	19.17	J
Branched Alkane	13.52	4.85	J
Branched Alkane	13.60	20.19	J
Straight-Chain Alkane	13.74	4.22	J
Unknown Alkane	20.42	15.27	J
Branched Alkane	21.05	32.54	J
Cyclic Alkane	21.22	27.26	J
Cyclic Alkane	23.08	10.41	J

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE

CASE # 29954
SDG # E00J3
CONTRACT # 68W99071

SAMPLE IDENTIFICATIONS: E00J3, E00J4, E00J5, E00K5, E00K6, E00K7, E00K8, E00L8

The eight water samples listed above were scheduled for the requested analysis of the pesticide fraction.

The samples were prepared and analyzed following the current EPA Contract Laboratory Program (CLP) Statement of Work (SOW), Document OLM04.2. This portion of the SDG narrative deals with the pesticide fraction only. For the receiving information associated with these samples, please refer to the volatile SDG narrative.

Extraction and analysis holding time requirements were met for all of these samples. Endosulfan I and alpha-Chlordane were confirmed by dual column analysis above the Contract Required Quantitation Limit (CRQL) in E00K5. There were no pesticide/PCB Target Compound List (TCL) analytes confirmed by dual column above the CRQL in any of the remaining samples. Manual quantitations were performed on one or more of the process files associated with this SDG, including all of the samples except E00K6, E00K7 and E00K8. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG. All of the surrogates met recovery and retention time criteria in the analyses of these samples. The associated method blank met all quality control criteria. E00J3 was used as the original to prepare the duplicate matrix spikes as requested and met all advisory accuracy and precision criteria.

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 by the Laboratory Manager or his/her designee, as verified by the following signature.

Traci E. Mizlo
Sr. Scientist I
November 29, 2001

COMPUCHEM
A division of Liberty Analytical Corporation
501 Madison Ave.
Cary, NC 27513

SDG NARRATIVE

CASE #29954
SDG #E00J3
CONTRACT #68W99071

SAMPLE IDENTIFICATIONS:

E00J3 E00J4 E00J5 E00K5 E00K6 E00K7 E00K8 E00L8

This portion of the SDG narrative deals with the semivolatile fractions for the eight samples above only. For the receiving information associated with these samples, please refer to the volatile SDG narrative.

All pertinent Quality Assurance notices are included in the narrative section and all pertinent Laboratory notices are included in the sample data sections.

SEMIVOLATILE
The semivolatile fractions were extracted and analyzed within the required holding time. No Target Compound List (TCL) analytes were detected with concentrations above the Contract Required Quantitation Limit (CRQL) in the samples.

Two to twenty-two Tentatively Identified Compounds (TIC) were detected in six of the samples. These TICs were assessed as unknowns, oxiranes, carboxylic acids, alcohols and trichloropropenes. Other TICs were detected and assessed as unknown alkanes in some of the samples. The TICs that were characterized as alkanes have been summarized on the Alkane Narrative Report that is located in the narrative section of the data package. The TIC spectra for the alkanes are located in the data section for the individual samples.

QC SUMMARY
All decafluorotriphenylphosphine (DFTPP) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

The surrogates met recovery criteria for the semivolatile fractions, with some exceptions. The recovery of d14-terphenyl was flagged as an outlier in E00J5 and the recoveries of 2-fluorobiphenyl were flagged as outliers in the initial and repeat extracts of E00K5. The failing recoveries in E00K5 have been attributed to interferences in the matrix.

The internal standards met area response and retention time criteria, with exceptions. In the initial and repeat extractions of E00K5, the area responses for d10-anthracene varied considerably from the responses in the associated Continuing Calibrations. The failing responses have been attributed to interferences present in the matrix of the sample.

The associated blank met Quality Control criteria.

E00J3 was used as the original to prepare the duplicate matrix spikes as requested. The duplicate matrix spikes met accuracy and precison criteria, with one exception. The recovery of 4-nitrophenol was flagged as an outlier in the MSD. Differences were observed between the Reconstructed Ion Chromatograms (RICs) of the MS, MSD and original sample. The variations in non-target, non-spike peaks have been attributed to the inhomogeneous nature of the sample.

In the analyses of the Initial and Continuing Calibration standards and samples E00J4 and E00K5, manual quantitations were performed. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

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 by the laboratory manager or his/her designee, as verified by the following signature:

Patricia B. Hopkins

Patricia B. Hopkins
Data Analyst II
28 November 2001

Note: This report is paginated for reference and accountability in numerical sequence.

ALKANE NARRATIVE REPORT
Report date : 11/28/2001
SDG: E00J3

Client Sample ID: E00J3 Lab Sample ID: E00J3-1 File ID: E00J3-1C66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	19.93	7.07	J
Straight-Chain Alkane	21.52	6.14	J

Client Sample ID: E00K5 Lab Sample ID: E00J3-5 File ID: E00J3-5A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	10.42	832.6	J
Straight-Chain Alkane	11.18	150.7	J
Branched Alkane	11.38	2.86	J
Straight-Chain Alkane	11.80	63.39	J
Straight-Chain Alkane	12.39	25.21	J
Straight-Chain Alkane	12.99	15.18	J
Unknown Alkane	13.10	9.18	J
Branched Alkane	13.15	13.72	J
Branched Alkane	13.26	12.51	J
Branched Alkane	13.36	13.52	J
Straight-Chain Alkane	13.46	28.65	J
Branched Alkane	13.53	8.83	J
Branched Alkane	13.56	7.15	J
Unknown Alkane	13.64	30.32	J
Unknown Alkane	13.78	6.34	J
Cyclic Alkane	20.50	19.07	J
Cyclic Alkane	21.30	34.31	J
Cyclic Alkane	22.17	40.09	J

Client Sample ID: E00K6 Lab Sample ID: E00J3-6 File ID: E00J3-6A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	19.93	4.07	J
Straight-Chain Alkane	22.43	2.06	J

Client Sample ID: E00K5RE Lab Sample ID: E00J3-5 File ID: E00J3-5JA66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	10.37	11.36	J
Straight-Chain Alkane	11.15	20.00	J
Straight-Chain Alkane	11.78	9.43	J
Straight-Chain Alkane	12.35	19.26	J
Straight-Chain Alkane	12.94	10.18	J
Branched Alkane	13.06	6.17	J
Unknown Alkane	13.21	8.42	J
Branched Alkane	13.31	9.14	J
Straight-Chain Alkane	13.41	19.17	J
Branched Alkane	13.52	4.85	J
Branched Alkane	13.60	20.19	J
Straight-Chain Alkane	13.74	4.22	J
Unknown Alkane	20.42	15.27	J
Branched Alkane	21.05	32.54	J
Cyclic Alkane	21.22	27.26	J
Cyclic Alkane	23.08	10.41	J

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE

CASE # 29954
SDG # E00J3
CONTRACT # 68W99071

SAMPLE IDENTIFICATIONS: E00J3, E00J4, E00J5, E00K5, E00K6, E00K7, E00K8, E00L8

The eight water samples listed above were scheduled for the requested analysis of the pesticide fraction.

The samples were prepared and analyzed following the current EPA Contract Laboratory Program (CLP) Statement of Work (SOW), Document OLM04.2. This portion of the SDG narrative deals with the pesticide fraction only. For the receiving information associated with these samples, please refer to the volatile SDG narrative.

Extraction and analysis holding time requirements were met for all of these samples. Endosulfan I and alpha-Chlordane were confirmed by dual column analysis above the Contract Required Quantitation Limit (CRQL) in E00K5. There were no pesticide/PCB Target Compound List (TCL) analytes confirmed by dual column above the CRQL in any of the remaining samples. Manual quantitations were performed on one or more of the process files associated with this SDG, including all of the samples except E00K6, E00K7 and E00K8. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG. All of the surrogates met recovery and retention time criteria in the analyses of these samples. The associated method blank met all quality control criteria. E00J3 was used as the original to prepare the duplicate matrix spikes as requested and met all advisory accuracy and precision criteria.

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 by the Laboratory Manager or his/her designee, as verified by the following signature.

Traci E. Mizlo
Sr. Scientist I
November 29, 2001

GC and GC/MS Column and Trap Specifications Table

COLUMNS

Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
GC Laboratory				
Restek	RTX-1701	0.53	0.5	30
J & W	DB-608	0.53	0.83	30
Restek	CLPesticides	0.53	0.5	30
Restek	CLPesticides II	0.53	0.42	30
GC Volatiles Laboratory				
Restek	RTX-1	0.53	0.5	105
Restek	RTX-502.2	0.53	0.5	105
GC/MS Volatiles Laboratory				
J & W	DB-624	0.53	3.0	30/75
J & W	DB-624	0.25	1.4	60
J & W	DB-624	0.32	1.8	60
Restek	RTX-624	0.32	1.8	60
Supelco	SPB-624	0.32	1.4	60
Supelco	Equity™-624	0.53	3.0	75
GC/MS Semivolatiles Laboratory				
J & W	DB-5.625	0.32	1.0	30
J & W	DB5-MS	0.25	0.25	30
Hewlett Packard	HP5-MS	0.25	0.25	30
Optima	5-MS	0.25	0.25	30
Restek	RTX-5MS	0.25	0.25	30

TRAPS

GC and GC/MS Volatiles Laboratory	
Tekmar 3	* 8 cm of 2,6-diphenylene oxide polymer (Tenax) * 8 cm of silica gel * 7 cm of coconut charcoal * 0.5 cm of silanized glass wool at each end
Tekmar 5	* 1 cm of methyl silicone packing (OV-1 coating) * 8 cm of 2,6-diphenylene oxide polymer (Tenax) * 8 cm of silica gel * 7 cm of coconut charcoal * 0.5 cm of silanized glass wool at each end
Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons) * 6 cm of Carboxen 1000 (Carbon molecular sieves) * 1 cm of Carboxen 1001 (Carbon molecular sieves)

USEPA Contract Laboratory Program
Organic Traffic Report

Case No:	29954
DAS No:	
SDG No:	E00J2, E00J3

L

Date Shipped: 11/7/01	Date Received/Received by: 11/8/01 Alice Evans	Sampler (Signature): Paul Mason		
Carrier Name: FedEx	Lab Contract No: 68W99071 Unit Price: $514.40	Relinquished By: Paul Mason	Date / Time: 11-7-01 6:15p	Received By:
Airbill: 832620621147		Relinquished By:	Date / Time: 11-8-01 1005	Received By:
Shipped to: Liberty Analytical 501 Madison Avenue Cary NC 27513 (919) 379-4080	Transfer To:	Relinquished By:	Date / Time:	Received By:
	Date Received/Received By:			
	Lab Contract No: Price:			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00J2	Sediment/ Paul Mason	L/G	BNA/PEST (21), VOA (21)	5-59969 (Ice Only), 5-59970 (Ice Only) (2)	X204	11/7/01 9:00	ME00J2	GOOD
E00J3 ✓	Surface Water/ Paul Mason	L/G	BNA (21), PEST (21), VOA (21)	5-59975 (Ice Only), 5-59976 (Ice Only), 5-59977 (Ice Only), 5-59978 (Ice Only), 5-59979 (Ice Only), 5-59980 (Ice Only), 5-59981 (HCL), 5-59982 (HCL), 5-59983 (HCL), 5-59984 (HCL), 5-59985 (HCL), 5-59986 (HCL) (12)	S104	11/7/01 9:00	ME00J3	
E00J4 ✓	Surface Water/ Paul Mason	L/G	BNA (21), PEST (21), VOA (21)	5-59988 (Ice Only), 5-59989 (Ice Only), 5-59990 (HCL), 5-59991 (HCL) (4)	S114	11/7/01 10:40	ME00J4	
E00J5 ✓	Surface Water/ Paul Mason	L/G	BNA (21), PEST (21), VOA (21)	5-59993 (Ice Only), 5-59994 (Ice Only), 5-59995 (HCL), 5-59996 (HCL) (4)	S101	11/7/01 11:15	ME00J5	
E00J6	Sediment/ Paul Mason	L/G	BNA/PEST (21), VOA (21)	5-59998 (Ice Only), 5-59999 (Ice Only) (2)	X201	11/7/01 11:30	ME00J6	
E00J7	Sediment/ Paul Mason	L/G	BNA/PEST (21), VOA (21)	5-122284 (Ice Only), 5-122285 (Ice Only) (2)	X215	11/7/01 12:00	ME00J7	
E00J8	Sediment/ Paul Mason	L/G	BNA/PEST (21), VOA (21)	5-122288 (Ice Only), 5-122289 (Ice Only) (2)	X214	11/7/01 12:15	ME00J8	
E00J9	Sediment/ Paul Mason	L/G	BNA/PEST (21), VOA (21)	5-122292 (Ice Only), 5-122293 (Ice Only) (2)	X250	11/7/01 12:15	ME00J9	

COPY
ORIGINAL DOCUMENTS INCLUDED IN CSF- E00G0
SIGNATURE [illegible] DATE 11/8/01

Yes Temp Blank

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E00G6, E00J2, E00J3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: 81135-81137 81139-81141
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-110701-0001

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 29954
DAS No:
SDG No: E00J3, E00J2

L

Date Shipped: 11/7/01 Carrier Name: FedEx Airbill: 832620621147 Shipped to: Liberty Analytical 501 Madison Avenue Cary NC 27513 (919) 379-4080	Date Received/Received by: 11/8/01 Alice Evans Lab Contract No: 68W-00-021 Unit Price: 514.40 11/8/01 Transfer To: Date Received/Received By: Lab Contract No: Price:	Samples (Signature): Paul Mason	
		Relinquished By: Paul Mason	Date / Time: 11-7-01 6:15p — Received By:
		Relinquished By:	Date / Time: 11-8-01 1005 — Received By: Philip Lapt
		Relinquished By:	Date / Time: — Received By:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00K0 ✓	Surface Water/ Paul Mason	L/G	VOA (21)	5-122295 (HCL), 5-122296 (HCL) (2)	Trip Blank	11/7/01 15:48		GOOD
E00K1	Sediment/ Paul Mason	L/G	VOA (21)	5-122297 (Ice Only) (1)	X213	11/7/01 12:30		
E00K2	Sediment/ Paul Mason	L/G	BNA/PEST (21), VOA (21)	5-059001 (Ice Only), 5-59002 (Ice Only) (2)	X212	11/7/01 13:00	ME00K2	
E00K3	Sediment/ Paul Mason	L/G	BNA/PEST (21), VOA (21)	5-59005 (Ice Only), 5-59006 (Ice Only) (2)	X205	11/7/01 15:15	ME00K3	
E00K4	Sediment/ Paul Mason	L/G	BNA/PEST (21), VOA (21)	5-122301 (Ice Only), 5-59009 (Ice Only) (2)	X203	11/7/01 15:45	ME00K4	
E00K5 ✓	Surface Water/ Paul Mason	M/G	BNA (21), PEST (21), VOA (21)	5-122304 (Ice Only), 5-122305 (Ice Only), 5-122306 (HCL), 5-122307 (HCL) (4)	S103	11/7/01 15:45	ME00K5	COPY
E00K6 ✓	Surface Water/ Paul Mason	L/G	BNA (21), PEST (21), VOA (21)	5-122309 (Ice Only), 5-122310 (Ice Only), 5-122311 (HCL), 5-122312 (HCL) (4)	S106	11/7/01 16:15	ME00K6	
E00K7 ✓	Surface Water/ Paul Mason	L/G	BNA (21), PEST (21), VOA (21)	5-122314 (Ice Only), 5-122315 (Ice Only), 5-122316 (HCL), 5-122317 (HCL) (4)	S150	11/7/01 16:15	ME00K7	
E00K8 ✓	Surface Water/ Paul Mason	L/G	BNA (21), PEST (21), VOA (21)	5-122319 (Ice Only), 5-122320 (Ice Only), 5-122321 (HCL), 5-143958 (HCL) (4)	Field Blank	11/7/01 17:00	ME00K8	
E00K9	Sediment/ Paul Mason	M/G	BNA/PEST (21), VOA (21)	5-143960 (Ice Only), 5-143961 (Ice Only), 5-143962 (Ice Only) (3)	X206	11/7/01 16:15	ME00K9	

ORIGINAL DOCUMENTS INCLUDED IN CSF- E00G0

SIGNATURE [illegible] DATE 11/8/01

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E00G6, E00J2, E00J3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: 81135-81137, 81139-81141
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-110701-0001

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 29954
DAS No:
SDG No: E00J2, E00J3

L

Date Shipped: 11/8/01 Carrier Name: FedEx Airbill: 832620621170 Shipped to: Liberty Analytical 501 Madison Avenue Cary NC 27513 (919) 379-4080	Date Received/Received by: [illegible] 11.9.01 Lab Contract No: 68W99071 Unit Price: 514.40 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): [illegible] 11/08/01	
		Relinquished By: [illegible]	Date / Time: 11/08/01 1530 — Received By: [illegible]
		Relinquished By:	Date / Time: — Received By:
		Relinquished By:	Date / Time: 11/9/01 9:00 — Received By: M. [illegible]

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00L0	Surface Soil (0"-12")/ Mark Wagner	L/G	BNA (21)	5-143964 (Ice Only) (1)	X145	11/8/01 8:05	ME00L0	GOOD
E00L1	Surface Soil (0"-12")/ Mark Wagner	L/G	BNA (21)	5-143966 (Ice Only) (1)	X120	11/8/01 8:25	ME00L1	
E00L2	Sediment/ Mark Wagner	M/G	BNA/PEST (21), VOA (21)	5-143968 (Ice Only), 5-143969 (Ice Only), 5-143970 (Ice Only) (3)	X207	11/8/01 8:45	ME00L2	
E00L3	Sediment/ Mark Wagner	L/G	BNA/PEST (21), VOA (21)	5-143972 (Ice Only), 5-143973 (Ice Only), 5-143974 (Ice Only) (3)	X209	11/8/01 10:05	ME00L3	
E00L4	Sediment/ Mark Wagner	L/G	BNA/PEST (21), VOA (21)	5-143976 (Ice Only), 5-143977 (Ice Only), 5-143978 (Ice Only) (3)	X208	11/8/01 9:45	ME00L4	
E00L5	Sediment/ Mark Wagner	L/G	BNA/PEST (21), VOA (21)	5-143980 (Ice Only), 5-143981 (Ice Only), 5-143982 (Ice Only) (3)	X211	11/8/01 11:10	ME00L5	
E00L6	Sediment/ Mark Wagner	L/G	BNA/PEST (21), VOA (21)	5-143984 (Ice Only), 5-143985 (Ice Only), 5-143986 (Ice Only) (3)	X210	11/8/01 10:40	ME00L6	
E00L7	Surface Soil (0"-12")/ Mark Wagner	L/G	BNA (21)	5-143988 (Ice Only) (1)	X101	11/8/01 12:20	ME00L7	
E00L8 ✓	Surface Water/ Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	5-143990 (Ice Only), 5-143991 (Ice Only), 5-143992 (HCL), 5-163975 (HCL) (4)	S102	11/8/01 13:20	ME00L8	SDG - FINAL SAMPLE

COPY
ORIGINAL DOCUMENTS INCLUDED IN CSF- E00J2

SIGNATURE [illegible] DATE 11/9/01

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 5°C	Chain of Custody Seal Number: 26006-26007
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? ✓	Shipment Iced? ✓

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles

PR provides p[illegible]inary results. Requests for preliminary results will increase analytical costs.
Send Copy to. [illegible]tract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, [illegible]20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-110801-0001

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKXP	99	94	102		
02	E00J3	99	95	105		
03	E00J4	98	94	103		
04	E00J5	101	96	102		
05	E00K0	98	96	103		
06	E00K5	99	91	102		
07	E00K6	98	98	101		
08	VBLKWJ	99	94	101		
09	E00K7	100	97	101		
10	E00K8	95	96	101		
11	E00L8	98	96	102		
12	E00J3MS	98	96	100		
13	E00J3MSD	97	97	102		
14	VHBLKWJ	99	93	102		
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(88-110)
SMC2 (BFB)	= Bromofluorobenzene	(86-115)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix Spike - EPA Sample No.: E00J3

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50.00	0.00	53.57	107	61-145
Trichloroethene	50.00	0.00	47.26	95	71-120
Benzene	50.00	0.00	51.22	102	76-127
Toluene	50.00	0.00	49.71	99	76-125
Chlorobenzene	50.00	0.00	50.61	101	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.00	55.13	110	3	14	61-145
Trichloroethene	50.00	49.75	100	5	14	71-120
Benzene	50.00	53.13	106	4	11	76-127
Toluene	50.00	50.99	102	3	13	76-125
Chlorobenzene	50.00	52.95	106	5	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKWJ

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Lab File ID: WG14096-1A59 Lab Sample ID: WG14096-1

Date Analyzed: 11/14/01 Time Analyzed: 1012

GC Column: DB624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972HP59

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E00K7	E00J3-7	E00J3-7A59	1103
02	E00K8	E00J3-8	E00J3-8A59	1129
03	E00L8	E00J3-9	E00J3-9A59	1156
04	E00J3MS	WG14096-4	WG14096-4A59	1223
05	E00J3MSD	WG14096-5	WG14096-5A59	1249
06	VHBLKWJ	WG14096-6	WG14096-6A59	1405
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKXP

b Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Lab File ID: WG14140-1C59 Lab Sample ID: WG14140-1

Date Analyzed: 11/14/01 Time Analyzed: 0132

GC Column: DB624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Instrument ID: 5972HP59

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E00J3	E00J3-1	E00J3-1C59	0416
02	E00J4	E00J3-2	E00J3-2C59	0442
03	E00J5	E00J3-3	E00J3-3C59	0509
04	E00K0	E00J3-4	E00J3-4C59	0536
05	E00K5	E00J3-5	E00J3-5C59	0602
06	E00K6	E00J3-6	E00J3-6C59	0629
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-1

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-1C59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-1

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-1C59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	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
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00J3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-1

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-1C59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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.

E00J4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-2

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-2C59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-2

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-2C59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	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
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00J4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-2

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-2C59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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.

E00J5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-3

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-3C59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-3

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-3C59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	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
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00J5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-3

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-3C59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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.

E00K0

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-4

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-4C59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	13	
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K0

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-4

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-4C59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	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
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00K0

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-4

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-4C59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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.				

FORM I VOA-TIC OLM04.2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-5

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-5C59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	9	J
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	1	J
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-5

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-5C59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	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
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00K5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-5

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-5C59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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.

E00K6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-6

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-6C59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-6

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-6C59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	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
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00K6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-6

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-6C59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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.

E00K7

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-7

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-7A59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K7

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-7

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-7A59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	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
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00K7

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-7

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-7A59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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.				

FORM I VOA-TIC OLM04.2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-8

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-8A59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-8

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-8A59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	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
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00K8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-8

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-8A59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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.				

FORM I VOA-TIC OLM04.2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-9

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-9A59

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-9

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-9A59

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	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
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00L8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-9

Sample wt/vol: 5 (g/mL) ML Lab File ID: E00J3-9A59

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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.

VBLKXP

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: WG14140-1

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG14140-1C59

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKXP

ab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: WG14140-1

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG14140-1C59

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	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
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKXP

ab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: WG14140-1

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG14140-1C59

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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.

VBLKWJ

ab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: WG14096-1

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG14096-1A59

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKWJ

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: WG14096-1

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG14096-1A59

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	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
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKWJ

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: WG14096-1

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG14096-1A59

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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.

VHBLKWJ

ab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: WG14096-6

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG14096-6A59

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKWJ

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: WG14096-6

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG14096-6A59

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	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
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLKWJ

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: WG14096-6

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG14096-6A59

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (mm) Dilution Factor: 1.0

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

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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.

E00J3MS

ab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: WG14096-4

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG14096-4A59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	54	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	51	
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J3MS

ab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: WG14096-4

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG14096-4A59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
79-01-6	Trichloroethene	47	
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	50	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	51	
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	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
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J3MSD

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: WG14096-5

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG14096-5A59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	55	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	53	
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J3MSD

ab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: WG14096-5

Sample wt/vol: 5 (g/mL) ML Lab File ID: WG14096-5A59

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/14/01

GC Column: DB624 ID: 0.32 (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
79-01-6	Trichloroethene	50	
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	51	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	53	
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	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
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLK0F	57	54	64	56	53	55	62	48	0
02	E00J3	59	60	53	59	54	68	64	51	0
03	E00J3MS	60	55	54	55	51	66	63	48	0
04	E00J3MSD	55	62	61	54	50	73	61	53	0
05	E00J4	55	57	64	55	48	73	60	46	0
06	E00J5	59	53	29*	59	50	67	64	43	1
07	E00K5	73	345*	65	75	69	90	81	63	1
08	E00K6	66	62	45	67	64	76	73	54	0
09	E00K7	70	63	40	66	62	77	73	56	0
10	E00K8	56	56	69	57	50	66	61	46	0
11	E00L8	77	74	47	80	76	89	87	67	0
12	E00K5RE	76	511*	67	73	67	95	82	64	1
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10-110)	
S5 (2FP)	= 2-Fluorophenol	(21-110)	
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	
S7 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix Spike - EPA Sample No.: E00J3

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol	75.00	0.00	44.37	59	12-110
2-Chlorophenol	75.00	0.00	44.99	60	27-123
N-Nitroso-di-n-prop.(1)	50.00	0.00	32.29	65	41-116
4-Chloro-3-methylphenol	75.00	0.00	50.55	67	23- 97
Acenaphthene	50.00	0.00	34.93	70	46-118
4-Nitrophenol	75.00	0.00	58.67	78	10- 80
2,4-Dinitrotoluene	50.00	0.00	38.23	76	24- 96
Pentachlorophenol	75.00	0.00	40.44	54	9-103
Pyrene	50.00	0.00	39.18	78	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	75.00	41.67	56	5	42	12-110
2-Chlorophenol	75.00	44.25	59	2	40	27-123
N-Nitroso-di-n-prop.(1)	50.00	31.19	62	5	38	41-116
4-Chloro-3-methylphenol	75.00	50.21	67	0	42	23- 97
Acenaphthene	50.00	37.80	76	8	31	46-118
4-Nitrophenol	75.00	63.16	84*	7	50	10- 80
2,4-Dinitrotoluene	50.00	37.54	75	1	38	24- 96
Pentachlorophenol	75.00	43.39	58	7	50	9-103
Pyrene	50.00	44.32	89	13	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 9 outside limits
Spike Recovery: 1 out of 18 outside limits

COMMENTS: _____

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKDF

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Lab File ID: WG14120-1C66 Lab Sample ID: WG14120-1

Instrument ID: 5972HP66 Date Extracted: 11/12/01

Matrix: (soil/water) WATER Date Analyzed: 11/17/01

Level:(low/med) LOW Time Analyzed: 0119

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E00J3	E00J3-1	E00J3-1C66	11/17/01
02	E00J3MS	WG14120-2	WG14120-2C66	11/17/01
03	E00J3MSD	WG14120-3	WG14120-3C66	11/17/01
04	E00J4	E00J3-2	E00J3-2C66	11/17/01
05	E00J5	E00J3-3	E00J3-3C66	11/17/01
06	E00K5	E00J3-5	E00J3-5A66	11/17/01
07	E00K6	E00J3-6	E00J3-6A66	11/17/01
08	E00K7	E00J3-7	E00J3-7A66	11/18/01
09	E00K8	E00J3-8	E00J3-8A66	11/18/01
10	E00L8	E00J3-9	E00J3-9A66	11/18/01
11	E00K5RE	E00J3-5	E00J3-5JA66	11/19/01
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-1C66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	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
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-1C66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

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
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00J3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-1C66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 12 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	13.52	4	J
2.	UNKNOWN (BC)	14.73	5	JB
3.	UNKNOWN	14.97	3	J
4.	UNKNOWN (BC)	16.07	6	JB
5.	UNKNOWN	17.69	4	J
6.	UNKNOWN	17.76	3	J
7.	UNKNOWN (BC)	19.41	6	JB
8.	UNKNOWN	20.17	7	J
9.	UNKNOWN	20.24	6	J
10. 7390-81-0	OXIRANE, HEXADECYL-	21.10	3	NJ
11. 7390-81-0	OXIRANE, HEXADECYL-	22.99	5	NJ
12.	UNKNOWN	25.52	110	J
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-2C66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	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
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-2C66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

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
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	0.5	J
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	0.6	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00J4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-2C66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	9.34	2	J
2.	UNKNOWN (BC)	19.41	4	JB
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.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-3C66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	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
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-3C66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

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
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	0.4	J
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	0.9	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00J5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-3C66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	14.34	3	J
2.	UNKNOWN	16.09	4	J
3.	UNKNOWN (BC)	19.40	5	JB
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.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-5A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	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
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-5A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

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	0.7	J
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	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	0.9	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00K5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-5A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 22

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	12.88	2	J
2.	UNKNOWN	12.93	3	J
3.	UNKNOWN	13.29	13	J
4.	UNKNOWN	14.89	3	J
5.	UNKNOWN	15.27	190	J
6.	UNKNOWN	15.42	34	J
7.	UNKNOWN	15.52	12	J
8.	UNKNOWN	15.62	12	J
9.	UNKNOWN	15.81	250	J
10.	UNKNOWN	15.94	17	J
11.	UNKNOWN	16.01	12	J
12.	UNKNOWN	16.35	150	J
13.	UNKNOWN	16.50	17	J
14.	UNKNOWN	16.95	140	J
15.	UNKNOWN	20.33	27	J
16.	UNKNOWN	21.13	60	J
17. 0-00-0	1,15-PENTADECANEDIOL	21.85	24	NJ
18.	UNKNOWN	22.02	72	J
19.	UNKNOWN	22.85	29	J
20.	UNKNOWN	23.00	43	J
21.	UNKNOWN	23.93	17	J
22.	UNKNOWN	25.64	50	J
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K5RE

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-5JA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/15/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/19/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	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
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K5RE

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-5JA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/15/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/19/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

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	0.5	J
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	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	0.9	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00K5RE

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-5JA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:11/15/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/19/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 21

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	12.89	2	J
2.	UNKNOWN	13.25	9	J
3.	UNKNOWN	13.48	6	J
4.	UNKNOWN	15.22	150	J
5.	UNKNOWN CARBOXYLIC ACID	15.37	29	J
6.	UNKNOWN	15.46	11	J
7.	UNKNOWN	15.75	200	J
8.	UNKNOWN	15.88	16	J
9.	UNKNOWN	15.96	11	J
10.	UNKNOWN	16.29	120	J
11.	UNKNOWN	16.44	15	J
12.	UNKNOWN	16.89	120	J
13.	UNKNOWN	20.27	21	J
14.	UNKNOWN	21.08	25	J
15. 0-00-0	1,15-PENTADECANEDIOL	21.76	20	NJ
16.	UNKNOWN	21.93	59	J
17. 4536-26-9	HEXADECANOIC ACID, TETRADECY	22.08	33	NJ
18. 5353-25-3	ETHANOL, 2-(9-OCTADECENYLOXY	22.74	21	NJ
19. 106-02-5	OXACYCLOHEXADECAN-2-ONE	22.91	39	NJ
20.	UNKNOWN	23.82	15	J
21.	UNKNOWN	24.00	12	J
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-6

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-6A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	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
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-6

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-6A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

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
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	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	3	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00K6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-6

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-6A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 19

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	9.83	4	J
2.	UNKNOWN	11.35	2	J
3.	UNKNOWN ALCOHOL	11.86	4	J
4.	UNKNOWN ALCOHOL	13.51	6	J
5.	UNKNOWN ALCOHOL	14.73	7	J
6.	UNKNOWN ALCOHOL	14.98	8	J
7.	UNKNOWN	16.03	4	J
8.	UNKNOWN	16.06	6	J
9.	UNKNOWN ALCOHOL	16.11	4	J
10.	UNKNOWN	16.16	3	J
11.	UNKNOWN	16.38	8	J
12.	UNKNOWN	17.68	5	J
13.	UNKNOWN	17.75	5	J
14.	UNKNOWN	17.82	3	J
15.	UNKNOWN	19.41	5	J
16.	UNKNOWN	20.08	6	J
17.	UNKNOWN	20.15	5	J
18.	UNKNOWN	25.39	34	J
19.	UNKNOWN	27.19	17	J
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K7

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-7

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-7A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	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
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K7

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-7

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-7A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

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
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	2	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00K7

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-7

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-7A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ Decanted: (Y/N) ___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

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.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-8

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-8A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	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
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-8

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-8A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

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
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	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	0.9	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00K8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-8

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-8A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

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.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-9

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-9A66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	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
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-9

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-9A66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	J
100-02-7	4-Nitrophenol	25	J
132-64-9	Dibenzofuran	10	J
121-14-2	2,4-Dinitrotoluene	10	J
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	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	0.2	J
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	0.7	JB
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00L8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-9

Sample wt/vol: 1000 (g/mL) ML Lab File ID: E00J3-9A66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/18/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	TRICHLOROPROPENE	6.35	2	J
2.	UNKNOWN ALCOHOL	13.53	2	J
3.	UNKNOWN ALCOHOL	14.96	4	J
4.	UNKNOWN ALCOHOL	19.40	3	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.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKDF

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: EC0J3

Matrix: (soil/water) WATER Lab Sample ID: WG14120-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WG14120-1C66

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	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
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

"D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKDF

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: WG14120-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WG14120-1C66

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

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
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	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	0.6	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKDF

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: WG14120-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WG14120-1C66

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Extraction: (Type) CONT

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	14.74	3	J
2.	UNKNOWN (BC)	16.09	4	J
3.	UNKNOWN (BC)	19.42	4	J
4.	UNKNOWN (BC)	24.10	31	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.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J3MS

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: WG14120-2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WG14120-2C66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Extraction: (Type) CONT

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

CAS NO.	COMPOUND		Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	44	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	45	
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	32	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	51	
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
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	35	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J3MS

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: WG14120-2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WG14120-2C66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

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	59	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	38	
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	40	
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	39	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	B
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J3MSD

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: WG14120-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WG14120-3C66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	42	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	44	
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	31	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	50	
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
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	38	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J3MSD

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: WG14120-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: WG14120-3C66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 11/12/01

Concentrated Extract Volume: 1000(uL) Date Analyzed: 11/17/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Extraction: (Type) CONT

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	63	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	38	
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	43	
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	44	
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	13	B
117-84-0	Di-n-octylphthalate	0.3	J
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

(1) - Cannot be separated from Diphenylamine

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

GC Column(1): CLPEST ID: 0.53(mm) GC Column(2): CLPEST2 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKDD	95	85	150	105			0
02	E00J3MS	95	85	85	90			0
03	E00J3MSD	95	100	90	95			0
04	E00J3	105	90	100	100			0
05	E00J4	100	80	90	95			0
06	E00J5	95	90	90	95			0
07	E00K5	95	80	70	85			0
08	E00K6	95	85	90	90			0
09	E00K7	75	90	105	80			0
10	E00K8	90	95	95	100			0
11	E00L8	90	75	75	80			0
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

		QC LIMITS
S1 (TCX)	= Tetrachloro-m-xylene	(30-150)
S2 (DCB)	= Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix Spike - EPA Sample No.: E00J3

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	0.50	0.0	0.46	92	56-123
Heptachlor	0.50	0.0	0.45	90	40-131
Aldrin	0.50	0.0	0.47	94	40-120
Dieldrin	1.0	0.0	0.90	90	52-126
Endrin	1.0	0.0	1.0	100	56-121
4,4'-DDT	1.0	0.0	0.91	91	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.50	0.49	98	6	15	56-123
Heptachlor	0.50	0.47	94	4	20	40-131
Aldrin	0.50	0.48	96	2	22	40-120
Dieldrin	1.0	0.97	97	7	18	52-126
Endrin	1.0	1.1	110	10	21	56-121
4,4'-DDT	1.0	0.95	95	4	27	38-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS: _____

FORM III PEST-1

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKDD

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Lab Sample ID: WG14118-1 Lab File ID: _____

Matrix (soil/water) WATER Extraction:(Type) SEPF

Sulfur Cleanup (Y/N) N Date Extracted: 11/12/01

Date Analyzed (1): 11/28/01 Date Analyzed (2): 11/28/01

Time Analyzed (1): 1311 Time Analyzed (2): 1311

Instrument ID (1): TRACEGC82 Instrument ID (2): TRACEGC83

GC Column (1): CLPEST ID: 0.53(mm) GC Column (2): CLPEST2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	E00J3MS	WG14118-2	11/28/01	11/28/01
02	E00J3MSD	WG14118-3	11/28/01	11/28/01
03	E00J3	E00J3-1	11/28/01	11/28/01
04	E00J4	E00J3-2	11/28/01	11/28/01
05	E00J5	E00J3-3	11/28/01	11/28/01
06	E00K5	E00J3-5	11/28/01	11/28/01
07	E00K6	E00J3-6	11/28/01	11/28/01
08	E00K7	E00J3-7	11/28/01	11/28/01
09	E00K8	E00J3-8	11/28/01	11/28/01
10	E00L8	E00J3-9	11/28/01	11/28/01
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM IV PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/08/01

Extraction: (Type) SEPF Date Extracted: 11/12/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/28/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

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

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J4

ab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/08/01

Extraction: (Type) SEPF Date Extracted: 11/12/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/28/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

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

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J5

ab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/08/01

Extraction: (Type) SEPF Date Extracted: 11/12/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/28/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-5

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/08/01

Extraction: (Type) SEPF Date Extracted: 11/12/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/28/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.073	
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	0.086	JP
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.046	JP
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.065	
5103-74-2	gamma-Chlordane	0.019	JP
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

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-6

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/08/01

Extraction: (Type) SEPF Date Extracted: 11/12/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/28/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

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

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K7

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-7

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/08/01

Extraction: (Type) SEPF Date Extracted: 11/12/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/28/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

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

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-8

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/08/01

Extraction: (Type) SEPF Date Extracted: 11/12/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/28/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

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

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: E00J3-9

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/09/01

Extraction: (Type) SEPF Date Extracted: 11/12/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/28/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKDD

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: WG14118-1

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 11/12/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/28/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

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

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J3MS

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: WG14118-2

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/08/01

Extraction: (Type) SEPF Date Extracted: 11/12/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/28/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.46	
76-44-8	Heptachlor	0.45	
309-00-2	Aldrin	0.47	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.90	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	1.0	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.91	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J3MSD

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J3

Matrix: (soil/water) WATER Lab Sample ID: WG14118-3

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) _____ Date Received: 11/08/01

Extraction: (Type) SEPF Date Extracted: 11/12/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 11/28/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.49	
76-44-8	Heptachlor	0.47	
309-00-2	Aldrin	0.48	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.97	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	1.1	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.95	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

FORM I PEST

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: EOCJ3 CERCLIS No: ILN000508156

Case No: 29954 Site Name/Location: Clark

Contractor or EPA Lab: CompuChem Data User: IEPA

No. of Samples: 9 Date Sampled or Date Received: 11-30-01

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 9 No. of samples received: 9

Received by: Ewa M. Dixon/ESAT Date: 11-30-01

Received by LSSS: Ewa M. Dixon/ESAT Date: 11-30-01

Review started: 12/03/01 Reviewer Signature: Stephanie Jones / J. Harry

Total time spent on review: 8 hr. Date review completed: 12/03/01

Copied by: Ewa M. Dixon/ESAT Date: 12-6-01

Mailed to user by: Ewa M. Dixon/ESAT Date: 12-6-01

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: ____

DATE: December 6, 2001

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Clark

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
29954	Compuchem	19	E00J2	Water/Soil

==========

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

DEC 1 1 2001

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE: _____

SUBJECT: Electronic (**Level 2**) Review of Data

Received for Review on **12-04-2001**

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: **IEPA**

The following data has been electronically reviewed by CADRE. No review of the raw data, laboratory narrative, laboratory forms or chain-of-custody forms was performed.

SITE NAME: Clark (IL)

CASE NUMBER: 29954 SDG NUMBER: E00J2

Number and Type of Samples: 19 water/soil samples

Sample Numbers: E00J2, E00J6-E00J9, E00K1-E00K4, E00K9, E00L0-E00L7, E00L9

Laboratory: Compuchem Hrs. for Review: _____

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

DEC 11 2001

Case Number :29954
Name:Clark (IL)

SDG Number: E00J2
Laboratory: Compuchem

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Nineteen water and soil samples, numbered E00J2, E00J6-E00J9, E00K1-E00K4, E00K9, E00L0-E00L7 and E00L9 were collected on *11/07-08/2001*. The lab received the samples on *11/08-09/2001* in good condition. Sample E00K1 was analyzed for only the list of VOA. Samples E00L0, E00L1 and E00L7 were analyzed for the list of SVOA analytes. The remaining samples were analyzed for the full list of organic analytes. All were analyzed according to CLP SOW *OLM04.2* 5/99.

Case Number :29954
: Name:Clark (IL)

SDG Number: E00J2
Laboratory: Compuchem

1. HOLDING TIME

No problems were found for this qualification.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems were found for this qualification.

3. CALIBRATION

The following volatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

tert-Butyl Methyl Ether
E00J2, E00J2MS, E00J2MSD, E00J6, E00J7, E00J8
E00J9, E00K1, E00K2, E00K3, E00K4, E00K9
E00L2, E00L3, E00L4, E00L5, E00L5RE, E00L6
E00L9, VBLKWG, VBLKXD, VBLKXE, VHBLKWG

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Acetone
E00J2, E00J2MS, E00J2MSD, E00J6, E00J8, E00J9
E00K1, E00K2, E00K3, E00K4, E00L5RE, E00L9
VBLKWG, VBLKXE, VHBLKWG

trans-1,2-Dichloroethene
E00J7, E00K9, E00L2, E00L3, E00L4, E00L5
E00L6, VBLKXD

1,1-Dichloroethane
E00J2, E00J2MS, E00J2MSD, E00J6, E00J7, E00J8
E00J9, E00K1, E00K2, E00K3, E00K4, E00K9
E00L2, E00L3, E00L4, E00L5, E00L6, VBLKWG
VBLKXD

2-Butanone
E00J2, E00J2MS, E00J2MSD, E00J6, E00J8, E00J9
E00K1, E00K2, E00K3, E00K4, E00L5RE, E00L9
VBLKWG, VBLKXE, VHBLKWG

Case Number :29954
Name:Clark (IL)

SDG Number: E00J2
Laboratory: Compuchem

Cyclohexane
E00L5RE, E00L9, VBLKXE, VHBLKWG

1,2-Dichloroethane
E00J2, E00J2MS, E00J2MSD, E00J6, E00J8, E00J9
E00K1, E00K2, E00K3, E00K4, E00L5RE, E00L9
VBLKWG, VBLKXE, VHBLKWG

2-Hexanone
E00J2, E00J2MS, E00J2MSD, E00J6, E00J8, E00J9
E00K1, E00K2, E00K3, E00K4, E00L5RE, E00L9
VBLKWG, VBLKXE, VHBLKWG

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria.
Hits are qualified "J" and non-detects are qualified "UJ".

Benzaldehyde
E00K2, E00K3DL, E00K9RE, E00L0, E00L1, E00L2
E00L3, E00L4, E00L5, E00L5RE, E00L6, E00L7
E00L9

Hexachlorocyclopentadiene
E00J2, E00J2MS, E00J2MSD, E00J6, E00J6DL, E00J7
E00J7DL, E00J8, E00J8DL, E00J9, E00J9DL, E00K2
E00K3, E00K3DL, E00K4, E00K9, E00K9RE, E00L0
E00L1, E00L2, E00L3, E00L4, E00L5, E00L5RE
E00L6, E00L7, E00L9, SBLKFF

2,4-Dinitrophenol
E00J2, E00J2MS, E00J2MSD, E00J6, E00J6DL, E00J7
E00J7DL, E00J8, E00J8DL, E00J9, E00J9DL, E00K2
E00K3, E00K3DL, E00K4, E00K9, E00K9RE, E00L0
E00L1, E00L2, E00L3, E00L4, E00L5, E00L5RE
E00L6, E00L7, E00L9, SBLKFF

4-Nitrophenol
E00J2, E00J2MS, E00J2MSD, E00J6, E00J6DL, E00J7
E00J7DL, E00J8, E00J8DL, E00J9, E00J9DL, E00K3
E00K4, E00K9, SBLKFF

Atrazine
E00J2, E00J2MS, E00J2MSD, E00J6, E00J6DL, E00J7

E00J7DL, E00J8, E00J8DL, E00J9, E00J9DL, E00K2
E00K3, E00K3DL, E00K4, E00K9, E00K9RE, E00L0
E00L1, E00L2, E00L3, E00L4, E00L5, E00L5RE
E00L6, E00L7, E00L9, SBLKFF

Indeno(1,2,3-cd)pyrene
E00K2, E00K3DL, E00K9RE, E00L0, E00L1, E00L2
E00L3, E00L4, E00L5, E00L5RE, E00L6, E00L7
E00L9

4. BLANKS

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to five times (5X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL.
Hits are qualified "U" and non-detects are not flagged.

E00J6
1,4-Dichlorobenzene

E00K1
1,2-Dichlorobenzene

E00K2
1,4-Dichlorobenzene

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL.
Hits are qualified "U" and non-detects are not flagged.

Cyclohexane
E00J2MS, E00J6, E00J8, E00J9, E00K2, E00K3
E00L3, E00L5RE, E00L6, E00L9

The following semivolatile samples have analyte concentrations reported above the CRQL and less than or equal to ten times (10X) the associated method blank concentration.
Hits are qualified "U" and non-detects are not flagged.

E00J2MSD

bis(2-Ethylhexyl)phthalate

E00K4
bis(2-Ethylhexyl)phthalate

E00K9
bis(2-Ethylhexyl)phthalate

E00L0
bis(2-Ethylhexyl)phthalate

E00L2
bis(2-Ethylhexyl)phthalate

E00L3
bis(2-Ethylhexyl)phthalate

E00L6
bis(2-Ethylhexyl)phthalate

E00L7
bis(2-Ethylhexyl)phthalate

The following semivolatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL.
Hits are qualified "U" and non-detects are not flagged.

bis(2-Ethylhexyl)phthalate
E00J2, E00J2MS, E00K9RE, E00L1, E00L5. E00L5RE
E00L9

The following volatile samples are associated with a contaminated storage blank. Hits are flagged "J" and non-detects are not flagged.

Methylcyclohexane
E00K9, E00L3

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The following pesticide samples have surrogate percent recoveries

which exceed the upper limit of the criteria window.
Hits are qualified "J" and non-detects are not flagged.

E00J2, E00J2DL, E00J2MS, E00J2MSD, E00J6, E00K3
E00K9, E00L2, E00L2DL, E00L4, E00L4DL, E00L5

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The following semivolatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Hits are qualified "J" and non-detects are not flagged.

E00J2MSD
4-Nitrophenol, Pyrene

The following pesticide matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Hits are qualified "J" and non-detects are qualified "R".

E00J2MS
4,4'-DDT

E00J2MSD
4,4'-DDT

7. FIELD BLANK AND FIELD DUPLICATE

None of the samples are field duplicates or field blanks. Results are not qualified based upon the results of the field blanks or field duplicates.

8. INTERNAL STANDARDS

The following volatile samples have internal standard area counts that are outside the lower limit of primary criteria.
Hits are qualified "J" and non-detects are qualified "UJ".

E00L5
Dichlorodifluoromethane , Chloromethane, Vinyl Chloride, Bromomethane
Chloroethane, Trichlorofluoromethane, 1,1-Dichloroethene , 1,1,2-Trichloro-1,2,2-trifluoroethane
Acetone , Carbon Disulfide, Methyl Acetate, Methylene Chloride
trans-1,2-Dichloroethene, tert-Butyl Methyl Ether , 1,1-Dichloroethane , cis-1,2-Dichloroethene
2-Butanone, Chloroform, 1,1,1-Trichloroethane, Cyclohexane
Carbon Tetrachloride, Benzene, 1,2-Dichloroethane, Trichloroethene
Methylcyclohexane , 1,2-Dichloropropane, Bromodichloromethane, cis-1,3-Dichloropropene

Case Number :29954
Name:Clark (IL)

SDG Number: E00J2
Laboratory: Compuchem

4-Methyl-2-pentanone, Toluene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane
Tetrachloroethene, 2-Hexanone, Dibromochloromethane, 1,2-Dibromoethane
Chlorobenzene, Ethylbenzene, Xylenes (total), Styrene
Bromoform, Isopropylbenzene , 1,1,2,2-Tetrachloroethane, 1,3-Dichlorobenzene
1,4-Dichlorobenzene , 1,2-Dichlorobenzene , 1,2-Dibromo-3-chloropropane , 1,2,4-Trichlorobenzene

E00L5RE
Dichlorodifluoromethane , Chloromethane, Vinyl Chloride, Bromomethane
Chloroethane, Trichlorofluoromethane, 1,1-Dichloroethene , 1,1,2-Trichloro-1,2,2-trifluoroethane
Acetone , Carbon Disulfide, Methyl Acetate, Methylene Chloride
trans-1,2-Dichloroethene, tert-Butyl Methyl Ether , 1,1-Dichloroethane , cis-1,2-Dichloroethene
2-Butanone, Chloroform, 1,1,1-Trichloroethane, Cyclohexane
Carbon Tetrachloride, Benzene, 1,2-Dichloroethane, Trichloroethene
Methylcyclohexane , 1,2-Dichloropropane, Bromodichloromethane, cis-1,3-Dichloropropene
4-Methyl-2-pentanone, Toluene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane
Tetrachloroethene, 2-Hexanone, Dibromochloromethane, 1,2-Dibromoethane
Chlorobenzene, Ethylbenzene, Xylenes (total), Styrene
Bromoform, Isopropylbenzene , 1,1,2,2-Tetrachloroethane, 1,3-Dichlorobenzene
1,4-Dichlorobenzene , 1,2-Dichlorobenzene , 1,2-Dibromo-3-chloropropane , 1,2,4-Trichlorobenzene

The following semivolatile samples have internal standard area counts that are outside the lower limit of primary criteria.
Hits are qualified "J" and non-detects are qualified "UJ".

E00K3
Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene
Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00K3DL
Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene
Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00K9
4,6-Dinitro-2-methylphenol, N-Nitrosodiphenylamine, 4-Bromophenyl-phenylether, Hexachlorobenzene
Atrazine , Pentachlorophenol, Phenanthrene, Anthracene
Carbazole, Di-n-butylphthalate, Fluoranthene, Pyrene
Butylbenzylphthalate, 3,3'-Dichlorobenzidine, Benzo(a)anthracene, Chrysene
bis(2-Ethylhexyl)phthalate, Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene
Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00K9RE

Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00L5
Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00L5RE
Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E00J2
Acetone

E00J2MS
Acetone

E00J6
Acetone , Carbon Disulfide

E00J8
Acetone

E00K1
Carbon Disulfide, Methylene Chloride , Toluene

E00K3
Carbon Disulfide, Methylene Chloride , 2-Butanone, Toluene

E00K4
Acetone

Case Number :29954
Name:Clark (IL)

SDG Number: E00J2
Laboratory: Compuchem

E00K9
Methylcyclohexane

E00L2
Methylene Chloride

E00L3
Methylcyclohexane

E00L5RE
Acetone

E00L6
Acetone

VBLKWG
Cyclohexane , 1,3-Dichlorobenzene , 1,4-Dichlorobenzene , 1,2-Dichlorobenzene
1,2,4-Trichlorobenzene

VBLKXD
Cyclohexane , 1,3-Dichlorobenzene , 1,4-Dichlorobenzene , 1,2-Dichlorobenzene
1,2-Dibromo-3-chloropropane , 1,2,4-Trichlorobenzene

VBLKXE
Cyclohexane , Methylcyclohexane , Toluene, 1,2,4-Trichlorobenzene

VHBLKWG
Cyclohexane , Methylcyclohexane

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E00J2
Benzaldehyde, Acetophenone , 4-Methylphenol, Naphthalene
2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Dibenzofuran
Fluorene, Phenanthrene, Anthracene, Carbazole
Butylbenzylphthalate, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene
Benzo(g,h,i)perylene

E00J2MS
Benzaldehyde, Acetophenone , Naphthalene, 2-Methylnaphthalene
1,1'-Biphenyl , Dibenzofuran, Fluorene, Pentachlorophenol
Carbazole, Butylbenzylphthalate, Dibenz(a,h)anthracene

Case Number :29954
Name:Clark (IL)

SDG Number: E00J2
Laboratory: Compuchem

E00J2MSD
Benzaldehyde, Acetophenone , Naphthalene, 2-Methylnaphthalene
1,1'-Biphenyl , Dibenzofuran, Fluorene, Pentachlorophenol
Carbazole, Butylbenzylphthalate, Dibenz(a,h)anthracene

E00J6
Benzaldehyde, Acetophenone , 4-Methylphenol, Naphthalene
2-Methylnaphthalene, 1,1'-Biphenyl , Acenaphthylene, Acenaphthene
Dibenzofuran, Fluorene, N-Nitrosodiphenylamine, Anthracene
Carbazole, Butylbenzylphthalate, Dibenz(a,h)anthracene

E00J6DL
Benzaldehyde, Acetophenone , 4-Methylphenol, Naphthalene
2-Methylnaphthalene, 1,1'-Biphenyl , Acenaphthylene, Acenaphthene
Dibenzofuran, Fluorene, Anthracene, Carbazole
Butylbenzylphthalate, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00J7
Benzaldehyde, Phenol, Acetophenone , 4-Methylphenol
Naphthalene, 2-Methylnaphthalene, 1,1'-Biphenyl , Acenaphthylene
Acenaphthene, Dibenzofuran, Fluorene, Anthracene
Carbazole, Butylbenzylphthalate, Di-n-octylphthalate, Dibenz(a,h)anthracene

E00J7DL
Benzaldehyde, Acetophenone , 4-Methylphenol, Naphthalene
2-Methylnaphthalene, 1,1'-Biphenyl , Acenaphthylene, Acenaphthene
Dibenzofuran, Fluorene, Anthracene, Carbazole
Butylbenzylphthalate, Di-n-octylphthalate, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene
Benzo(g,h,i)perylene

E00J8
Benzaldehyde, Acetophenone , 4-Methylphenol, Naphthalene
2-Methylnaphthalene, 1,1'-Biphenyl , Acenaphthylene, Acenaphthene
Dibenzofuran, Fluorene, N-Nitrosodiphenylamine, Anthracene
Carbazole, Butylbenzylphthalate, Di-n-octylphthalate, Dibenz(a,h)anthracene

E00J8DL
Benzaldehyde, Acetophenone , 4-Methylphenol, Naphthalene
2-Methylnaphthalene, 1,1'-Biphenyl , Acenaphthylene, Acenaphthene
Dibenzofuran, Fluorene, Phenanthrene, Anthracene
Carbazole, Butylbenzylphthalate, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene
Benzo(g,h,i)perylene

E00J9

Case Number :29954
Name:Clark (IL)

SDG Number: E00J2
Laboratory: Compuchem

Benzaldehyde, Acetophenone , 4-Methylphenol, Naphthalene
2-Methylnaphthalene, 1,1'-Biphenyl , Acenaphthylene, Acenaphthene
Dibenzofuran, Fluorene, N-Nitrosodiphenylamine, Anthracene
Carbazole, Butylbenzylphthalate, Dibenz(a,h)anthracene

E00J9DL
Benzaldehyde, Acetophenone , 4-Methylphenol, 2-Methylnaphthalene
1,1'-Biphenyl , Acenaphthylene, Acenaphthene, Dibenzofuran
Fluorene, Anthracene, Carbazole, Butylbenzylphthalate
Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00K2
Benzaldehyde, Acetophenone , 4-Methylphenol, Naphthalene
2-Methylnaphthalene, 1,1'-Biphenyl , Acenaphthylene, Acenaphthene
Dibenzofuran, Fluorene, Anthracene, Carbazole
Butylbenzylphthalate, Di-n-octylphthalate, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene
Benzo(g,h,i)perylene

E00K3
Benzaldehyde, Acetophenone , 4-Methylphenol, Naphthalene
2-Methylnaphthalene, 1,1'-Biphenyl , Acenaphthylene, Acenaphthene
Dibenzofuran, Fluorene, Carbazole, Di-n-octylphthalate
Dibenz(a,h)anthracene

E00K3DL
Benzaldehyde, Acetophenone , Naphthalene, 2-Methylnaphthalene
1,1'-Biphenyl , Acenaphthylene, Acenaphthene, Dibenzofuran
Fluorene, Anthracene, Carbazole, Di-n-butylphthalate
Butylbenzylphthalate, Di-n-octylphthalate, Dibenz(a,h)anthracene

E00K4
Benzaldehyde, 2-Methylnaphthalene, 1,1'-Biphenyl , Acenaphthene
Dibenzofuran, Fluorene, Phenanthrene, Anthracene
Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene
Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene
Benzo(g,h,i)perylene

E00K9
Fluoranthene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene
Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

E00K9RE
Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene
Benzo(b)fluoranthene, Benzo(a)pyrene

Case Number :29954
Name:Clark (IL)

SDG Number: E00J2
Laboratory: Compuchem

E00L0
Benzaldehyde, Phenanthrene, Anthracene, Carbazole
Fluoranthene, Pyrene, Butylbenzylphthalate, Benzo(a)anthracene
Chrysene, Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene
Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene

E00L1
Benzaldehyde, Acetophenone , Naphthalene, 2-Methylnaphthalene
Acenaphthylene, Dibenzofuran, Phenanthrene, Anthracene
Carbazole, Fluoranthene, Pyrene, Butylbenzylphthalate
Benzo(a)anthracene, Chrysene, Di-n-octylphthalate
Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene
Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00L2
Benzaldehyde, 4-Chloroaniline, 2-Methylnaphthalene, Acenaphthene
Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene
Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene
Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00L3
Benzaldehyde, Acetophenone , 2-Methylnaphthalene, Acenaphthylene
Acenaphthene, Dibenzofuran, Fluorene, Phenanthrene
Anthracene, Carbazole, Butylbenzylphthalate, Benzo(a)anthracene
Chrysene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene
Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00L4
Benzaldehyde, Naphthalene, 4-Chloroaniline, Acenaphthylene
Acenaphthene, Dibenzofuran, Fluorene, Anthracene
Carbazole, Butylbenzylphthalate, Di-n-octylphthalate, Dibenz(a,h)anthracene

E00L5
Benzaldehyde, 4-Methylphenol, 2,4-Dimethylphenol, 2-Methylnaphthalene
Acenaphthylene, Acenaphthene, Dibenzofuran, Fluorene
Phenanthrene, Anthracene, Carbazole, Butylbenzylphthalate
Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene
Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene

E00L5RE
Benzaldehyde, 4-Methylphenol, 2,4-Dimethylphenol, 2-Methylnaphthalene
Acenaphthylene, Fluorene, Phenanthrene, Anthracene
Carbazole, Butylbenzylphthalate, Benzo(a)anthracene, Chrysene
Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene

Case Number :29954 **SDG Number: E00J2**
Name:Clark (IL) **Laboratory: Compuchem**

Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00L6
Benzaldehyde, Acetophenone , 2,4-Dimethylphenol, 2-Methylnaphthalene
Acenaphthylene, Phenanthrene, Anthracene, Carbazole
Di-n-butylphthalate, Fluoranthene, Pyrene, Butylbenzylphthalate
Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene
Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00L7
Benzaldehyde, Phenanthrene, Fluoranthene. Pyrene
Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene
Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene

E00L9
Benzaldehyde, Acetophenone , Acenaphthylene, Acenaphthene
Dibenzofuran, Fluorene, Phenanthrene, Anthracene
Carbazole, Pyrene, Butylbenzylphthalate, Benzo(a)anthracene
Chrysene, Di-n-octylphthalate, Benzo(b)fluoranthene
Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene
Benzo(g,h,i)perylene

SBLKFF
bis(2-Ethylhexyl)phthalate

The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E00J2
Heptachlor epoxide, 4,4'-DDE

E00J2MS
Heptachlor epoxide, 4,4'-DDE

E00J2MSD
4,4'-DDE

E00L2DL
4,4'-DDE

The following pesticide samples have analytes for which the percent difference between column results exceeds primary criteria.
Professional judgement should be used to qualify the data.

Case Number :29954
Name:Clark (IL)

SDG Number: E00J2
Laboratory: Compuchem

E00J2
Heptachlor epoxide, 4,4'-DDE, alpha-Chlordane

E00J2DL
4,4'-DDT, gamma-Chlordane

E00J2MS
Heptachlor, Aldrin, Heptachlor epoxide, 4,4'-DDE
Endrin, 4,4'-DDT, alpha-Chlordane, gamma-Chlordane

E00J2MSD
Aldrin, 4,4'-DDE, Endrin, 4,4'-DDD
4,4'-DDT

E00J6
Dieldrin, 4,4'-DDE, 4,4'-DDD, 4,4'-DDT
alpha-Chlordane, gamma-Chlordane

E00J7
Dieldrin, 4,4'-DDE, Endrin, 4,4'-DDD
alpha-Chlordane, gamma-Chlordane

E00J8
beta-BHC, Dieldrin, 4,4'-DDE, Endrin
alpha-Chlordane, gamma-Chlordane

E00J8DL
gamma-Chlordane

E00J9
4,4'-DDE, alpha-Chlordane, gamma-Chlordane

E00K2
beta-BHC, 4,4'-DDE, 4,4'-DDD, alpha-Chlordane
gamma-Chlordane

E00K3
Heptachlor, 4,4'-DDE, Endrin, 4,4'-DDD
Endosulfan sulfate, alpha-Chlordane, gamma-Chlordane

E00K4
4,4'-DDE

E00K9

alpha-BHC, gamma-BHC (Lindane), Heptachlor epoxide, gamma-Chlordane

E00L2
beta-BHC, gamma-BHC (Lindane), Dieldrin, 4,4'-DDE
Endosulfan sulfate, 4,4'-DDT, gamma-Chlordane

E00L2DL
4,4'-DDE, 4,4'-DDT, gamma-Chlordane

E00L3
4,4'-DDE, gamma-Chlordane

E00L4
Dieldrin, Endrin ketone

E00L4DL
Dieldrin

E00L5
Heptachlor epoxide, Dieldrin, 4,4'-DDE, 4,4'-DDD
4,4'-DDT, alpha-Chlordane, gamma-Chlordane

E00L5DL
Heptachlor epoxide, 4,4'-DDE, 4,4'-DDT, alpha-Chlordane
gamma-Chlordane

E00L6
alpha-Chlordane

E00L9
gamma-Chlordane

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

None.

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The anlayte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Case # 29954 SDG : E00J2
Site CLARK
Lab LIBRTY
Reviewer :
Date

Number of Soil Samples . 16
Number of Water Samples 0

Sample Number :	E00J2		E00J2MS		E00J2MSD		E00J6		E00J7	
Sampling Location .	X204		X204		X204		X201		X215	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/07/2001		11/07/2001		11/07/2001		11/07/2001		11/07/2001	
Time Sampled :	09 00		09 00		09 00		11:30		12 00	
%Moisture :	50		50		50		63		61	
pH :										
Dilution Factor	1.0		1 0		1 0		1 0		1 0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	20	U	20	U	20	U	27	U	26	U
Chloromethane	20	U	20	U	20	U	27	U	26	U
Vinyl Chloride	20	U	20	U	20	U	27	U	26	U
Bromomethane	20	U	20	U	20	U	27	U	26	U
Chloroethane	20	U	20	U	20	U	27	U	26	U
Trichlorofluoromethane	20	U	20	U	20	U	27	U	26	U
1,1-Dichloroethene	20	U	140		140		27	U	26	U
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20	U	20	U	27	U	26	U
Acetone	7	J	11	J	20	UJ	19	J	28	
Carbon Disulfide	20	U	20	U	20	U	19	J	26	U
Methyl Acetate	20	U	20	U	20	U	27	U	26	U
Methylene Chloride	20	U	20	U	20	U	27	U	26	U
trans-1,2-Dichloroethene	20	U	20	U	20	U	27	U	26	UJ
Methyl tert-Butyl Ether	20	UJ	20	UJ	20	UJ	27	UJ	26	UJ
1,1-Dichloroethane	20	UJ	20	UJ	20	UJ	27	UJ	26	UJ
cis-1,2-Dichloroethene	20	U	20	U	20	U	27	U	26	U
2-Butanone	20	UJ	20	UJ	20	UJ	27	UJ	26	U
Chloroform	20	U	20	U	20	U	27	U	26	U
1,1 1-Trichloroethane	20	U	20	U	20	U	27	U	26	U
Cyclohexane	20	U	20	U	20	U	27	U	26	U
Carbon Tetrachloride	20	U	20	U	20	U	27	U	26	U
Benzene	20	U	110		110		27	U	26	U
1,2-Dichloroethane	20	UJ	20	UJ	20	UJ	27	UJ	26	U
Trichloroethene	20	U	110		100		27	U	26	U
Methylcyclohexane	20	U	20	U	20	U	27	U	26	U
1,2-Dichloropropane	20	U	20	U	20	U	27	U	26	U
Bromodichloromethane	20	U	20	U	20	U	27	U	26	U
cis-1,3-Dichloropropene	20	U	20	U	20	U	27	U	26	U
4-Methyl-2-pentanone	20	U	20	U	20	U	27	U	26	U
Toluene	20	U	110		110		27	U	26	U
trans-1,3-Dichloropropene	20	U	20	U	20	U	27	U	26	U
1,1 2-Trichloroethane	20	U	20	U	20	U	27	U	26	U
Tetrachloroethene	20	U	20	U	20	U	27	U	26	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data

Analytical Results (Qualified Data)

Case #: 29954 SDG E00J2
Site : CLARK
Lab. LIBRTY
Reviewer
Date

Sample Number :	E00J2		E00J2MS		E00J2MSD		E00J6		E00J7	
Sampling Location :	X204		X204		X204		X201		X215	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/07/2001		11/07/2001		11/07/2001		11/07/2001		11/07/2001	
Time Sampled :	09.00		09 00		09:00		11:30		12 00	
%Moisture	50		50		50		63		61	
pH										
Dilution Factor :	1 0		1 0		1 0		1 0		1 0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	20	UJ	20	UJ	20	UJ	27	UJ	26	U
Dibromochloromethane	20	U	20	U	20	U	27	U	26	U
1,2-Dibromoethane	20	U	20	U	20	U	27	U	26	U
Chlorobenzene	20	U	100		94		27	U	26	U
Ethylbenzene	20	U	20	U	20	U	27	U	26	U
Xylenes (total)	20	U	20	U	20	U	27	U	26	U
Styrene	20	U	20	U	20	U	27	U	26	U
Bromoform	20	U	20	U	20	U	27	U	26	U
Isopropylbenzene	20	U	20	U	20	U	27	U	26	U
1 1,2,2-Tetrachloroethane	20	U	20	U	20	U	27	U	26	U
1,3-Dichlorobenzene	20	U	20	U	20	U	27	U	26	U
1,4-Dichlorobenzene	20	U	20	U	20	U	27	U	26	U
1,2-Dichlorobenzene	20	U	20	U	20	U	27	U	26	U
1,2-Dibromo-3-chloropropane	20	U	20	U	20	U	27	U	26	U
1,2,4-Trichlorobenzene	20	U	20	U	20	U	27	U	26	U

Analytical Results (Qualified Data)

Case # 29954 SDG : E00J2
Site CLARK
Lab. LIBRTY
Reviewer
Date :

Sample Number	E00J8		E00J9		E00K1		E00K2		E00K3	
Sampling Location	X214		X250		X213		X212		X205	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	11/07/2001		11/07/2001		11/07/2001		11/07/2001		11/07/2001	
Time Sampled	12 15		12 15		12 30		13 00		15 15	
%Moisture	68		65		C		58		46	
pH										
Dilution Factor	1.0		1 0		1 0		1 0		1 0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	31	U	29	U	10	U	24	U	19	U
Chloromethane	31	U	29	U	10	U	24	U	19	U
Vinyl Chloride	31	U	29	U	10	U	24	U	19	U
Bromomethane	31	U	29	U	10	U	24	U	19	U
Chloroethane	31	U	29	U	10	U	24	U	19	U
Trichlorofluoromethane	31	U	29	U	10	U	24	U	19	U
1,1-Dichloroethene	31	U	29	U	10	U	24	U	19	U
1,1,2-Trichloro-1,2,2-trifluoroethane	31	U	29	U	10	U	24	U	19	U
Acetone	14	J	29	UJ	10	UJ	24	UJ	56	J
Carbon Disulfide	31	U	29	U	4	J	24	U	4	J
Methyl Acetate	31	U	29	U	10	U	24	U	19	U
Methylene Chloride	31	U	29	U	2	J	24	U	4	J
trans-1,2-Dichloroethene	31	U	29	U	10	U	24	U	19	U
Methyl tert-Butyl Ether	31	UJ	29	UJ	10	UJ	24	UJ	19	UJ
1,1-Dichloroethane	31	UJ	29	UJ	10	UJ	24	UJ	19	UJ
cis-1,2-Dichloroethene	31	U	29	U	10	U	24	U	19	U
2-Butanone	31	UJ	29	UJ	10	UJ	24	UJ	18	J
Chloroform	31	U	29	U	10	U	24	U	19	U
1,1,1-Trichloroethane	31	U	29	U	10	U	24	U	19	U
Cyclohexane	31	U	29	U	10	U	24	U	19	U
Carbon Tetrachloride	31	U	29	U	10	U	24	U	19	U
Benzene	31	U	29	U	10	U	24	U	19	U
1,2-Dichloroethane	31	UJ	29	UJ	10	UJ	24	UJ	19	UJ
Trichloroethene	31	U	29	U	10	U	24	U	19	U
Methylcyclohexane	31	U	29	U	10	U	24	U	19	U
1,2-Dichloropropane	31	U	29	U	10	U	24	U	19	U
Bromodichloromethane	31	U	29	U	10	U	24	U	19	U
cis-1,3-Dichloropropene	31	U	29	U	10	U	24	U	19	U
4-Methyl-2-pentanone	31	U	29	U	10	U	24	U	19	U
Toluene	31	U	29	U	1	J	24	U	5	J
trans-1,3-Dichloropropene	31	U	29	U	10	U	24	U	19	U
1,1,2-Trichloroethane	31	U	29	U	10	U	24	U	19	U
Tetrachloroethene	31	U	29	U	10	U	24	U	19	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J2
Site CLARK
Lab LIBRTY
Reviewer
Date

Sample Number :	E00J8		E00J9		E00K1		E00K2		E00K3	
Sampling Location	X214		X250		X213		X212		X205	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	11/07/2001		11/07/2001		11/07/2001		11/07/2001		11/07/2001	
Time Sampled	12:15		12 15		12 30		13.00		15 15	
%Moisture	68		65		0		58		46	
pH										
Dilution Factor	1.0		1 0		1 0		1 0		1 0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	31	UJ	29	UJ	10	UJ	24	UJ	19	UJ
Dibromochloromethane	31	U	29	U	10	U	24	U	19	U
1,2-Dibromoethane	31	U	29	U	10	U	24	U	19	U
Chlorobenzene	31	U	29	U	35		24	U	19	U
Ethylbenzene	31	U	29	U	10	U	24	U	19	U
Xylenes (total)	31	U	29	U	10	U	24	U	19	U
Styrene	31	U	29	U	10	U	24	U	19	U
Bromoform	31	U	29	U	10	U	24	U	19	U
Isopropylbenzene	31	U	29	U	10	U	24	U	19	U
1,1,2,2-Tetrachloroethane	31	U	29	U	10	U	24	U	19	U
1,3-Dichlorobenzene	31	U	29	U	10	U	24	U	19	U
1,4-Dichlorobenzene	31	U	29	U	31		24	U	19	U
1,2-Dichlorobenzene	31	U	29	U	10	U	24	U	19	U
1,2-Dibromo-3-chloropropane	31	U	29	U	10	U	24	U	19	U
1,2,4-Trichlorobenzene	31	U	29	U	10	U	24	U	19	U

Analytical Results (Qualified Data)

Case # 29954 SDG E00J2
Site CLARK
Lab LIBRTY
Reviewer :
Date

Sample Number	E00K4		E00K9		E00L2		E00L3		E00L4	
Sampling Location	X203		X206		X207		X209		X208	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/07/2001		11/07/2001		11/08/2001		11/08/2001		11/08/2001	
Time Sampled	15 45		16 15		08 45		10.05		09:45	
%Moisture :	21		40		45		67		52	
pH										
Dilution Factor	1 0		1 0		1 0		1 0		1 0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	13	U	24	U	18	U	30	U	21	U
Chloromethane	13	U	24	U	18	U	30	U	21	U
Vinyl Chloride	13	U	24	U	18	U	30	U	21	U
Bromomethane	13	U	24	U	18	U	30	U	21	U
Chloroethane	13	U	24	U	18	U	30	U	21	U
Trichlorofluoromethane	13	U	24	U	18	U	30	U	21	U
1,1-Dichloroethene	13	U	24	U	18	U	30	U	21	U
1,1,2-Trichloro-1,2,2-trifluoroethane	13	U	24	U	18	U	30	U	21	U
Acetone	10	J	34		18	U	33		21	U
Carbon Disulfide	13	U	24	U	18	U	30	U	21	U
Methyl Acetate	13	U	24	U	18	U	30	U	21	U
Methylene Chloride	13	U	24	U	2	J	30	U	21	U
trans-1,2-Dichloroethene	13	U	24	UJ	18	UJ	30	UJ	21	UJ
Methyl tert-Butyl Ether	13	UJ	24	UJ	18	UJ	30	UJ	21	UJ
1,1-Dichloroethane	13	UJ	24	UJ	18	UJ	30	UJ	21	UJ
cis-1,2-Dichloroethene	13	U	24	U	18	U	30	U	21	U
2-Butanone	13	UJ	24	U	18	U	30	U	21	U
Chloroform	13	U	24	U	18	U	30	U	21	U
1,1,1-Trichloroethane	13	U	24	U	18	U	30	U	21	U
Cyclohexane	13	U	24	U	18	U	30	U	21	U
Carbon Tetrachloride	13	U	24	U	18	U	30	U	21	U
Benzene	13	U	24	U	18	U	30	U	21	U
1,2-Dichloroethane	13	UJ	24	U	18	U	30	U	21	U
Trichloroethene	13	U	24	U	18	U	30	U	21	U
Methylcyclohexane	13	U	9	J	18	U	3	J	21	U
1,2-Dichloropropane	13	U	24	U	18	U	30	U	21	U
Bromodichloromethane	13	U	24	U	18	U	30	U	21	U
cis-1,3-Dichloropropene	13	U	24	U	18	U	30	U	21	U
4-Methyl-2-pentanone	13	U	24	U	18	U	30	U	21	U
Toluene	13	U	24	U	18	U	30	U	21	U
trans-1,3-Dichloropropene	13	U	24	U	18	U	30	U	21	U
1,1,2-Trichloroethane	13	U	24	U	18	U	30	U	21	U
Tetrachloroethene	13	U	24	U	18	U	30	U	21	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user Region 5 assumes no responsibility for use of unvalidated data

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J2
Site CLARK
Lab. LIBRTY
Reviewer
Date

Sample Number	E00K4		E00K9		E00L2		E00L3		E00L4	
Sampling Location	X203		X206		X207		X209		X208	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	11/07/2001		11/07/2001		11/08/2001		11/08/2001		11/08/2001	
Time Sampled	15:45		16 15		08 45		10:05		09 45	
%Moisture	21		40		45		67		52	
pH										
Dilution Factor	1.0		1 0		1 0		1 0		1 0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	13	UJ	24	U	18	U	30	U	21	U
Dibromochloromethane	13	U	24	U	18	U	30	U	21	U
1,2-Dibromoethane	13	U	24	U	18	U	30	U	21	U
Chlorobenzene	13	U	24	U	18	U	30	U	21	U
Ethylbenzene	13	U	24	U	18	U	30	U	21	U
Xylenes (total)	13	U	24	U	18	U	30	U	21	U
Styrene	13	U	24	U	18	U	30	U	21	U
Bromoform	13	U	24	U	18	U	30	U	21	U
Isopropylbenzene	13	U	24	U	18	U	30	U	21	U
1,1 2,2-Tetrachloroethane	13	U	24	U	18	U	30	U	21	U
1,3-Dichlorobenzene	13	U	24	U	18	U	30	U	21	U
1,4-Dichlorobenzene	13	U	24	U	18	U	30	U	21	U
1,2-Dichlorobenzene	13	U	24	U	18	U	30	U	21	U
1,2-Dibromo-3-chloropropane	13	U	24	U	18	U	30	U	21	U
1,2,4-Trichlorobenzene	13	U	24	U	18	U	30	U	21	U

Analytical Results (Qualified Data)

Case # 29954 SDG E00J2
Site CLARK
Lab. LIBRTY
Reviewer
Date

Sample Number	E00L5		E00L5RE		E00L6		E00L9		VBLKWG	
Sampling Location	X211		X211		X210		X202			
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	11/08/2001		11/08/2001		11/08/2001		11/08/2001			
Time Sampled	11 10		11 10		10 40		13 20			
% Moisture	30		30		41		29		N/A	
pH										
Dilution Factor	1.0		1 0		1 0		1 0		1 0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	14	UJ	14	UJ	17	U	14	U	10	U
Chloromethane	14	UJ	14	UJ	17	U	14	U	10	U
Vinyl Chloride	14	UJ	14	UJ	17	U	14	U	10	U
Bromomethane	14	UJ	14	UJ	17	U	14	U	10	U
Chloroethane	14	UJ	14	UJ	17	U	14	U	10	U
Trichlorofluoromethane	14	UJ	14	UJ	17	U	14	U	10	U
1,1-Dichloroethene	14	UJ	14	UJ	17	U	14	U	10	U
1,1,2-Trichloro-1,2,2-trifluoroethane	14	UJ	14	UJ	17	U	14	U	10	U
Acetone	21	J	12	J	13	J	14	UJ	10	UJ
Carbon Disulfide	14	UJ	14	UJ	17	U	14	U	10	U
Methyl Acetate	14	UJ	14	UJ	17	U	14	U	10	U
Methylene Chloride	14	UJ	14	UJ	17	U	14	U	10	U
trans-1,2-Dichloroethene	14	UJ	14	UJ	17	UJ	14	U	10	U
Methyl tert-Butyl Ether	14	UJ	14	UJ	17	UJ	14	UJ	10	UJ
1,1-Dichloroethane	14	UJ	14	UJ	17	UJ	14	U	10	UJ
cis-1,2-Dichloroethene	14	UJ	14	UJ	17	U	14	U	10	U
2-Butanone	14	UJ	14	UJ	17	U	14	UJ	10	UJ
Chloroform	14	UJ	14	UJ	17	U	14	U	10	U
1,1,1-Trichloroethane	14	UJ	14	UJ	17	U	14	U	10	U
Cyclohexane	14	UJ	14	U	17	U	14	U	5	J
Carbon Tetrachloride	14	UJ	14	UJ	17	U	14	U	10	U
Benzene	14	UJ	14	UJ	17	U	14	U	10	U
1,2-Dichloroethane	14	UJ	14	UJ	17	U	14	UJ	10	UJ
Trichloroethene	14	UJ	14	UJ	17	U	14	U	10	U
Methylcyclohexane	14	UJ	14	UJ	17	U	14	U	10	U
1,2-Dichloropropane	14	UJ	14	UJ	17	U	14	U	10	U
Bromodichloromethane	14	UJ	14	UJ	17	U	14	U	10	U
cis-1,3-Dichloropropene	14	UJ	14	UJ	17	U	14	U	10	U
4-Methyl-2-pentanone	14	UJ	14	UJ	17	U	14	U	10	U
Toluene	14	UJ	14	UJ	17	U	14	U	10	U
trans-1,3-Dichloropropene	14	UJ	14	UJ	17	U	14	U	10	U
1,1,2-Trichloroethane	14	UJ	14	UJ	17	U	14	U	10	U
Tetrachloroethene	14	UJ	14	UJ	17	U	14	U	10	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case # 29954 SDG . E00J2
Site CLARK
Lab . LIBRTY
Reviewer
Date

Sample Number :	E00L5		E00L5RE		E00L6		E00L9		VBLKWG	
Sampling Location	X211		X211		X210		X202			
Matrix	Soil		Soil		Soil		Soil		Soil	
Units .	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/08/2001		11/08/2001		11/08/2001		11/08/2001			
Time Sampled :	11 10		11 10		10 40		13 20			
%Moisture	30		30		41		29		N/A	
pH										
Dilution Factor :	1 0		1 0		1 0		1 0		1 0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	14	UJ	14	UJ	17	U	14	UJ	10	UJ
Dibromochloromethane	14	UJ	14	UJ	17	U	14	U	10	U
1,2-Dibromoethane	14	UJ	14	UJ	17	U	14	U	10	U
Chlorobenzene	14	UJ	14	UJ	17	U	14	U	10	U
Ethylbenzene	14	UJ	14	UJ	17	U	14	U	10	U
Xylenes (total)	14	UJ	14	UJ	17	U	14	U	10	U
Styrene	14	UJ	14	UJ	17	U	14	U	10	U
Bromoform	14	UJ	14	UJ	17	U	14	U	10	U
Isopropylbenzene	14	UJ	14	UJ	17	U	14	U	10	U
1 1,2,2-Tetrachloroethane	14	UJ	14	UJ	17	U	14	U	10	U
1,3-Dichlorobenzene	14	UJ	14	UJ	17	U	14	U	1	J
1,4-Dichlorobenzene	14	UJ	14	UJ	17	U	14	U	1	J
1,2-Dichlorobenzene	14	UJ	14	UJ	17	U	14	U	1	J
1 2-Dibromo-3-chloropropane	14	UJ	14	UJ	17	U	14	U	10	U
1,2,4-Trichlorobenzene	14	UJ	14	UJ	17	U	14	U	3	J

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J2
Site : CLARK
Lab : LIBRTY
Reviewer :
Date

Sample Number :	VBLKXD		VBLKXE		VHBLKWG					
Sampling Location :										
Matrix	Soil		Soil		Soil					
Units :	ug/Kg		ug/Kg		ug/Kg					
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		0					
pH :										
Dilution Factor :	1.0		1.0		1.0					
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10	U	10	U	10	U				
Chloromethane	10	U	10	U	10	U				
Vinyl Chloride	10	U	10	U	10	U				
Bromomethane	10	U	10	U	10	U				
Chloroethane	10	U	10	U	10	U				
Trichlorofluoromethane	10	U	10	U	10	U				
1,1-Dichloroethene	10	U	10	U	10	U				
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10	U	10	U				
Acetone	10	U	10	UJ	10	UJ				
Carbon Disulfide	10	U	10	U	10	U				
Methyl Acetate	10	U	10	U	10	U				
Methylene Chloride	10	U	10	U	10	U				
trans-1,2-Dichloroethene	10	UJ	10	U	10	U				
Methyl tert-Butyl Ether	10	UJ	10	UJ	10	UJ				
1,1-Dichloroethane	10	UJ	10	U	10	U				
cis-1,2-Dichloroethene	10	U	10	U	10	U				
2-Butanone	10	U	10	UJ	10	UJ				
Chloroform	10	U	10	U	10	U				
1,1,1-Trichloroethane	10	U	10	U	10	U				
Cyclohexane	4	J	8	J	6	J				
Carbon Tetrachloride	10	U	10	U	10	U				
Benzene	10	U	10	U	10	U				
1,2-Dichloroethane	10	U	10	UJ	10	UJ				
Trichloroethene	10	U	10	U	10	U				
Methylcyclohexane	10	U	2	J	1	J				
1,2-Dichloropropane	10	U	10	U	10	U				
Bromodichloromethane	10	U	10	U	10	U				
cis-1,3-Dichloropropene	10	U	10	U	10	U				
4-Methyl-2-pentanone	10	U	10	U	10	U				
Toluene	10	U	2	J	10	U				
trans-1,3-Dichloropropene	10	U	10	U	10	U				
1,1,2-Trichloroethane	10	U	10	U	10	U				
Tetrachloroethene	10	U	10	U	10	U				

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J2
Site CLARK
Lab LIBRTY
Reviewer
Date :

Sample Number	VBLKXD		VBLKXE		VHBLKWG					
Sampling Location :										
Matrix :	Soil		Soil		Soil					
Units	ug/Kg		ug/Kg		ug/Kg					
Date Sampled :										
Time Sampled :										
%Moisture	N/A		N/A		0					
pH										
Dilution Factor	1.0		1.0		1.0					
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10	U	10	UJ	10	UJ				
Dibromochloromethane	10	U	10	U	10	U				
1,2-Dibromoethane	10	U	10	U	10	U				
Chlorobenzene	10	U	10	U	10	U				
Ethylbenzene	10	U	10	U	10	U				
Xylenes (total)	10	U	10	U	10	U				
Styrene	10	U	10	U	10	U				
Bromoform	10	U	10	U	10	U				
Isopropylbenzene	10	U	10	U	10	U				
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U				
1,3-Dichlorobenzene	1	J	10	U	10	U				
1,4-Dichlorobenzene	1	J	10	U	10	U				
1,2-Dichlorobenzene	1	J	10	U	10	U				
1,2-Dibromo-3-chloropropane	1	J	10	U	10	U				
1,2,4-Trichlorobenzene	3	J	2	J	10	U				

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J2
Site CLARK
Lab LIBRTY
Reviewer
Date :

Number of Soil Samples 18
Number of Water Samples 0

Sample Number	E00J2		E00J2MS		E00J2MSD		E00J6		E00J6DL	
Sampling Location	X204		X204		X204		X201		X201	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	11/07/2001		11/07/2001		11/07/2001		11/07/2001		11/07/2001	
Time Sampled	09:00		09 00		09 00		11 30		11 30	
%Moisture	50		50		50		63		63	
pH	7 8		7 8		7 8		7 4		7 4	
Dilution Factor	1 0		1 0		1 0		1 0		2 0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	26	J	71	J	46	J	130	J	140	J
Phenol	660	U	3300		3700		890	U	1800	U
bis-(2-Chloroethyl) ether	660	U	660	U	660	U	890	U	1800	U
2-Chlorophenol	660	U	3500		3900		890	U	1800	U
2-Methylphenol	660	U	660	U	660	U	890	U	1800	U
2,2'-oxybis(1-Chloropropane)	660	U	660	U	660	U	890	U	1800	U
Acetophenone	22	J	45	J	34	J	94	J	100	J
4-Methylphenol	37	J	660	U	660	U	150	J	170	J
N-Nitroso-di-n-propylamine	660	U	2500		2900		890	U	1800	U
Hexachloroethane	660	U	660	U	660	U	890	U	1800	U
Nitrobenzene	660	U	660	U	660	U	890	U	1800	U
Isophorone	660	U	660	U	660	U	890	U	1800	U
2-Nitrophenol	660	U	660	U	660	U	890	U	1800	U
2,4-Dimethylphenol	660	U	660	U	660	U	890	U	1800	U
bis(2-Chloroethoxy)methane	660	U	660	U	660	U	890	U	1800	U
2,4-Dichlorophenol	660	U	660	U	660	U	890	U	1800	U
Naphthalene	54	J	240	J	170	J	170	J	180	J
4-Chloroaniline	660	U	660	U	660	U	890	U	1800	U
Hexachlorobutadiene	660	U	660	U	660	U	890	U	1800	U
Caprolactam	660	U	660	U	660	U	890	U	1800	U
4-Chloro-3-methylphenol	660	U	3600		4000		890	U	1800	U
2-Methylnaphthalene	35	J	140	J	91	J	170	J	180	J
Hexachlorocyclopentadiene	660	UJ	660	UJ	660	UJ	890	UJ	1800	UJ
2,4,6-Trichlorophenol	660	U	660	U	660	U	890	U	1800	U
2,4,5-Trichlorophenol	1700	U	1700	U	1700	U	2200	U	4500	U
1,1'-Biphenyl	660	U	33	J	40	J	50	J	53	J
2-Chloronaphthalene	660	U	660	U	660	U	890	U	1800	U
2-Nitroaniline	1700	U	1700	U	1700	U	2200	U	4500	U
Dimethylphthalate	660	U	660	U	660	U	890	U	1800	U
2 6-Dinitrotoluene	660	U	660	U	660	U	890	U	1800	U
Acenaphthylene	650	J	1100		790		280	J	300	J
3-Nitroaniline	1700	U	1700	U	1700	U	2200	U	4500	U
Acenaphthene	76	J	2900		3300		240	J	260	J

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case # 29954 SDG E00J2
Site CLARK
Lab LIBRTY
Reviewer
Date

Sample Number :	E00J2		E00J2MS		E00J2MSD		E00J6		E00J6DL	
Sampling Location :	X204		X204		X204		X201		X201	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	11/07/2001		11/07/2001		11/07/2001		11/07/2001		11/07/2001	
Time Sampled :	09 00		09 00		09 00		11 30		11 30	
%Moisture	50		50		50		63		63	
pH	7.8		7 8		7 8		7 4		7 4	
Dilution Factor :	1.0		1 0		1 0		1 0		2 0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2 4-Dinitrophenol	1700	UJ	1700	UJ	1700	UJ	2200	UJ	4500	UJ
4-Nitrophenol	1700	UJ	5200	J	6000	J	2200	UJ	4500	UJ
Dibenzofuran	38	J	120	J	100	J	190	J	190	J
2 4-Dinitrotoluene	660	U	2400		2700		890	U	1800	U
Diethylphthalate	660	U	660	U	660	U	890	U	1800	U
Fluorene	100	J	390	J	360	J	360	J	380	J
4-Chlorophenyl-phenyl ether	660	U	660	U	660	U	890	U	1800	U
4-Nitroaniline	1700	U	1700	U	1700	U	2200	U	4500	U
4,6-Dinitro-2-methylphenol	1700	U	1700	U	1700	U	2200	U	4500	U
N-Nitrosodiphenylamine	660	U	660	U	660	U	430	J	1800	U
4-Bromophenyl-phenylether	660	U	660	U	660	U	890	U	1800	U
Hexachlorobenzene	660	U	660	U	660	U	890	U	1800	U
Atrazine	660	UJ	660	UJ	660	UJ	890	UJ	1800	UJ
Pentachlorophenol	1700	U	1200	J	1400	J	2200	U	4500	U
Phenanthrene	630	J	2000		2300		2800		2900	
Anthracene	380	J	700		820		690	J	770	J
Carbazole	43	J	190	J	170	J	460	J	510	J
Di-n-butylphthalate	660	U	660	U	660	U	890	U	1800	U
Fluoranthene	1500		3600		4500		5600		6400	
Pyrene	1800	J	6300		6900		5800		5600	
Butylbenzylphthalate	18	J	21	J	27	J	280	J	290	J
3,3'-Dichlorobenzidine	660	U	660	U	660	U	890	U	1800	U
Benzo(a)anthracene	1200		2600		2800		3300		3200	
Chrysene	1500		2700		2800		3200		3600	
bis(2-Ethylhexyl)phthalate	660	U	660	U	1600	U	9600		11000	
Di-n-octylphthalate	660	U	660	U	660	U	2200		2600	
Benzo(b)fluoranthene	1200		2900		3200		5300		5500	
Benzo(k)fluoranthene	1100		1500		1900		2200		2600	
Benzo(a)pyrene	1400		2700		2700		3000		3500	
Indeno(1,2,3-cd)pyrene	560	J	960		960		1500		1500	J
Dibenzo(a,h)anthracene	230	J	410	J	410	J	510	J	440	J
Benzo(g,h,i)perylene	540	J	840		880		1300		1300	J

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J2
Site CLARK
Lab LIBRTY
Reviewer :
Date

Sample Number	E00J7		E00J7DL		E00J8		E00J8DL		E00J9	
Sampling Location :	X215		X215		X214		X214		X250	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	11/07/2001		11/07/2001		11/07/2001		11/07/2001		11/07/2001	
Time Sampled :	12:00		12 00		12 15		12 15		12 15	
%Moisture	61		61		68		68		65	
pH	7 4		7 4		7 3		7 3		7 0	
Dilution Factor :	1 0		2 0		1 0		2 0		1 0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	130	J	130	J	130	J	130	J	120	J
Phenol	35	J	1700	U	1000	U	2100	U	940	U
bis-(2-Chloroethyl) ether	850	U	1700	U	1000	U	2100	U	940	U
2-Chlorophenol	850	U	1700	U	1000	U	2100	U	940	U
2-Methylphenol	850	U	1700	U	1000	U	2100	U	940	U
2,2'-oxybis(1-Chloropropane)	850	U	1700	U	1000	U	2100	U	940	U
Acetophenone	74	J	94	J	80	J	88	J	69	J
4-Methylphenol	120	J	160	J	150	J	190	J	220	J
N-Nitroso-di-n-propylamine	850	U	1700	U	1000	U	2100	U	940	U
Hexachloroethane	850	U	1700	U	1000	U	2100	U	940	U
Nitrobenzene	850	U	1700	U	1000	U	2100	U	940	U
Isophorone	850	U	1700	U	1000	U	2100	U	940	U
2-Nitrophenol	850	U	1700	U	1000	U	2100	U	940	U
2,4-Dimethylphenol	850	U	1700	U	1000	U	2100	U	940	U
bis(2-Chloroethoxy)methane	850	U	1700	U	1000	U	2100	U	940	U
2,4-Dichlorophenol	850	U	1700	U	1000	U	2100	U	940	U
Naphthalene	180	J	220	J	160	J	180	J	220	J
4-Chloroaniline	850	U	1700	U	1000	U	2100	U	940	U
Hexachlorobutadiene	850	U	1700	U	1000	U	2100	U	940	U
Caprolactam	850	U	1700	U	1000	U	2100	U	940	U
4-Chloro-3-methylphenol	850	U	1700	U	1000	U	2100	U	940	U
2-Methylnaphthalene	210	J	220	J	190	J	210	J	220	J
Hexachlorocyclopentadiene	850	UJ	1700	UJ	1000	UJ	2100	UJ	940	UJ
2,4,6-Trichlorophenol	850	U	1700	U	1000	U	2100	U	940	U
2,4,5-Trichlorophenol	2100	U	4300	U	2600	U	5200	U	2400	U
1,1'-Biphenyl	56	J	60	J	50	J	59	J	59	J
2-Chloronaphthalene	850	U	1700	U	1000	U	2100	U	940	U
2-Nitroaniline	2100	U	4300	U	2600	U	5200	U	2400	U
Dimethylphthalate	850	U	1700	U	1000	U	2100	U	940	U
2,6-Dinitrotoluene	850	U	1700	U	1000	U	2100	U	940	U
Acenaphthylene	290	J	350	J	270	J	310	J	260	J
3-Nitroaniline	2100	U	4300	U	2600	U	5200	U	2400	U
Acenaphthene	260	J	290	J	200	J	220	J	270	J

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data

Analytical Results (Qualified Data)

Case # 29954 SDG E00J2
Site CLARK
Lab LIBRTY
Reviewer
Date

Sample Number	E00J7		E00J7DL		E00J8		E00J8DL		E00J9	
Sampling Location	X215		X215		X214		X214		X250	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	11/07/2001		11/07/2001		11/07/2001		11/07/2001		11/07/2001	
Time Sampled	12.00		12.00		12 15		12 15		12 15	
%Moisture	61		61		68		68		65	
pH	7 4		7 4		7 3		7 3		7 0	
Dilution Factor	1 0		2 0		1 0		2 0		1 0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	2100	UJ	4300	UJ	2600	UJ	5200	UJ	2400	UJ
4-Nitrophenol	2100	UJ	4300	UJ	2600	UJ	5200	UJ	2400	UJ
Dibenzofuran	150	J	180	J	140	J	170	J	160	J
2,4-Dinitrotoluene	850	U	1700	U	1000	U	2100	U	940	U
Diethylphthalate	850	U	1700	U	1000	U	2100	U	940	U
Flucrene	320	J	370	J	270	J	300	J	310	J
4-Chlorophenyl-phenyl ether	850	U	1700	U	1000	U	2100	U	940	U
4-Nitroaniline	2100	U	4300	U	2600	U	5200	U	2400	U
4,6-Dinitro-2-methylphenol	2100	U	4300	U	2600	U	5200	U	2400	U
N-Nitrosodiphenylamine	850	U	1700	U	450	J	2100	U	420	J
4-Bromophenyl-phenylether	850	U	1700	U	1000	U	2100	U	940	U
Hexachlorobenzene	850	U	1700	U	1000	U	2100	U	940	U
Atrazine	850	UJ	1700	UJ	1000	UJ	2100	UJ	940	UJ
Pentachlorophenol	2100	U	4300	U	2600	U	5200	U	2400	U
Phenanthrene	2100		2300		1800		2100	J	2200	
Anthracene	580	J	690	J	540	J	620	J	660	J
Carbazole	340	J	410	J	340	J	400	J	360	J
Di-n-butylphthalate	850	U	1700	U	1000	U	2100	U	940	U
Flucranthene	4600		5500		4000		4900		4500	
Pyrene	5400		5500		4800		4700		5600	
Butylbenzylphthalate	140	J	150	J	160	J	170	J	140	J
3,3'-Dichlorobenzidine	850	U	1700	U	1000	U	2100	U	940	U
Benzo(a)anthracene	2800		2900		2600		2500		3000	
Chrysene	2900		3500		2500		3200		2700	
bis(2-Ethylhexyl)phthalate	9700		11000		10000		12000		9800	
Di-n-octylphthalate	160	J	220	J	810	J	2100	U	940	U
Benzo(b)fluoranthene	5000		4400		4200		4700		4800	
Benzo(k)fluoranthene	1900		3300		2200		2500		2200	
Benzo(a)pyrene	2600		3200		2500		2800		2700	
Indeno(1,2,3-cd)pyrene	1300		1400	J	1200		1300	J	1300	
Dibenzo(a,h)anthracene	400	J	430	J	350	J	400	J	410	J
Benzo(g,h,i)perylene	1200		1200	J	1100		1200	J	1200	

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J2
Site CLARK
Lab. LIBRTY
Reviewer :
Date :

Sample Number	E00J9DL		E00K2		E00K3		E00K3DL		E00K4	
Sampling Location	X250		X212		X205		X205		X203	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	11/07/2001		11/07/2001		11/07/2001		11/07/2001		11/07/2001	
Time Sampled	12:15		13 00		15 15		15 15		15 45	
%Moisture :	65		58		46		46		21	
pH	7 0		7 1		7 9		7 9		7 7	
Dilution Factor	2.0		2 0		1 0		3 0		1 0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	120	J	74	J	80	J	87	J	22	J
Phenol	1900	U	1600	U	610	U	1800	U	420	U
bis-(2-Chloroethyl) ether	1900	U	1600	U	610	U	1800	U	420	U
2-Chlorophenol	1900	U	1600	U	610	U	1800	U	420	U
2-Methylphenol	1900	U	1600	U	610	U	1800	U	420	U
2,2'-oxybis(1-Chloropropane)	1900	U	1600	U	610	U	1800	U	420	U
Acetophenone	69	J	56	J	42	J	66	J	420	U
4-Methylphenol	240	J	160	J	25	J	1800	U	420	U
N-Nitroso-di-n-propylamine	1900	U	1600	U	610	U	1800	U	420	U
Hexachloroethane	1900	U	1600	U	610	U	1800	U	420	U
Nitrobenzene	1900	U	1600	U	610	U	1800	U	420	U
Isophorone	1900	U	1600	U	610	U	1800	U	420	U
2-Nitrophenol	1900	U	1600	U	610	U	1800	U	420	U
2,4-Dimethylphenol	1900	U	1600	U	610	U	1800	U	420	U
bis(2-Chloroethoxy)methane	1900	U	1600	U	610	U	1800	U	420	U
2,4-Dichlorophenol	1900	U	1600	U	610	U	1800	U	420	U
Naphthalene	1900	U	260	J	220	J	260	J	420	U
4-Chloroaniline	1900	U	1600	U	610	U	1800	U	420	U
Hexachlorobutadiene	1900	U	1600	U	610	U	1800	U	420	U
Caprolactam	1900	U	1600	U	610	U	1800	U	420	U
4-Chloro-3-methylphenol	1900	U	1600	U	610	U	1800	U	420	U
2-Methylnaphthalene	230	J	250	J	190	J	250	J	48	J
Hexachlorocyclopentadiene	1900	UJ	1600	UJ	610	UJ	1800	UJ	420	UJ
2,4,6-Trichlorophenol	1900	U	1600	U	610	U	1800	U	420	U
2,4,5-Trichlorophenol	4700	U	4000	U	1500	U	4600	U	1100	U
1,1'-Biphenyl	64	J	60	J	44	J	68	J	21	J
2-Chloronaphthalene	1900	U	1600	U	610	U	1800	U	420	U
2-Nitroaniline	4700	U	4000	U	1500	U	4600	U	1100	U
Dimethylphthalate	1900	U	1600	U	610	U	1800	U	420	U
2,6-Dinitrotoluene	1900	U	1600	U	610	U	1800	U	420	U
Acenaphthylene	290	J	220	J	120	J	170	J	420	U
3-Nitroaniline	4700	U	4000	U	1500	U	4600	U	1100	U
Acenaphthene	290	J	470	J	490	J	640	J	25	J

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case # 29954 SDG E00J2
Site CLARK
Lab LIBRTY
Reviewer
Date

Sample Number	E00J9DL		E00K2		E00K3		E00K3DL		E00K4	
Sampling Location	X250		X212		X205		X205		X203	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	11/07/2001		11/07/2001		11/07/2001		11/07/2001		11/07/2001	
Time Sampled	12 15		13 00		15 15		15 15		15 45	
%Moisture	65		58		46		46		21	
pH	7.0		7 1		7 9		7 9		7 7	
Dilution Factor	2 0		2 0		1 0		3 0		1 0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2 4-Dinitrophenol	4700	UJ	4000	UJ	1500	UJ	4600	UJ	1100	UJ
4-Nitrophenol	4700	UJ	4000	U	1500	UJ	4600	U	1100	UJ
Dibenzofuran	160	J	140	J	240	J	300	J	37	J
2,4-Dinitrotoluene	1900	U	1600	U	610	U	1800	U	420	U
Diethylphthalate	1900	U	1600	U	610	U	1800	U	420	U
Fluorene	320	J	350	J	410	J	470	J	38	J
4-Chlorophenyl-phenyl ether	1900	U	1600	U	610	U	1800	U	420	U
4-Nitroaniline	4700	U	4000	U	1500	U	4600	U	1100	U
4,6-Dinitro-2-methylphenol	4700	U	4000	U	1500	U	4600	U	1100	U
N-Nitrosodiphenylamine	1900	U	1600	U	610	U	1800	U	420	U
4-Bromophenyl-phenylether	1900	U	1600	U	610	U	1800	U	420	U
Hexachlorobenzene	1900	U	1600	U	610	U	1800	U	420	U
Atrazine	1900	UJ	1600	UJ	610	UJ	1800	UJ	420	UJ
Pentachlorophenol	4700	U	4000	U	1500	U	4600	U	1100	U
Phenanthrene	2200		2100		4100		5300		140	J
Anthracene	690	J	560	J	1100		1400	J	21	J
Carbazole	390	J	310	J	520	J	620	J	420	U
Di-n-butylphthalate	1900	U	1600	U	610	U	96	J	420	U
Fluoranthene	5300		4200		6200		9800		150	J
Pyrene	4700		4900		8500		10000		160	J
Butylbenzylphthalate	120	J	52	J	910		1100	J	420	U
3,3'-Dichlorobenzidine	1900	U	1600	U	610	U	1800	U	420	U
Benzo(a)anthracene	2600		2200		3700		3300		56	J
Chrysene	3200		2400		3200		4300		110	J
bis(2-Ethylhexyl)phthalate	9400		8200		4600		5800		440	U
Di-n-octylphthalate	1900	U	300	J	360	J	410	J	420	U
Benzo(b)fluoranthene	4400		2800		4500	J	4500	J	110	J
Benzo(k)fluoranthene	2500		2000		3000	J	4000	J	51	J
Benzo(a)pyrene	2800		1900		3400	J	4000	J	60	J
Indeno(1,2,3-cd)pyrene	1300	J	1000	J	1600	J	2100	J	31	J
Dibenzo(a,h)anthracene	380	J	300	J	480	J	630	J	420	U
Benzo(g,h,i)perylene	1100	J	960	J	1400	J	1900	J	51	J

Analytical Results (Qualified Data)

Case #: 29954 SDG E00J2
Site CLARK
Lab. LIBRTY
Reviewer
Date

Sample Number :	E00K9		E00K9RE		E00L0		E00L1		E00L2	
Sampling Location :	X206		X206		X145		X120		X207	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	11/07/2001		11/07/2001		11/08/2001		11/08/2001		11/08/2001	
Time Sampled :	16 15		16 15		08 05		08:25		08 45	
%Moisture :	40		40		31		24		45	
pH	7 8		7 8		7 8		8 7		7 8	
Dilution Factor :	1 0		10 0		1 0		1 0		10 0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	550	U	5500	UJ	230	J	14	J	93	J
Phenol	550	U	5500	U	480	U	430	U	6000	U
bis-(2-Chloroethyl) ether	550	U	5500	U	480	U	430	U	6000	U
2-Chlorophenol	550	U	5500	U	480	U	430	U	6000	U
2-Methylphenol	550	U	5500	U	480	U	430	U	6000	U
2,2'-oxybis(1-Chloropropane)	550	U	5500	U	480	U	430	U	6000	U
Acetophenone	550	U	5500	U	480	U	17	J	6000	U
4-Methylphenol	550	U	5500	U	480	U	430	U	6000	U
N-Nitroso-di-n-propylamine	550	U	5500	U	480	U	430	U	6000	U
Hexachloroethane	550	U	5500	U	480	U	430	U	6000	U
Nitrobenzene	550	U	5500	U	480	U	430	U	6000	U
Isophorone	550	U	5500	U	480	U	430	U	6000	U
2-Nitrophenol	550	U	5500	U	480	U	430	U	6000	U
2,4-Dimethylphenol	550	U	5500	U	480	U	430	U	6000	U
bis(2-Chloroethoxy)methane	550	U	5500	U	480	U	430	U	6000	U
2,4-Dichlorophenol	550	U	5500	U	480	U	430	U	6000	U
Naphthalene	550	U	5500	U	480	U	12	J	6000	U
4-Chloroaniline	550	U	5500	U	480	U	430	U	2900	J
Hexachlorobutadiene	550	U	5500	U	480	U	430	U	6000	U
Caprolactam	550	U	5500	U	480	U	430	U	6000	U
4-Chloro-3-methylphenol	550	U	5500	U	480	U	430	U	6000	U
2-Methylnaphthalene	550	U	5500	U	480	U	23	J	270	J
Hexachlorocyclopentadiene	550	UJ	5500	UJ	480	UJ	430	UJ	6000	UJ
2,4,6-Trichlorophenol	550	U	5500	U	480	U	430	U	6000	U
2,4,5-Trichlorophenol	1400	U	14000	U	1200	U	1100	U	15000	U
1,1'-Biphenyl	550	U	5500	U	480	U	430	U	6000	U
2-Chloronaphthalene	550	U	5500	U	480	U	430	U	6000	U
2-Nitroaniline	1400	U	14000	U	1200	U	1100	U	15000	U
Dimethylphthalate	550	U	5500	U	480	U	430	U	6000	U
2,6-Dinitrotoluene	550	U	5500	U	480	U	430	U	6000	U
Acenaphthylene	550	U	5500	U	480	U	17	J	6000	U
3-Nitroaniline	1400	U	14000	U	1200	U	1100	U	15000	U
Acenaphthene	550	U	5500	U	480	U	430	U	720	J

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either valicated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case # 29954 SDG E00J2
Site CLARK
Lab. LIBRTY
Reviewer
Date

Sample Number	E00K9		E00K9RE		E00L0		E00L1		E00L2	
Sampling Location :	X206		X206		X145		X120		X207	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled .	11/07/2001		11/07/2001		11/08/2001		11/08/2001		11/08/2001	
Time Sampled	16.15		16 15		08 05		08 25		08 45	
%Moisture :	40		40		31		24		45	
pH .	7 8		7.8		7 8		8 7		7 8	
Dilution Factor	1 0		10 0		1 0		1 0		10 0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2 4-Dinitrophenol	1400	UJ	14000	UJ	1200	UJ	1100	UJ	15000	UJ
4-Nitrophenol	1400	UJ	14000	U	1200	U	1100	U	15000	U
Dibenzofuran	550	U	5500	U	480	U	13	J	6000	U
2 4-Dinitrotoluene	550	U	5500	U	480	U	430	U	6000	U
Diethylphthalate	550	U	5500	U	480	U	430	U	6000	U
Fluorene	550	U	5500	U	480	U	430	U	6000	U
4-Chlorophenyl-phenyl ether	550	U	5500	U	480	U	430	U	6000	U
4-Nitroaniline	1400	U	14000	U	1200	U	1100	U	15000	U
4 6-Dinitro-2-methylphenol	1400	UJ	14000	U	1200	U	1100	U	15000	U
N-Nitrosodiphenylamine	550	UJ	5500	U	480	U	430	U	6000	U
4-Bromophenyl-phenylether	550	UJ	5500	U	480	U	430	U	6000	U
Hexachlorobenzene	550	UJ	5500	U	480	U	430	U	6000	U
Atrazine	550	UJ	5500	UJ	480	UJ	430	UJ	6000	UJ
Pentachlorophenol	1400	UJ	14000	U	1200	U	1100	U	15000	U
Phenanthrene	550	UJ	5500	U	81	J	73	J	6000	U
Anthracene	550	UJ	5500	U	14	J	27	J	6000	U
Carbazole	550	UJ	5500	U	17	J	13	J	6000	U
Di-n-butylphthalate	550	UJ	5500	U	480	U	430	U	6000	U
Fluoranthene	450	J	780	J	150	J	210	J	3400	J
Pyrene	610	J	1500	J	130	J	170	J	4000	J
Butylbenzylphthalate	550	UJ	5500	U	42	J	14	J	6000	U
3 3'-Dichlorobenzidine	550	UJ	5500	U	480	U	430	U	6000	U
Benzo(a)anthracene	180	J	280	J	69	J	96	J	1500	J
Chrysene	390	J	520	J	93	J	140	J	1800	J
bis(2-Ethylhexyl)phthalate	1300	U	5500	U	600	U	430	U	6400	U
Di-n-octylphthalate	550	UJ	5500	UJ	130	J	150	J	6000	U
Benzo(b)fluoranthene	220	J	220	J	84	J	160	J	1500	J
Benzo(k)fluoranthene	140	J	5500	UJ	97	J	130	J	1400	J
Benzo(a)pyrene	100	J	130	J	80	J	110	J	1100	J
Indeno(1,2,3-cd)pyrene	82	J	5500	UJ	51	J	76	J	770	J
Dibenzo(a,h)anthracene	550	UJ	5500	UJ	22	J	42	J	240	J
Benzo(g,h,i)perylene	99	J	5500	UJ	480	U	100	J	740	J

Analytical Results (Qualified Data)

Case #. 29954 SDG E00J2
Site CLARK
Lab : LIBRTY
Reviewer :
Date

Sample Number	E00L3		E00L4		E00L5		E00L5RE		E00L6	
Sampling Location	X209		X208		X211		X211		X210	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	11/08/2001		11/08/2001		11/08/2001		11/08/2001		11/08/2001	
Time Sampled	10 05		09 45		11 10		11 10		10 40	
%Moisture	67		52		30		30		41	
pH	7 5		7 6		7 8		7 8		7 2	
Dilution Factor	1 0		10 0		1 0		1 0		1 0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	110	J	88	J	40	J	37	J	45	J
Phenol	1000	U	6900	U	470	U	470	U	560	U
bis-(2-Chloroethyl) ether	1000	U	6900	U	470	U	470	U	560	U
2-Chlorophenol	1000	U	6900	U	470	U	470	U	560	U
2-Methylphenol	1000	U	6900	U	470	U	470	U	560	U
2,2'-oxybis(1-Chloropropane)	1000	U	6900	U	470	U	470	U	560	U
Acetophenone	60	J	6900	U	470	U	470	U	17	J
4-Methylphenol	1000	U	6900	U	23	J	22	J	560	U
N-Nitroso-di-n-propylamine	1000	U	6900	U	470	U	470	U	560	U
Hexachloroethane	1000	U	6900	U	470	U	470	U	560	U
Nitrobenzene	1000	U	6900	U	470	U	470	U	560	U
Isophorone	1000	U	6900	U	470	U	470	U	560	U
2-Nitrophenol	1000	U	6900	U	470	U	470	U	560	U
2,4-Dimethylphenol	1000	U	6900	U	13	J	15	J	23	J
bis(2-Chloroethoxy)methane	1000	U	6900	U	470	U	470	U	560	U
2,4-Dichlorophenol	1000	U	6900	U	470	U	470	U	560	U
Naphthalene	1000	U	320	J	470	U	470	U	560	U
4-Chloroaniline	1000	U	360	J	470	U	470	U	560	U
Hexachlorobutadiene	1000	U	6900	U	470	U	470	U	560	U
Caprolactam	1000	U	6900	U	470	U	470	U	560	U
4-Chloro-3-methylphenol	1000	U	6900	U	470	U	470	U	560	U
2-Methylnaphthalene	52	J	6900	U	29	J	28	J	20	J
Hexachlorocyclopentadiene	1000	UJ	6900	UJ	470	UJ	470	UJ	560	UJ
2,4,6-Trichlorophenol	1000	U	6900	U	470	U	470	U	560	U
2,4,5-Trichlorophenol	2500	U	17000	U	1200	U	1200	U	1400	U
1,1'-Biphenyl	1000	U	6900	U	470	U	470	U	560	U
2-Chloronaphthalene	1000	U	6900	U	470	U	470	U	560	U
2-Nitroaniline	2500	U	17000	U	1200	U	1200	U	1400	U
Dimethylphthalate	1000	U	6900	U	470	U	470	U	560	U
2,6-Dinitrotoluene	1000	U	6900	U	470	U	470	U	560	U
Acenaphthylene	61	J	450	J	14	J	13	J	22	J
3-Nitroaniline	2500	U	17000	U	1200	U	1200	U	1400	U
Acenaphthene	43.	J	1100	J	16	J	470	U	560	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case # 29954 SDG . E00J2
Site CLARK
Lab LIBRTY
Reviewer
Date

Sample Number	E00L3		E00L4		E00L5		E00L5RE		E00L6	
Sampling Location	X209		X208		X211		X211		X210	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	11/08/2001		11/08/2001		11/08/2001		11/08/2001		11/08/2001	
Time Sampled	10 05		09 45		11 10		11 10		10 40	
%Moisture	67		52		30		30		41	
pH	7 5		7 6		7 8		7 8		7 2	
Dilution Factor	1 0		10 0		1 0		1 0		1 0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	2500	UJ	17000	UJ	1200	UJ	1200	UJ	1400	UJ
4-Nitrophenol	2500	U	17000	U	1200	U	1200	U	1400	U
Dibenzofuran	35	J	450	J	12	J	470	U	560	U
2,4-Dinitrotoluene	1000	U	6900	U	470	U	470	U	560	U
Diethylphthalate	1000	U	6900	U	470	U	470	U	560	U
Fluorene	65	J	1100	J	17	J	16	J	560	U
4-Chlorophenyl-phenyl ether	1000	U	6900	U	470	U	470	U	560	U
4-Nitroaniline	2500	U	17000	U	1200	U	1200	U	1400	U
4,6-Dinitro-2-methylphenol	2500	U	17000	U	1200	U	1200	U	1400	U
N-Nitrosodiphenylamine	1000	U	6900	U	470	U	470	U	560	U
4-Bromophenyl-phenylether	1000	U	6900	U	470	U	470	U	560	U
Hexachlorobenzene	1000	U	6900	U	470	U	470	U	560	U
Atrazine	1000	UJ	6900	UJ	470	UJ	470	UJ	560	UJ
Pentachlorophenol	2500	U	17000	U	1200	U	1200	U	1400	U
Phenanthrene	380	J	14000		250	J	230	J	160	J
Anthracene	150	J	4600	J	48	J	45	J	56	J
Carbazole	92	J	840	J	54	J	42	J	37	J
Di-n-butylphthalate	1000	U	6900	U	470	U	470	U	250	J
Fluoranthene	1100		40000		550		500		370	J
Pyrene	1300		43000		550		560		320	J
Butylbenzylphthalate	90	J	1100	J	23	J	35	J	24	J
3 3'-Dichlorobenzidine	1000	U	6900	U	470	U	470	U	560	U
Benzo(a)anthracene	460	J	19000		180	J	220	J	130	J
Chrysene	710	J	24000		320	J	290	J	250	J
bis(2-Ethylhexyl)phthalate	1500	U	39000		470	U	470	U	870	U
Di-n-octylphthalate	1000	U	5400	J	470	UJ	470	UJ	560	U
Benzo(b)fluoranthene	1300		32000		420	J	370	J	290	J
Benzo(k)fluoranthene	860	J	30000		270	J	280	J	300	J
Benzo(a)pyrene	890	J	39000		270	J	250	J	230	J
Indeno(1,2,3-cd)pyrene	660	J	20000	J	200	J	180	J	170	J
Dibenzo(a,h)anthracene	160	J	6200	J	51	J	45	J	47	J
Benzo(g,h,i)perylene	670	J	18000		500	J	450	J	190	J

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J2
Site CLARK
Lab. : LIBRTY
Reviewer .
Date

Sample Number	E00L7		E00L9		SBLKFF					
Sampling Location	X101		X202							
Matrix .	Soil		Soil		Soil					
Units	ug/Kg		ug/Kg		ug/Kg					
Date Sampled .	11/08/2001		11/08/2001							
Time Sampled	12.20		13 20							
%Moisture .	28		29		N/A					
pH	6 3		8 1							
Dilution Factor	1 0		1 0		1 0					
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	11	J	24	J	330	U				
Phenol	460	U	460	U	330	U				
bis-(2-Chloroethyl) ether	460	U	460	U	330	U				
2-Chlorophenol	460	U	460	U	330	U				
2-Methylphenol	460	U	460	U	330	U				
2,2'-oxybis(1-Chloropropane)	460	U	460	U	330	U				
Acetophenone	460	U	14	J	330	U				
4-Methylphenol	460	U	460	U	330	U				
N-Nitroso-di-n-propylamine	460	U	460	U	330	U				
Hexachloroethane	460	U	460	U	330	U				
Nitrobenzene	460	U	460	U	330	U				
Isophorone	460	U	460	U	330	U				
2-Nitrophenol	460	U	460	U	330	U				
2,4-Dimethylphenol	460	U	460	U	330	U				
bis(2-Chloroethoxy)methane	460	U	460	U	330	U				
2,4-Dichlorophenol	460	U	460	U	330	U				
Naphthalene	460	U	460	U	330	U				
4-Chloroaniline	460	U	460	U	330	U				
Hexachlorobutadiene	460	U	460	U	330	U				
Caprolactam	460	U	460	U	330	U				
4-Chloro-3-methylphenol	460	U	460	U	330	U				
2-Methylnaphthalene	460	U	460	U	330	U				
Hexachlorocyclopentadiene	460	UJ	460	UJ	330	UJ				
2,4,6-Trichlorophenol	460	U	460	U	330	U				
2,4,5-Trichlorophenol	1200	U	1200	U	830	U				
1,1'-Biphenyl	460	U	460	U	330	U				
2-Chloronaphthalene	460	U	460	U	330	U				
2-Nitroaniline	1200	U	1200	U	830	U				
Dimethylphthalate	460	U	460	U	330	U				
2,6-Dinitrotoluene	460	U	460	U	330	U				
Acenaphthylene	460	U	15	J	330	U				
3-Nitroaniline	1200	U	1200	U	830	U				
Acenaphthene	460	U	24	J	330	U				

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case # 29954 SDG E00J2
Site CLARK
Lab. : LIBRTY
Reviewer :
Date :

Sample Number	E00L7		E00L9		SBLKFF					
Sampling Location	X101		X202							
Matrix	Soil		Soil		Soil					
Units	ug/Kg		ug/Kg		ug/Kg					
Date Sampled	11/08/2001		11/08/2001							
Time Sampled	12:20		13 20							
%Moisture	28		29		N/A					
pH	6.3		8 1							
Dilution Factor	1.0		1 0		1 0					
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1200	UJ	1200	UJ	830	UJ				
4-Nitrophenol	1200	U	1200	U	830	UJ				
Dibenzofuran	460	U	13	J	330	U				
2,4-Dinitrotoluene	460	U	460	U	330	U				
Diethylphthalate	460	U	460	U	330	U				
Fluorene	460	U	25	J	330	U				
4-Chlorophenyl-phenyl ether	460	U	460	U	330	U				
4-Nitroaniline	1200	U	1200	U	830	U				
4,6-Dinitro-2-methylphenol	1200	U	1200	U	830	U				
N-Nitrosodiphenylamine	460	U	460	U	330	U				
4-Bromophenyl-phenylether	460	U	460	U	330	U				
Hexachlorobenzene	460	U	460	U	330	U				
Atrazine	460	UJ	460	UJ	330	UJ				
Pentachlorophenol	1200	U	1200	U	830	U				
Phenanthrene	30	J	170	J	330	U				
Anthracene	460	U	42	J	330	U				
Carbazole	460	U	20	J	330	U				
Di-n-butylphthalate	460	U	460	U	330	U				
Fluoranthene	77	J	470		330	U				
Pyrene	63	J	450	J	330	U				
Butylbenzylphthalate	460	U	26	J	330	U				
3,3'-Dichlorobenzidine	460	U	460	U	330	U				
Benzo(a)anthracene	31	J	200	J	330	U				
Chrysene	49	J	270	J	330	U				
bis(2-Ethylhexyl)phthalate	1100	U	460	U	99	J				
Di-n-octylphthalate	460	U	30	J	330	U				
Benzo(b)fluoranthene	55	J	260	J	330	U				
Benzo(k)fluoranthene	45	J	290	J	330	U				
Benzo(a)pyrene	33	J	210	J	330	U				
Indeno(1,2,3-cd)pyrene	26	J	140	J	330	U				
Dibenzo(a,h)anthracene	460	U	45	J	330	U				
Benzo(g,h,i)perylene	460	U	150	J	330	U				

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J2
Site : CLARK
Lab : LIBRTY
Reviewer :
Date :

Number of Soil Samples : 15
Number of Water Samples : 0

Sample Number :	E00J2		E00J2DL		E00J2MS		E00J2MSD		E00J6	
Sampling Location :	X204		X204		X204		X204		X201	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	11/07/2001		11/07/2001		11/07/2001		11/07/2001		11/07/2001	
Time Sampled :	09 00		09 00		09 00		09 00		11:30	
%Moisture :	50		50		50		50		63	
pH	7 8		7 8		7 8		7 8		7 4	
Dilution Factor :	1 0		2 0		1 0		1 0		1 0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	3.4	U	6 8	U	3.4	U	3.4	U	4 6	U
beta-BHC	3 4	U	6 8	U	3 4	U	3 4	U	4 6	U
delta-BHC	3.4	U	6.8	U	3 4	U	3.4	U	4 6	U
gamma-BHC (Lindane)	3.4	U	6 8	U	16	J	16	J	4 6	U
Heptachlor	3.4	U	6 8	U	21	J	20	J	4 6	U
Aldrin	3 4	U	6 8	U	16	J	17	J	4 6	U
Heptachlor epoxide	2.0	J	6 8	U	3.1	J	3.4	U	4 6	U
Endosulfan I	3 4	U	6 8	U	3 4	U	3 4	U	4 6	U
Dieldrin	6.6	U	13	U	49	J	46	J	10	J
4,4'-DDE	6.0	J	13	U	6 2	J	5 7	J	15	J
Endrin	6.6	U	13	U	62	J	51	J	8.9	U
Endosulfan II	6.6	U	13	U	6 6	U	6.6	U	8.9	U
4,4'-DDD	38	J	40	J	36	J	25	J	18	J
Endosulfan sulfate	6.6	U	13	U	6 6	U	6 6	U	11	J
4,4'-DDT	120	J	130	J	58	J	48	J	19	J
Methoxychlor	34	U	68	U	34	U	34	U	46	U
Endrin ketone	6.6	U	13	U	14	J	6.6	U	8.9	U
Endrin aldehyde	6.6	U	13	U	6 6	U	6.6	U	8 9	U
alpha-Chlordane	16	J	19	J	17	J	17	J	9.5	J
gamma-Chlordane	32	J	35	J	28	J	33	J	20	J
Toxaphene	340	U	680	U	340	U	340	U	460	U
Aroclor-1016	66	U	130	U	66	U	66	U	89	U
Aroclor-1221	130	U	270	U	130	U	130	U	180	U
Aroclor-1232	66	U	130	U	66	U	66	U	89	U
Aroclor-1242	66	U	130	U	66	U	66	U	89	U
Aroclor-1248	66	U	130	U	66	U	66	U	89	U
Aroclor-1254	66	U	130	U	66	U	66	U	89	U
Aroclor-1260	66	U	130	U	66	U	66	U	89	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00J2
Site CLARK
Lab. LIBRTY
Reviewer
Date

Sample Number	E00J7		E00J8		E00J8DL		E00J9		E00K2	
Sampling Location	X215		X214		X214		X250		X212	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	11/07/2001		11/07/2001		11/07/2001		11/07/2001		11/07/2001	
Time Sampled	12:00		12 15		12 15		12.15		13 00	
%Moisture	61		68		68		65		58	
pH	7.4		7 3		7 3		7 0		7 1	
Dilution Factor	1 0		1 0		5 0		1 0		1 0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	4.4	U	5.3	U	27	U	4.9	U	4 1	U
beta-BHC	4 4	U	15		27	U	4 9	U	15	
delta-BHC	4.4	U	5 3	U	27	U	4.9	U	4 1	U
gamma-BHC (Lindane)	4 4	U	5 3	U	27	U	4 9	U	4 1	U
Heptachlor	4.4	U	5.3	U	27	U	4.9	U	4.1	U
Aldrin	4.4	U	5 3	U	27	U	4 9	U	4 1	U
Heptachlor epoxide	4.4	U	5.3	U	27	U	4.9	U	4.1	U
Endosulfan I	4 4	U	5 3	U	27	U	4 9	U	4 1	J
Dieldrin	11		13		52	U	9.4	U	7 9	J
4 4'-DDE	16		17		52	U	11		12	
Endrin	16		16		52	U	9 4	U	7 9	U
Endosulfan II	8.5	U	10	U	52	U	9 4	U	7 9	U
4,4'-DDD	15		18		52	U	12		11	
Endosulfan sulfate	8.5	U	10	U	52	U	9 4	U	7 9	U
4,4'-DDT	8.5	U	10	U	52	U	9.4	U	7 9	U
Methoxychlor	44	U	53	U	270	U	49	U	40	U
Endrin ketone	8.5	U	10	U	52	U	9.4	U	7.9	U
Endrin aldehyde	8.5	U	10	U	52	U	9.4	U	7.9	U
alpha-Chlordane	11		12		27	U	9.5		8.1	
gamma-Chlordane	19		20		29		14		18	
Toxaphene	440	U	530	U	2700	U	490	U	400	U
Aroclor-1016	85	U	100	U	520	U	94	U	79	U
Aroclor-1221	170	U	210	U	1000	U	190	U	160	U
Aroclor-1232	85	U	100	U	520	U	94	U	79	U
Aroclor-1242	85	U	100	U	520	U	94	U	79	U
Aroclor-1248	85	U	100	U	520	U	94	U	79	U
Aroclor-1254	85	U	100	U	520	U	94	U	79	U
Aroclor-1260	85	U	100	U	520	U	94	U	79	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case # 29954 SDG . E00J2
Site CLARK
Lab LIBRTY
Reviewer
Date

Sample Number	E00K3		E00K4		E00K9		E00L2		E00L2DL	
Sampling Location	X205		X203		X206		X207		X207	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	11/07/2001		11/07/2001		11/07/2001		11/08/2001		11/08/2001	
Time Sampled	15 15		15 45		16 15		08 45		08 45	
%Moisture	46		21		40		45		45	
pH	7.9		7.7		7 8		7 8		7 8	
Dilution Factor	1 0		1 0		2 0		1 0		5 0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	3.2	U	2.2	U	7.1	J	3.1	U	15	U
beta-BHC	3 2	U	2 2	U	5 7	U	17	J	15	U
delta-BHC	3.2	U	2.2	U	5.7	U	3.1	U	15	U
gamma-BHC (Lindane)	3 2	U	2 2	U	6 9	J	4 6	J	15	U
Heptachlor	3.8	J	2.2	U	5 7	U	3.1	U	15	U
Aldrin	3.2	U	2 2	U	5 7	U	3 1	U	15	U
Heptachlor epoxide	3.2	U	2 2	U	11	J	3.1	U	15	U
Endosulfan I	3.2	U	2 2	U	5 7	U	3 1	U	15	U
Dieldrin	8.1	J	4.2	U	11	U	17	J	30	U
4,4'-DDE	16	J	6 4		12	J	23	J	23	J
Endrin	11	J	4.2	U	11	U	23	J	30	U
Endosulfan II	6.1	U	4.2	U	11	U	6 0	U	30	U
4,4'-DDD	12	J	28		26	J	100	J	110	J
Endosulfan sulfate	7 8	J	4 2	U	11	U	7 6	J	30	U
4,4'-DDT	6.1	U	4.2	U	11	U	100	J	99	J
Methoxychlor	31	U	22	U	57	U	31	U	150	U
Endrin ketone	6.1	U	4.2	U	11	U	6.0	U	30	U
Endrin aldehyde	6 1	U	4 2	U	11	U	6 0	U	30	U
alpha-Chlordane	15	J	2.2	U	5.7	U	3.1	U	15	U
gamma-Chlordane	23	J	5.7		9.2	J	24	J	28	J
Toxaphene	310	U	220	U	570	U	310	U	1500	U
Aroclor-1016	61	U	42	U	110	U	60	U	300	U
Aroclor-1221	120	U	85	U	220	U	120	U	610	U
Aroclor-1232	61	U	42	U	110	U	60	U	300	U
Aroclor-1242	61	U	42	U	110	U	60	U	300	U
Aroclor-1248	61	U	42	U	110	U	60	U	300	U
Aroclor-1254	61	U	42	U	110	U	60	U	300	U
Aroclor-1260	61	U	42	U	110	U	60	U	300	U

DISCLAIMER. This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case # 29954 SDG . E00J2
Site CLARK
Lab LIBRTY
Reviewer
Date

Sample Number	E00L3		E00L4		E00L4DL		E00L5		E00L5DL	
Sampling Location	X209		X208		X208		X211		X211	
Matrix	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled	11/08/2001		11/08/2001		11/08/2001		11/08/2001		11/08/2001	
Time Sampled	10:05		09:45		09 45		11:10		11 10	
%Moisture	67		52		52		30		30	
pH	7 5		7.6		7 6		7 8		7 8	
Dilution Factor	1 0		1 0		10 0		1 0		2 0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	5.2	U	3.5	U	35	U	2 4	U	4 9	U
beta-BHC	5.2	U	3 5	U	35	U	2 4	U	4 9	U
delta-BHC	5.2	U	3.5	U	35	U	2.4	U	4 9	U
gamma-BHC (Lindane)	5 2	U	3 5	U	35	U	2 4	U	4 9	U
Heptachlor	5.2	U	3.5	U	35	U	2.4	U	4.9	U
Aldrin	5.2	U	3 5	U	35	U	2 4	U	4 9	U
Heptachlor epoxide	5.2	U	3.5	U	35	U	4.6	J	6 7	
Endosulfan I	5 2	U	3 5	U	35	U	2 4	U	4 9	U
Dieldrin	10	U	63	J	84	J	22	J	27	
4 4'-DDE	23		81	J	100	J	25	J	28	
Endrin	10	U	6.9	U	69	U	4 7	U	9 4	U
Endosulfan II	10	U	6 9	U	69	U	4 7	U	9 4	U
4,4'-DDD	46		640	J	610	J	20	J	23	
Endosulfan sulfate	10	U	6 9	U	69	U	4 7	U	9 4	U
4,4'-DDT	10	U	140	J	150	J	15	J	16	
Methoxychlor	52	U	35	U	350	U	24	U	49	U
Endrin ketone	10	U	24	J	69	U	4.7	U	9 4	U
Endrin aldehyde	10	U	6 9	U	69	U	4 7	U	9 4	U
alpha-Chlordane	5.2	U	3.5	U	35	U	8.9	J	9.7	
gamma-Chlordane	9.9		3.5	U	120	J	19	J	18	
Toxaphene	520	U	350	U	3500	U	240	U	490	U
Aroclor-1016	100	U	69	U	690	U	47	U	94	U
Aroclor-1221	200	U	140	U	1400	U	96	U	190	U
Aroclor-1232	100	U	69	U	690	U	47	U	94	U
Aroclor-1242	100	U	69	U	690	U	47	U	94	U
Aroclor-1248	100	U	69	U	690	U	47	U	94	U
Aroclor-1254	100	U	69	U	690	U	47	U	94	U
Aroclor-1260	100	U	69	U	690	U	47	U	94	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer. *It has not been either* validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case # 29954 SDG . E00J2
Site CLARK
Lab : LIBRTY
Reviewer .
Date

Sample Number :	E00L6		E00L9		PBLKFG					
Sampling Location .	X210		X202							
Matrix :	Soil		Soil		Soil					
Units .	ug/Kg		ug/Kg		ug/Kg					
Date Sampled :	11/08/2001		11/08/2001							
Time Sampled :	10.40		13 20							
%Moisture :	41		29		N/A					
pH	7.2		8 1							
Dilution Factor :	1.0		1 0		1 0					
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2.9	U	2 4	U	1.7	U				
beta-BHC	2 9	U	2 4	U	1 7	U				
delta-BHC	2.9	U	2 4	U	1.7	U				
gamma-BHC (Lindane)	2 9	U	2 4	U	1 7	U				
Heptachlor	2.9	U	2.4	U	1.7	U				
Aldrin	2 9	U	2 4	U	1 7	U				
Heptachlor epoxide	2.9	U	2.4	U	1.7	U				
Endosulfan I	2.9	U	2 4	U	1 7	U				
Dieldrin	5.6	U	4.7	U	3.3	U				
4,4'-DDE	10		7 5		3 3	U				
Endrin	5.6	U	4.7	U	3.3	U				
Endosulfan II	5 6	U	4.7	U	3.3	U				
4,4'-DDD	5.6	U	18		3.3	U				
Endosulfan sulfate	5.6	U	4 7	U	3 3	U				
4,4'-DDT	5.6	U	4.7	U	3 3	U				
Methoxychlor	29	U	24	U	17	U				
Endrin ketone	5.6	U	4.7	U	3.3	U				
Endrin aldehyde	5.6	U	4 7	U	3.3	U				
alpha-Chlordane	4.0		2.4	U	1.7	U				
gamma-Chlordane	13		3 0		1.7	U				
Toxaphene	290	U	240	U	170	U				
Aroclor-1016	56	U	46	U	33	U				
Aroclor-1221	110	U	94	U	67	U				
Aroclor-1232	56	U	46	U	33	U				
Aroclor-1242	56	U	46	U	33	U				
Aroclor-1248	56	U	46	U	33	U				
Aroclor-1254	56	U	46	U	33	U				
Aroclor-1260	56	U	46	U	33	U				

DISCLAIMER: This package has been electronically assessed as an added service to our customer It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case # 29954 SDG . E00J2
Site CLARK
Lab LIBRTY
Reviewer
Date :

Sample Number :	PBLKSC									
Sampling Location :										
Matrix :	Water									
Units :	ug/L									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH										
Dilution Factor	1 0									
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.020	U								
beta-BHC	0 020	U								
delta-BHC	0.020	U								
gamma-BHC (Lindane)	0 020	U								
Heptachlor	0.020	U								
Aldrin	0.020	U								
Heptachlor epoxide	0.020	U								
Endosulfan I	0.020	U								
Dieldrin	0.040	U								
4,4'-DDE	0.040	U								
Endrin	0.040	U								
Endosulfan II	0.040	U								
4,4'-DDD	0.040	U								
Endosulfan sulfate	0.040	U								
4,4'-DDT	0.040	U								
Methoxychlor	0.20	U								
Endrin ketone	0.040	U								
Endrin aldehyde	0.040	U								
alpha-Chlordane	0.020	U								
gamma-Chlordane	0.020	U								
Toxaphene	2.0	U								
Aroclor-1016	0.40	U								
Aroclor-1221	0.80	U								
Aroclor-1232	0.40	U								
Aroclor-1242	0.40	U								
Aroclor-1248	0 40	U								
Aroclor-1254	0.40	U								
Aroclor-1260	0.40	U								

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

DEC 04 200

SDG NARRATIVE

CASE # 29954
SDG # E00J2
CONTRACT # 68W99071

SAMPLE IDENTIFICATIONS: E00J2, E00J6, E00J7, E00J8, E00J9, E00K1, E00K2, E00K3, E00K4, E00K9, E00L0, E00L1, E00L2, E00L3, E00L4, E00L5

The 19 solid samples listed above were received properly refrigerated at temperatures of 4-5°C, in sealed shipping containers, on November 8, and 9, 2001. The samples were scheduled for the requested analyses of the volatile, semivolatile, and pesticide/PCB fractions except E00L0, E00L1, and E00L7 were analyzed for semi-volatile only and E00K1 was analyzed for volatiles only. The samples were prepared and analyzed following the current EPA Contract Laboratory Program (CLP) Statement of Work (SOW), Document OLM04.2. This portion of the SDG narrative deals with the volatile fractions only. All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices for Case # 29954, SDG E00J2 are included in the sample data sections.

Volatiles

Analysis holding time requirements were met for all of these samples. There was one Target Compound List (TCL) analytes identified above the Contract Required Quantitation Limit (CRQL) in samples E00J7, E00K3, E00K9, E00L3, and E00L5. Tentatively Identified Compounds (TICs) were found in six (6) of these samples. The TICs found in these samples were mainly characterized as alkanes and unknowns. Sample E00K9 was analyzed at 3.5 grams due to high levels of TICs. Manual quantitations were performed on one or more of the process files associated with this SDG. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

All bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG. All of the system monitoring compounds met recovery criteria in the analyses of these samples. All of the internal standards met response and retention time criteria in the analyses of these samples except sample E00L5. The sample was re-prepped and re-analyzed and confirmed the low recovery of the internal sandards. Both analyses have been reported. The associated method blanks met all quality control criteria. E00J2 was used as the original to prepare the duplicate matrix spikes as requested. The associated duplicate matrix spikes met all advisory accuracy and precision criteria.

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

DEC 11 2001

contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Susan W. Bass

Susan W. Bass
Assistant Laboratory Manager
November 30, 2001

ALKANE NARRATIVE REPORT
Report date : 11/30/2001
SDG: E00J2

Client Sample ID: E00J6 Lab Sample ID: E00J2-2 File ID: E00J2-2A51

Compound	RT	Est. Conc.	Q
Branched Alkane	15.13	35.66	J
Branched Alkane	15.33	47.19	J
Branched Alkane	15.51	71.65	J
Branched Alkane	15.64	20.78	J
Branched Alkane	16.29	63.71	J
Branched Alkane	16.44	40.94	J
Branched Alkane	16.57	78.44	J
Cyclic Alkane	16.94	50.47	J
Branched Alkane	16.99	64.90	J
Straight-Chain Alkane	17.57	33.88	J
Cyclic Alkane	17.65	33.89	J
Branched Alkane	17.76	38.55	J
Cyclic Alkane	18.23	31.53	J
Branched Alkane	18.46	26.66	J

Client Sample ID: E00J8 Lab Sample ID: E00J2-4 File ID: E00J2-4A51

Compound	RT	Est. Conc.	Q
Branched Alkane	14.92	24.34	J
Branched Alkane	15.13	46.62	J
Branched Alkane	15.33	59.32	J
Branched Alkane	15.51	97.22	J
Branched Alkane	15.80	33.60	J
Branched Alkane	16.29	68.73	J
Unknown Alkane	16.43	22.20	J
Branched Alkane	16.44	38.54	J
Branched Alkane	16.57	72.12	J
Cyclic Alkane	16.67	17.97	J
Cyclic Alkane	16.94	45.19	J
Branched Alkane	16.98	43.30	J
Cyclic Alkane	17.08	35.51	J
Cyclic Alkane	17.21	50.88	J
Branched Alkane	17.76	42.22	J
Straight-Chain Alkane	17.92	43.09	J
Cyclic Alkane	18.08	35.56	J
Cyclic Alkane	18.60	21.67	J
Straight-Chain Alkane	18.78	15.70	J

Client Sample ID: E00J9 Lab Sample ID: E00J2-5 File ID: E00J2-5A51

Compound	RT	Est. Conc.	Q
Branched Alkane	15.51	16.15	J

Client Sample ID: E00K2 Lab Sample ID: E00J2-7 File ID: E00J2-7A51

Compound	RT	Est. Conc.	Q
Branched Alkane	15.13	71.40	J
Branched Alkane	15.23	25.90	J
Branched Alkane	15.33	96.84	J
Branched Alkane	15.50	118.1	J
Branched Alkane	15.64	60.59	J

Branched Alkane	15.80	44.30	J
Branched Alkane	16.29	113.0	J
Branched Alkane	16.44	50.97	J
Straight-Chain Alkane	16.46	98.78	J
Branched Alkane	16.57	140.6	J
Cyclic Alkane	16.66	48.49	J
Branched Alkane	16.99	116.5	J
Cyclic Alkane	17.22	76.55	J
Unknown Alkane	17.31	70.77	J
Branched Alkane	17.56	74.69	J
Branched Alkane	17.76	120.3	J
Straight-Chain Alkane	17.92	120.4	J
Straight-Chain Alkane	18.46	97.84	J
Straight-Chain Alkane	18.79	51.52	J

Client Sample ID: E00K9 Lab Sample ID: E00J2-10 File ID: E00J2-10D5

Compound	RT	Est. Conc.	Q
Branched Alkane	10.00	698.1	J
Branched Alkane	11.44	239.2	J
Branched Alkane	11.58	214.1	J
Branched Alkane	15.10	105.0	J
Branched Alkane	15.14	162.4	J
Branched Alkane	15.51	228.0	J
Cyclic Alkane	15.75	245.0	J

Client Sample ID: E00L3 Lab Sample ID: E00J2-14 File ID: E00J2-14B5

Compound	RT	Est. Conc.	Q
Cyclic Alkane	13.36	24.30	J
Cyclic Alkane	14.10	22.84	J
Cyclic Alkane	14.31	23.64	J
Cyclic Alkane	14.72	36.88	J
Cyclic Alkane	15.22	18.40	J

Client Sample ID: E00L2 Lab Sample ID: E00J2-13 File ID: E00J2-13B5

Compound	RT	Est. Conc.	Q
Cyclic Alkane	16.94	17.20	J
Branched Alkane	17.05	10.40	J

Client Sample ID: VBLKXE Lab Sample ID: WG14102-2 File ID: WG14102-2A

Compound	RT	Est. Conc.	Q
Branched Alkane	5.03	5.16	J
Unknown Alkane	9.67	7.06	J

COMPUCHEM
A division of Liberty Analytical Corporation
501 Madison Ave.
Cary, NC 27513

SDG NARRATIVE

CASE #29954
SDG #E00J2
CONTRACT #68W99071

SAMPLE IDENTIFICATIONS:

E00J2	**E00J6**	**E00J7**	**E00J8**	**E00J9**	**E00K2**	**E00K3**	**E00K4**	**E00K9**
E00L0	**E00L1**	**E00L2**	**E00L3**	**E00L4**	**E00L5**	**E00L6**	**E00L7**	**E00L9**

This portion of the SDG narrative deals with the semivolatile fractions for the eighteen samples above only. For the receiving information associated with these samples, please refer to the volatile SDG narrative.

All pertinent Quality Assurance notices are included in the narrative section and all pertinent Laboratory notices are included in the sample data sections.

SEMIVOLATILE
The semivolatile fractions were extracted and analyzed within the required holding time. The percent moisture values for the samples ranged from 21% to 68% and the pH values ranged from 6.3 to 8.7.

One to thirteen Target Compound List (TCL) analytes were detected with concentrations above the Contract Required Quantitation Limit (CRQL) in seventeen of the samples. These analytes were fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, phenanthrene, bis(2-ethylhexyl)phthalate, di-n-octylphthalate, indeno(1,2,3-cd)pyrene, benzo(g,h,i)perylene and butylbenzylphthalate.

Twenty-three to thirty Tentatively Identified Compounds (TIC) were detected in the samples. Many of these TICs were assessed as unknowns, aldehydes, alcohols, PAHs, acid esters, carboxylic acids, ketones, acetamides, benzenes, thiophenes, glycine, azulenes, naphthalenes, oxiranes, amides and phthalates. Other TICs were detected and assessed as unknown alkanes in some of the samples. The TICs that were characterized as alkanes have been summarized on the Alkane Narrative Report that is located in the narrative section of the data package. The TIC spectra for the alkanes are located in the data section for the individual samples.

In the analyses of E00L4 and E00L9, one or more TICs were assessed as TCL analytes. However, the retention times of these TICs did not compare well to the analyte retention times in the associated Continuing Calibration standard. In accordance with the EPA CLP Statement of

Work. Document number OLM04.2. TICs at or above 85% purity should be assessed as the compound [page D-46/SVOA: section 11.1.2.5.6].

In the initial undiluted analyses of E00J6, E00J7, E00J8, E00J9 and E00K3, the on-column amounts of one or more analytes exceeded the instrument's analytical range as defined by the highest concentration level of the Initial Calibration. The samples were reanalyzed diluted in order to bring the on-column amounts into range. The undiluted and diluted analyses of the samples have been reported and billed for.

Due to the results of a screen of the sample, E00K2 was initially analyzed at a 2x dilution. The screen Reconstructed Ion Chromatogram (RIC) and quantitation report are included in the section denoted as 'Screening Records', which is part of the 'Miscellaneous Data' section of the CSF package.

Due to the appearance and oily nature of the extracts, E00L2 and E00L4 were initially analyzed at 10x dilutions.

QC SUMMARY

All decafluorotriphenylphosphine (DFTPP) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

The surrogates met recovery criteria for the semivolatile fractions. The associated blanks met Quality Control criteria.

The internal standards met area response and retention time criteria, with some exceptions. In the initial and repeat analyses of E00K3, E00K9 and E00L5, the area responses of one or more of the internal standards varied considerably from the responses in the associated Contining Calibrations. The failing responses have been attributed to interferences present in the matrices of the samples. The initial and repeat analyses for each of the samples has been reported.

Due to the high concentration levels of non-target analytes and the oily nature of the extract, the repeat analysis of E00K9 was performed at a 10x dilution.

E00J2 was used as the original to prepare the duplicate matrix spikes as requested. The duplicate matrix spikes met accuracy and precison criteria, with some exceptions. The recoveries of 4-nitrophenol and pyrene were flagged as outliers in the MSD.

In the analyses of the Initial and Continuing Calibration standards and all of the samples, manual quantitations were performed. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

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 by the laboratory manager or his/her designee, as verified by the

following signature:

Patricia B. Hopkins
Data Analyst II
02 December 2001

Note: This report is paginated for reference and accountability in numerical sequence.

ALKANE NARRATIVE REPORT
Report date : 12/02/2001
SDG: E00J2

Client Sample ID: E00J2 Lab Sample ID: E00J2-1 File ID: E00J2-1A

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	17.75	575.3	J
Straight-Chain Alkane	19.60	1184	J
Straight-Chain Alkane	21.18	928.0	J

Client Sample ID: E00J6 Lab Sample ID: E00J2-2 File ID: E00J2-2A

Compound	RT	Est. Conc.	Q
Branched Alkane	12.22	1094	J
Straight-Chain Alkane	12.87	989.4	J
Straight-Chain Alkane	14.35	2017	J
Straight-Chain Alkane	14.47	1409	J
Straight-Chain Alkane	14.89	841.5	J
Straight-Chain Alkane	15.30	1381	J
Unknown Alkane	15.57	1796	J
Straight-Chain Alkane	16.51	1160	J
Straight-Chain Alkane	19.71	1529	J
Straight-Chain Alkane	25.57	2533	J

Client Sample ID: E00J7 Lab Sample ID: E00J2-3 File ID: E00J2-3A66

Compound	RT	Est. Conc.	Q
Branched Alkane	10.59	2016	J
Branched Alkane	12.23	2882	J
Straight-Chain Alkane	12.87	2646	J
Unknown Alkane	13.35	3250	J
Branched Alkane	14.36	4905	J
Straight-Chain Alkane	14.48	3386	J
Straight-Chain Alkane	14.90	3090	J
Unknown Alkane	15.19	6298	J
Straight-Chain Alkane	15.31	4088	J
Straight-Chain Alkane	15.58	5561	J
Straight-Chain Alkane	16.00	1301	J
Straight-Chain Alkane	16.54	1451	J
Unknown Alkane	18.36	2081	J

Client Sample ID: E00J8 Lab Sample ID: E00J2-4 File ID: E00J2-4A66

Compound	RT	Est. Conc.	Q
Branched Alkane	12.23	1214	J
Straight-Chain Alkane	12.87	1140	J
Unknown Alkane	14.47	2946	J
Straight-Chain Alkane	14.91	1944	J
Straight-Chain Alkane	15.18	2803	J
Straight-Chain Alkane	15.30	3322	J
Straight-Chain Alkane	15.57	3719	J
Unknown Alkane	15.69	4487	J
Straight-Chain Alkane	15.99	2557	J
Unknown Alkane	16.20	2515	J
Unknown Alkane	16.40	1465	J
Straight-Chain Alkane	16.53	2594	J
Unknown Alkane	20.70	1565	J

Client Sample ID: E00J9 Lab Sample ID: E00J2-5 File ID: E00J2-5A

Compound	RT	Est. Conc.	Q
Branched Alkane	12.23	1180	J
Straight-Chain Alkane	12.87	992.0	J
Unknown Alkane	14.35	2751	J
Straight-Chain Alkane	14.47	3181	J
Straight-Chain Alkane	14.91	2239	J
Unknown Alkane	15.10	2950	J
Straight-Chain Alkane	15.18	3303	J
Straight-Chain Alkane	15.30	2597	J
Straight-Chain Alkane	15.57	4374	J
Straight-Chain Alkane	15.99	2971	J
Straight-Chain Alkane	16.18	2847	J
Branched Alkane	16.40	1250	J
Straight-Chain Alkane	16.53	2883	J
Branched Alkane	23.15	1387	J

Client Sample ID: E00J6DL Lab Sample ID: E00J2-2 File ID: E00J2-2DA

Compound	RT	Est. Conc.	Q
Unknown Alkane	16.08	10480	JD
Unknown Alkane	16.14	11820	JD
Branched Alkane	16.36	8114	JD
Straight-Chain Alkane	16.50	16970	JD
Straight-Chain Alkane	17.51	5483	JD
Straight-Chain Alkane	17.83	3149	JD
Unknown Alkane	18.12	2486	JD
Straight-Chain Alkane	18.32	3487	JD
Unknown Alkane	18.71	2383	JD
Straight-Chain Alkane	19.67	2330	JD
Unknown Alkane	20.65	1514	JD
Branched Alkane	21.26	1419	JD

Client Sample ID: E00J7DL Lab Sample ID: E00J2-3 File ID: E00J2-3DA6

Compound	RT	Est. Conc.	Q
Branched Alkane	12.22	2390	JD
Straight-Chain Alkane	12.86	1837	JD
Unknown Alkane	13.33	3174	JD
Straight-Chain Alkane	14.34	3716	JD
Straight-Chain Alkane	14.46	2454	JD
Branched Alkane	14.63	3747	JD
Straight-Chain Alkane	14.88	3073	JD
Unknown Alkane	15.07	3403	JD
Branched Alkane	15.15	4670	JD
Straight-Chain Alkane	15.27	3810	JD
Branched Alkane	15.54	5823	JD
Straight-Chain Alkane	15.66	7388	JD
Straight-Chain Alkane	15.96	4931	JD
Unknown Alkane	16.08	4786	JD
Unknown Alkane	16.37	3203	JD
Straight-Chain Alkane	16.51	6567	JD
Unknown Alkane	17.13	2291	JD
Straight-Chain Alkane	20.66	2692	JD

Client Sample ID: E00J8DL Lab Sample ID: E00J2-4 File ID: E00J2-4DA66

Compound	RT	Est. Conc.	Q
Unknown Alkane	14.34	5602	JD
Straight-Chain Alkane	14.45	4946	JD
Unknown Alkane	14.62	5034	JD
Straight-Chain Alkane	14.88	2977	JD
Unknown Alkane	15.55	7351	JD
Straight-Chain Alkane	15.96	7947	JD
Unknown Alkane	16.08	6694	JD
Unknown Alkane	16.36	4073	JD
Straight-Chain Alkane	16.50	9452	JD
Branched Alkane	17.53	26460	JD
Straight-Chain Alkane	17.83	11440	JD
Straight-Chain Alkane	18.14	8847	JD

Client Sample ID: E00J9DL Lab Sample ID: E00J2-5 File ID: E00J2-5DA

Compound	RT	Est. Conc.	Q
Unknown Alkane	14.34	6968	JD
Straight-Chain Alkane	14.46	6197	JD
Unknown Alkane	14.62	6482	JD
Straight-Chain Alkane	14.88	4034	JD
Straight-Chain Alkane	15.15	9665	JD
Straight-Chain Alkane	15.28	6651	JD
Unknown Alkane	15.55	10500	JD
Straight-Chain Alkane	15.96	11240	JD
Unknown Alkane	16.08	9441	JD
Unknown Alkane	16.14	9124	JD
Unknown Alkane	16.36	5621	JD
Straight-Chain Alkane	16.50	13420	JD
Unknown Alkane	17.12	54040	JD
Branched Alkane	17.39	49030	JD
Branched Alkane	17.53	41350	JD
Straight-Chain Alkane	17.85	25960	JD
Straight-Chain Alkane	18.14	15350	JD
Unknown Alkane	20.25	18240	JD
Branched Alkane	25.59	17240	JD

Client Sample ID: E00K3 Lab Sample ID: E00J2-8 File ID: E00J2-8A66

Compound	RT	Est. Conc.	Q
Branched Alkane	15.17	5647	J
Straight-Chain Alkane	15.29	6382	J
Straight-Chain Alkane	15.98	1688	J
Straight-Chain Alkane	16.18	2188	J
Unknown Alkane	16.40	1283	J
Straight-Chain Alkane	16.54	2803	J
Straight-Chain Alkane	17.57	1209	J
Straight-Chain Alkane	17.87	1027	J
Straight-Chain Alkane	18.40	1077	J
Unknown Alkane	18.73	1013	J
Unknown Alkane	18.92	757.8	J

Client Sample ID: E00K4 Lab Sample ID: E00J2-9 File ID: E00J2-9A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	8.54	1251	J
Branched Alkane	12.21	864.4	J
Straight-Chain Alkane	12.80	515.4	J
Branched Alkane	12.85	606.4	J

Straight-Chain Alkane	13.37	634.8	J
Unknown Alkane	13.83	554.4	J
Straight-Chain Alkane	13.93	632.8	J
Unknown Alkane	14.32	742.2	J
Straight-Chain Alkane	14.46	577.8	J
Unknown Alkane	14.61	570.8	J
Straight-Chain Alkane	14.96	642.2	J
Unknown Alkane	15.13	354.2	J
Straight-Chain Alkane	15.43	779.0	J
Straight-Chain Alkane	15.94	657.8	J
Straight-Chain Alkane	16.48	880.4	J
Branched Alkane	17.09	395.4	J

Client Sample ID: E00K9 Lab Sample ID: E00J2-10 File ID: E00J2-10A

Compound	RT	Est. Conc.	Q
Unknown Alkane	9.85	13190	J
Unknown Alkane	11.69	10610	J
Unknown Alkane	12.01	21050	J
Unknown Alkane	12.38	7863	J
Unknown Alkane	14.07	4628	J

Client Sample ID: E00K9RE Lab Sample ID: E00J2-10 File ID: E00J2-10D

Compound	RT	Est. Conc.	Q
Branched Alkane	12.18	19960	J
Unknown Alkane	12.75	8686	J
Unknown Alkane	14.41	10020	J
Unknown Alkane	15.39	3259	J
Straight-Chain Alkane	15.88	3211	J
Straight-Chain Alkane	16.44	2890	J

Client Sample ID: E00L5RE Lab Sample ID: E00J2-16 File ID: E00J2-16C

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	13.32	411.7	J
Straight-Chain Alkane	13.88	830.7	J
Straight-Chain Alkane	14.40	1491	J
Straight-Chain Alkane	15.38	1484	J
Straight-Chain Alkane	15.87	653.0	J
Straight-Chain Alkane	20.37	468.2	J

Client Sample ID: E00L0 Lab Sample ID: E00J2-11 File ID: E00J2-11C66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	15.37	238.6	J
Straight-Chain Alkane	16.38	256.9	J
Straight-Chain Alkane	17.66	240.5	J
Unknown Alkane	17.77	163.6	J
Straight-Chain Alkane	18.49	347.0	J
Straight-Chain Alkane	19.49	1375	J
Straight-Chain Alkane	20.33	208.7	J
Branched Alkane	21.11	1350	J
Unknown Alkane	21.43	235.9	J
Straight-Chain Alkane	22.93	598.3	J

Client Sample ID: E00L1 Lab Sample ID: E00J2-12 File ID: E00J2-12

Compound	RT	Est. Conc.	Q
Branched Alkane	12.14	417.1	J
Straight-Chain Alkane	16.38	222.6	J
Straight-Chain Alkane	17.66	166.9	J
Straight-Chain Alkane	18.49	318.0	J
Straight-Chain Alkane	19.49	598.8	J
Straight-Chain Alkane	20.33	310.3	J
Branched Alkane	21.11	1050	J
Unknown Alkane	21.43	334.0	J
Straight-Chain Alkane	21.95	271.3	J
Straight-Chain Alkane	22.93	408.3	J

Client Sample ID: E00L2 Lab Sample ID: E00J2-13 File ID: E00J2-13DC

Compound	RT	Est. Conc.	Q
Branched Alkane	11.05	20540	J
Straight-Chain Alkane	11.49	16900	J
Branched Alkane	12.18	5498	J
Straight-Chain Alkane	12.81	8610	J
Straight-Chain Alkane	14.39	5715	J
Straight-Chain Alkane	16.40	5135	J

Client Sample ID: E00L3 Lab Sample ID: E00J2-14 File ID: E00J2-14DC

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	13.31	2542	J
Straight-Chain Alkane	15.38	3740	J
Branched Alkane	15.47	2982	J
Straight-Chain Alkane	15.87	1801	J
Straight-Chain Alkane	16.41	5269	J
Branched Alkane	17.02	2259	J
Branched Alkane	17.71	1737	J
Straight-Chain Alkane	19.54	1213	J

Client Sample ID: E00L4 Lab Sample ID: E00J2-15 File ID: E00J2-15DC6

Compound	RT	Est. Conc.	Q
Branched Alkane	11.79	6481	J
Branched Alkane	12.16	8219	J
Cyclic Alkane	12.43	6100	J
Branched Alkane	12.78	7242	J
Branched Alkane	17.39	4519	J

Client Sample ID: E00L5 Lab Sample ID: E00J2-16 File ID: E00J2-16C6

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	11.80	389.9	J
Branched Alkane	12.16	297.7	J
Unknown Alkane	12.45	362.7	J
Straight-Chain Alkane	12.73	374.3	J
Straight-Chain Alkane	13.27	324.1	J
Unknown Alkane	16.41	333.9	J
Branched Alkane	19.52	228.4	J

Client Sample ID: E00L6 Lab Sample ID: E00J2-17 File ID: E00J2-17

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	16.40	2228	J
Branched Alkane	16.99	491.5	J
Branched Alkane	17.70	933.7	J
Straight-Chain Alkane	18.51	695.0	J
Straight-Chain Alkane	19.51	933.4	J
Straight-Chain Alkane	21.11	728.8	J

Client Sample ID: E00L7 Lab Sample ID: E00J2-18 File ID: E00J2-18

Compound	RT	Est. Conc.	Q
Branched Alkane	14.39	108.0	J
Straight-Chain Alkane	15.37	103.0	J
Straight-Chain Alkane	16.38	167.7	J
Straight-Chain Alkane	17.68	215.8	J
Branched Alkane	18.49	125.1	J
Straight-Chain Alkane	19.49	1186	J
Straight-Chain Alkane	20.33	259.2	J
Straight-Chain Alkane	21.11	2978	J
Straight-Chain Alkane	21.95	135.7	J
Straight-Chain Alkane	22.95	1443	J

Client Sample ID: E00L9 Lab Sample ID: E00J2-19 File ID: E00J2-19

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	14.39	844.2	J
Branched Alkane	14.55	798.7	J
Straight-Chain Alkane	14.80	927.6	J
Straight-Chain Alkane	15.37	608.3	J
Straight-Chain Alkane	15.46	431.2	J
Straight-Chain Alkane	15.86	290.6	J
Branched Alkane	16.40	873.9	J
Straight-Chain Alkane	17.38	379.9	J
Straight-Chain Alkane	17.69	455.3	J
Straight-Chain Alkane	18.51	334.0	J
Straight-Chain Alkane	19.51	691.4	J

Client Sample ID: E00K3DL Lab Sample ID: E00J2-8 File ID: E00J2-8DC6

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	14.80	4671	JD
Unknown Alkane	15.08	8421	JD
Straight-Chain Alkane	15.20	5963	JD
Straight-Chain Alkane	15.56	13390	JD
Straight-Chain Alkane	15.88	12110	JD
Straight-Chain Alkane	16.40	9164	JD
Straight-Chain Alkane	16.60	49430	JD
Branched Alkane	17.40	40340	JD
Straight-Chain Alkane	17.70	22240	JD
Unknown Alkane	18.53	10290	JD
Unknown Alkane	18.70	5939	JD

Client Sample ID: E00K2 Lab Sample ID: E00J2-7 File ID: E00J2-7DJC6

Compound	RT	Est. Conc.	Q
Branched Alkane	12.16	2255	J

Branched Alkane	12.81	1830	J
Unknown Alkane	13.28	2908	J
Unknown Alkane	14.09	3242	J
Branched Alkane	14.28	3662	J
Branched Alkane	14.39	3224	J
Unknown Alkane	14.56	1838	J
Unknown Alkane	14.77	2528	J
Branched Alkane	14.82	2551	J
Straight-Chain Alkane	15.09	4475	J
Branched Alkane	15.47	5460	J
Branched Alkane	15.59	4478	J
Straight-Chain Alkane	15.88	4269	J
Straight-Chain Alkane	16.00	4141	J
Straight-Chain Alkane	16.07	4639	J
Straight-Chain Alkane	16.29	3052	J
Straight-Chain Alkane	16.42	5681	J
Straight-Chain Alkane	17.03	40900	J
Branched Alkane	17.42	35860	J

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
CASE # 29954
SDG # E00J2
CONTRACT # 68W99071

SAMPLE IDENTIFICATIONS: E00J2, E00J6, E00J7, E00J8, E00J9, E00K2, E00K3, E00K4, E00K9, E00L0, E00L2, E00L3, E00L4, E00L5, E00L6, E00L9

The sixteen soil samples listed above were scheduled for the requested analysis of the pesticide fraction. The samples were prepared and analyzed following the current EPA Contract Laboratory Program (CLP) Statement of Work (SOW), Document OLM04.2. The pH values of these soil samples ranged from 6.3 to 8.7, and the percent moistures ranged from 15 to 69. This portion of the SDG narrative deals with the pesticide fraction only. For the receiving information associated with these samples, please refer to the volatile SDG narrative.

Extraction and analysis holding time requirements were met for all of these samples. There were a few pesticide Target Compound List (TCL) analytes confirmed by dual column analysis above the Contract Required Quantitation Limit (CRQL) at varying concentrations in all of samples listed above. Manual quantitations were performed on one or more of the process files associated with this SDG, including all samples except E00K2, E00K3, E00L2, E00L3, E00L4 and E00L6. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG. Due to the level of pesticide compound found in E00L4, DDD were confirmed by GC/MS analysis. The 'C' flag is used to denote compounds that were successfully confirmed by GC/MS analysis. In the undiluted analysis of E00J2, the on-column amount of DDT exceeded the instrument's calibration limits. The sample was reanalyzed at a 2x dilution to bring the on-column amount into calibration range. We have reported and billed for both analyses of E00J2. In the undiluted analysis of E00J8, the on-column amount of beta-BHC exceeded the instrument's calibration limits. The sample was reanalyzed at a 5x dilution and beta-BHC was diluted out on one column and was in calibration range on the other. We have reported and billed for both analyses of E00J8. In the undiluted analysis of E00L2, the on-column amount of gamma-BHC, DDD and DDT exceeded the instrument's calibration limits. The sample was reanalyzed at a 5x dilution to bring the on-column amount into calibration range. We have reported and billed for both analyses of E00L2. In the undiluted analysis of E00L4, the on-column amount of dieldrin, DDD and DDT exceeded the instrument's calibration limits. The sample was reanalyzed at a 10x dilution to bring the on-column amount into calibration range. We have reported and billed for both analyses of E00L4. In the undiluted analysis of E00L5, the on-column amount of gamma-Chlordane and DDT exceeded the instrument's calibration limits. The sample was reanalyzed at a 2x dilution to bring the on-column amount into calibration range. We have reported and billed for both analyses of E00L5.

Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG. All of the surrogates met recovery criteria with a few exceptions. The recovery of DCB fell above the quality control limits in the analyses of E00J2, E00J6, E00K3, E00L2, E00L4 and E00L5 due to matrix interference. The associated method blanks met all quality control criteria. E00J2 was used as the original to prepare the duplicate matrix spikes as requested. With one exception, the associated duplicate matrix spikes met all accuracy and precision criteria. The recovery of the spike compound DDT was flagged as an outlier in the matrix spiks, due to matrix interference.

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 by the Laboratory Manager or his/her designee, as verified by the following signature.

Traci E. Mizlo

Traci E. Mizlo
Sr. Scientist I
December 3, 2001

GC and GC/MS Column and Trap Specifications Table

COLUMNS

Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
GC Laboratory				
Restek	RTX-1701	0.53	0.5	30
J & W	DB-608	0.53	0.83	30
Restek	CLPesticides	0.53	0.5	30
Restek	CLPesticides II	0.53	0.42	30
GC Volatiles Laboratory				
Restek	RTX-1	0.53	0.5	105
Restek	RTX-502.2	0.53	0.5	105
GC/MS Volatiles Laboratory				
J & W	DB-624	0.53	3.0	30/75
J & W	DB-624	0.25	1.4	60
J & W	DB-624	0.32	1.8	60
Restek	RTX-624	0.32	1.8	60
Supelco	SPB-624	0.32	1.4	60
Supelco	Equity™-624	0.53	3.0	75
GC/MS Semivolatiles Laboratory				
J & W	DB-5.625	0.32	1.0	30
J & W	DB5-MS	0.25	0.25	30
Hewlett Packard	HP5-MS	0.25	0.25	30
Optima	5-MS	0.25	0.25	30
Restek	RTX-5MS	0.25	0.25	30

TRAPS

GC and GC/MS Volatiles Laboratory	
Tekmar 3	* 8 cm of 2,6-diphenylene oxide polymer (Tenax) * 8 cm of silica gel * 7 cm of coconut charcoal * 0.5 cm of silanized glass wool at each end
Tekmar 5	* 1 cm of methyl silicone packing (OV-1 coating) * 8 cm of 2,6-diphenylene oxide polymer (Tenax) * 8 cm of silica gel * 7 cm of coconut charcoal * 0.5 cm of silanized glass wool at each end
Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons) * 6 cm of Carboxen 1000 (Carbon molecular sieves) * 1 cm of Carboxen 1001 (Carbon molecular sieves)

USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case: 29954
Client No:
SDG No: ECOT2

L

Date Shipped: 11/7/01 **Carrier Name:** FedEx **Airbill:** 832620621147 **Shipped to:** Liberty Analytical 501 Madison Avenue Cary NC 27513 (919) 379-4080	**Date Received/Received by:** 11/8/01 Alice Evans **Lab Contract No:** 65111662 **Unit Price:** $514.40 **Transfer To:** **Date Received/Received By:** **Lab Contract No:** **Price:**	**Sampler (Signature):** **Relinquished By:** **Date / Time:** 11-07-01 6:15p **Received By:** **Relinquished By:** **Date / Time:** 11-8-01 0605 **Received By:** **Relinquished By:** **Date / Time:** **Received By:**	24

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
X201	Sediment/ Paul Mason	L/G	PER_SOL (21)	5-122323 (Ice Only) (1)	X201	11/7/01 11:30		GOOD
X203	Sediment/ Paul Mason	L/G	PER_SOL (21)	5-122302 (Ice Only) (1)	X203	11/7/01 15:45		
X204	Sediment/ Paul Mason	L/G	PER_SOL (21)	5-59971 (Ice Only) (1)	X204	11/7/01 9:00		
X205	Sediment/ Paul Mason	L/G	PER_SOL (21)	5-59007 (Ice Only) (1)	X205	11/7/01 15:15		
X212	Sediment/ Paul Mason	L/G	PER_SOL (21)	5-59003 (Ice Only) (1)	X212	11/7/01 13:00		
X213	Sediment/ Paul Mason	L/G	PER_SOL (21)	5-122298 (Ice Only) (1)	X213	11/7/01 12:30		
X214	Sediment/ Paul Mason	L/G	PER_SOL (21)	5-122290 (Ice Only) (1)	X214	11/7/01 12:15		
X215	Sediment/ Paul Mason	L/G	PER_SOL (21)	5-122286 (Ice Only) (1)	X215	11/7/01 12:00		
X250	Sediment/ Paul Mason	L/G	PER_SOL (21)	5-122294 (Ice Only) (1)	X250	11/7/01 12:15		

Shipment for Case Complete? N	**Sample(s) to be used for laboratory QC:** X204	**Additional Sampler Signature(s):**	**Cooler Temperature Upon Receipt:**	**Chain of Custody Seal Number:** 81135 - 81137 81139 - 81141
Analysis Key: PER_SOL = Percent Solids	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G		**Custody Seal Intact?**__ **Shipment Iced?**__

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy t ntract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Restor 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-110701-0002

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 29954
DAS No:
SDG No: T00J2, T00J3

L

25

Date Shipped: 11/7/01	Date Received/Received by: 11/8/01 Alice Eiro	Sampler (Signature): Paul Mason	
Carrier Name: FedEx	Lab Contract No: C5-49611 Unit Price: $514.40	Relinquished By: Paul Mason	Date / Time: 11-7-01 6:15p	Received By:
Airbill: 832620621147		Relinquished By:	Date / Time: 11-8-01 1005	Received By:
Shipped to: Liberty Analytical 501 Madison Avenue Cary NC 27513 (919) 379-4080	Transfer To:	Relinquished By:	Date / Time:	Received By:
	Date Received/Received By:			
	Lab Contract No: Price:			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00J2	Sediment/ Paul Mason	L/G	BNA/PEST (21), VOA (21)	5-59969 (Ice Only), 5-59970 (Ice Only) (2)	X204	11/7/01 9:00	ME00J2	GOOD
E00J3	Surface Water/ Paul Mason	L/G	BNA (21), PEST (21), VOA (21)	5-59975 (Ice Only), 5-59976 (Ice Only), 5-59977 (Ice Only), 5-59978 (Ice Only), 5-59979 (Ice Only), 5-59980 (Ice Only), 5-59981 (HCL), 5-59982 (HCL), 5-59983 (HCL), 5-59984 (HCL), 5-59985 (HCL), 5-59986 (HCL) (12)	S104	11/7/01 9:00	ME00J3	
E00J4	Surface Water/ Paul Mason	L/G	BNA (21), PEST (21), VOA (21)	5-59988 (Ice Only), 5-59989 (Ice Only), 5-59990 (HCL), 5-59991 (HCL) (4)	S114	11/7/01 10:40	ME00J4	
E00J5	Surface Water/ Paul Mason	L/G	BNA (21), PEST (21), VOA (21)	5 59993 (Ice Only), 5-59994 (Ice Only), 5-59995 (HCL), 5-59996 (HCL) (4)	S101	11/7/01 11:15	ME00J5	
E00J6	Sediment/ Paul Mason	L/G	BNA/PEST (21), VOA (21)	5-59998 (Ice Only), 5-59999 (Ice Only) (2)	X201	11/7/01 11:30	ME00J6	
E00J7	Sediment/ Paul Mason	L/G	BNA/PEST (21), VOA (21)	5-122284 (Ice Only), 5-122285 (Ice Only) (2)	X215	11/7/01 12:00	ME00J7	
E00J8	Sediment/ Paul Mason	L/G	BNA/PEST (21), VOA (21)	5-122288 (Ice Only), 5-122289 (Ice Only) (2)	X214	11/7/01 12:15	ME00J8	
E00J9	Sediment/ Paul Mason	L/G	BNA/PEST (21), VOA (21)	5-122292 (Ice Only), 5-122293 (Ice Only) (2)	X250	11/7/01 12:15	ME00J9	

ORIGINAL

Trip Blank

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E00G6, E00J2, E00J3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number: 81135-81137, 81139-81141
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy t/ ntract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Restor 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-110701-0001

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 29954
DAS No:
SDG No: E00J3, E00J2

L

Date Shipped: 11/7/01 Carrier Name: FedEx Airbill: 832620621147 Shipped to: Liberty Analytical 501 Madison Avenue Cary NC 27513 (919) 379-4080	Date Received/Received by: 11/8/01 Alice Evans Lab Contract No: [illegible] Unit Price: 51440 Transfer To: Date Received/Received By: Lab Contract No: Price:	Samples (Signature): [signature]	
		Relinquished By: [signature]	Date / Time: 11-7-01 6:15p	Received By:
		Relinquished By:	Date / Time: 11-8-01 1105	Received By: [signature]
		Relinquished By:	Date / Time:	Received By:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00K0	Surface Water/ Paul Mason	L/G	VOA (21)	5-122295 (HCL), 5-122296 (HCL) (2)	Trip Blank	11/7/01 15:48		
E00K1	Sediment/ Paul Mason	L/G	VOA (21)	5-122297 (Ice Only) (1)	X213	11/7/01 12:30		
E00K2	Sediment/ Paul Mason	L/G	BNA/PEST (21), VOA (21)	5-059001 (Ice Only), 5-59002 (Ice Only) (2)	X212	11/7/01 13:00	ME00K2	
E00K3	Sediment/ Paul Mason	L/G	BNA/PEST (21), VOA (21)	5-59005 (Ice Only), 5-59006 (Ice Only) (2)	X205	11/7/01 15:15	ME00K3	
E00K4	Sediment/ Paul Mason	L/G	BNA/PEST (21), VOA (21)	5-122301 (Ice Only), 5-59009 (Ice Only) (2)	X203	11/7/01 15.45	ME00K4	
E00K5	Surface Water/ Paul Mason	M/G	BNA (21), PEST (21), VOA (21)	5-122304 (Ice Only), 5-122305 (Ice Only), 5-122306 (HCL), 5-122307 (HCL) (4)	S103	11/7/01 15 45	ME00K5	
E00K6	Surface Water/ Paul Mason	L/G	BNA (21), PEST (21), VOA (21)	5-122309 (Ice Only), 5-122310 (Ice Only), 5-122311 (HCL), 5-122312 (HCL) (4)	S106	11/7/01 16.15	ME00K6	
E00K7	Surface Water/ Paul Mason	L/G	BNA (21), PEST (21), VOA (21)	5-122314 (Ice Only), 5-122315 (Ice Only), 5-122316 (HCL), 5-122317 (HCL) (4)	S150	11/7/01 16 15	ME00K7	
E00K8	Surface Water/ Paul Mason	L/G	BNA (21), PEST (21), VOA (21)	5-122319 (Ice Only), 5-122320 (Ice Only), 5-122321 (HCL), 5-143958 (HCL) (4)	Field Blank	11/7/01 17:00	ME00K8	
E00K9	Sediment/ Paul Mason	M/G	BNA/PEST (21), VOA (21)	5-143960 (Ice Only), 5-143961 (Ice Only), 5-143962 (Ice Only) (3)	X206	11/7/01 16 15	ME00K9	

ORIGINAL

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E00G6, E00J2, E00J3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: 81135-81137, 81137-81141
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston 20191-3436 Phone 703/264-9348 Fax 703/264 9222

TR Number: 5-324306854-110701-0001

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 29954
DAS No:
SDG No: E00J2, E00J3

L

Date Shipped: 11/8/01 Carrier Name: FedEx Airbill: 832620621170 Shipped to: Liberty Analytical 501 Madison Avenue Cary NC 27513 (919) 379-4080	Date Received/Received by: [illegible] Lab Contract No: [illegible] Unit Price: 314.40 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): [illegible] 11/08/01	
		Relinquished By: [illegible]	Date / Time: 11/08/01 1530 / Received By:
		Relinquished By:	Date / Time: / Received By:
		Relinquished By:	Date / Time: 11/9/01 9:00 / Received By: [illegible]

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00L0	Surface Soil (0"-12")/ Mark Wagner	L/G	BNA (21)	5-143964 (Ice Only) (1)	X145	11/8/01 8:05	ME00L0	[illegible]
E00L1	Surface Soil (0"-12")/ Mark Wagner	L/G	BNA (21)	5-143966 (Ice Only) (1)	X120	11/8/01 8:25	ME00L1	
E00L2	Sediment/ Mark Wagner	M/G	BNA/PEST (21), VOA (21)	5-143968 (Ice Only), 5-143969 (Ice Only), 5-143970 (Ice Only) (3)	X207	11/8/01 8:45	ME00L2	
E00L3	Sediment/ Mark Wagner	L/G	BNA/PEST (21), VOA (21)	5-143972 (Ice Only), 5-143973 (Ice Only), 5-143974 (Ice Only) (3)	X209	11/8/01 10:05	ME00L3	
E00L4	Sediment/ Mark Wagner	L/G	BNA/PEST (21), VOA (21)	5-143976 (Ice Only), 5-143977 (Ice Only), 5-143978 (Ice Only) (3)	X208	11/8/01 9:45	ME00L4	
E00L5	Sediment/ Mark Wagner	L/G	BNA/PEST (21), VOA (21)	5-143980 (Ice Only), 5-143981 (Ice Only), 5-143982 (Ice Only) (3)	X211	11/8/01 11:10	ME00L5	
E00L6	Sediment/ Mark Wagner	L/G	BNA/PEST (21), VOA (21)	5-143984 (Ice Only), 5-143985 (Ice Only), 5-143986 (Ice Only) (3)	X210	11/8/01 10:40	ME00L6	
E00L7	Surface Soil (0"-12")/ Mark Wagner	L/G	BNA (21)	5-143988 (Ice Only) (1)	X101	11/8/01 12:20	ME00L7	
E00L8	Surface Water/ Mark Wagner	L/G	BNA (21), PEST (21), VOA (21)	5-143990 (Ice Only), 5-143991 (Ice Only), 5-143992 (HCL), 5-163975 (HCL) (4)	S102	11/8/01 13:20	ME00L8	[illegible]

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number: 26006-26007
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact?	Shipment Iced?

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy t[illegible]ntract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Resto[illegible] 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-110801-0001

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 29954
DAS No:
SDG No: L00[illegible]2

L

Date Shipped: 11/8/01 **Carrier Name:** FedEx **Airbill:** 832620621170 **Shipped to:** Liberty Analytical 501 Madison Avenue Cary NC 27513 (919) 379-4080	**Date Received/Received by:** [illegible] **Lab Contract No:** 68W0[illegible] **Unit Price:** 514.40 **Transfer To:** **Date Received/Received By:** **Lab Contract No:** **Price:**	**Sampler (Signature):** [illegible] 11/08/01	
		Relinquished By: [illegible]	**Date / Time:** 11/08/01 1530 — **Received By:**
		Relinquished By:	**Date / Time:** — **Received By:**
		Relinquished By:	**Date / Time:** 11/9/01 19:00 — **Received By:** [illegible]

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00L9	Soil/Sediment/ Mark Wagner	L/G	BNA/PEST (21), VOA (21)	5-143995 (Ice Only), 5-143996 (Ice Only), 5-143997 (Ice Only) (3)	X202	11/8/01 13:20	ME00L9	[illegible]

Shipment for Case Complete? Y	**Sample(s) to be used for laboratory QC:**	**Additional Sampler Signature(s):**	**Cooler Temperature Upon Receipt:** [illegible]	**Chain of Custody Seal Number:** 26006 - 26007
Analysis Key:	**Concentration:** L = Low, M = Low/Medium, H = High	**Type/Designate:** Composite = C, Grab = G		**Custody Seal Intact?** Y — **Shipment Iced?** Y

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles

PR provides p[illegible]liminary results. Requests for preliminary results will increase analytical costs.
Send Copy to [illegible]ntract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston [illegible]20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-110801-0001

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKWG	104	103	99		0
02	E00J2MS	111	93	95		0
03	E00J2MSD	110	91	98		0
04	E00J2	111	92	99		0
05	E00J6	120	83	98		0
06	E00J8	111	95	99		0
07	E00J9	103	100	99		0
08	E00K1	109	97	98		0
09	E00K2	114	86	99		0
10	E00K3	118	86	96		0
11	E00K4	126	88	99		0
12	VBLKXD	97	103	100		0
13	E00J7	98	101	102		0
14	E00K9	97	103	103		0
15	E00L3	104	97	104		0
16	E00L4	105	88	104		0
17	E00L5	103	90	108		0
18	E00L6	114	81	105		0
19	E00L2	97	103	102		0
20	VBLKXE	102	101	100		0
21	E00L5RE	108	86	104		0
22	E00L9	106	88	101		0
23	VHBLKWG	99	99	104		0
24						
25						
26						
27						
28						
29						
30						

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(84-138)
SMC2 (BFB)	= Bromofluorobenzene	(59-113)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3B
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix Spike - EPA Sample No.: E00J2 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	100.0	0.00	139.5	140	59-172
Trichloroethene	100.0	0.00	106.5	107	62-137
Benzene	100.0	0.00	112.3	112	66-142
Toluene	100.0	0.00	113.6	114	59-139
Chlorobenzene	100.0	0.00	102.9	103	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	100.0	138.1	138	1	22	59-172
Trichloroethene	100.0	99.70	100	7	24	62-137
Benzene	100.0	106.4	106	6	21	66-142
Toluene	100.0	105.5	106	7	21	59-139
Chlorobenzene	100.0	93.98	94	9	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKWG

b Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Lab File ID: WG14095-1A51 Lab Sample ID: WG14095-1

Date Analyzed: 11/15/01 Time Analyzed: 1235

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: F50051

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E00J2MS	WG14095-4	WG14095-4A51	1536
02	E00J2MSD	WG14095-5	WG14095-5A51	1606
03	E00J2	E00J2-1	E00J2-1RA51	1636
04	E00J6	E00J2-2	E00J2-2A51	1707
05	E00J8	E00J2-4	E00J2-4A51	1807
06	E00J9	E00J2-5	E00J2-5A51	1837
07	E00K1	E00J2-6	E00J2-6A51	1907
08	E00K2	E00J2-7	E00J2-7A51	1938
09	E00K3	E00J2-8	E00J2-8A51	2008
10	E00K4	E00J2-9	E00J2-9A51	2038
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKXD

b Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Lab File ID: WG14102-1B51 Lab Sample ID: WG14102-1

Date Analyzed: 11/15/01 Time Analyzed: 2258

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: F50051

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E00J7	E00J2-3	E00J2-3RB51	2340
02	E00K9	E00J2-10	E00J2-10D51	0010
03	E00L3	E00J2-14	E00J2-14B51	0110
04	E00L4	E00J2-15	E00J2-15B51	0141
05	E00L5	E00J2-16	E00J2-16B51	0211
06	E00L6	E00J2-17	E00J2-17B51	0241
07	E00L2	E00J2-13	E00J2-13B51	0341
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKXE

b Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Lab File ID: WG14102-2A51 Lab Sample ID: WG14102-2

Date Analyzed: 11/16/01 Time Analyzed: 1149

GC Column: DB624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: F50051

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E00L5RE	E00J2-16	E00J2-16RA51	1343
02	E00L9	E00J2-19	E00J2-19RA51	1413
03	VHBLKWG	WG14095-6	WG14095-6RA5	1644
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-1

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-1RA51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 50 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	20	U
74-87-3	Chloromethane	20	U
75-01-4	Vinyl Chloride	20	U
74-83-9	Bromomethane	20	U
75-00-3	Chloroethane	20	U
75-69-4	Trichlorofluoromethane	20	U
75-35-4	1,1-Dichloroethene	20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20	U
67-64-1	Acetone	7	J
75-15-0	Carbon Disulfide	20	U
79-20-9	Methyl Acetate	20	U
75-09-2	Methylene Chloride	20	U
156-60-5	trans-1,2-Dichloroethene	20	U
1634-04-4	Methyl-tert-butyl ether	20	U
75-34-3	1,1-Dichloroethane	20	U
156-59-2	cis-1,2-Dichloroethene	20	U
78-93-3	2-Butanone	20	U
67-66-3	Chloroform	20	U
71-55-6	1,1,1-Trichloroethane	20	U
110-82-7	Cyclohexane	20	U
56-23-5	Carbon Tetrachloride	20	U
71-43-2	Benzene	20	U
107-06-2	1,2-Dichloroethane	20	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-1

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-1RA51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 50 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	20	U
108-87-2	Methylcyclohexane	20	U
78-87-5	1,2-Dichloropropane	20	U
75-27-4	Bromodichloromethane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
108-10-1	4-Methyl-2-Pentanone	20	U
108-88-3	Toluene	20	U
10061-02-6	trans-1,3-Dichloropropene	20	U
79-00-5	1,1,2-Trichloroethane	20	U
127-18-4	Tetrachloroethene	20	U
591-78-6	2-Hexanone	20	U
124-48-1	Dibromochloromethane	20	U
106-93-4	1,2-Dibromoethane	20	U
108-90-7	Chlorobenzene	20	U
100-41-4	Ethylbenzene	20	U
1330-20-7	Xylene (Total)	20	U
100-42-5	Styrene	20	U
75-25-2	Bromoform	20	U
98-82-8	Isopropylbenzene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
95-50-1	1,2-Dichlorobenzene	20	U
96-12-8	1,2-Dibromo-3-Chloropropane	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00J2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-1

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-1RA51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 50 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	14.65	36	JB
2.	LABORATORY ARTIFACT	15.97	44	JB
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.				

FORM I VOA-TIC OLM04.2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-2

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-2A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 63 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	27	U
74-87-3	Chloromethane	27	U
75-01-4	Vinyl Chloride	27	U
74-83-9	Bromomethane	27	U
75-00-3	Chloroethane	27	U
75-69-4	Trichlorofluoromethane	27	U
75-35-4	1,1-Dichloroethene	27	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	27	U
67-64-1	Acetone	19	J
75-15-0	Carbon Disulfide	19	J
79-20-9	Methyl Acetate	27	U
75-09-2	Methylene Chloride	27	U
156-60-5	trans-1,2-Dichloroethene	27	U
1634-04-4	Methyl-tert-butyl ether	27	U
75-34-3	1,1-Dichloroethane	27	U
156-59-2	cis-1,2-Dichloroethene	27	U
78-93-3	2-Butanone	27	U
67-66-3	Chloroform	27	U
71-55-6	1,1,1-Trichloroethane	27	U
110-82-7	Cyclohexane	3	JB
56-23-5	Carbon Tetrachloride	27	U
71-43-2	Benzene	27	U
107-06-2	1,2-Dichloroethane	27	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-2

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-2A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 63 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	27	U
108-87-2	Methylcyclohexane	27	U
78-87-5	1,2-Dichloropropane	27	U
75-27-4	Bromodichloromethane	27	U
10061-01-5	cis-1,3-Dichloropropene	27	U
108-10-1	4-Methyl-2-Pentanone	27	U
108-88-3	Toluene	27	U
10061-02-6	trans-1,3-Dichloropropene	27	U
79-00-5	1,1,2-Trichloroethane	27	U
127-18-4	Tetrachloroethene	27	U
591-78-6	2-Hexanone	27	U
124-48-1	Dibromochloromethane	27	U
106-93-4	1,2-Dibromoethane	27	U
108-90-7	Chlorobenzene	27	U
100-41-4	Ethylbenzene	27	U
1330-20-7	Xylene (Total)	27	U
100-42-5	Styrene	27	U
75-25-2	Bromoform	27	U
98-82-8	Isopropylbenzene	27	U
79-34-5	1,1,2,2-Tetrachloroethane	27	U
541-73-1	1,3-Dichlorobenzene	27	U
106-46-7	1,4-Dichlorobenzene	4	JB
95-50-1	1,2-Dichlorobenzene	27	U
96-12-8	1,2-Dibromo-3-Chloropropane	27	U
120-82-1	1,2,4-Trichlorobenzene	27	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00J6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-2

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-2A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 63 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 31 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	14.65	78	J
2.	UNKNOWN	14.92	27	J
3.	SUBSTITUTED BENZENE	15.42	15	J
4.	UNKNOWN	15.73	36	J
5.	UNKNOWN	15.81	32	J
6.	UNKNOWN	15.87	15	J
7.	LABORATORY ARTIFACT	15.97	170	JB
8.	UNKNOWN	16.09	29	J
9. 2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	16.18	46	NJ
10.	UNKNOWN	16.35	21	J
11.	UNKNOWN	16.48	24	J
12.	UNKNOWN	16.69	31	J
13. 1618-22-0	NAPHTHALENE, DECAHYDRO-2,6-D	16.71	35	NJ
14.	UNKNOWN	16.77	25	J
15.	UNKNOWN	16.86	32	J
16.	UNKNOWN	16.89	32	J
17.	UNKNOWN	17.08	30	J
18.	UNKNOWN	17.16	49	J
19.	UNKNOWN	17.22	72	J
20.	UNKNOWN	17.24	28	J
21.	UNKNOWN	17.31	38	J
22.	UNKNOWN	17.36	48	J
23.	UNKNOWN	17.40	26	J
24.	UNKNOWN	17.46	16	J
25.	UNKNOWN	17.49	21	J
26.	UNKNOWN	17.55	33	J
27.	UNKNOWN	17.70	40	J
28.	UNKNOWN	17.80	14	J
29.	UNKNOWN	17.92	14	J
30.	UNKNOWN	18.08	33	J

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00J6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-2

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-2A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 63 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 31 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	18.32	25	J
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.

E00J7

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-3

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-3RB51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 61 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	26	U
74-87-3	Chloromethane	26	U
75-01-4	Vinyl Chloride	26	U
74-83-9	Bromomethane	26	U
75-00-3	Chloroethane	26	U
75-69-4	Trichlorofluoromethane	26	U
75-35-4	1,1-Dichloroethene	26	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	26	U
67-64-1	Acetone	28	
75-15-0	Carbon Disulfide	26	U
79-20-9	Methyl Acetate	26	U
75-09-2	Methylene Chloride	26	U
156-60-5	trans-1,2-Dichloroethene	26	U
1634-04-4	Methyl-tert-butyl ether	26	U
75-34-3	1,1-Dichloroethane	26	U
156-59-2	cis-1,2-Dichloroethene	26	U
78-93-3	2-Butanone	26	U
67-66-3	Chloroform	26	U
71-55-6	1,1,1-Trichloroethane	26	U
110-82-7	Cyclohexane	26	U
56-23-5	Carbon Tetrachloride	26	U
71-43-2	Benzene	26	U
107-06-2	1,2-Dichloroethane	26	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J7

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-3

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-3RB51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 61 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	26	U
108-87-2	Methylcyclohexane	26	U
78-87-5	1,2-Dichloropropane	26	U
75-27-4	Bromodichloromethane	26	U
10061-01-5	cis-1,3-Dichloropropene	26	U
108-10-1	4-Methyl-2-Pentanone	26	U
108-88-3	Toluene	26	U
10061-02-6	trans-1,3-Dichloropropene	26	U
79-00-5	1,1,2-Trichloroethane	26	U
127-18-4	Tetrachloroethene	26	U
591-78-6	2-Hexanone	26	U
124-48-1	Dibromochloromethane	26	U
106-93-4	1,2-Dibromoethane	26	U
108-90-7	Chlorobenzene	26	U
100-41-4	Ethylbenzene	26	U
1330-20-7	Xylene (Total)	26	U
100-42-5	Styrene	26	U
75-25-2	Bromoform	26	U
98-82-8	Isopropylbenzene	26	U
79-34-5	1,1,2,2-Tetrachloroethane	26	U
541-73-1	1,3-Dichlorobenzene	26	U
106-46-7	1,4-Dichlorobenzene	26	U
95-50-1	1,2-Dichlorobenzene	26	U
96-12-8	1,2-Dibromo-3-Chloropropane	26	U
120-82-1	1,2,4-Trichlorobenzene	26	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00J7

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-3

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-3RB51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 61 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	14.64	40	J
2.	LABORATORY ARTIFACT	15.96	71	JB
3.	LABORATORY ARTIFACT	17.19	15	JB
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.				

FORM I VOA-TIC OLM04.2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-4

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-4A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 68 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	31	U
74-87-3	Chloromethane	31	U
75-01-4	Vinyl Chloride	31	U
74-83-9	Bromomethane	31	U
75-00-3	Chloroethane	31	U
75-69-4	Trichlorofluoromethane	31	U
75-35-4	1,1-Dichloroethene	31	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	31	U
67-64-1	Acetone	14	J
75-15-0	Carbon Disulfide	31	U
79-20-9	Methyl Acetate	31	U
75-09-2	Methylene Chloride	31	U
156-60-5	trans-1,2-Dichloroethene	31	U
1634-04-4	Methyl-tert-butyl ether	31	U
75-34-3	1,1-Dichloroethane	31	U
156-59-2	cis-1,2-Dichloroethene	31	U
78-93-3	2-Butanone	31	U
67-66-3	Chloroform	31	U
71-55-6	1,1,1-Trichloroethane	31	U
110-82-7	Cyclohexane	5	JB
56-23-5	Carbon Tetrachloride	31	U
71-43-2	Benzene	31	U
107-06-2	1,2-Dichloroethane	31	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-4

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-4A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 68 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	31	U
108-87-2	Methylcyclohexane	31	U
78-87-5	1,2-Dichloropropane	31	U
75-27-4	Bromodichloromethane	31	U
10061-01-5	cis-1,3-Dichloropropene	31	U
108-10-1	4-Methyl-2-Pentanone	31	U
108-88-3	Toluene	31	U
10061-02-6	trans-1,3-Dichloropropene	31	U
79-00-5	1,1,2-Trichloroethane	31	U
127-18-4	Tetrachloroethene	31	U
591-78-6	2-Hexanone	31	U
124-48-1	Dibromochloromethane	31	U
106-93-4	1,2-Dibromoethane	31	U
108-90-7	Chlorobenzene	31	U
100-41-4	Ethylbenzene	31	U
1330-20-7	Xylene (Total)	31	U
100-42-5	Styrene	31	U
75-25-2	Bromoform	31	U
98-82-8	Isopropylbenzene	31	U
79-34-5	1,1,2,2-Tetrachloroethane	31	U
541-73-1	1,3-Dichlorobenzene	31	U
106-46-7	1,4-Dichlorobenzene	31	U
95-50-1	1,2-Dichlorobenzene	31	U
96-12-8	1,2-Dibromo-3-Chloropropane	31	U
120-82-1	1,2,4-Trichlorobenzene	31	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00J8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-4

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-4A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 68 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 29

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	14.65	83	JB
2. 586-62-9	CYCLOHEXENE, 1-METHYL-4-(1-M	15.30	31	NJ
3. 5989-27-5	D-LIMONENE	15.39	330	NJ
4. 99-85-4	1,4-CYCLOHEXADIENE, 1-METHYL	15.61	48	NJ
5.	UNKNOWN	15.63	27	J
6.	UNKNOWN	15.73	60	J
7. 586-62-9	CYCLOHEXENE, 1-METHYL-4-(1-M	15.87	99	NJ
8.	LABORATORY ARTIFACT	15.97	180	JB
9.	UNKNOWN	16.08	40	J
10.	UNKNOWN	16.17	34	J
11.	UNKNOWN	16.23	24	J
12.	UNKNOWN	16.37	25	J
13.	UNKNOWN	16.71	33	J
14.	UNKNOWN	16.77	20	J
15.	UNKNOWN	16.84	26	J
16.	UNKNOWN	16.89	31	J
17.	UNKNOWN	17.17	54	J
18.	UNKNOWN	17.30	24	J
19.	UNKNOWN	17.36	45	J
20.	UNKNOWN	17.45	21	J
21.	UNKNOWN	17.49	21	J
22.	UNKNOWN	17.56	30	J
23.	UNKNOWN	17.60	22	J
24.	UNKNOWN	17.64	26	J
25.	UNKNOWN	17.70	26	J
26.	UNKNOWN	18.23	32	J
27.	UNKNOWN	18.31	29	J
28. 544-85-4	DOTRIACONTANE	18.46	36	NJ
29.	UNKNOWN	18.91	17	J
30.				

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-5

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-5A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 65 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	29	U
74-87-3	Chloromethane	29	U
75-01-4	Vinyl Chloride	29	U
74-83-9	Bromomethane	29	U
75-00-3	Chloroethane	29	U
75-69-4	Trichlorofluoromethane	29	U
75-35-4	1,1-Dichloroethene	29	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	29	U
67-64-1	Acetone	29	U
75-15-0	Carbon Disulfide	29	U
79-20-9	Methyl Acetate	29	U
75-09-2	Methylene Chloride	29	U
156-60-5	trans-1,2-Dichloroethene	29	U
1634-04-4	Methyl-tert-butyl ether	29	U
75-34-3	1,1-Dichloroethane	29	U
156-59-2	cis-1,2-Dichloroethene	29	U
78-93-3	2-Butanone	29	U
67-66-3	Chloroform	29	U
71-55-6	1,1,1-Trichloroethane	29	U
110-82-7	Cyclohexane	12	JB
56-23-5	Carbon Tetrachloride	29	U
71-43-2	Benzene	29	U
107-06-2	1,2-Dichloroethane	29	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-5

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-5A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 65 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	29	U
108-87-2	Methylcyclohexane	29	U
78-87-5	1,2-Dichloropropane	29	U
75-27-4	Bromodichloromethane	29	U
10061-01-5	cis-1,3-Dichloropropene	29	U
108-10-1	4-Methyl-2-Pentanone	29	U
108-88-3	Toluene	29	U
10061-02-6	trans-1,3-Dichloropropene	29	U
79-00-5	1,1,2-Trichloroethane	29	U
127-18-4	Tetrachloroethene	29	U
591-78-6	2-Hexanone	29	U
124-48-1	Dibromochloromethane	29	U
106-93-4	1,2-Dibromoethane	29	U
108-90-7	Chlorobenzene	29	U
100-41-4	Ethylbenzene	29	U
1330-20-7	Xylene (Total)	29	U
100-42-5	Styrene	29	U
75-25-2	Bromoform	29	U
98-82-8	Isopropylbenzene	29	U
79-34-5	1,1,2,2-Tetrachloroethane	29	U
541-73-1	1,3-Dichlorobenzene	29	U
106-46-7	1,4-Dichlorobenzene	29	U
95-50-1	1,2-Dichlorobenzene	29	U
96-12-8	1,2-Dibromo-3-Chloropropane	29	U
120-82-1	1,2,4-Trichlorobenzene	29	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00J9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-5

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-5A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 65 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	14.66	65	JB
2.	LABORATORY ARTIFACT	15.98	63	JB
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.

E00K1

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-6

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-6A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	4	J
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	2	J
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K1

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-6

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-6A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	1	J
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	35	
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	31	B
95-50-1	1,2-Dichlorobenzene	2	JB
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00K1

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-6

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-6A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. _____ Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	14.66	11	JB
2.	LABORATORY ARTIFACT	15.98	11	JB
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.				

FORM I VOA-TIC OLM04.2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-7

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-7A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 58 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	24	U
74-87-3	Chloromethane	24	U
75-01-4	Vinyl Chloride	24	U
74-83-9	Bromomethane	24	U
75-00-3	Chloroethane	24	U
75-69-4	Trichlorofluoromethane	24	U
75-35-4	1,1-Dichloroethene	24	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24	U
67-64-1	Acetone	24	U
75-15-0	Carbon Disulfide	24	U
79-20-9	Methyl Acetate	24	U
75-09-2	Methylene Chloride	24	U
156-60-5	trans-1,2-Dichloroethene	24	U
1634-04-4	Methyl-tert-butyl ether	24	U
75-34-3	1,1-Dichloroethane	24	U
156-59-2	cis-1,2-Dichloroethene	24	U
78-93-3	2-Butanone	24	U
67-66-3	Chloroform	24	U
71-55-6	1,1,1-Trichloroethane	24	U
110-82-7	Cyclohexane	7	JB
56-23-5	Carbon Tetrachloride	24	U
71-43-2	Benzene	24	U
107-06-2	1,2-Dichloroethane	24	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-7

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-7A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 58 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	24	U
108-87-2	Methylcyclohexane	24	U
78-87-5	1,2-Dichloropropane	24	U
75-27-4	Bromodichloromethane	24	U
10061-01-5	cis-1,3-Dichloropropene	24	U
108-10-1	4-Methyl-2-Pentanone	24	U
108-88-3	Toluene	24	U
10061-02-6	trans-1,3-Dichloropropene	24	U
79-00-5	1,1,2-Trichloroethane	24	U
127-18-4	Tetrachloroethene	24	U
591-78-6	2-Hexanone	24	U
124-48-1	Dibromochloromethane	24	U
106-93-4	1,2-Dibromoethane	24	U
108-90-7	Chlorobenzene	24	U
100-41-4	Ethylbenzene	24	U
1330-20-7	Xylene (Total)	24	U
100-42-5	Styrene	24	U
75-25-2	Bromoform	24	U
98-82-8	Isopropylbenzene	24	U
79-34-5	1,1,2,2-Tetrachloroethane	24	U
541-73-1	1,3-Dichlorobenzene	24	U
106-46-7	1,4-Dichlorobenzene	6	JB
95-50-1	1,2-Dichlorobenzene	24	U
96-12-8	1,2-Dibromo-3-Chloropropane	24	U
120-82-1	1,2,4-Trichlorobenzene	24	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00K2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-7

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-7A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 58 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	14.65	87	JB
2.	UNKNOWN	14.91	35	J
3.	UNKNOWN	15.42	49	J
4.	UNKNOWN	15.73	92	J
5.	UNKNOWN	15.87	61	J
6.	LABORATORY ARTIFACT	15.97	220	JB
7.	UNKNOWN	16.08	68	J
8.	UNKNOWN	16.17	75	J
9.	UNKNOWN	16.23	46	J
10.	UNKNOWN	16.35	44	J
11. 1618-22-0	NAPHTHALENE, DECAHYDRO-2,6-D	16.71	67	NJ
12.	UNKNOWN	16.76	50	J
13.	UNKNOWN	16.86	68	J
14.	UNKNOWN	16.90	47	J
15.	UNKNOWN	16.94	100	J
16.	UNKNOWN	17.17	180	J
17.	UNKNOWN	17.36	83	J
18.	UNKNOWN	17.42	49	J
19.	UNKNOWN	17.50	60	J
20.	UNKNOWN	17.64	100	J
21.	UNKNOWN	17.73	79	J
22.	UNKNOWN	18.03	71	J
23.	UNKNOWN	18.07	82	J
24.	UNKNOWN	18.20	35	J
25.	UNKNOWN	18.23	62	J
26.	UNKNOWN	18.32	79	J
27.	UNKNOWN	18.51	45	J
28.	UNKNOWN	18.62	42	J
29.	UNKNOWN	18.91	51	J
30.	UNKNOWN	19.02	53	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-8

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-8A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 46 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	19	U
74-87-3	Chloromethane	19	U
75-01-4	Vinyl Chloride	19	U
74-83-9	Bromomethane	19	U
75-00-3	Chloroethane	19	U
75-69-4	Trichlorofluoromethane	19	U
75-35-4	1,1-Dichloroethene	19	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	19	U
67-64-1	Acetone	56	
75-15-0	Carbon Disulfide	4	J
79-20-9	Methyl Acetate	19	U
75-09-2	Methylene Chloride	4	J
156-60-5	trans-1,2-Dichloroethene	19	U
1634-04-4	Methyl-tert-butyl ether	19	U
75-34-3	1,1-Dichloroethane	19	U
156-59-2	cis-1,2-Dichloroethene	19	U
78-93-3	2-Butanone	18	J
67-66-3	Chloroform	19	U
71-55-6	1,1,1-Trichloroethane	19	U
110-82-7	Cyclohexane	3	JB
56-23-5	Carbon Tetrachloride	19	U
71-43-2	Benzene	19	U
107-06-2	1,2-Dichloroethane	19	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-8

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-8A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 46 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	19	U
108-87-2	Methylcyclohexane	19	U
78-87-5	1,2-Dichloropropane	19	U
75-27-4	Bromodichloromethane	19	U
10061-01-5	cis-1,3-Dichloropropene	19	U
108-10-1	4-Methyl-2-Pentanone	19	U
108-88-3	Toluene	5	J
10061-02-6	trans-1,3-Dichloropropene	19	U
79-00-5	1,1,2-Trichloroethane	19	U
127-18-4	Tetrachloroethene	19	U
591-78-6	2-Hexanone	19	U
124-48-1	Dibromochloromethane	19	U
106-93-4	1,2-Dibromoethane	19	U
108-90-7	Chlorobenzene	19	U
100-41-4	Ethylbenzene	19	U
1330-20-7	Xylene (Total)	19	U
100-42-5	Styrene	19	U
75-25-2	Bromoform	19	U
98-82-8	Isopropylbenzene	19	U
79-34-5	1,1,2,2-Tetrachloroethane	19	U
541-73-1	1,3-Dichlorobenzene	19	U
106-46-7	1,4-Dichlorobenzene	19	U
95-50-1	1,2-Dichlorobenzene	19	U
96-12-8	1,2-Dibromo-3-Chloropropane	19	U
120-82-1	1,2,4-Trichlorobenzene	19	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00K3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-8

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-8A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 46 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	14.66	38	JB
2.	LABORATORY ARTIFACT	15.98	49	JB
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.				

FORM I VOA-TIC OLM04.2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-9

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-9A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 21 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	13	U
74-87-3	Chloromethane	13	U
75-01-4	Vinyl Chloride	13	U
74-83-9	Bromomethane	13	U
75-00-3	Chloroethane	13	U
75-69-4	Trichlorofluoromethane	13	U
75-35-4	1,1-Dichloroethene	13	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	13	U
67-64-1	Acetone	10	J
75-15-0	Carbon Disulfide	13	U
79-20-9	Methyl Acetate	13	U
75-09-2	Methylene Chloride	13	U
156-60-5	trans-1,2-Dichloroethene	13	U
1634-04-4	Methyl-tert-butyl ether	13	U
75-34-3	1,1-Dichloroethane	13	U
156-59-2	cis-1,2-Dichloroethene	13	U
78-93-3	2-Butanone	13	U
67-66-3	Chloroform	13	U
71-55-6	1,1,1-Trichloroethane	13	U
110-82-7	Cyclohexane	13	U
56-23-5	Carbon Tetrachloride	13	U
71-43-2	Benzene	13	U
107-06-2	1,2-Dichloroethane	13	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-9

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-9A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 21 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	13	U
108-87-2	Methylcyclohexane	13	U
78-87-5	1,2-Dichloropropane	13	U
75-27-4	Bromodichloromethane	13	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-10-1	4-Methyl-2-Pentanone	13	U
108-88-3	Toluene	13	U
10061-02-6	trans-1,3-Dichloropropene	13	U
79-00-5	1,1,2-Trichloroethane	13	U
127-18-4	Tetrachloroethene	13	U
591-78-6	2-Hexanone	13	U
124-48-1	Dibromochloromethane	13	U
106-93-4	1,2-Dibromoethane	13	U
108-90-7	Chlorobenzene	13	U
100-41-4	Ethylbenzene	13	U
1330-20-7	Xylene (Total)	13	U
100-42-5	Styrene	13	U
75-25-2	Bromoform	13	U
98-82-8	Isopropylbenzene	13	U
79-34-5	1,1,2,2-Tetrachloroethane	13	U
541-73-1	1,3-Dichlorobenzene	13	U
106-46-7	1,4-Dichlorobenzene	13	U
95-50-1	1,2-Dichlorobenzene	13	U
96-12-8	1,2-Dibromo-3-Chloropropane	13	U
120-82-1	1,2,4-Trichlorobenzene	13	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00K4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-9

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-9A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 21 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	14.65	18	JB
2.	LABORATORY ARTIFACT	15.97	19	JB
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.				

FORM I VOA-TIC OLM04.2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-10

Sample wt/vol: 3.5(g/mL) G Lab File ID: E00J2-10D51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 40 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	24	U
74-87-3	Chloromethane	24	U
75-01-4	Vinyl Chloride	24	U
74-83-9	Bromomethane	24	U
75-00-3	Chloroethane	24	U
75-69-4	Trichlorofluoromethane	24	U
75-35-4	1,1-Dichloroethene	24	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24	U
67-64-1	Acetone	34	
75-15-0	Carbon Disulfide	24	U
79-20-9	Methyl Acetate	24	U
75-09-2	Methylene Chloride	24	U
156-60-5	trans-1,2-Dichloroethene	24	U
1634-04-4	Methyl-tert-butyl ether	24	U
75-34-3	1,1-Dichloroethane	24	U
156-59-2	cis-1,2-Dichloroethene	24	U
78-93-3	2-Butanone	24	U
67-66-3	Chloroform	24	U
71-55-6	1,1,1-Trichloroethane	24	U
110-82-7	Cyclohexane	24	U
56-23-5	Carbon Tetrachloride	24	U
71-43-2	Benzene	24	U
107-06-2	1,2-Dichloroethane	24	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-10

Sample wt/vol: 3.5(g/mL) G Lab File ID: E00J2-10D51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 40 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	24	U
108-87-2	Methylcyclohexane	9	J
78-87-5	1,2-Dichloropropane	24	U
75-27-4	Bromodichloromethane	24	U
10061-01-5	cis-1,3-Dichloropropene	24	U
108-10-1	4-Methyl-2-Pentanone	24	U
108-88-3	Toluene	24	U
10061-02-6	trans-1,3-Dichloropropene	24	U
79-00-5	1,1,2-Trichloroethane	24	U
127-18-4	Tetrachloroethene	24	U
591-78-6	2-Hexanone	24	U
124-48-1	Dibromochloromethane	24	U
106-93-4	1,2-Dibromoethane	24	U
108-90-7	Chlorobenzene	24	U
100-41-4	Ethylbenzene	24	U
1330-20-7	Xylene (Total)	24	U
100-42-5	Styrene	24	U
75-25-2	Bromoform	24	U
98-82-8	Isopropylbenzene	24	U
79-34-5	1,1,2,2-Tetrachloroethane	24	U
541-73-1	1,3-Dichlorobenzene	24	U
106-46-7	1,4-Dichlorobenzene	24	U
95-50-1	1,2-Dichlorobenzene	24	U
96-12-8	1,2-Dibromo-3-Chloropropane	24	U
120-82-1	1,2,4-Trichlorobenzene	24	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00K9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-10

Sample wt/vol: 3.5(g/mL) G Lab File ID: E00J2-10D51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 40 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	15.34	260	J
2.	UNKNOWN	15.41	200	J
3.	UNKNOWN	15.57	290	J
4.	UNKNOWN	15.66	190	J
5.	UNKNOWN	15.89	210	J
6.	LABORATORY ARTIFACT	15.97	340	JB
7.	UNKNOWN	16.08	290	J
8.	UNKNOWN	16.18	270	J
9.	UNKNOWN	16.25	390	J
10.	UNKNOWN	16.33	340	J
11.	UNKNOWN	16.55	200	J
12.	UNKNOWN	16.57	190	J
13.	UNKNOWN	16.69	380	J
14.	UNKNOWN	16.82	360	J
15.	UNKNOWN	16.93	200	J
16.	UNKNOWN	16.95	350	J
17.	UNKNOWN	17.13	240	J
18.	UNKNOWN	17.19	260	J
19.	UNKNOWN	17.24	200	J
20.	UNKNOWN	17.32	230	J
21.	SUBSTITUTED BENZENE	17.39	180	J
22.	UNKNOWN	17.49	240	J
23. 4706-90-5	BENZENE, 1,3-DIMETHYL-5-(1-M	17.56	260	NJ
24.	SUBSTITUTED NAPHTHALENE	17.65	220	J
25.	UNKNOWN	17.71	390	J
26.	SUBSTITUTED BENZENE	17.85	350	J
27.	SUBSTITUTED BENZENE	18.02	320	J
28.	SUBSTITUTED BENZENE	18.11	300	J
29.	SUBSTITUTED BENZENE	18.17	300	J
30.	UNKNOWN	18.37	210	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-13

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-13B51

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. 45 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	18	U
74-87-3	Chloromethane	18	U
75-01-4	Vinyl Chloride	18	U
74-83-9	Bromomethane	18	U
75-00-3	Chloroethane	18	U
75-69-4	Trichlorofluoromethane	18	U
75-35-4	1,1-Dichloroethene	18	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	18	U
67-64-1	Acetone	18	U
75-15-0	Carbon Disulfide	18	U
79-20-9	Methyl Acetate	18	U
75-09-2	Methylene Chloride	2	J
156-60-5	trans-1,2-Dichloroethene	18	U
1634-04-4	Methyl-tert-butyl ether	18	U
75-34-3	1,1-Dichloroethane	18	U
156-59-2	cis-1,2-Dichloroethene	18	U
78-93-3	2-Butanone	18	U
67-66-3	Chloroform	18	U
71-55-6	1,1,1-Trichloroethane	18	U
110-82-7	Cyclohexane	18	U
56-23-5	Carbon Tetrachloride	18	U
71-43-2	Benzene	18	U
107-06-2	1,2-Dichloroethane	18	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-13

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-13B51

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. 45 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	18	U
108-87-2	Methylcyclohexane	18	U
78-87-5	1,2-Dichloropropane	18	U
75-27-4	Bromodichloromethane	18	U
10061-01-5	cis-1,3-Dichloropropene	18	U
108-10-1	4-Methyl-2-Pentanone	18	U
108-88-3	Toluene	18	U
10061-02-6	trans-1,3-Dichloropropene	18	U
79-00-5	1,1,2-Trichloroethane	18	U
127-18-4	Tetrachloroethene	18	U
591-78-6	2-Hexanone	18	U
124-48-1	Dibromochloromethane	18	U
106-93-4	1,2-Dibromoethane	18	U
108-90-7	Chlorobenzene	18	U
100-41-4	Ethylbenzene	18	U
1330-20-7	Xylene (Total)	18	U
100-42-5	Styrene	18	U
75-25-2	Bromoform	18	U
98-82-8	Isopropylbenzene	18	U
79-34-5	1,1,2,2-Tetrachloroethane	18	U
541-73-1	1,3-Dichlorobenzene	18	U
106-46-7	1,4-Dichlorobenzene	18	U
95-50-1	1,2-Dichlorobenzene	18	U
96-12-8	1,2-Dibromo-3-Chloropropane	18	U
120-82-1	1,2,4-Trichlorobenzene	18	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00L2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-13

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-13B51

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. 45 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 14

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	14.65	57	J
2.	LABORATORY ARTIFACT	15.97	66	JB
3.	UNKNOWN	16.32	12	J
4.	UNKNOWN	16.57	12	J
5.	UNKNOWN	16.72	10	J
6.	UNKNOWN	17.13	12	J
7.	UNKNOWN	17.21	26	J
8.	UNKNOWN	17.36	17	J
9.	UNKNOWN	17.50	9	J
10.	UNKNOWN	17.52	12	J
11.	UNKNOWN	17.65	13	J
12.	UNKNOWN	17.75	11	J
13.	UNKNOWN	18.08	9	J
14.	UNKNOWN	18.22	10	J
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.

E00L3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-14

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-14B51

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. 67 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	30	U
74-87-3	Chloromethane	30	U
75-01-4	Vinyl Chloride	30	U
74-83-9	Bromomethane	30	U
75-00-3	Chloroethane	30	U
75-69-4	Trichlorofluoromethane	30	U
75-35-4	1,1-Dichloroethene	30	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	30	U
67-64-1	Acetone	33	
75-15-0	Carbon Disulfide	30	U
79-20-9	Methyl Acetate	30	U
75-09-2	Methylene Chloride	30	U
156-60-5	trans-1,2-Dichloroethene	30	U
1634-04-4	Methyl-tert-butyl ether	30	U
75-34-3	1,1-Dichloroethane	30	U
156-59-2	cis-1,2-Dichloroethene	30	U
78-93-3	2-Butanone	30	U
67-66-3	Chloroform	30	U
71-55-6	1,1,1-Trichloroethane	30	U
110-82-7	Cyclohexane	5	JB
56-23-5	Carbon Tetrachloride	30	U
71-43-2	Benzene	30	U
107-06-2	1,2-Dichloroethane	30	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-14

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-14B51

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. 67 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	30	U
108-87-2	Methylcyclohexane	3	J
78-87-5	1,2-Dichloropropane	30	U
75-27-4	Bromodichloromethane	30	U
10061-01-5	cis-1,3-Dichloropropene	30	U
108-10-1	4-Methyl-2-Pentanone	30	U
108-88-3	Toluene	30	U
10061-02-6	trans-1,3-Dichloropropene	30	U
79-00-5	1,1,2-Trichloroethane	30	U
127-18-4	Tetrachloroethene	30	U
591-78-6	2-Hexanone	30	U
124-48-1	Dibromochloromethane	30	U
106-93-4	1,2-Dibromoethane	30	U
108-90-7	Chlorobenzene	30	U
100-41-4	Ethylbenzene	30	U
1330-20-7	Xylene (Total)	30	U
100-42-5	Styrene	30	U
75-25-2	Bromoform	30	U
98-82-8	Isopropylbenzene	30	U
79-34-5	1,1,2,2-Tetrachloroethane	30	U
541-73-1	1,3-Dichlorobenzene	30	U
106-46-7	1,4-Dichlorobenzene	30	U
95-50-1	1,2-Dichlorobenzene	30	U
96-12-8	1,2-Dibromo-3-Chloropropane	30	U
120-82-1	1,2,4-Trichlorobenzene	30	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00L3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-14

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-14B51

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. 67 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 625-80-9	DIISOPROPYL SULFIDE	12.54	60	NJ
2.	LABORATORY ARTIFACT	12.59	18	J
3.	UNKNOWN	13.83	17	J
4.	UNKNOWN	14.00	17	J
5.	UNKNOWN	14.38	25	J
6.	LABORATORY ARTIFACT	14.65	40	J
7.	UNKNOWN	14.88	22	J
8.	UNKNOWN	15.33	17	J
9. 91-17-8	NAPHTHALENE, DECAHYDRO-	15.73	24	NJ
10.	LABORATORY ARTIFACT	15.97	66	JB
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC OLM04.2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-15

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-15B51

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. 52 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	21	U
74-87-3	Chloromethane	21	U
75-01-4	Vinyl Chloride	21	U
74-83-9	Bromomethane	21	U
75-00-3	Chloroethane	21	U
75-69-4	Trichlorofluoromethane	21	U
75-35-4	1,1-Dichloroethene	21	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21	U
67-64-1	Acetone	21	U
75-15-0	Carbon Disulfide	21	U
79-20-9	Methyl Acetate	21	U
75-09-2	Methylene Chloride	21	U
156-60-5	trans-1,2-Dichloroethene	21	U
1634-04-4	Methyl-tert-butyl ether	21	U
75-34-3	1,1-Dichloroethane	21	U
156-59-2	cis-1,2-Dichloroethene	21	U
78-93-3	2-Butanone	21	U
67-66-3	Chloroform	21	U
71-55-6	1,1,1-Trichloroethane	21	U
110-82-7	Cyclohexane	21	U
56-23-5	Carbon Tetrachloride	21	U
71-43-2	Benzene	21	U
107-06-2	1,2-Dichloroethane	21	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-15

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-15B51

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. 52 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	21	U
108-87-2	Methylcyclohexane	21	U
78-87-5	1,2-Dichloropropane	21	U
75-27-4	Bromodichloromethane	21	U
10061-01-5	cis-1,3-Dichloropropene	21	U
108-10-1	4-Methyl-2-Pentanone	21	U
108-88-3	Toluene	21	U
10061-02-6	trans-1,3-Dichloropropene	21	U
79-00-5	1,1,2-Trichloroethane	21	U
127-18-4	Tetrachloroethene	21	U
591-78-6	2-Hexanone	21	U
124-48-1	Dibromochloromethane	21	U
106-93-4	1,2-Dibromoethane	21	U
108-90-7	Chlorobenzene	21	U
100-41-4	Ethylbenzene	21	U
1330-20-7	Xylene (Total)	21	U
100-42-5	Styrene	21	U
75-25-2	Bromoform	21	U
98-82-8	Isopropylbenzene	21	U
79-34-5	1,1,2,2-Tetrachloroethane	21	U
541-73-1	1,3-Dichlorobenzene	21	U
106-46-7	1,4-Dichlorobenzene	21	U
95-50-1	1,2-Dichlorobenzene	21	U
96-12-8	1,2-Dibromo-3-Chloropropane	21	U
120-82-1	1,2,4-Trichlorobenzene	21	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00L4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-15

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-15B51

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. 52 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	15.98	54	JB
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.				

FORM I VOA-TIC OLM04.2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-16

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-16B51

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. 30 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	14	U
74-87-3	Chloromethane	14	U
75-01-4	Vinyl Chloride	14	U
74-83-9	Bromomethane	14	U
75-00-3	Chloroethane	14	U
75-69-4	Trichlorofluoromethane	14	U
75-35-4	1,1-Dichloroethene	14	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	14	U
67-64-1	Acetone	21	
75-15-0	Carbon Disulfide	14	U
79-20-9	Methyl Acetate	14	U
75-09-2	Methylene Chloride	14	U
156-60-5	trans-1,2-Dichloroethene	14	U
1634-04-4	Methyl-tert-butyl ether	14	U
75-34-3	1,1-Dichloroethane	14	U
156-59-2	cis-1,2-Dichloroethene	14	U
78-93-3	2-Butanone	14	U
67-66-3	Chloroform	14	U
71-55-6	1,1,1-Trichloroethane	14	U
110-82-7	Cyclohexane	14	U
56-23-5	Carbon Tetrachloride	14	U
71-43-2	Benzene	14	U
107-06-2	1,2-Dichloroethane	14	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-16

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-16B51

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. 30 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	14	U
108-87-2	Methylcyclohexane	14	U
78-87-5	1,2-Dichloropropane	14	U
75-27-4	Bromodichloromethane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
108-88-3	Toluene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
79-00-5	1,1,2-Trichloroethane	14	U
127-18-4	Tetrachloroethene	14	U
591-78-6	2-Hexanone	14	U
124-48-1	Dibromochloromethane	14	U
106-93-4	1,2-Dibromoethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
1330-20-7	Xylene (Total)	14	U
100-42-5	Styrene	14	U
75-25-2	Bromoform	14	U
98-82-8	Isopropylbenzene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
541-73-1	1,3-Dichlorobenzene	14	U
106-46-7	1,4-Dichlorobenzene	14	U
95-50-1	1,2-Dichlorobenzene	14	U
96-12-8	1,2-Dibromo-3-Chloropropane	14	U
120-82-1	1,2,4-Trichlorobenzene	14	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00L5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-16

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-16B51

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. 30 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	14.65	26	J
2.	LABORATORY ARTIFACT	15.97	36	JB
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.				

FORM I VOA-TIC OLM04.2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L5RE

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-16

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-16RA51

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. 30 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	14	U
74-87-3	Chloromethane	14	U
75-01-4	Vinyl Chloride	14	U
74-83-9	Bromomethane	14	U
75-00-3	Chloroethane	14	U
75-69-4	Trichlorofluoromethane	14	U
75-35-4	1,1-Dichloroethene	14	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	14	U
67-64-1	Acetone	12	J
75-15-0	Carbon Disulfide	14	U
79-20-9	Methyl Acetate	14	U
75-09-2	Methylene Chloride	14	U
156-60-5	trans-1,2-Dichloroethene	14	U
1634-04-4	Methyl-tert-butyl ether	14	U
75-34-3	1,1-Dichloroethane	14	U
156-59-2	cis-1,2-Dichloroethene	14	U
78-93-3	2-Butanone	14	U
67-66-3	Chloroform	14	U
71-55-6	1,1,1-Trichloroethane	14	U
110-82-7	Cyclohexane	3	JB
56-23-5	Carbon Tetrachloride	14	U
71-43-2	Benzene	14	U
107-06-2	1,2-Dichloroethane	14	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L5RE

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-16

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-16RA51

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. 30 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	14	U
108-87-2	Methylcyclohexane	14	U
78-87-5	1,2-Dichloropropane	14	U
75-27-4	Bromodichloromethane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
108-88-3	Toluene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
79-00-5	1,1,2-Trichloroethane	14	U
127-18-4	Tetrachloroethene	14	U
591-78-6	2-Hexanone	14	U
124-48-1	Dibromochloromethane	14	U
106-93-4	1,2-Dibromoethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
1330-20-7	Xylene (Total)	14	U
100-42-5	Styrene	14	U
75-25-2	Bromoform	14	U
98-82-8	Isopropylbenzene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
541-73-1	1,3-Dichlorobenzene	14	U
106-46-7	1,4-Dichlorobenzene	14	U
95-50-1	1,2-Dichlorobenzene	14	U
96-12-8	1,2-Dibromo-3-Chloropropane	14	U
120-82-1	1,2,4-Trichlorobenzene	14	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00L5RE

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-16

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-16RA51

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. 30 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	12.61	8	J
2.	LABORATORY ARTIFACT	14.65	40	JB
3.	LABORATORY ARTIFACT	15.97	63	JB
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.				

FORM I VOA-TIC OLM04.2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-17

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-17B51

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. 41 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	17	U
74-87-3	Chloromethane	17	U
75-01-4	Vinyl Chloride	17	U
74-83-9	Bromomethane	17	U
75-00-3	Chloroethane	17	U
75-69-4	Trichlorofluoromethane	17	U
75-35-4	1,1-Dichloroethene	17	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	17	U
67-64-1	Acetone	13	J
75-15-0	Carbon Disulfide	17	U
79-20-9	Methyl Acetate	17	U
75-09-2	Methylene Chloride	17	U
156-60-5	trans-1,2-Dichloroethene	17	U
1634-04-4	Methyl-tert-butyl ether	17	U
75-34-3	1,1-Dichloroethane	17	U
156-59-2	cis-1,2-Dichloroethene	17	U
78-93-3	2-Butanone	17	U
67-66-3	Chloroform	17	U
71-55-6	1,1,1-Trichloroethane	17	U
110-82-7	Cyclohexane	4	JB
56-23-5	Carbon Tetrachloride	17	U
71-43-2	Benzene	17	U
107-06-2	1,2-Dichloroethane	17	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-17

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-17B51

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. 41 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	17	U
108-87-2	Methylcyclohexane	17	U
78-87-5	1,2-Dichloropropane	17	U
75-27-4	Bromodichloromethane	17	U
10061-01-5	cis-1,3-Dichloropropene	17	U
108-10-1	4-Methyl-2-Pentanone	17	U
108-88-3	Toluene	17	U
10061-02-6	trans-1,3-Dichloropropene	17	U
79-00-5	1,1,2-Trichloroethane	17	U
127-18-4	Tetrachloroethene	17	U
591-78-6	2-Hexanone	17	U
124-48-1	Dibromochloromethane	17	U
106-93-4	1,2-Dibromoethane	17	U
108-90-7	Chlorobenzene	17	U
100-41-4	Ethylbenzene	17	U
1330-20-7	Xylene (Total)	17	U
100-42-5	Styrene	17	U
75-25-2	Bromoform	17	U
98-82-8	Isopropylbenzene	17	U
79-34-5	1,1,2,2-Tetrachloroethane	17	U
541-73-1	1,3-Dichlorobenzene	17	U
106-46-7	1,4-Dichlorobenzene	17	U
95-50-1	1,2-Dichlorobenzene	17	U
96-12-8	1,2-Dibromo-3-Chloropropane	17	U
120-82-1	1,2,4-Trichlorobenzene	17	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00L6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-17

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-17B51

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. 41 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	15.98	35	JB
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.

E00L9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-19

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-19RA51

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. 29 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	14	U
74-87-3	Chloromethane	14	U
75-01-4	Vinyl Chloride	14	U
74-83-9	Bromomethane	14	U
75-00-3	Chloroethane	14	U
75-69-4	Trichlorofluoromethane	14	U
75-35-4	1,1-Dichloroethene	14	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	14	U
67-64-1	Acetone	14	U
75-15-0	Carbon Disulfide	14	U
79-20-9	Methyl Acetate	14	U
75-09-2	Methylene Chloride	14	U
156-60-5	trans-1,2-Dichloroethene	14	U
1634-04-4	Methyl-tert-butyl ether	14	U
75-34-3	1,1-Dichloroethane	14	U
156-59-2	cis-1,2-Dichloroethene	14	U
78-93-3	2-Butanone	14	U
67-66-3	Chloroform	14	U
71-55-6	1,1,1-Trichloroethane	14	U
110-82-7	Cyclohexane	3	JB
56-23-5	Carbon Tetrachloride	14	U
71-43-2	Benzene	14	U
107-06-2	1,2-Dichloroethane	14	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-19

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-19RA51

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. 29 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	14	U
108-87-2	Methylcyclohexane	14	U
78-87-5	1,2-Dichloropropane	14	U
75-27-4	Bromodichloromethane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
108-10-1	4-Methyl-2-Pentanone	14	U
108-88-3	Toluene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
79-00-5	1,1,2-Trichloroethane	14	U
127-18-4	Tetrachloroethene	14	U
591-78-6	2-Hexanone	14	U
124-48-1	Dibromochloromethane	14	U
106-93-4	1,2-Dibromoethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethylbenzene	14	U
1330-20-7	Xylene (Total)	14	U
100-42-5	Styrene	14	U
75-25-2	Bromoform	14	U
98-82-8	Isopropylbenzene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
541-73-1	1,3-Dichlorobenzene	14	U
106-46-7	1,4-Dichlorobenzene	14	U
95-50-1	1,2-Dichlorobenzene	14	U
96-12-8	1,2-Dibromo-3-Chloropropane	14	U
120-82-1	1,2,4-Trichlorobenzene	14	U

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00L9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-19

Sample wt/vol: 5.0(g/mL) G Lab File ID: E00J2-19RA51

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: not dec. 29 Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	15.96	26	JB
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.

VBLKWG

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14095-1

Sample wt/vol: 5.0(g/mL) G Lab File ID: WG14095-1A51

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	5	J
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKWG

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14095-1

Sample wt/vol: 5.0(g/mL) G Lab File ID: WG14095-1A51

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	1	J
106-46-7	1,4-Dichlorobenzene	1	J
95-50-1	1,2-Dichlorobenzene	1	J
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	3	J

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKWG

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14095-1

Sample wt/vol: 5.0(g/mL) G Lab File ID: WG14095-1A51

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	9.48	9	J
2.	LABORATORY ARTIFACT	14.66	60	J
3.	LABORATORY ARTIFACT	15.98	32	J
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.				

FORM I VOA-TIC OLM04.2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKXD

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14102-1

Sample wt/vol: 5.0(g/mL) G Lab File ID: WG14102-1B51

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	4	J
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKXD

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14102-1

Sample wt/vol: 5.0(g/mL) G Lab File ID: WG14102-1B51

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	1	J
106-46-7	1,4-Dichlorobenzene	1	J
95-50-1	1,2-Dichlorobenzene	1	J
96-12-8	1,2-Dibromo-3-Chloropropane	1	J
120-82-1	1,2,4-Trichlorobenzene	3	J

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKXD

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14102-1

Sample wt/vol: 5.0(g/mL) G Lab File ID: WG14102-1B51

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	15.97	37	J
2.	LABORATORY ARTIFACT	17.19	6	J
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.				

FORM I VOA-TIC OLM04.2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKXE

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14102-2

Sample wt/vol: 5.0(g/mL) G Lab File ID: WG14102-2A51

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	8	J
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKXE

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14102-2

Sample wt/vol: 5.0(g/mL) G Lab File ID: WG14102-2A51

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	2	J
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	2	J
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	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
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	2	J

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKXE

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14102-2

Sample wt/vol: 5.0(g/mL) G Lab File ID: WG14102-2A51

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.72	7	J
2.	UNKNOWN	9.47	20	J
3.	LABORATORY ARTIFACT	14.65	82	J
4.	LABORATORY ARTIFACT	15.97	53	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.				

FORM I VOA-TIC OLM04.2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKWG

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14095-6

Sample wt/vol: 5.0(g/mL) G Lab File ID: WG14095-6RA51

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-butyl ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	6	JB
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKWG

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14095-6

Sample wt/vol: 5.0(g/mL) G Lab File ID: WG14095-6RA51

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	1	JB
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (Total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	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
96-12-8	1,2-Dibromo-3-Chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLKWG

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14095-6

Sample wt/vol: 5.0(g/mL) G Lab File ID: WG14095-6RA51

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/16/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.74	5	JB
2.	LABORATORY ARTIFACT	14.65	44	JB
3.	LABORATORY ARTIFACT	15.97	28	JB
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.				

FORM I VOA-TIC OLM04.2

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J2MS

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14095-4

Sample wt/vol: 5.0(g/mL) G Lab File ID: WG14095-4A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 50 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	20	U
74-87-3	Chloromethane	20	U
75-01-4	Vinyl Chloride	20	U
74-83-9	Bromomethane	20	U
75-00-3	Chloroethane	20	U
75-69-4	Trichlorofluoromethane	20	U
75-35-4	1,1-Dichloroethene	140	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20	U
67-64-1	Acetone	11	J
75-15-0	Carbon Disulfide	20	U
79-20-9	Methyl Acetate	20	U
75-09-2	Methylene Chloride	20	U
156-60-5	trans-1,2-Dichloroethene	20	U
1634-04-4	Methyl-tert-butyl ether	20	U
75-34-3	1,1-Dichloroethane	20	U
156-59-2	cis-1,2-Dichloroethene	20	U
78-93-3	2-Butanone	20	U
67-66-3	Chloroform	20	U
71-55-6	1,1,1-Trichloroethane	20	U
110-82-7	Cyclohexane	3	JB
56-23-5	Carbon Tetrachloride	20	U
71-43-2	Benzene	110	
107-06-2	1,2-Dichloroethane	20	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J2MS

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14095-4

Sample wt/vol: 5.0(g/mL) G Lab File ID: WG14095-4A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 50 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	110	
108-87-2	Methylcyclohexane	20	U
78-87-5	1,2-Dichloropropane	20	U
75-27-4	Bromodichloromethane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
108-10-1	4-Methyl-2-Pentanone	20	U
108-88-3	Toluene	110	
10061-02-6	trans-1,3-Dichloropropene	20	U
79-00-5	1,1,2-Trichloroethane	20	U
127-18-4	Tetrachloroethene	20	U
591-78-6	2-Hexanone	20	U
124-48-1	Dibromochloromethane	20	U
106-93-4	1,2-Dibromoethane	20	U
108-90-7	Chlorobenzene	100	
100-41-4	Ethylbenzene	20	U
1330-20-7	Xylene (Total)	20	U
100-42-5	Styrene	20	U
75-25-2	Bromoform	20	U
98-82-8	Isopropylbenzene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
95-50-1	1,2-Dichlorobenzene	20	U
96-12-8	1,2-Dibromo-3-Chloropropane	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J2MSD

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14095-5

Sample wt/vol: 5.0(g/mL) G Lab File ID: WG14095-5A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 50 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	20	U
74-87-3	Chloromethane	20	U
75-01-4	Vinyl Chloride	20	U
74-83-9	Bromomethane	20	U
75-00-3	Chloroethane	20	U
75-69-4	Trichlorofluoromethane	20	U
75-35-4	1,1-Dichloroethene	140	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20	U
67-64-1	Acetone	20	U
75-15-0	Carbon Disulfide	20	U
79-20-9	Methyl Acetate	20	U
75-09-2	Methylene Chloride	20	U
156-60-5	trans-1,2-Dichloroethene	20	U
1634-04-4	Methyl-tert-butyl ether	20	U
75-34-3	1,1-Dichloroethane	20	U
156-59-2	cis-1,2-Dichloroethene	20	U
78-93-3	2-Butanone	20	U
67-66-3	Chloroform	20	U
71-55-6	1,1,1-Trichloroethane	20	U
110-82-7	Cyclohexane	20	U
56-23-5	Carbon Tetrachloride	20	U
71-43-2	Benzene	110	
107-06-2	1,2-Dichloroethane	20	U

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J2MSD

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14095-5

Sample wt/vol: 5.0(g/mL) G Lab File ID: WG14095-5A51

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: not dec. 50 Date Analyzed: 11/15/01

GC Column: DB624 ID: 0.53 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	100	
108-87-2	Methylcyclohexane	20	U
78-87-5	1,2-Dichloropropane	20	U
75-27-4	Bromodichloromethane	20	U
10061-01-5	cis-1,3-Dichloropropene	20	U
108-10-1	4-Methyl-2-Pentanone	20	U
108-88-3	Toluene	110	
10061-02-6	trans-1,3-Dichloropropene	20	U
79-00-5	1,1,2-Trichloroethane	20	U
127-18-4	Tetrachloroethene	20	U
591-78-6	2-Hexanone	20	U
124-48-1	Dibromochloromethane	20	U
106-93-4	1,2-Dibromoethane	20	U
108-90-7	Chlorobenzene	94	
100-41-4	Ethylbenzene	20	U
1330-20-7	Xylene (Total)	20	U
100-42-5	Styrene	20	U
75-25-2	Bromoform	20	U
98-82-8	Isopropylbenzene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
541-73-1	1,3-Dichlorobenzene	20	U
106-46-7	1,4-Dichlorobenzene	20	U
95-50-1	1,2-Dichlorobenzene	20	U
96-12-8	1,2-Dibromo-3-Chloropropane	20	U
120-82-1	1,2,4-Trichlorobenzene	20	U

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Level: (low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLKFF	59	58	56	61	59	56	67	56	0
02	E00J2	54	52	56	58	56	60	62	45	0
03	E00J2MS	62	62	68	68	67	77	75	57	0
04	E00J2MSD	66	68	73	73	73	83	81	62	0
05	E00J6	61	60	80	68	67	82	74	53	0
06	E00J7	66	67	89	74	72	88	80	59	0
07	E00J8	57	56	73	62	61	77	69	53	0
08	E00J9	60	61	83	67	66	84	74	54	0
09	E00J6DL	65	64	78	72	71	81	78	57	0
10	E00J7DL	76	74	90	83	80	93	89	65	0
11	E00J8DL	63	66	76	69	69	80	76	59	0
12	E00J9DL	63	65	74	69	66	80	75	56	0
13	E00K3	67	70	108	75	73	88	82	59	0
14	E00K4	67	66	81	75	71	66	78	52	0
15	E00K9	73	91	40	61	59	47	69	51	0
16	E00L0	66	69	81	70	63	73	77	55	0
17	E00L1	66	67	79	69	63	73	76	54	0
18	E00L2	81	81	92	77	75	88	85	70	0
19	E00L3	53	56	72	57	52	63	63	43	0
20	E00L4	67	74	87	73	68	84	80	52	0
21	E00L5	61	61	91	64	61	70	71	48	0
22	E00L6	60	67	84	68	62	81	74	46	0
23	E00L7	77	76	94	81	72	72	84	61	0
24	E00L9	72	80	104	81	76	89	87	60	0
25	E00K3DL	82	87	122	89	82	91	97	73	0
26	E00K9RE	85	81	100	76	70	74	81	62	0
27	E00K2	58	64	90	65	61	71	71	48	0
28	E00L5RE	56	57	85	58	55	64	63	44	0
29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix Spike - EPA Sample No.: E00J2 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	5000	0.00	3276	66	26- 90
2-Chlorophenol	5000	0.00	3460	69	25-102
N-Nitroso-di-n-prop.(1)	3333	0.00	2480	74	41-126
4-Chloro-3-methylphenol	5000	0.00	3584	72	26-103
Acenaphthene	3333	76.48	2867	84	31-137
4-Nitrophenol	5000	0.00	5166	103	11-114
2,4-Dinitrotoluene	3333	0.00	2363	71	28- 89
Pentachlorophenol	5000	0.00	1239	25	17-109
Pyrene	3333	1833	6270	133	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	5000	3723	74	11	35	26- 90
2-Chlorophenol	5000	3944	79	14	50	25-102
N-Nitroso-di-n-prop.(1)	3333	2921	88	17	38	41-126
4-Chloro-3-methylphenol	5000	3991	80	11	33	26-103
Acenaphthene	3333	3327	98	15	19	31-137
4-Nitrophenol	5000	5986	120*	15	50	11-114
2,4-Dinitrotoluene	3333	2673	80	12	47	28- 89
Pentachlorophenol	5000	1443	29	15	47	17-109
Pyrene	3333	6915	152*	13	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 9 outside limits
Spike Recovery: 2 out of 18 outside limits

COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKFF

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Lab File ID: WG14287-1A66 Lab Sample ID: WG14287-1

Instrument ID: 5972HP66 Date Extracted: 11/17/01

Matrix: (soil/water) SOIL Date Analyzed: 11/29/01

Level:(low/med) LOW Time Analyzed: 1011

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E00J2	E00J2-1	E00J2-1A66	11/29/01
02	E00J2MS	WG14287-2	WG14287-2A66	11/29/01
03	E00J2MSD	WG14287-3	WG14287-3A66	11/29/01
04	E00J6	E00J2-2	E00J2-2A66	11/29/01
05	E00J7	E00J2-3	E00J2-3A66	11/29/01
06	E00J8	E00J2-4	E00J2-4A66	11/29/01
07	E00J9	E00J2-5	E00J2-5A66	11/29/01
08	E00J6DL	E00J2-2	E00J2-2DA66	11/29/01
09	E00J7DL	E00J2-3	E00J2-3DA66	11/29/01
10	E00J8DL	E00J2-4	E00J2-4DA66	11/29/01
11	E00J9DL	E00J2-5	E00J2-5DA66	11/29/01
12	E00K3	E00J2-8	E00J2-8A66	11/29/01
13	E00K4	E00J2-9	E00J2-9A66	11/29/01
14	E00K9	E00J2-10	E00J2-10A66	11/29/01
15	E00L0	E00J2-11	E00J2-11C66	11/30/01
16	E00L1	E00J2-12	E00J2-12C66	11/30/01
17	E00L2	E00J2-13	E00J2-13DC66	11/30/01
18	E00L3	E00J2-14	E00J2-14C66	11/30/01
19	E00L4	E00J2-15	E00J2-15DC66	11/30/01
20	E00L5	E00J2-16	E00J2-16C66	11/30/01
21	E00L6	E00J2-17	E00J2-17C66	11/30/01
22	E00L7	E00J2-18	E00J2-18C66	11/30/01
23	E00L9	E00J2-19	E00J2-19C66	11/30/01
24	E00K3DL	E00J2-8	E00J2-8DC66	11/30/01
25	E00K9RE	E00J2-10	E00J2-10DC66	11/30/01
26	E00K2	E00J2-7	E00J2-7DJC66	11/30/01
27	E00L5RE	E00J2-16	E00J2-16JC66	11/30/01
28				
29				
30				

COMMENTS:

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-1A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 50 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	26	U
108-95-2	Phenol	660	U
111-44-4	bis(2-Chloroethyl)ether	660	U
95-57-8	2-Chlorophenol	660	U
95-48-7	2-Methylphenol	660	U
108-60-1	2,2'-oxybis(1-Chloropropane)	660	U
98-86-2	Acetophenone	22	J
106-44-5	4-Methylphenol	37	J
621-64-7	N-Nitroso-di-n-propylamine	660	U
67-72-1	Hexachloroethane	660	U
98-95-3	Nitrobenzene	660	U
78-59-1	Isophorone	660	U
88-75-5	2-Nitrophenol	660	U
105-67-9	2,4-Dimethylphenol	660	U
111-91-1	bis(2-Chloroethoxy)methane	660	U
120-83-2	2,4-Dichlorophenol	660	U
91-20-3	Naphthalene	54	J
106-47-8	4-Chloroaniline	660	U
87-68-3	Hexachlorobutadiene	660	U
105-60-2	Caprolactam	660	U
59-50-7	4-Chloro-3-methylphenol	660	U
91-57-6	2-Methylnaphthalene	35	J
77-47-4	Hexachlorocyclopentadiene	660	U
88-06-2	2,4,6-Trichlorophenol	660	U
95-95-4	2,4,5-Trichlorophenol	1700	U
92-52-4	1,1'-Biphenyl	660	U
91-58-7	2-Chloronaphthalene	660	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	660	U
606-20-2	2,6-Dinitrotoluene	660	U
208-96-8	Acenaphthylene	650	J
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	76	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-1A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 50 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	38	J
121-14-2	2,4-Dinitrotoluene	660	U
84-66-2	Diethylphthalate	660	U
86-73-7	Fluorene	100	J
7005-72-3	4-Chlorophenyl-phenylether	660	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-nitrosodiphenylamine (1)	660	U
101-55-3	4-Bromophenyl-phenylether	660	U
118-74-1	Hexachlorobenzene	660	U
1912-24-9	Atrazine	660	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	630	J
120-12-7	Anthracene	380	J
86-74-8	Carbazole	43	J
84-74-2	Di-n-butylphthalate	660	U
206-44-0	Fluoranthene	1500	
129-00-0	Pyrene	1800	
85-68-7	Butylbenzylphthalate	18	J
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)anthracene	1200	
218-01-9	Chrysene	1500	
117-81-7	bis(2-Ethylhexyl)phthalate	470	JB
117-84-0	Di-n-octylphthalate	660	U
205-99-2	Benzo(b)fluoranthene	1200	
207-08-9	Benzo(k)fluoranthene	1100	
50-32-8	Benzo(a)pyrene	1400	
193-39-5	Indeno(1,2,3-cd)pyrene	560	J
53-70-3	Dibenzo(a,h)anthracene	230	J
191-24-2	Benzo(g,h,i)perylene	540	J

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E00J2

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-1A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 50 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-13-4	2,5-HEXANEDIONE	5.88	850	NJ
2. 610-48-0	ANTHRACENE, 1-METHYL-	13.84	730	NJ
3. 3674-65-5	PHENANTHRENE, 2,3-DIMETHYL-	14.46	580	NJ
4.	UNKNOWN	14.49	520	J
5.	UNKNOWN	14.60	410	J
6.	UNKNOWN	14.88	520	J
7. 243-17-4	11H-BENZO[B]FLUORENE	15.29	530	NJ
8. 2381-21-7	PYRENE, 1-METHYL-	15.44	1300	NJ
9.	UNKNOWN	15.52	680	J
10. 2381-21-7	PYRENE, 1-METHYL-	15.58	820	NJ
11.	UNKNOWN	15.71	920	J
12. 243-17-4	11H-BENZO[B]FLUORENE	15.76	620	NJ
13.	UNKNOWN ACID ESTER	15.95	360	J
14.	UNKNOWN	16.01	750	J
15. 82-05-3	7H-BENZ[DE]ANTHRACEN-7-ONE	16.22	590	NJ
16.	UNKNOWN	16.44	790	J
17. 2422-79-9	BENZ[A]ANTHRACENE, 12-METHYL	17.67	650	NJ
18. 3351-28-8	CHRYSENE, 1-METHYL-	17.86	480	NJ
19. 3697-24-3	CHRYSENE, 5-METHYL-	17.99	720	NJ
20.	UNKNOWN PHTHALATE	18.21	780	J
21.	UNKNOWN PHTHALATE	19.17	820	J
22.	UNKNOWN PHTHALATE	19.33	690	J
23. 205-82-3	BENZO[J]FLUORANTHENE	19.70	590	NJ
24. 198-55-0	PERYLENE	20.12	950	NJ
25.	UNKNOWN	23.40	1000	J
26.	UNKNOWN	24.07	490	J
27.	UNKNOWN	25.73	600	J
28. 0-00-0	ACETAMIDE, N-METHYL-N-[4-[3-	25.86	510	NJ
29.	UNKNOWN	26.98	1600	J
30.	UNKNOWN	27.40	3500	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-2A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 63 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	130	J
108-95-2	Phenol	890	U
111-44-4	bis(2-Chloroethyl)ether	890	U
95-57-8	2-Chlorophenol	890	U
95-48-7	2-Methylphenol	890	U
108-60-1	2,2'-oxybis(1-Chloropropane)	890	U
98-86-2	Acetophenone	94	J
106-44-5	4-Methylphenol	150	J
621-64-7	N-Nitroso-di-n-propylamine	890	U
67-72-1	Hexachloroethane	890	U
98-95-3	Nitrobenzene	890	U
78-59-1	Isophorone	890	U
88-75-5	2-Nitrophenol	890	U
105-67-9	2,4-Dimethylphenol	890	U
111-91-1	bis(2-Chloroethoxy)methane	890	U
120-83-2	2,4-Dichlorophenol	890	U
91-20-3	Naphthalene	170	J
106-47-8	4-Chloroaniline	890	U
87-68-3	Hexachlorobutadiene	890	U
105-60-2	Caprolactam	890	U
59-50-7	4-Chloro-3-methylphenol	890	U
91-57-6	2-Methylnaphthalene	170	J
77-47-4	Hexachlorocyclopentadiene	890	U
88-06-2	2,4,6-Trichlorophenol	890	U
95-95-4	2,4,5-Trichlorophenol	2200	U
92-52-4	1,1'-Biphenyl	50	J
91-58-7	2-Chloronaphthalene	890	U
88-74-4	2-Nitroaniline	2200	U
131-11-3	Dimethylphthalate	890	U
606-20-2	2,6-Dinitrotoluene	890	U
208-96-8	Acenaphthylene	280	J
99-09-2	3-Nitroaniline	2200	U
83-32-9	Acenaphthene	240	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-2A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 63 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2200	U
100-02-7	4-Nitrophenol	2200	U
132-64-9	Dibenzofuran	190	J
121-14-2	2,4-Dinitrotoluene	890	U
84-66-2	Diethylphthalate	890	U
86-73-7	Fluorene	360	J
7005-72-3	4-Chlorophenyl-phenylether	890	U
100-01-6	4-Nitroaniline	2200	U
534-52-1	4,6-Dinitro-2-methylphenol	2200	U
86-30-6	N-nitrosodiphenylamine (1)	430	J
101-55-3	4-Bromophenyl-phenylether	890	U
118-74-1	Hexachlorobenzene	890	U
1912-24-9	Atrazine	890	U
87-86-5	Pentachlorophenol	2200	U
85-01-8	Phenanthrene	2800	
120-12-7	Anthracene	690	J
86-74-8	Carbazole	460	J
84-74-2	Di-n-butylphthalate	890	U
206-44-0	Fluoranthene	5600	
129-00-0	Pyrene	5800	
85-68-7	Butylbenzylphthalate	280	J
91-94-1	3,3'-Dichlorobenzidine	890	U
56-55-3	Benzo(a)anthracene	3300	
218-01-9	Chrysene	3200	
117-81-7	bis(2-Ethylhexyl)phthalate	9600	EB
117-84-0	Di-n-octylphthalate	2200	
205-99-2	Benzo(b)fluoranthene	5300	
207-08-9	Benzo(k)fluoranthene	2200	
50-32-8	Benzo(a)pyrene	3000	
193-39-5	Indeno(1,2,3-cd)pyrene	1500	
53-70-3	Dibenzo(a,h)anthracene	510	J
191-24-2	Benzo(g,h,i)perylene	1300	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM04.2

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00J6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-2A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 63 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 4537-15-9	BENZENE, (1-BUTYLHEPTYL)-	11.85	3200	NJ
2. 2719-63-3	BENZENE, (1-BUTYLOCTYL)-	12.48	1700	NJ
3.	UNKNOWN	13.20	700	J
4.	UNKNOWN	13.34	1600	J
5.	UNKNOWN	13.39	800	J
6.	UNKNOWN	13.47	850	J
7.	UNKNOWN	13.76	2400	J
8.	UNKNOWN	13.91	1900	J
9.	UNKNOWN	14.02	1800	J
10.	ANTHRACENEDIONE	14.18	1500	J
11.	UNKNOWN	14.23	710	J
12.	UNKNOWN	14.54	1900	J
13.	UNKNOWN	14.79	1200	J
14.	UNKNOWN	14.84	1400	J
15.	UNKNOWN	15.10	1200	J
16. 2381-21-7	PYRENE, 1-METHYL-	15.35	1300	NJ
17.	UNKNOWN	15.42	1600	J
18.	UNKNOWN	15.47	1300	J
19. 243-17-4	11H-BENZO[B]FLUORENE	15.50	1300	NJ
20.	UNKNOWN	15.65	2200	J
21.	UNKNOWN	15.82	1700	J
22. 103-23-1	HEXANEDIOIC ACID, BIS(2-ETHY	16.01	810	NJ
23.	UNKNOWN PHTHALATE	19.45	1400	J
24.	BENZOFLUORANTHENE	19.84	1600	J
25.	UNKNOWN	20.26	3900	J
26.	UNKNOWN	21.06	2300	J
27.	UNKNOWN	21.70	2600	J
28.	UNKNOWN	22.09	4500	J
29.	UNKNOWN	24.18	1800	J
30.	UNKNOWN	25.03	5000	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J6DL

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-2DA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 63 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	140	DJ
108-95-2	Phenol	1800	U
111-44-4	bis(2-Chloroethyl)ether	1800	U
95-57-8	2-Chlorophenol	1800	U
95-48-7	2-Methylphenol	1800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1800	U
98-86-2	Acetophenone	100	DJ
106-44-5	4-Methylphenol	170	DJ
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
91-20-3	Naphthalene	180	DJ
106-47-8	4-Chloroaniline	1800	U
87-68-3	Hexachlorobutadiene	1800	U
105-60-2	Caprolactam	1800	U
59-50-7	4-Chloro-3-methylphenol	1800	U
91-57-6	2-Methylnaphthalene	180	DJ
77-47-4	Hexachlorocyclopentadiene	1800	U
88-06-2	2,4,6-Trichlorophenol	1800	U
95-95-4	2,4,5-Trichlorophenol	4500	U
92-52-4	1,1'-Biphenyl	53	DJ
91-58-7	2-Chloronaphthalene	1800	U
88-74-4	2-Nitroaniline	4500	U
131-11-3	Dimethylphthalate	1800	U
606-20-2	2,6-Dinitrotoluene	1800	U
208-96-8	Acenaphthylene	300	DJ
99-09-2	3-Nitroaniline	4500	U
83-32-9	Acenaphthene	260	DJ

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J6DL

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-2DA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 63 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

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	190	DJ
121-14-2	2,4-Dinitrotoluene	1800	U
84-66-2	Diethylphthalate	1800	U
86-73-7	Fluorene	380	DJ
7005-72-3	4-Chlorophenyl-phenylether	1800	U
100-01-6	4-Nitroaniline	4500	U
534-52-1	4,6-Dinitro-2-methylphenol	4500	U
86-30-6	N-nitrosodiphenylamine (1)	1800	U
101-55-3	4-Bromophenyl-phenylether	1800	U
118-74-1	Hexachlorobenzene	1800	U
1912-24-9	Atrazine	1800	U
87-86-5	Pentachlorophenol	4500	U
85-01-8	Phenanthrene	2900	D
120-12-7	Anthracene	770	DJ
86-74-8	Carbazole	510	DJ
84-74-2	Di-n-butylphthalate	1800	U
206-44-0	Fluoranthene	6400	D
129-00-0	Pyrene	5600	D
85-68-7	Butylbenzylphthalate	290	DJ
91-94-1	3,3'-Dichlorobenzidine	1800	U
56-55-3	Benzo(a)anthracene	3200	D
218-01-9	Chrysene	3600	D
117-81-7	bis(2-Ethylhexyl)phthalate	11000	DB
117-84-0	Di-n-octylphthalate	2600	D
205-99-2	Benzo(b)fluoranthene	5500	D
207-08-9	Benzo(k)fluoranthene	2600	D
50-32-8	Benzo(a)pyrene	3500	D
193-39-5	Indeno(1,2,3-cd)pyrene	1500	DJ
53-70-3	Dibenzo(a,h)anthracene	440	DJ
191-24-2	Benzo(g,h,i)perylene	1300	DJ

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00J6DL

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-2DA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 63 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 243-17-4	11H-BENZO[B]FLUORENE	15.45	2900	NJD
2.	UNKNOWN	15.99	13000	JD
3.	UNKNOWN	16.24	8400	JD
4.	UNKNOWN	16.31	6800	JD
5. 239-35-0	BENZO[B]NAPHTHO[2,1-D]THIOPH	16.43	6500	NJD
6.	UNKNOWN	16.62	7600	JD
7.	UNKNOWN	16.70	12000	JD
8.	UNKNOWN	17.12	5300	JD
9.	UNKNOWN	17.22	3400	JD
10.	UNKNOWN	17.39	4700	JD
11. 3351-32-4	2-METHYLCHRYSENE	17.71	3600	NJD
12.	UNKNOWN	17.93	3600	JD
13.	UNKNOWN	18.07	2500	JD
14.	UNKNOWN	18.22	2500	JD
15.	UNKNOWN	18.52	1700	JD
16.	UNKNOWN PHTHALATE	18.61	2100	JD
17.	UNKNOWN	18.78	1300	JD
18.	UNKNOWN PHTHALATE	18.83	3200	JD
19.	UNKNOWN PHTHALATE	18.96	1300	JD
20.	UNKNOWN	19.08	3100	JD
21. 10152-69-9	CYCLOPROPANENONANOIC ACID, 2	19.25	2000	NJD
22.	UNKNOWN PHTHALATE	19.42	1900	JD
23.	UNKNOWN	19.83	2900	JD
24.	UNKNOWN PHTHALATE	19.91	2000	JD
25.	UNKNOWN	20.03	1300	JD
26.	UNKNOWN	20.23	4900	JD
27.	UNKNOWN	20.57	2000	JD
28.	UNKNOWN	20.86	2300	JD
29.	UNKNOWN	21.04	2700	JD
30.	UNKNOWN	22.07	1200	JD

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J7

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-3A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 61 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	130	J
108-95-2	Phenol	35	J
111-44-4	bis(2-Chloroethyl)ether	850	U
95-57-8	2-Chlorophenol	850	U
95-48-7	2-Methylphenol	850	U
108-60-1	2,2'-oxybis(1-Chloropropane)	850	U
98-86-2	Acetophenone	74	J
106-44-5	4-Methylphenol	120	J
621-64-7	N-Nitroso-di-n-propylamine	850	U
67-72-1	Hexachloroethane	850	U
98-95-3	Nitrobenzene	850	U
78-59-1	Isophorone	850	U
88-75-5	2-Nitrophenol	850	U
105-67-9	2,4-Dimethylphenol	850	U
111-91-1	bis(2-Chloroethoxy)methane	850	U
120-83-2	2,4-Dichlorophenol	850	U
91-20-3	Naphthalene	180	J
106-47-8	4-Chloroaniline	850	U
87-68-3	Hexachlorobutadiene	850	U
105-60-2	Caprolactam	850	U
59-50-7	4-Chloro-3-methylphenol	850	U
91-57-6	2-Methylnaphthalene	210	J
77-47-4	Hexachlorocyclopentadiene	850	U
88-06-2	2,4,6-Trichlorophenol	850	U
95-95-4	2,4,5-Trichlorophenol	2100	U
92-52-4	1,1'-Biphenyl	56	J
91-58-7	2-Chloronaphthalene	850	U
88-74-4	2-Nitroaniline	2100	U
131-11-3	Dimethylphthalate	850	U
606-20-2	2,6-Dinitrotoluene	850	U
208-96-8	Acenaphthylene	290	J
99-09-2	3-Nitroaniline	2100	U
83-32-9	Acenaphthene	260	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J7

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-3A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 61 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2100	U
100-02-7	4-Nitrophenol	2100	U
132-64-9	Dibenzofuran	150	J
121-14-2	2,4-Dinitrotoluene	850	U
84-66-2	Diethylphthalate	850	U
86-73-7	Fluorene	320	J
7005-72-3	4-Chlorophenyl-phenylether	850	U
100-01-6	4-Nitroaniline	2100	U
534-52-1	4,6-Dinitro-2-methylphenol	2100	U
86-30-6	N-nitrosodiphenylamine (1)	850	U
101-55-3	4-Bromophenyl-phenylether	850	U
118-74-1	Hexachlorobenzene	850	U
1912-24-9	Atrazine	850	U
87-86-5	Pentachlorophenol	2100	U
85-01-8	Phenanthrene	2100	
120-12-7	Anthracene	580	J
86-74-8	Carbazole	340	J
84-74-2	Di-n-butylphthalate	850	U
206-44-0	Fluoranthene	4600	
129-00-0	Pyrene	5400	
85-68-7	Butylbenzylphthalate	140	J
91-94-1	3,3'-Dichlorobenzidine	850	U
56-55-3	Benzo(a)anthracene	2800	
218-01-9	Chrysene	2900	
117-81-7	bis(2-Ethylhexyl)phthalate	9700	EB
117-84-0	Di-n-octylphthalate	160	J
205-99-2	Benzo(b)fluoranthene	5000	
207-08-9	Benzo(k)fluoranthene	1900	
50-32-8	Benzo(a)pyrene	2600	
193-39-5	Indeno(1,2,3-cd)pyrene	1300	
53-70-3	Dibenzo(a,h)anthracene	400	J
191-24-2	Benzo(g,h,i)perylene	1200	

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00J7

Lab Name: CCMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-3

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-3A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 61 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

Number TICs found: 30

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	10.81	1800	J
2.	4537-15-9	BENZENE, (1-BUTYLHEPTYL)-	11.86	5200	NJ
3.		SUBSTITUTED BENZENE	12.45	5400	J
4.		UNKNOWN	13.77	6200	J
5.		UNKNOWN	13.87	3900	J
6.		UNKNOWN	13.92	5100	J
7.		UNKNOWN	14.02	2800	J
8.		UNKNOWN	14.19	3100	J
9.		UNKNOWN	14.55	3800	J
10.		UNKNOWN	14.80	3300	J
11.		UNKNOWN	14.85	3800	J
12.		UNKNOWN	15.10	3500	J
13.		BENZOFLUORENE	15.37	4900	J
14.		UNKNOWN	15.42	3900	J
15.		UNKNOWN	15.48	4000	J
16.	243-17-4	11H-BENZO[B]FLUORENE	15.51	3900	NJ
17.		UNKNOWN	15.66	7100	J
18.		UNKNOWN	15.83	2600	J
19.		UNKNOWN	15.93	1100	J
20.		UNKNOWN	16.10	1200	J
21.		UNKNOWN	19.14	1000	J
22.		UNKNOWN	19.87	860	J
23.	7144-08-3	CHOLEST-5-EN-3-OL (3.BETA.)-	20.27	2100	NJ
24.		UNKNOWN	21.08	1400	J
25.		UNKNOWN	22.10	1200	J
26.		UNKNOWN	22.40	930	J
27.		UNKNOWN	23.14	1000	J
28.		UNKNOWN	24.19	920	J
29.		UNKNOWN	24.46	1000	J
30.		UNKNOWN	25.03	1100	J

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J7DL

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-3DA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 61 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	130	DJ
108-95-2	Phenol	1700	U
111-44-4	bis(2-Chloroethyl)ether	1700	U
95-57-8	2-Chlorophenol	1700	U
95-48-7	2-Methylphenol	1700	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1700	U
98-86-2	Acetophenone	94	DJ
106-44-5	4-Methylphenol	160	DJ
621-64-7	N-Nitroso-di-n-propylamine	1700	U
67-72-1	Hexachloroethane	1700	U
98-95-3	Nitrobenzene	1700	U
78-59-1	Isophorone	1700	U
88-75-5	2-Nitrophenol	1700	U
105-67-9	2,4-Dimethylphenol	1700	U
111-91-1	bis(2-Chloroethoxy)methane	1700	U
120-83-2	2,4-Dichlorophenol	1700	U
91-20-3	Naphthalene	220	DJ
106-47-8	4-Chloroaniline	1700	U
87-68-3	Hexachlorobutadiene	1700	U
105-60-2	Caprolactam	1700	U
59-50-7	4-Chloro-3-methylphenol	1700	U
91-57-6	2-Methylnaphthalene	220	DJ
77-47-4	Hexachlorocyclopentadiene	1700	U
88-06-2	2,4,6-Trichlorophenol	1700	U
95-95-4	2,4,5-Trichlorophenol	4300	U
92-52-4	1,1'-Biphenyl	60	DJ
91-58-7	2-Chloronaphthalene	1700	U
88-74-4	2-Nitroaniline	4300	U
131-11-3	Dimethylphthalate	1700	U
606-20-2	2,6-Dinitrotoluene	1700	U
208-96-8	Acenaphthylene	350	DJ
99-09-2	3-Nitroaniline	4300	U
83-32-9	Acenaphthene	290	DJ

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J7DL

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBERTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-3DA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 61 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	4300	U
100-02-7	4-Nitrophenol	4300	U
132-64-9	Dibenzofuran	180	DJ
121-14-2	2,4-Dinitrotoluene	1700	U
84-66-2	Diethylphthalate	1700	U
86-73-7	Fluorene	370	DJ
7005-72-3	4-Chlorophenyl-phenylether	1700	U
100-01-6	4-Nitroaniline	4300	U
534-52-1	4,6-Dinitro-2-methylphenol	4300	U
86-30-6	N-nitrosodiphenylamine (1)	1700	U
101-55-3	4-Bromophenyl-phenylether	1700	U
118-74-1	Hexachlorobenzene	1700	U
1912-24-9	Atrazine	1700	U
87-86-5	Pentachlorophenol	4300	U
85-01-8	Phenanthrene	2300	D
120-12-7	Anthracene	690	DJ
86-74-8	Carbazole	410	DJ
84-74-2	Di-n-butylphthalate	1700	U
206-44-0	Fluoranthene	5500	D
129-00-0	Pyrene	5500	D
85-68-7	Butylbenzylphthalate	150	DJ
91-94-1	3,3'-Dichlorobenzidine	1700	U
56-55-3	Benzo(a)anthracene	2900	D
218-01-9	Chrysene	3500	D
117-81-7	bis(2-Ethylhexyl)phthalate	11000	DB
117-84-0	Di-n-octylphthalate	220	DJ
205-99-2	Benzo(b)fluoranthene	4400	D
207-08-9	Benzo(k)fluoranthene	3300	D
50-32-8	Benzo(a)pyrene	3200	D
193-39-5	Indeno(1,2,3-cd)pyrene	1400	DJ
53-70-3	Dibenzo(a,h)anthracene	430	DJ
191-24-2	Benzo(g,h,i)perylene	1200	DJ

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00J7DL

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-3

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-3DA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 61 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

Number TICs found: 29

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 4537-15-9	BENZENE, (1-BUTYLHEPTYL)-	11.84	5700	NJD
2. 2719-63-3	BENZENE, (1-BUTYLOCTYL)-	12.47	2500	NJD
3.	UNKNOWN	13.38	1700	JD
4.	UNKNOWN	13.45	2100	JD
5. 613-12-7	ANTHRACENE, 2-METHYL-	13.75	6500	NJD
6.	UNKNOWN	13.85	3800	JD
7.	UNKNOWN	13.90	3100	JD
8.	UNKNOWN	14.01	4300	JD
9.	UNKNOWN	14.16	3200	JD
10.	UNKNOWN	14.23	2000	JD
11.	DIMETHYLPHENANTHRENE	14.39	2400	JD
12.	UNKNOWN	14.53	3900	JD
13.	UNKNOWN	14.77	3800	JD
14.	UNKNOWN	14.83	3000	JD
15. 2381-21-7	PYRENE, 1-METHYL-	15.32	3800	NJD
16. 238-84-6	11H-BENZO[A]FLUORENE	15.46	11000	NJD
17. 3442-78-2	PYRENE, 2-METHYL-	15.81	8000	NJD
18.	UNKNOWN	15.90	4100	JD
19.	UNKNOWN	16.17	5900	JD
20.	UNKNOWN	16.24	2900	JD
21.	UNKNOWN	16.29	3500	JD
22. 243-46-9	BENZO[B]NAPHTHO[2,3-D]THIOPH	16.44	2600	NJD
23. 218-30-4	DIBENZO[C,H][2,6]NAPHTHYRIDI	16.62	2600	NJD
24.	UNKNOWN	16.71	3900	JD
25.	UNKNOWN	17.23	2100	JD
26.	UNKNOWN	20.24	3800	JD
27.	UNKNOWN	20.58	1800	JD
28.	UNKNOWN	20.88	2300	JD
29.	UNKNOWN	21.03	2200	JD
30.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-4

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-4A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 68 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	130	J
108-95-2	Phenol	1000	U
111-44-4	bis(2-Chloroethyl)ether	1000	U
95-57-8	2-Chlorophenol	1000	U
95-48-7	2-Methylphenol	1000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1000	U
98-86-2	Acetophenone	80	J
106-44-5	4-Methylphenol	150	J
621-64-7	N-Nitroso-di-n-propylamine	1000	U
67-72-1	Hexachloroethane	1000	U
98-95-3	Nitrobenzene	1000	U
78-59-1	Isophorone	1000	U
88-75-5	2-Nitrophenol	1000	U
105-67-9	2,4-Dimethylphenol	1000	U
111-91-1	bis(2-Chloroethoxy)methane	1000	U
120-83-2	2,4-Dichlorophenol	1000	U
91-20-3	Naphthalene	160	J
106-47-8	4-Chloroaniline	1000	U
87-68-3	Hexachlorobutadiene	1000	U
105-60-2	Caprolactam	1000	U
59-50-7	4-Chloro-3-methylphenol	1000	U
91-57-6	2-Methylnaphthalene	190	J
77-47-4	Hexachlorocyclopentadiene	1000	U
88-06-2	2,4,6-Trichlorophenol	1000	U
95-95-4	2,4,5-Trichlorophenol	2600	U
92-52-4	1,1'-Biphenyl	50	J
91-58-7	2-Chloronaphthalene	1000	U
88-74-4	2-Nitroaniline	2600	U
131-11-3	Dimethylphthalate	1000	U
606-20-2	2,6-Dinitrotoluene	1000	U
208-96-8	Acenaphthylene	270	J
99-09-2	3-Nitroaniline	2600	U
83-32-9	Acenaphthene	200	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-4

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-4A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 68 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2600	U
100-02-7	4-Nitrophenol	2600	U
132-64-9	Dibenzofuran	140	J
121-14-2	2,4-Dinitrotoluene	1000	U
84-66-2	Diethylphthalate	1000	U
86-73-7	Fluorene	270	J
7005-72-3	4-Chlorophenyl-phenylether	1000	U
100-01-6	4-Nitroaniline	2600	U
534-52-1	4,6-Dinitro-2-methylphenol	2600	U
86-30-6	N-nitrosodiphenylamine (1)	450	J
101-55-3	4-Bromophenyl-phenylether	1000	U
118-74-1	Hexachlorobenzene	1000	U
1912-24-9	Atrazine	1000	U
87-86-5	Pentachlorophenol	2600	U
85-01-8	Phenanthrene	1800	
120-12-7	Anthracene	540	J
86-74-8	Carbazole	340	J
84-74-2	Di-n-butylphthalate	1000	U
206-44-0	Fluoranthene	4000	
129-00-0	Pyrene	4800	
85-68-7	Butylbenzylphthalate	160	J
91-94-1	3,3'-Dichlorobenzidine	1000	U
56-55-3	Benzo(a)anthracene	2600	
218-01-9	Chrysene	2500	
117-81-7	bis(2-Ethylhexyl)phthalate	10000	EB
117-84-0	Di-n-octylphthalate	810	J
205-99-2	Benzo(b)fluoranthene	4200	
207-08-9	Benzo(k)fluoranthene	2200	
50-32-8	Benzo(a)pyrene	2500	
193-39-5	Indeno(1,2,3-cd)pyrene	1200	
53-70-3	Dibenzo(a,h)anthracene	350	J
191-24-2	Benzo(g,h,i)perylene	1100	

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00J8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-4

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-4A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 68 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Extraction: (Type) SONC

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 4537-15-9	BENZENE, (1-BUTYLHEPTYL)-	11.85	4300	NJ
2. 2719-63-3	BENZENE, (1-BUTYLOCTYL)-	12.48	1400	NJ
3.	UNKNOWN	13.21	1500	J
4.	UNKNOWN	13.32	2200	J
5.	UNKNOWN	13.39	1200	J
6.	UNKNOWN	13.48	1700	J
7.	UNKNOWN	13.56	860	J
8.	UNKNOWN	13.75	4400	J
9.	UNKNOWN CARBOXYLIC ACID	13.85	2700	J
10.	UNKNOWN	13.91	2600	J
11.	UNKNOWN	14.02	3000	J
12.	UNKNOWN	14.10	1400	J
13.	UNKNOWN	14.19	2200	J
14.	UNKNOWN	14.24	1400	J
15.	UNKNOWN	14.29	1100	J
16.	UNKNOWN	14.35	2900	J
17.	UNKNOWN	14.56	3000	J
18.	UNKNOWN	14.79	2500	J
19.	UNKNOWN	15.10	2600	J
20.	BENZOFLUORENE	15.37	1600	J
21.	UNKNOWN	15.42	2200	J
22. 3442-78-2	PYRENE, 2-METHYL-	15.49	3900	NJ
23. 2381-21-7	PYRENE, 1-METHYL-	15.84	3800	NJ
24.	UNKNOWN	15.92	2100	J
25.	UNKNOWN	16.11	2800	J
26. 239-35-0	BENZO[B]NAPHTHO[2,1-D]THIOPH	16.48	1400	NJ
27.	UNKNOWN	16.74	1300	J
28.	UNKNOWN	20.28	3100	J
29.	UNKNOWN	21.06	1900	J
30.	UNKNOWN	22.11	3100	J

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J8DL

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-4

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-4DA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 68 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	130	DJ
108-95-2	Phenol	2100	U
111-44-4	bis(2-Chloroethyl)ether	2100	U
95-57-8	2-Chlorophenol	2100	U
95-48-7	2-Methylphenol	2100	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2100	U
98-86-2	Acetophenone	88	DJ
106-44-5	4-Methylphenol	190	DJ
621-64-7	N-Nitroso-di-n-propylamine	2100	U
67-72-1	Hexachloroethane	2100	U
98-95-3	Nitrobenzene	2100	U
78-59-1	Isophorone	2100	U
88-75-5	2-Nitrophenol	2100	U
105-67-9	2,4-Dimethylphenol	2100	U
111-91-1	bis(2-Chloroethoxy)methane	2100	U
120-83-2	2,4-Dichlorophenol	2100	U
91-20-3	Naphthalene	180	DJ
106-47-8	4-Chloroaniline	2100	U
87-68-3	Hexachlorobutadiene	2100	U
105-60-2	Caprolactam	2100	U
59-50-7	4-Chloro-3-methylphenol	2100	U
91-57-6	2-Methylnaphthalene	210	DJ
77-47-4	Hexachlorocyclopentadiene	2100	U
88-06-2	2,4,6-Trichlorophenol	2100	U
95-95-4	2,4,5-Trichlorophenol	5200	U
92-52-4	1,1'-Biphenyl	59	DJ
91-58-7	2-Chloronaphthalene	2100	U
88-74-4	2-Nitroaniline	5200	U
131-11-3	Dimethylphthalate	2100	U
606-20-2	2,6-Dinitrotoluene	2100	U
208-96-8	Acenaphthylene	310	DJ
99-09-2	3-Nitroaniline	5200	U
83-32-9	Acenaphthene	220	DJ

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J8DL

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-4

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-4DA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 68 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	5200	U
100-02-7	4-Nitrophenol	5200	U
132-64-9	Dibenzofuran	170	DJ
121-14-2	2,4-Dinitrotoluene	2100	U
84-66-2	Diethylphthalate	2100	U
86-73-7	Fluorene	300	DJ
7005-72-3	4-Chlorophenyl-phenylether	2100	U
100-01-6	4-Nitroaniline	5200	U
534-52-1	4,6-Dinitro-2-methylphenol	5200	U
86-30-6	N-nitrosodiphenylamine (1)	2100	U
101-55-3	4-Bromophenyl-phenylether	2100	U
118-74-1	Hexachlorobenzene	2100	U
1912-24-9	Atrazine	2100	U
87-86-5	Pentachlorophenol	5200	U
85-01-8	Phenanthrene	2100	D
120-12-7	Anthracene	620	DJ
86-74-8	Carbazole	400	DJ
84-74-2	Di-n-butylphthalate	2100	U
206-44-0	Fluoranthene	4900	D
129-00-0	Pyrene	4700	D
85-68-7	Butylbenzylphthalate	170	DJ
91-94-1	3,3'-Dichlorobenzidine	2100	U
56-55-3	Benzo(a)anthracene	2500	D
218-01-9	Chrysene	3200	D
117-81-7	bis(2-Ethylhexyl)phthalate	12000	DB
117-84-0	Di-n-octylphthalate	2100	U
205-99-2	Benzo(b)fluoranthene	4700	D
207-08-9	Benzo(k)fluoranthene	2500	D
50-32-8	Benzo(a)pyrene	2800	D
193-39-5	Indeno(1,2,3-cd)pyrene	1300	DJ
53-70-3	Dibenzo(a,h)anthracene	400	DJ
191-24-2	Benzo(g,h,i)perylene	1200	DJ

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00J8DL

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-4

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-4DA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 68 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.3 Extraction: (Type) SONC

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2719-63-3	BENZENE, (1-BUTYLOCTYL)-	12.46	3100	NJD
2.	UNKNOWN	13.19	3100	JD
3.	UNKNOWN	13.31	4100	JD
4.	UNKNOWN	13.44	3300	JD
5.	UNKNOWN	13.75	7300	JD
6. 57-10-3	HEXADECANOIC ACID	13.80	2800	NJD
7.	UNKNOWN	13.85	3800	JD
8.	UNKNOWN	13.91	3800	JD
9.	UNKNOWN	14.00	5500	JD
10. 84-65-1	9,10-ANTHRACENEDIONE	14.17	4300	NJD
11.	UNKNOWN	14.52	5300	JD
12.	UNKNOWN	14.76	4900	JD
13.	UNKNOWN	14.83	4900	JD
14. 4292-19-7	DODECANE, 1-IODO-	15.15	6900	NJD
15.	UNKNOWN	15.38	4800	JD
16.	BENZOFLUORENE	15.45	9800	JD
17.	UNKNOWN	15.64	11000	JD
18.	METHYLPYRENE	15.77	4700	JD
19.	UNKNOWN	15.81	5900	JD
20.	UNKNOWN	15.89	5600	JD
21.	UNKNOWN	16.14	7600	JD
22.	UNKNOWN	16.28	6400	JD
23.	BENZONAPHTHOTHIOPHENE	16.45	5100	JD
24.	BENZANTHRACENONE	16.62	4700	JD
25.	UNKNOWN	16.70	6400	JD
26.	UNKNOWN	17.12	22000	JD
27.	UNKNOWN	17.24	18000	JD
28.	UNKNOWN	17.41	10000	JD
29.	UNKNOWN	17.71	13000	JD
30.	UNKNOWN	17.93	12000	JD

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-5

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-5A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 65 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	120	J
108-95-2	Phenol	940	U
111-44-4	bis(2-Chloroethyl)ether	940	U
95-57-8	2-Chlorophenol	940	U
95-48-7	2-Methylphenol	940	U
108-60-1	2,2'-oxybis(1-Chloropropane)	940	U
98-86-2	Acetophenone	69	J
106-44-5	4-Methylphenol	220	J
621-64-7	N-Nitroso-di-n-propylamine	940	U
67-72-1	Hexachloroethane	940	U
98-95-3	Nitrobenzene	940	U
78-59-1	Isophorone	940	U
88-75-5	2-Nitrophenol	940	U
105-67-9	2,4-Dimethylphenol	940	U
111-91-1	bis(2-Chloroethoxy)methane	940	U
120-83-2	2,4-Dichlorophenol	940	U
91-20-3	Naphthalene	220	J
106-47-8	4-Chloroaniline	940	U
87-68-3	Hexachlorobutadiene	940	U
105-60-2	Caprolactam	940	U
59-50-7	4-Chloro-3-methylphenol	940	U
91-57-6	2-Methylnaphthalene	220	J
77-47-4	Hexachlorocyclopentadiene	940	U
88-06-2	2,4,6-Trichlorophenol	940	U
95-95-4	2,4,5-Trichlorophenol	2400	U
92-52-4	1,1'-Biphenyl	59	J
91-58-7	2-Chloronaphthalene	940	U
88-74-4	2-Nitroaniline	2400	U
131-11-3	Dimethylphthalate	940	U
606-20-2	2,6-Dinitrotoluene	940	U
208-96-8	Acenaphthylene	260	J
99-09-2	3-Nitroaniline	2400	U
83-32-9	Acenaphthene	270	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-5

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-5A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 65 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2400	U
100-02-7	4-Nitrophenol	2400	U
132-64-9	Dibenzofuran	160	J
121-14-2	2,4-Dinitrotoluene	940	U
84-66-2	Diethylphthalate	940	U
86-73-7	Fluorene	310	J
7005-72-3	4-Chlorophenyl-phenylether	940	U
100-01-6	4-Nitroaniline	2400	U
534-52-1	4,6-Dinitro-2-methylphenol	2400	U
86-30-6	N-nitrosodiphenylamine (1)	420	J
101-55-3	4-Bromophenyl-phenylether	940	U
118-74-1	Hexachlorobenzene	940	U
1912-24-9	Atrazine	940	U
87-86-5	Pentachlorophenol	2400	U
85-01-8	Phenanthrene	2200	
120-12-7	Anthracene	660	J
86-74-8	Carbazole	360	J
84-74-2	Di-n-butylphthalate	940	U
206-44-0	Fluoranthene	4500	
129-00-0	Pyrene	5600	
85-68-7	Butylbenzylphthalate	140	J
91-94-1	3,3'-Dichlorobenzidine	940	U
56-55-3	Benzo(a)anthracene	3000	
218-01-9	Chrysene	2700	
117-81-7	bis(2-Ethylhexyl)phthalate	9800	BE
117-84-0	Di-n-octylphthalate	940	U
205-99-2	Benzo(b)fluoranthene	4800	
207-08-9	Benzo(k)fluoranthene	2200	
50-32-8	Benzo(a)pyrene	2700	
193-39-5	Indeno(1,2,3-cd)pyrene	1300	
53-70-3	Dibenzo(a,h)anthracene	410	J
191-24-2	Benzo(g,h,i)perylene	1200	

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00J9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-5

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-5A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 65 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

Number TICs found: 29

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 4537-15-9	BENZENE, (1-BUTYLHEPTYL)-	11.85	1500	NJ
2. 2719-63-3	BENZENE, (1-BUTYLOCTYL)-	12.48	960	NJ
3.	UNKNOWN	13.32	1900	J
4.	UNKNOWN	13.39	1100	J
5.	UNKNOWN	13.48	1400	J
6.	UNKNOWN	13.75	4400	J
7. 57-10-3	HEXADECANOIC ACID	13.85	3700	NJ
8.	UNKNOWN	13.93	2400	J
9.	UNKNOWN	14.02	3200	J
10.	UNKNOWN	14.18	2300	J
11.	UNKNOWN	14.25	1100	J
12.	UNKNOWN	14.56	3300	J
13.	UNKNOWN	14.79	2800	J
14.	BENZOFLUORENE	15.35	3200	J
15. 238-84-6	11H-BENZO[A]FLUORENE	15.48	4600	NJ
16.	UNKNOWN	15.67	4700	J
17. 238-84-6	11H-BENZO[A]FLUORENE	15.84	4900	NJ
18.	UNKNOWN	15.92	2500	J
19.	UNKNOWN	16.09	3200	J
20.	UNKNOWN	16.31	3300	J
21. 239-35-0	BENZO[B]NAPHTHO[2,1-D]THIOPH	16.48	1500	NJ
22.	UNKNOWN	16.65	1000	J
23.	UNKNOWN	16.73	1400	J
24. 82-05-3	7H-BENZ[DE]ANTHRACEN-7-ONE	17.24	1100	NJ
25.	UNKNOWN	19.13	1100	J
26.	UNKNOWN	20.28	2500	J
27.	UNKNOWN	20.69	1100	J
28.	UNKNOWN	21.06	1300	J
29.	UNKNOWN	22.11	2800	J
30.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J9DL

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-5

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-5DA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 65 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	120	DJ
108-95-2	Phenol	1900	U
111-44-4	bis(2-Chloroethyl)ether	1900	U
95-57-8	2-Chlorophenol	1900	U
95-48-7	2-Methylphenol	1900	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1900	U
98-86-2	Acetophenone	69	DJ
106-44-5	4-Methylphenol	240	DJ
621-64-7	N-Nitroso-di-n-propylamine	1900	U
67-72-1	Hexachloroethane	1900	U
98-95-3	Nitrobenzene	1900	U
78-59-1	Isophorone	1900	U
88-75-5	2-Nitrophenol	1900	U
105-67-9	2,4-Dimethylphenol	1900	U
111-91-1	bis(2-Chloroethoxy)methane	1900	U
120-83-2	2,4-Dichlorophenol	1900	U
91-20-3	Naphthalene	1900	U
106-47-8	4-Chloroaniline	1900	U
87-68-3	Hexachlorobutadiene	1900	U
105-60-2	Caprolactam	1900	U
59-50-7	4-Chloro-3-methylphenol	1900	U
91-57-6	2-Methylnaphthalene	230	DJ
77-47-4	Hexachlorocyclopentadiene	1900	U
88-06-2	2,4,6-Trichlorophenol	1900	U
95-95-4	2,4,5-Trichlorophenol	4700	U
92-52-4	1,1'-Biphenyl	64	DJ
91-58-7	2-Chloronaphthalene	1900	U
88-74-4	2-Nitroaniline	4700	U
131-11-3	Dimethylphthalate	1900	U
606-20-2	2,6-Dinitrotoluene	1900	U
208-96-8	Acenaphthylene	290	DJ
99-09-2	3-Nitroaniline	4700	U
83-32-9	Acenaphthene	290	DJ

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00J9DL

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-5

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-5DA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 65 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	13.31	3800	JD
2.	UNKNOWN	13.44	3100	JD
3.	UNKNOWN	13.75	7700	JD
4. 97-78-9	GLYCINE, N-METHYL-N-(1-OXODO	13.80	3400	NJD
5.	UNKNOWN	13.85	4700	JD
6.	UNKNOWN	13.90	4700	JD
7.	UNKNOWN	14.00	6600	JD
8.	UNKNOWN	14.17	5900	JD
9.	UNKNOWN	14.22	3300	JD
10.	UNKNOWN	14.52	6700	JD
11.	UNKNOWN	14.76	6500	JD
12.	UNKNOWN	14.83	6500	JD
13.	UNKNOWN	15.08	5800	JD
14. 2381-21-7	PYRENE, 1-METHYL-	15.33	8300	NJD
15.	BENZOFLUORENE	15.45	17000	JD
16.	UNKNOWN	15.64	14000	JD
17.	BENZOFLUORENE	15.81	17000	JD
18.	UNKNOWN	15.89	6300	JD
19.	UNKNOWN	16.25	7500	JD
20.	UNKNOWN	16.30	8800	JD
21. 239-35-0	BENZO[B]NAPHTHO[2,1-D]THIOPH	16.45	7100	NJD
22.	UNKNOWN	16.62	6400	JD
23.	UNKNOWN	16.72	9900	JD
24. 82-05-3	7H-BENZ[DE]ANTHRACEN-7-ONE	17.21	43000	NJD
25.	UNKNOWN	17.61	20000	JD
26. 3351-31-3	CHRYSENE, 3-METHYL-	17.73	30000	NJD
27.	UNKNOWN	17.93	23000	JD
28.	UNKNOWN	18.32	20000	JD
29.	UNKNOWN	22.09	16000	JD
30. 1058-61-3	STIGMAST-4-EN-3-ONE	25.97	16000	NJD

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-7

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-7DJC66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 58 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.1 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	74	J
108-95-2	Phenol	1600	U
111-44-4	bis(2-Chloroethyl)ether	1600	U
95-57-8	2-Chlorophenol	1600	U
95-48-7	2-Methylphenol	1600	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1600	U
98-86-2	Acetophenone	56	J
106-44-5	4-Methylphenol	160	J
621-64-7	N-Nitroso-di-n-propylamine	1600	U
67-72-1	Hexachloroethane	1600	U
98-95-3	Nitrobenzene	1600	U
78-59-1	Isophorone	1600	U
88-75-5	2-Nitrophenol	1600	U
105-67-9	2,4-Dimethylphenol	1600	U
111-91-1	bis(2-Chloroethoxy)methane	1600	U
120-83-2	2,4-Dichlorophenol	1600	U
91-20-3	Naphthalene	260	J
106-47-8	4-Chloroaniline	1600	U
87-68-3	Hexachlorobutadiene	1600	U
105-60-2	Caprolactam	1600	U
59-50-7	4-Chloro-3-methylphenol	1600	U
91-57-6	2-Methylnaphthalene	250	J
77-47-4	Hexachlorocyclopentadiene	1600	U
88-06-2	2,4,6-Trichlorophenol	1600	U
95-95-4	2,4,5-Trichlorophenol	4000	U
92-52-4	1,1'-Biphenyl	60	J
91-58-7	2-Chloronaphthalene	1600	U
88-74-4	2-Nitroaniline	4000	U
131-11-3	Dimethylphthalate	1600	U
606-20-2	2,6-Dinitrotoluene	1600	U
208-96-8	Acenaphthylene	220	J
99-09-2	3-Nitroaniline	4000	U
83-32-9	Acenaphthene	470	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-7

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-7DJC66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 58 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.1 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	4000	U
100-02-7	4-Nitrophenol	4000	U
132-64-9	Dibenzofuran	140	J
121-14-2	2,4-Dinitrotoluene	1600	U
84-66-2	Diethylphthalate	1600	U
86-73-7	Fluorene	350	J
7005-72-3	4-Chlorophenyl-phenylether	1600	U
100-01-6	4-Nitroaniline	4000	U
534-52-1	4,6-Dinitro-2-methylphenol	4000	U
86-30-6	N-nitrosodiphenylamine (1)	1600	U
101-55-3	4-Bromophenyl-phenylether	1600	U
118-74-1	Hexachlorobenzene	1600	U
1912-24-9	Atrazine	1600	U
87-86-5	Pentachlorophenol	4000	U
85-01-8	Phenanthrene	2100	
120-12-7	Anthracene	560	J
86-74-8	Carbazole	310	J
84-74-2	Di-n-butylphthalate	1600	U
206-44-0	Fluoranthene	4200	
129-00-0	Pyrene	4900	
85-68-7	Butylbenzylphthalate	52	J
91-94-1	3,3'-Dichlorobenzidine	1600	U
56-55-3	Benzo(a)anthracene	2200	
218-01-9	Chrysene	2400	
117-81-7	bis(2-Ethylhexyl)phthalate	8200	B
117-84-0	Di-n-octylphthalate	300	J
205-99-2	Benzo(b)fluoranthene	2800	
207-08-9	Benzo(k)fluoranthene	2000	
50-32-8	Benzo(a)pyrene	1900	
193-39-5	Indeno(1,2,3-cd)pyrene	1000	J
53-70-3	Dibenzo(a,h)anthracene	300	J
191-24-2	Benzo(g,h,i)perylene	960	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00K2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-7

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-7DJC66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 58 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.1 Extraction: (Type) SONC

Number TICs found: 29

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 2719-62-2	BENZENE, (1-PENTYLHEPTYL)-	12.38	2500	NJ
2.	UNKNOWN	13.38	1700	J
3. 779-02-2	ANTHRACENE, 9-METHYL-	13.68	5000	NJ
4.	UNKNOWN	13.74	1800	J
5.	UNKNOWN	13.79	2600	J
6.	UNKNOWN	13.84	2500	J
7.	UNKNOWN	13.94	3600	J
8.	UNKNOWN	14.16	1800	J
9.	UNKNOWN	14.46	3500	J
10.	UNKNOWN	14.53	2300	J
11.	UNKNOWN	14.70	3100	J
12.	UNKNOWN	15.02	2700	J
13. 3386-33-2	OCTADECANE, 1-CHLORO-	15.20	2200	NJ
14. 243-17-4	11H-BENZO[B]FLUORENE	15.26	3000	NJ
15. 238-84-6	11H-BENZO[A]FLUORENE	15.39	7800	NJ
16.	UNKNOWN	15.56	3100	J
17.	UNKNOWN	15.69	3000	J
18.	UNKNOWN	15.73	4400	J
19.	UNKNOWN	15.81	3500	J
20.	UNKNOWN	16.20	5100	J
21. 239-35-0	BENZO[B]NAPHTHO[2,1-D]THIOPH	16.34	2400	NJ
22.	UNKNOWN	16.54	2700	J
23.	UNKNOWN	16.61	4300	J
24.	UNKNOWN	16.98	21000	J
25.	UNKNOWN	17.13	28000	J
26.	UNKNOWN	17.23	22000	J
27.	BENZOCARBAZOLE	17.28	21000	J
28.	UNKNOWN	17.52	21000	J
29. 3351-32-4	2-METHYLCHRYSENE	17.60	26000	NJ
30.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-8

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-8A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 46 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	80	J
108-95-2	Phenol	610	U
111-44-4	bis(2-Chloroethyl)ether	610	U
95-57-8	2-Chlorophenol	610	U
95-48-7	2-Methylphenol	610	U
108-60-1	2,2'-oxybis(1-Chloropropane)	610	U
98-86-2	Acetophenone	42	J
106-44-5	4-Methylphenol	25	J
621-64-7	N-Nitroso-di-n-propylamine	610	U
67-72-1	Hexachloroethane	610	U
98-95-3	Nitrobenzene	610	U
78-59-1	Isophorone	610	U
88-75-5	2-Nitrophenol	610	U
105-67-9	2,4-Dimethylphenol	610	U
111-91-1	bis(2-Chloroethoxy)methane	610	U
120-83-2	2,4-Dichlorophenol	610	U
91-20-3	Naphthalene	220	J
106-47-8	4-Chloroaniline	610	U
87-68-3	Hexachlorobutadiene	610	U
105-60-2	Caprolactam	610	U
59-50-7	4-Chloro-3-methylphenol	610	U
91-57-6	2-Methylnaphthalene	190	J
77-47-4	Hexachlorocyclopentadiene	610	U
88-06-2	2,4,6-Trichlorophenol	610	U
95-95-4	2,4,5-Trichlorophenol	1500	U
92-52-4	1,1'-Biphenyl	44	J
91-58-7	2-Chloronaphthalene	610	U
88-74-4	2-Nitroaniline	1500	U
131-11-3	Dimethylphthalate	610	U
606-20-2	2,6-Dinitrotoluene	610	U
208-96-8	Acenaphthylene	120	J
99-09-2	3-Nitroaniline	1500	U
83-32-9	Acenaphthene	490	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-8

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-8A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 46 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1500	U
100-02-7	4-Nitrophenol	1500	U
132-64-9	Dibenzofuran	240	J
121-14-2	2,4-Dinitrotoluene	610	U
84-66-2	Diethylphthalate	610	U
86-73-7	Fluorene	410	J
7005-72-3	4-Chlorophenyl-phenylether	610	U
100-01-6	4-Nitroaniline	1500	U
534-52-1	4,6-Dinitro-2-methylphenol	1500	U
86-30-6	N-nitrosodiphenylamine (1)	610	U
101-55-3	4-Bromophenyl-phenylether	610	U
118-74-1	Hexachlorobenzene	610	U
1912-24-9	Atrazine	610	U
87-86-5	Pentachlorophenol	1500	U
85-01-8	Phenanthrene	4100	
120-12-7	Anthracene	1100	
86-74-8	Carbazole	520	J
84-74-2	Di-n-butylphthalate	610	U
206-44-0	Fluoranthene	6200	E
129-00-0	Pyrene	8500	E
85-68-7	Butylbenzylphthalate	910	
91-94-1	3,3'-Dichlorobenzidine	610	U
56-55-3	Benzo(a)anthracene	3700	
218-01-9	Chrysene	3200	
117-81-7	bis(2-Ethylhexyl)phthalate	4600	B
117-84-0	Di-n-octylphthalate	360	J
205-99-2	Benzo(b)fluoranthene	4500	
207-08-9	Benzo(k)fluoranthene	3000	
50-32-8	Benzo(a)pyrene	3400	
193-39-5	Indeno(1,2,3-cd)pyrene	1600	
53-70-3	Dibenzo(a,h)anthracene	480	J
191-24-2	Benzo(g,h,i)perylene	1400	

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E00K3

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-8

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-8A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 46 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	BENZONAPHTHOFURAN	15.10	3800	J
2. 243-17-4	11H-BENZO[B]FLUORENE	15.34	5200	NJ
3.	UNKNOWN	15.47	16000	J
4.	METHYLPYRENE	15.58	9000	J
5.	UNKNOWN	15.66	12000	J
6.	METHYLPYRENE	15.83	2500	J
7.	UNKNOWN	16.10	1700	J
8.	UNKNOWN	16.27	810	J
9. 82-05-3	7H-BENZ[DE]ANTHRACEN-7-ONE	16.30	1600	NJ
10. 205-43-6	BENZO[B]NAPHTHO[1,2-D]THIOPH	16.47	1100	NJ
11.	UNKNOWN	16.66	1200	J
12.	UNKNOWN	16.74	1900	J
13.	UNKNOWN	17.10	840	J
14.	UNKNOWN	17.16	1500	J
15.	UNKNOWN	17.28	1000	J
16.	UNKNOWN	17.33	780	J
17.	UNKNOWN	17.38	760	J
18. 239-01-0	BENZO(A)CARBAZOLE	17.43	1100	NJ
19.	UNKNOWN	17.72	760	J
20. 1705-84-6	TRIPHENYLENE, 2-METHYL-	17.79	900	NJ
21.	UNKNOWN	17.99	980	J
22.	UNKNOWN	19.86	1100	J
23.	UNKNOWN	19.95	610	J
24.	UNKNOWN	20.05	710	J
25. 198-55-0	PERYLENE	20.25	1300	NJ
26.	UNKNOWN	20.30	670	J
27.	UNKNOWN	20.61	670	J
28.	UNKNOWN	20.71	860	J
29.	UNKNOWN	20.91	770	J
30. 601-58-1	STIGMASTANE	21.06	810	NJ

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K3DL

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-8

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-8DC66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 46 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 3.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	87	DJ
108-95-2	Phenol	1800	U
111-44-4	bis(2-Chloroethyl)ether	1800	U
95-57-8	2-Chlorophenol	1800	U
95-48-7	2-Methylphenol	1800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1800	U
98-86-2	Acetophenone	66	DJ
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
91-20-3	Naphthalene	260	DJ
106-47-8	4-Chloroaniline	1800	U
87-68-3	Hexachlorobutadiene	1800	U
105-60-2	Caprolactam	1800	U
59-50-7	4-Chloro-3-methylphenol	1800	U
91-57-6	2-Methylnaphthalene	250	DJ
77-47-4	Hexachlorocyclopentadiene	1800	U
88-06-2	2,4,6-Trichlorophenol	1800	U
95-95-4	2,4,5-Trichlorophenol	4600	U
92-52-4	1,1'-Biphenyl	68	DJ
91-58-7	2-Chloronaphthalene	1800	U
88-74-4	2-Nitroaniline	4600	U
131-11-3	Dimethylphthalate	1800	U
606-20-2	2,6-Dinitrotoluene	1800	U
208-96-8	Acenaphthylene	170	DJ
99-09-2	3-Nitroaniline	4600	U
83-32-9	Acenaphthene	640	DJ

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K3DL

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-8

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-8DC66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 46 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 3.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	4600	U
100-02-7	4-Nitrophenol	4600	U
132-64-9	Dibenzofuran	300	DJ
121-14-2	2,4-Dinitrotoluene	1800	U
84-66-2	Diethylphthalate	1800	U
86-73-7	Fluorene	470	DJ
7005-72-3	4-Chlorophenyl-phenylether	1800	U
100-01-6	4-Nitroaniline	4600	U
534-52-1	4,6-Dinitro-2-methylphenol	4600	U
86-30-6	N-nitrosodiphenylamine (1)	1800	U
101-55-3	4-Bromophenyl-phenylether	1800	U
118-74-1	Hexachlorobenzene	1800	U
1912-24-9	Atrazine	1800	U
87-86-5	Pentachlorophenol	4600	U
85-01-8	Phenanthrene	5300	D
120-12-7	Anthracene	1400	DJ
86-74-8	Carbazole	620	DJ
84-74-2	Di-n-butylphthalate	96	DJ
206-44-0	Fluoranthene	9800	D
129-00-0	Pyrene	10000	D
85-68-7	Butylbenzylphthalate	1100	DJ
91-94-1	3,3'-Dichlorobenzidine	1800	U
56-55-3	Benzo(a)anthracene	3300	D
218-01-9	Chrysene	4300	D
117-81-7	bis(2-Ethylhexyl)phthalate	5800	DB
117-84-0	Di-n-octylphthalate	410	DJ
205-99-2	Benzo(b)fluoranthene	4500	D
207-08-9	Benzo(k)fluoranthene	4000	D
50-32-8	Benzo(a)pyrene	4000	D
193-39-5	Indeno(1,2,3-cd)pyrene	2100	D
53-70-3	Dibenzo(a,h)anthracene	630	DJ
191-24-2	Benzo(g,h,i)perylene	1900	D

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00K3DL

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-8

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-8DC66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 46 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 3.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 203-64-5	4H-CYCLOPENTA[DEF]PHENANTHRE	13.80	2700	NJD
2.	UNKNOWN	14.71	4300	JD
3.	UNKNOWN	15.00	4500	JD
4. 2381-21-7	PYRENE, 1-METHYL-	15.25	6200	NJD
5.	UNKNOWN	15.34	9700	JD
6. 238-84-6	11H-BENZO[A]FLUORENE	15.39	11000	NJD
7.	METHYLPYRENE	15.47	11000	JD
8.	UNKNOWN	15.71	24000	JD
9.	UNKNOWN	15.98	12000	JD
10.	UNKNOWN	16.05	13000	JD
11. 82-05-3	7H-BENZ[DE]ANTHRACEN-7-ONE	16.16	9800	NJD
12.	TERPHENYL	16.52	35000	JD
13.	UNKNOWN	17.01	58000	JD
14.	UNKNOWN	17.11	43000	JD
15.	UNKNOWN	17.23	20000	JD
16.	UNKNOWN	17.28	30000	JD
17.	UNKNOWN	17.58	35000	JD
18.	UNKNOWN	17.80	24000	JD
19.	UNKNOWN	17.89	16000	JD
20.	UNKNOWN	17.95	21000	JD
21.	UNKNOWN	18.07	19000	JD
22.	UNKNOWN	18.16	9000	JD
23.	UNKNOWN	18.24	10000	JD
24.	UNKNOWN	18.38	7700	JD
25.	UNKNOWN	18.46	6900	JD
26.	UNKNOWN	18.92	5000	JD
27.	UNKNOWN	20.88	8000	JD
28.	UNKNOWN	21.89	5400	JD
29.	UNKNOWN	22.19	5100	JD
30. 1058-61-3	STIGMAST-4-EN-3-ONE	25.74	5600	NJD

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-9

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-9A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	22	J
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
98-86-2	Acetophenone	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	48	J
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	21	J
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	25	J

QUALITY ASSURANCE NOTICE

CompuChem ID# E00J2-8

Client ID# E00K3

Case # E00J2

Due to severe matrix interferences present in the semivolatile fraction of this sample, the following Internal Standard(s) had responses which varied considerably from the associated Continuing Calibration Standard responses.

d12-perylene

This sample was reanalyzed to confirm the matrix effects, and initial results were verified. Depending on the degree of interference, surrogate recoveries may also be affected for those compounds quantitated using the affected internal standard(s). Both sample analyses are being reported.

Additional Comments:

Reviewer's initials/ID _____/624

date 11-30-2001

QAN-VSV-5
010918

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-9

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-9A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

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	37	J
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	38	J
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	140	J
120-12-7	Anthracene	21	J
86-74-8	Carbazole	420	U
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	150	J
129-00-0	Pyrene	160	J
85-68-7	Butylbenzylphthalate	420	U
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	56	J
218-01-9	Chrysene	110	J
117-81-7	bis(2-Ethylhexyl)phthalate	440	B
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	110	J
207-08-9	Benzo(k)fluoranthene	51	J
50-32-8	Benzo(a)pyrene	60	J
193-39-5	Indeno(1,2,3-cd)pyrene	31	J
53-70-3	Dibenzo(a,h)anthracene	420	U
191-24-2	Benzo(g,h,i)perylene	51	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00K4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-9

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-9A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 21 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	12.51	440	J
2.	UNKNOWN	13.27	560	J
3.	UNKNOWN	13.48	900	J
4.	UNKNOWN	13.61	810	J
5. 613-12-7	ANTHRACENE, 2-METHYL-	13.75	650	NJ
6.	UNKNOWN	13.78	430	J
7.	UNKNOWN	14.00	620	J
8.	UNKNOWN	14.08	730	J
9.	UNKNOWN	14.15	550	J
10.	UNKNOWN	14.22	440	J
11.	UNKNOWN	14.27	430	J
12.	UNKNOWN	14.39	450	J
13.	UNKNOWN	14.51	840	J
14.	UNKNOWN	14.78	990	J
15. 10224-91-6	BENZENE, 1,1'-ETHYLIDENEBIS[	15.03	540	NJ
16.	UNKNOWN	15.27	630	J
17.	UNKNOWN	15.37	360	J
18. 3674-73-5	PHENANTHRENE, 2,3,5-TRIMETHY	15.55	620	NJ
19.	UNKNOWN	15.62	430	J
20.	UNKNOWN	15.69	250	J
21.	METHYLPYRENE	15.74	330	J
22.	UNKNOWN	15.79	480	J
23.	UNKNOWN	15.87	320	J
24.	UNKNOWN	16.04	360	J
25.	UNKNOWN	16.13	570	J
26.	UNKNOWN	16.26	520	J
27.	UNKNOWN	16.60	280	J
28.	UNKNOWN	16.67	390	J
29.	UNKNOWN	16.79	310	J
30.	UNKNOWN	17.21	310	J

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-10

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-10A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 40 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	550	U
108-95-2	Phenol	550	U
111-44-4	bis(2-Chloroethyl)ether	550	U
95-57-8	2-Chlorophenol	550	U
95-48-7	2-Methylphenol	550	U
108-60-1	2,2'-oxybis(1-Chloropropane)	550	U
98-86-2	Acetophenone	550	U
106-44-5	4-Methylphenol	550	U
621-64-7	N-Nitroso-di-n-propylamine	550	U
67-72-1	Hexachloroethane	550	U
98-95-3	Nitrobenzene	550	U
78-59-1	Isophorone	550	U
88-75-5	2-Nitrophenol	550	U
105-67-9	2,4-Dimethylphenol	550	U
111-91-1	bis(2-Chloroethoxy)methane	550	U
120-83-2	2,4-Dichlorophenol	550	U
91-20-3	Naphthalene	550	U
106-47-8	4-Chloroaniline	550	U
87-68-3	Hexachlorobutadiene	550	U
105-60-2	Caprolactam	550	U
59-50-7	4-Chloro-3-methylphenol	550	U
91-57-6	2-Methylnaphthalene	550	U
77-47-4	Hexachlorocyclopentadiene	550	U
88-06-2	2,4,6-Trichlorophenol	550	U
95-95-4	2,4,5-Trichlorophenol	1400	U
92-52-4	1,1'-Biphenyl	550	U
91-58-7	2-Chloronaphthalene	550	U
88-74-4	2-Nitroaniline	1400	U
131-11-3	Dimethylphthalate	550	U
606-20-2	2,6-Dinitrotoluene	550	U
208-96-8	Acenaphthylene	550	U
99-09-2	3-Nitroaniline	1400	U
83-32-9	Acenaphthene	550	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-10

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-10A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 40 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400	U
100-02-7	4-Nitrophenol	1400	U
132-64-9	Dibenzofuran	550	U
121-14-2	2,4-Dinitrotoluene	550	U
84-66-2	Diethylphthalate	550	U
86-73-7	Fluorene	550	U
7005-72-3	4-Chlorophenyl-phenylether	550	U
100-01-6	4-Nitroaniline	1400	U
534-52-1	4,6-Dinitro-2-methylphenol	1400	U
86-30-6	N-nitrosodiphenylamine (1)	550	U
101-55-3	4-Bromophenyl-phenylether	550	U
118-74-1	Hexachlorobenzene	550	U
1912-24-9	Atrazine	550	U
87-86-5	Pentachlorophenol	1400	U
85-01-8	Phenanthrene	550	U
120-12-7	Anthracene	550	U
86-74-8	Carbazole	550	U
84-74-2	Di-n-butylphthalate	550	U
206-44-0	Fluoranthene	450	J
129-00-0	Pyrene	610	
85-68-7	Butylbenzylphthalate	550	U
91-94-1	3,3'-Dichlorobenzidine	550	U
56-55-3	Benzo(a)anthracene	180	J
218-01-9	Chrysene	390	J
117-81-7	bis(2-Ethylhexyl)phthalate	1300	B
117-84-0	Di-n-octylphthalate	550	U
205-99-2	Benzo(b)fluoranthene	220	J
207-08-9	Benzo(k)fluoranthene	140	J
50-32-8	Benzo(a)pyrene	100	J
193-39-5	Indeno(1,2,3-cd)pyrene	82	J
53-70-3	Dibenzo(a,h)anthracene	550	U
191-24-2	Benzo(g,h,i)perylene	99	J

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

E00K9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-10A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 40 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.69	5200	J
2. 475-03-6	NAPHTHALENE, 1,2,3,4-TETRAHY	9.10	5900	NJ
3. 4706-90-5	BENZENE, 1,3-DIMETHYL-5-(1-M	9.43	13000	NJ
4.	UNKNOWN	9.51	7700	J
5. 475-03-6	NAPHTHALENE, 1,2,3,4-TETRAHY	9.58	11000	NJ
6.	UNKNOWN	9.73	17000	J
7.	UNKNOWN	10.05	15000	J
8.	UNKNOWN	10.10	9200	J
9.	UNKNOWN	10.19	11000	J
10. 13435-45-5	1-NONADECENE	10.24	14000	NJ
11.	UNKNOWN	10.34	20000	J
12.	UNKNOWN	10.46	11000	J
13.	UNKNOWN	10.57	16000	J
14.	UNKNOWN	10.62	14000	J
15.	UNKNOWN	10.78	11000	J
16.	UNKNOWN	10.81	13000	J
17.	UNKNOWN	10.93	13000	J
18.	UNKNOWN	11.10	13000	J
19.	UNKNOWN	11.15	22000	J
20.	UNKNOWN	11.44	13000	J
21. 829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL	11.55	13000	NJ
22.	UNKNOWN	11.60	7200	J
23.	UNKNOWN	11.84	9900	J
24.	UNKNOWN	12.13	7100	J
25.	UNKNOWN	12.23	8800	J
26.	UNKNOWN	12.35	7200	J
27.	UNKNOWN	12.55	10000	J
28.	UNKNOWN	13.01	4300	J
29.	UNKNOWN	13.16	4000	J
30.	UNKNOWN	22.46	3400	J

-1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K9RE

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-10

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-10DC66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 40 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

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

CAS NO.	COMPOUND		Q
100-52-7	Benzaldehyde	5500	U
108-95-2	Phenol	5500	U
111-44-4	bis(2-Chloroethyl)ether	5500	U
95-57-8	2-Chlorophenol	5500	U
95-48-7	2-Methylphenol	5500	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5500	U
98-86-2	Acetophenone	5500	U
106-44-5	4-Methylphenol	5500	U
621-64-7	N-Nitroso-di-n-propylamine	5500	U
67-72-1	Hexachloroethane	5500	U
98-95-3	Nitrobenzene	5500	U
78-59-1	Isophorone	5500	U
88-75-5	2-Nitrophenol	5500	U
105-67-9	2,4-Dimethylphenol	5500	U
111-91-1	bis(2-Chloroethoxy)methane	5500	U
120-83-2	2,4-Dichlorophenol	5500	U
91-20-3	Naphthalene	5500	U
106-47-8	4-Chloroaniline	5500	U
87-68-3	Hexachlorobutadiene	5500	U
105-60-2	Caprolactam	5500	U
59-50-7	4-Chloro-3-methylphenol	5500	U
91-57-6	2-Methylnaphthalene	5500	U
77-47-4	Hexachlorocyclopentadiene	5500	U
88-06-2	2,4,6-Trichlorophenol	5500	U
95-95-4	2,4,5-Trichlorophenol	14000	U
92-52-4	1,1'-Biphenyl	5500	U
91-58-7	2-Chloronaphthalene	5500	U
88-74-4	2-Nitroaniline	14000	U
131-11-3	Dimethylphthalate	5500	U
606-20-2	2,6-Dinitrotoluene	5500	U
208-96-8	Acenaphthylene	5500	U
99-09-2	3-Nitroaniline	14000	U
83-32-9	Acenaphthene	5500	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K9RE

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-10

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-10DC66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 40 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	14000	U
100-02-7	4-Nitrophenol	14000	U
132-64-9	Dibenzofuran	5500	U
121-14-2	2,4-Dinitrotoluene	5500	U
84-66-2	Diethylphthalate	5500	U
86-73-7	Fluorene	5500	U
7005-72-3	4-Chlorophenyl-phenylether	5500	U
100-01-6	4-Nitroaniline	14000	U
534-52-1	4,6-Dinitro-2-methylphenol	14000	U
86-30-6	N-nitrosodiphenylamine (1)	5500	U
101-55-3	4-Bromophenyl-phenylether	5500	U
118-74-1	Hexachlorobenzene	5500	U
1912-24-9	Atrazine	5500	U
87-86-5	Pentachlorophenol	14000	U
85-01-8	Phenanthrene	5500	U
120-12-7	Anthracene	5500	U
86-74-8	Carbazole	5500	U
84-74-2	Di-n-butylphthalate	5500	U
206-44-0	Fluoranthene	780	J
129-00-0	Pyrene	1500	J
85-68-7	Butylbenzylphthalate	5500	U
91-94-1	3,3'-Dichlorobenzidine	5500	U
56-55-3	Benzo(a)anthracene	280	J
218-01-9	Chrysene	520	J
117-81-7	bis(2-Ethylhexyl)phthalate	1600	JB
117-84-0	Di-n-octylphthalate	5500	U
205-99-2	Benzo(b)fluoranthene	220	J
207-08-9	Benzo(k)fluoranthene	5500	U
50-32-8	Benzo(a)pyrene	130	J
193-39-5	Indeno(1,2,3-cd)pyrene	5500	U
53-70-3	Dibenzo(a,h)anthracene	5500	U
191-24-2	Benzo(g,h,i)perylene	5500	U

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

E00K9RE

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-10DC66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 40 Decanted: (Y/N) N Date Extracted:11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	SUBSTITUTED BENZENE	9.00	21000	J
2.	SUBSTITUTED BENZENE	9.61	26000	J
3.	UNKNOWN	9.76	9100	J
4. 100-18-5	BENZENE, 1,4-BIS(1-METHYLETH	9.93	18000	NJ
5.	UNKNOWN	10.19	11000	J
6.	UNKNOWN	10.63	9600	J
7.	UNKNOWN	10.78	13000	J
8.	UNKNOWN	10.83	8900	J
9.	UNKNOWN	11.18	15000	J
10.	UNKNOWN	11.59	14000	J
11.	UNKNOWN	11.66	19000	J
12.	UNKNOWN	11.77	12000	J
13.	UNKNOWN	11.84	9200	J
14.	UNKNOWN	11.93	18000	J
15.	UNKNOWN	11.98	24000	J
16. 529-05-5	AZULENE, 7-ETHYL-1,4-DIMETHY	12.33	21000	NJ
17.	UNKNOWN	12.42	9400	J
18.	UNKNOWN	12.50	39000	J
19.	UNKNOWN	12.67	27000	J
20.	UNKNOWN	12.80	11000	J
21.	UNKNOWN	13.19	24000	J
22. 489-84-9	AZULENE, 1,4-DIMETHYL-7-(1-M	13.41	9600	NJ
23. 489-84-9	AZULENE, 1,4-DIMETHYL-7-(1-M	13.53	7900	NJ
24. 0-00-0	.BETA.-CARBOLINE, 8-METHOXY-	14.36	13000	NJ
25.	UNKNOWN	15.22	8100	J
26.	UNKNOWN	15.30	8200	J
27.	UNKNOWN	15.51	6400	J
28.	UNKNOWN	15.74	3800	J
29.	UNKNOWN	15.81	3100	J
30.	UNKNOWN	16.00	3200	J

QUALITY ASSURANCE NOTICE

CompuChem ID# E00J2-10

Client ID# E00K9

Case # E00J2

Due to severe matrix interferences present in the semivolatile fraction of this sample, the following Internal Standard(s) had responses which varied considerably from the associated Continuing Calibration Standard responses.

d10-phenanthrene

d12-chrysene

d12-perylene

This sample was reanalyzed to confirm the matrix effects, and initial results were verified. Depending on the degree of interference, surrogate reccveries may also be affected for those compounds quantitated using the affected internal standard(s). Both sample analyses are being reported.

Additional Comments: _____

Reviewer's initials/ID _____/624

date 11-30-2001

QAN-VSV-5
010918

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L0

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-11

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-11C66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 31 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	230	J
108-95-2	Phenol	480	U
111-44-4	bis(2-Chloroethyl)ether	480	U
95-57-8	2-Chlorophenol	480	U
95-48-7	2-Methylphenol	480	U
108-60-1	2,2'-oxybis(1-Chloropropane)	480	U
98-86-2	Acetophenone	480	U
106-44-5	4-Methylphenol	480	U
621-64-7	N-Nitroso-di-n-propylamine	480	U
67-72-1	Hexachloroethane	480	U
98-95-3	Nitrobenzene	480	U
78-59-1	Isophorone	480	U
88-75-5	2-Nitrophenol	480	U
105-67-9	2,4-Dimethylphenol	480	U
111-91-1	bis(2-Chloroethoxy)methane	480	U
120-83-2	2,4-Dichlorophenol	480	U
91-20-3	Naphthalene	480	U
106-47-8	4-Chloroaniline	480	U
87-68-3	Hexachlorobutadiene	480	U
105-60-2	Caprolactam	480	U
59-50-7	4-Chloro-3-methylphenol	480	U
91-57-6	2-Methylnaphthalene	480	U
77-47-4	Hexachlorocyclopentadiene	480	U
88-06-2	2,4,6-Trichlorophenol	480	U
95-95-4	2,4,5-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	480	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	480	U
606-20-2	2,6-Dinitrotoluene	480	U
208-96-8	Acenaphthylene	480	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	480	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L0

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-11

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-11C66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 31 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

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	480	U
121-14-2	2,4-Dinitrotoluene	480	U
84-66-2	Diethylphthalate	480	U
86-73-7	Fluorene	480	U
7005-72-3	4-Chlorophenyl-phenylether	480	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-nitrosodiphenylamine (1)	480	U
101-55-3	4-Bromophenyl-phenylether	480	U
118-74-1	Hexachlorobenzene	480	U
1912-24-9	Atrazine	480	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	81	J
120-12-7	Anthracene	14	J
86-74-8	Carbazole	17	J
84-74-2	Di-n-butylphthalate	480	U
206-44-0	Fluoranthene	150	J
129-00-0	Pyrene	130	J
85-68-7	Butylbenzylphthalate	42	J
91-94-1	3,3'-Dichlorobenzidine	480	U
56-55-3	Benzo(a)anthracene	69	J
218-01-9	Chrysene	93	J
117-81-7	bis(2-Ethylhexyl)phthalate	600	B
117-84-0	Di-n-octylphthalate	130	J
205-99-2	Benzo(b)fluoranthene	84	J
207-08-9	Benzo(k)fluoranthene	97	J
50-32-8	Benzo(a)pyrene	80	J
193-39-5	Indeno(1,2,3-cd)pyrene	51	J
53-70-3	Dibenzo(a,h)anthracene	22	J
191-24-2	Benzo(g,h,i)perylene	480	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00L0

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-11C66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 31 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-13-4	2,5-HEXANEDIONE	5.79	420	NJ
2.	UNKNOWN	8.31	300	J
3.	UNKNOWN	9.59	420	J
4.	UNKNOWN	10.22	340	J
5.	UNKNOWN	15.03	280	J
6.	UNKNOWN	15.89	120	J
7. 10152-69-9	CYCLOPROPANENONANOIC ACID, 2	18.10	190	NJ
8.	UNKNOWN PHTHALATE	18.64	560	J
9.	UNKNOWN PHTHALATE	18.76	200	J
10. 638-66-4	OCTADECANAL	18.93	1300	NJ
11.	UNKNOWN PHTHALATE	19.05	280	J
12.	UNKNOWN PHTHALATE	19.20	340	J
13.	UNKNOWN PHTHALATE	19.32	270	J
14.	UNKNOWN ALCOHOL	19.61	310	J
15.	UNKNOWN	19.72	260	J
16.	UNKNOWN	20.48	210	J
17. 7390-81-0	OXIRANE, HEXADECYL-	20.70	400	NJ
18.	UNKNOWN	21.72	210	J
19. 2765-11-9	PENTADECANAL-	22.46	210	NJ
20.	UNKNOWN	23.14	4400	J
21.	UNKNOWN	23.31	450	J
22.	UNKNOWN	23.41	810	J
23.	UNKNOWN	24.00	450	J
24.	UNKNOWN	24.45	300	J
25.	UNKNOWN	24.55	200	J
26.	UNKNOWN	24.77	170	J
27.	UNKNOWN	24.86	160	J
28.	UNKNOWN	25.45	400	J
29. 1058-61-3	STIGMAST-4-EN-3-ONE	25.69	680	NJ
30.	UNKNOWN	26.36	320	J

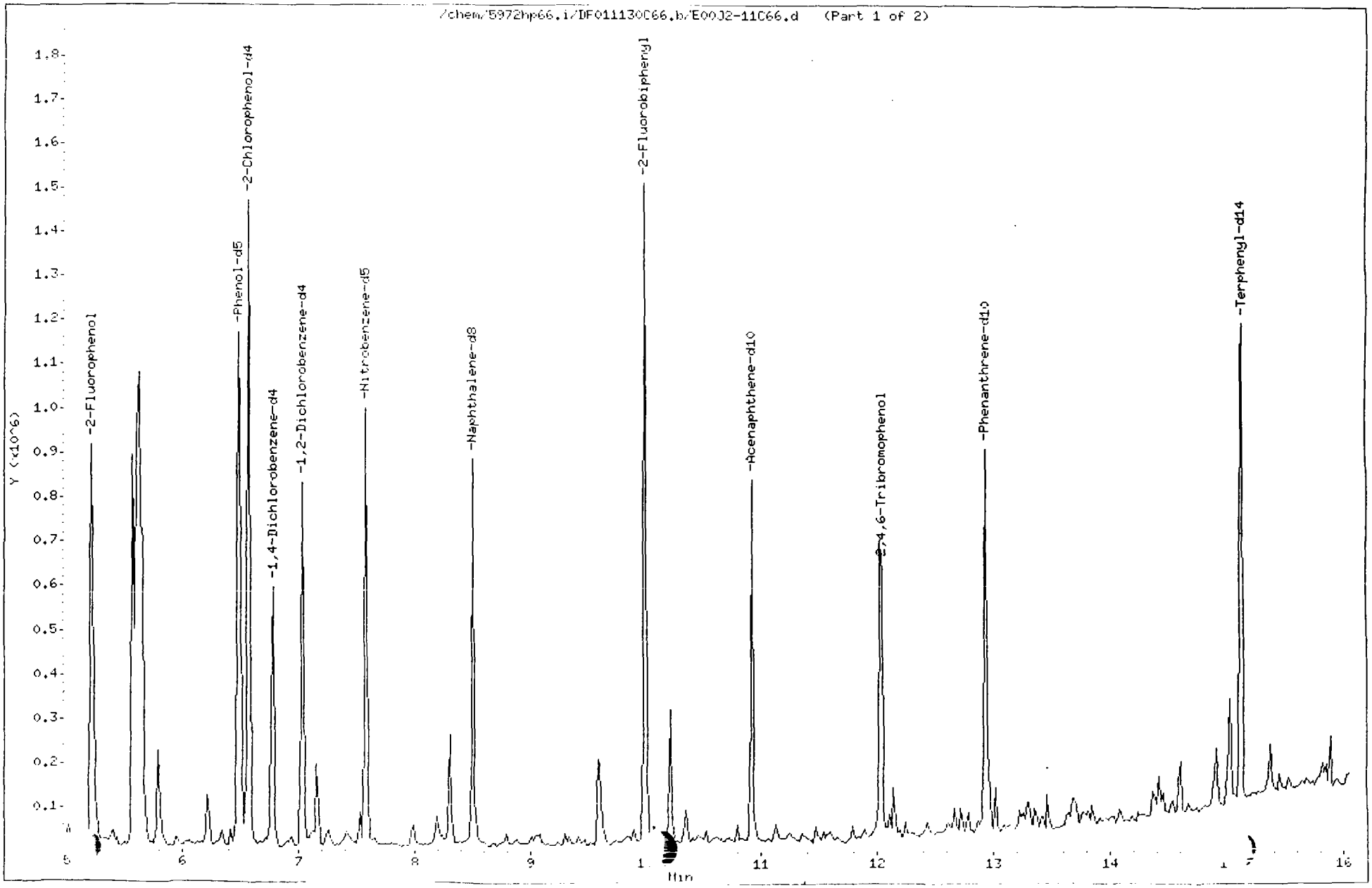
FORM I SV-TIC OLM04.2

Data File: /chem/5972hp66.i/DF011130C66.b/E00J2-11C66.d
Date : 30-NOV-2001 01:47
Client ID: E00L0
Sample Info:
Volume Injected (uL): 2.0
Column phase: PTX-5MS

Instrument: 5972hp66.i

Operator: 917
Column diameter: 0.25

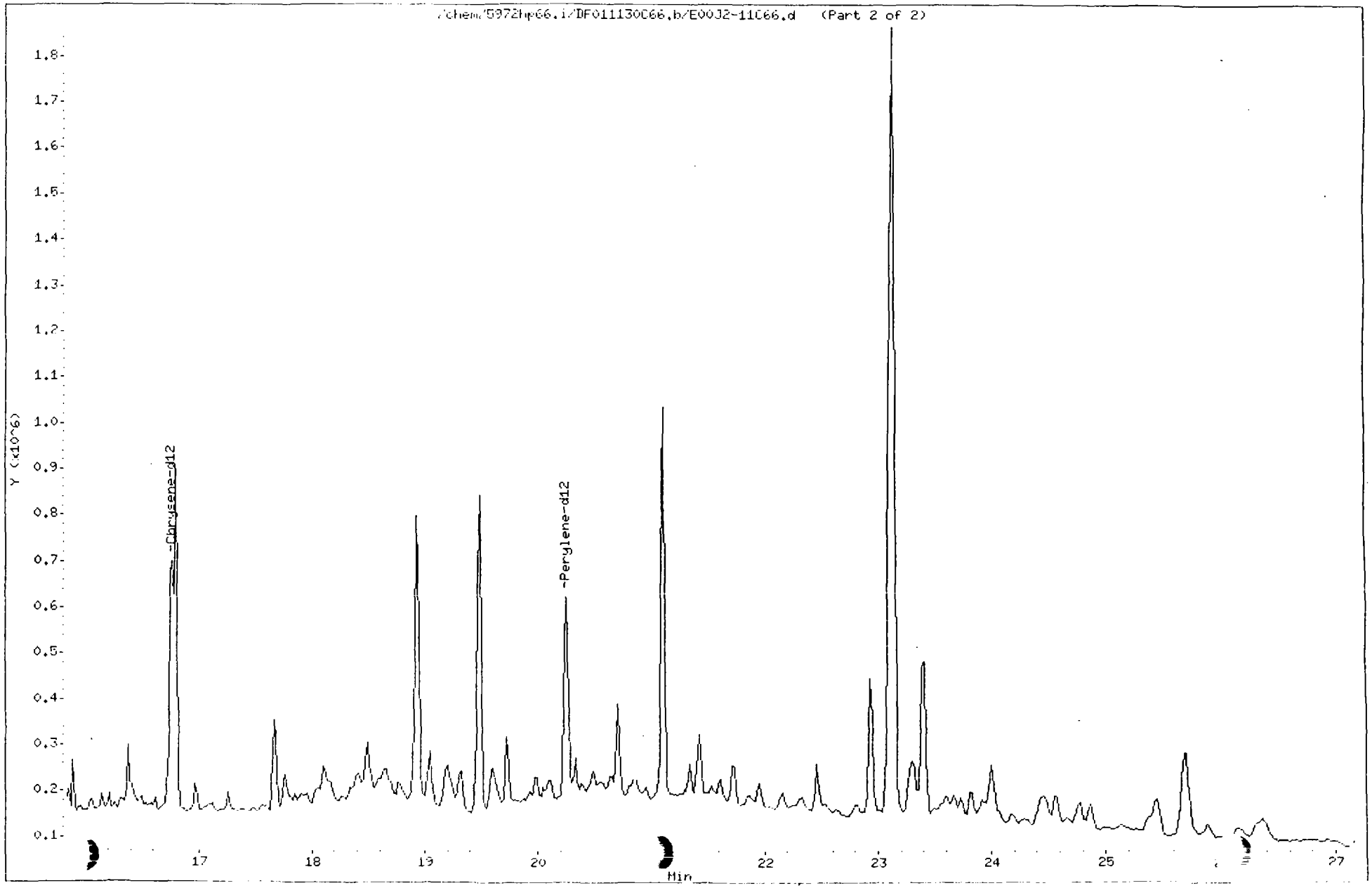
1910



Data File: /chem/5972hp66.i/DF011130C66.b/E00J2-11C66.d
Date : 30-NOV-2001 01:47
Client ID: E00L0
Sample Info:
Volume Injected (uL): 2.0
Column phase: RTX-5MS

Instrument: 5972hp66.i
Operator: 917
Column diameter: 0.25

1911



Data File: /chem/5972hp66.i/DF011130C66.b/E00J2-11C66.d
Report Date: 30-Nov-2001 15:22

CompuChem

OLM04.0 + REVISIONS QUANT AND RATIO REPORT

Data file : /chem/5972hp66.i/DF011130C66.b/E00J2-11C66.d
Lab Smp Id: E00J2-11 Client Smp ID: E00L0
Inj Date : 30-NOV-2001 01:47
Operator : 917 Inst ID: 5972hp66.i
Smp Info :
Misc Info :
Comment :
Method : /chem/5972hp66.i/DF011130C66.b/OLM04v4.m
Meth Date : 30-Nov-2001 12:35 byrd Quant Type: ISTD
Cal Date : 30-NOV-2001 00:36 Cal File: HG011130C66.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: OLM04.sub
Target Version: 3.50

Concentration Formula:
Amt * DF * Uf * Vt/(Vi * Ws * (100 - M)/100)
Uf * Vt/(Vi * Ws * (100 - M)/100) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	2.00000	ng unit correction factor
Vt	500.00000	Volume of final extract (uL)(1000 low, 2
Vi	2.00000	Volume injected (uL)
Ws	30.00000	Weight of sample extracted (g)
M	31.00000	% Moisture

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	SIMILARITY
* 1 1,4-Dichlorobenzene-d4	152	6.787	6.793	(1.000)	131062	40.0000		
* 2 Naphthalene-d8	136	8.510	8.516	(1.000)	471416	40.0000		8572
* 3 Acenaphthene-d10	164	10.925	10.931	(1.000)	253775	40.0000		8250
* 4 Phenanthrene-d10	188	12.935	12.941	(1.000)	375435	40.0000		8524
* 5 Chrysene-d12	240	16.769	16.775	(1.000)	349534	40.0000		8349
* 6 Perylene-d12	264	20.248	20.254	(1.000)	303307	40.0000		7789
$ 7 2-Fluorophenol	112	5.216	5.189	(0.769)	460331	94.9402	2293	9250
$ 8 Phenol-d5	99	6.483	6.472	(0.955)	696332	105.678	2553	7472
$ 9 2-Chlorophenol-d4	132	6.568	6.557	(0.968)	512188	114.792	2773	8116
$ 10 1,2-Dichlorobenzene-d4	152	7.040	7.047	(1.037)	168978	54.9998	1328	7981
$ 11 Nitrobenzene-d5	82	7.581	7.587	(0.891)	432717	66.1547	1598	7860
$ 12 2-Fluorobiphenyl	172	9.996	10.002	(0.915)	551883	68.8691	1664	9577

Data File: /chem/5972hp66.i/DF011130C66.b/E00J2-11C66.d
Report Date: 30-Nov-2001 15:22

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	SIMILARITY
13 2,4,6-Tribromophenol	330	12.040	12.046	(0.931)	137245	108.935	2631	8620
14 Terphenyl-d14	244	15.131	15.120	(0.902)	662813	80.8320	1952	9017
15 Benzaldehyde	77	6.230	6.219	(0.918)	44037	9.49587	229.4	8493 a
16 Phenol	94	Compound Not Detected.						
17 Bis(2-Chloroethyl)ether	93	Compound Not Detected.						
18 2-Chlorophenol	128	Compound Not Detected.						
19 2-Methylphenol	108	Compound Not Detected.						
20 2,2'-oxybis(1-Chloropropane)	45	Compound Not Detected.						
21 Acetophenone	105	Compound Not Detected.						
22 4-Methylphenol	108	Compound Not Detected.						
23 N-Nitroso-di-n-propylamine	70	Compound Not Detected.						
24 Hexachloroethane	117	Compound Not Detected.						
25 Nitrobenzene	77	Compound Not Detected.						
26 Isophorone	82	Compound Not Detected.						
27 2-Nitrophenol	139	Compound Not Detected.						
28 2,4-Dimethylphenol	107	Compound Not Detected.						
29 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.						
30 2,4-Dichlorophenol	162	Compound Not Detected.						
31 Naphthalene	128	Compound Not Detected.						
32 4-Chloroaniline	127	Compound Not Detected.						
33 Hexachlorobutadiene	225	Compound Not Detected.						
34 Caprolactam	113	Compound Not Detected.						
35 4-Chloro-3-methylphenol	107	Compound Not Detected.						
36 2-Methylnaphthalene	142	Compound Not Detected.						
37 Hexachlorocyclopentadiene	237	Compound Not Detected.						
38 2,4,6-Trichlorophenol	196	Compound Not Detected.						
39 2,4,5-Trichlorophenol	196	Compound Not Detected.						
40 1,1'-Biphenyl	154	Compound Not Detected.						
41 2-Chloronaphthalene	162	Compound Not Detected.						
42 2-Nitroaniline	65	Compound Not Detected.						
43 Dimethylphthalate	163	Compound Not Detected.						
44 2,6-Dinitrotoluene	165	Compound Not Detected.						
45 Acenaphthylene	152	Compound Not Detected.						
46 3-Nitroaniline	138	Compound Not Detected.						
47 Acenaphthene	153	Compound Not Detected.						
48 2,4-Dinitrophenol	184	Compound Not Detected.						
49 4-Nitrophenol	109	Compound Not Detected.						
50 Dibenzofuran	168	Compound Not Detected.						
51 2,4-Dinitrotoluene	165	Compound Not Detected.						
52 Diethylphthalate	149	Compound Not Detected.						
53 Fluorene	166	Compound Not Detected.						
54 4-Chlorophenyl-phenylether	204	Compound Not Detected.						
55 4-Nitroaniline	138	Compound Not Detected.						
56 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.						
57 N-nitrosodiphenylamine	169	Compound Not Detected.						
58 4-Bromophenyl-phenylether	248	Compound Not Detected.						
59 Hexachlorobenzene	284	Compound Not Detected.						
60								

Data File: /chem/5972hp66.i/DF011130C66.b/E00J2-11C66.d
Report Date: 30-Nov-2001 15:22

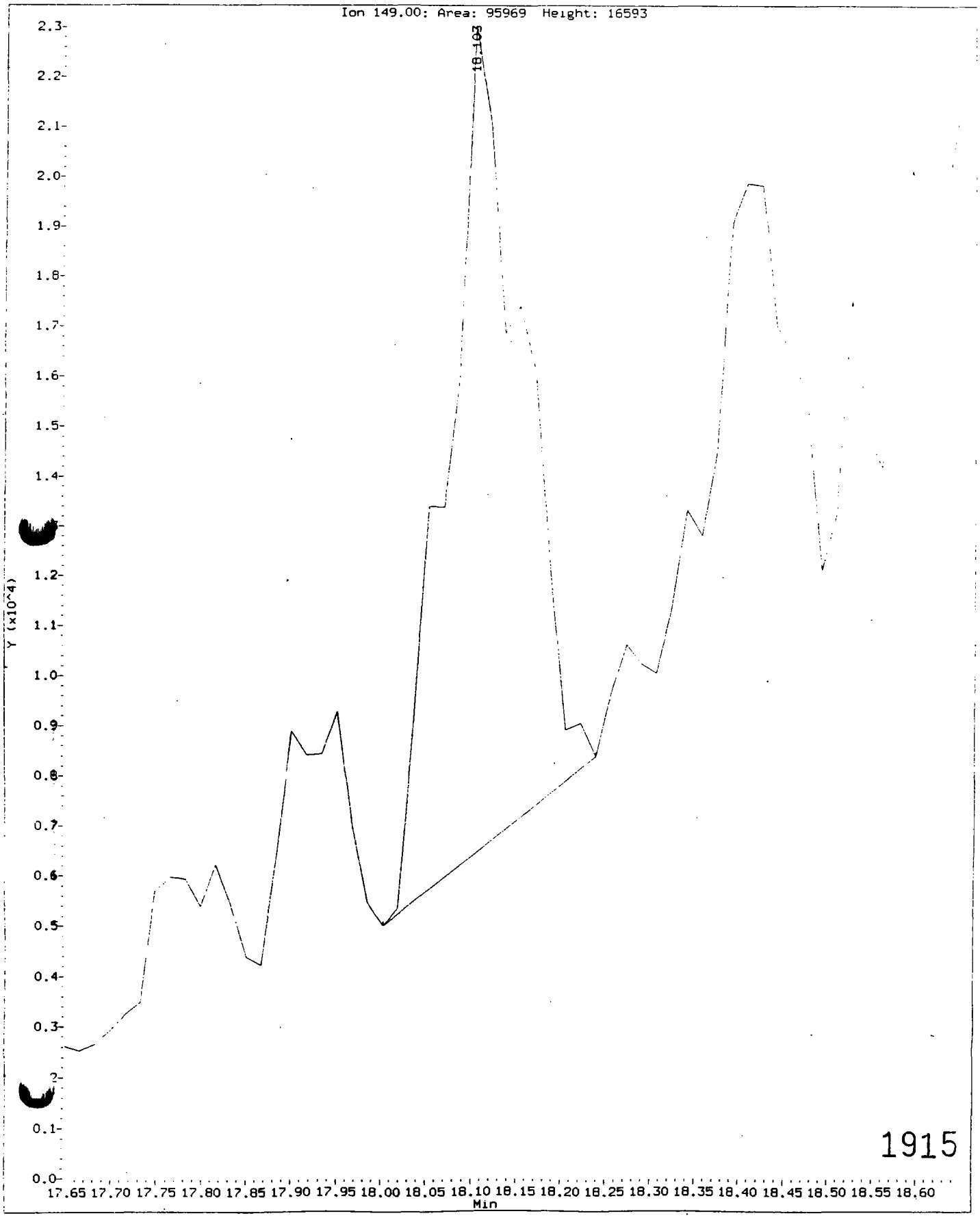
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/Kg)	SIMILARITY	
61 Atrazine	200	Compound Not Detected.							
62 Pentachlorophenol	266	Compound Not Detected.							
63 Phenanthrene	178	12.969	12.975	(1.003)	36522	3.33907	80.65		a
64 Anthracene	178	13.019	13.042	(1.007)	6617	0.59035	14.26		a
65 Carbazole	167	13.273	13.279	(1.026)	6741	0.69582	16.91	8266	a
66 Di-n-butylphthalate	149	Compound Not Detected.							
67 Fluoranthene	202	14.607	14.613	(1.129)	72197	6.01001	145.2		a
68 Pyrene	202	14.911	14.917	(0.889)	53094	5.28916	127.8		a
70 Butylbenzylphthalate	149	15.823	15.829	(0.944)	13373	1.74504	42.15	8684	a
71 3,3'-Dichlorobenzidine	252	Compound Not Detected.							
72 Bis(2-Ethylhexyl)phthalate	149	16.803	16.809	(1.002)	290434	25.0304	604.6	9[illegible]74	
73 Benzo(a)anthracene	228	16.718	16.741	(0.997)	33234	2.87232	69.38		a
74 Chrysene	228	16.803	16.826	(1.002)	41611	3.83771	92.77		a
75 Di-n-octylphthalate	149	18.103	18.143	(0.894)	95969	5.44364	131.5	8339	aM
76 Benzo(b)fluoranthene	252	19.252	19.275	(0.951)	38723	3.46395	83.67		a
77 Benzo(k)fluoranthene	252	19.302	19.342	(0.953)	39910	4.00167	96.66		a
78 Benzo(a)pyrene	252	20.096	20.119	(0.992)	30016	3.30585	79.85	7979	aH
79 Indeno(1,2,3-cd)pyrene	276	22.815	22.838	(1.127)	23255	2.11359	51.05	8348	a
80 Dibenzo(a,h)anthracene	278	22.849	22.889	(1.128)	8457	0.90292	21.81	7330	aM
81 Benzo(g,h,i)perylene	276	Compound Not Detected.							

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/5972hp66.i/DF011130C66.b/E00J2-11C66.d
Injection Date: 30-NOV-2001 01:47
Instrument: 5972hp66.i
Client Sample ID: E00L0

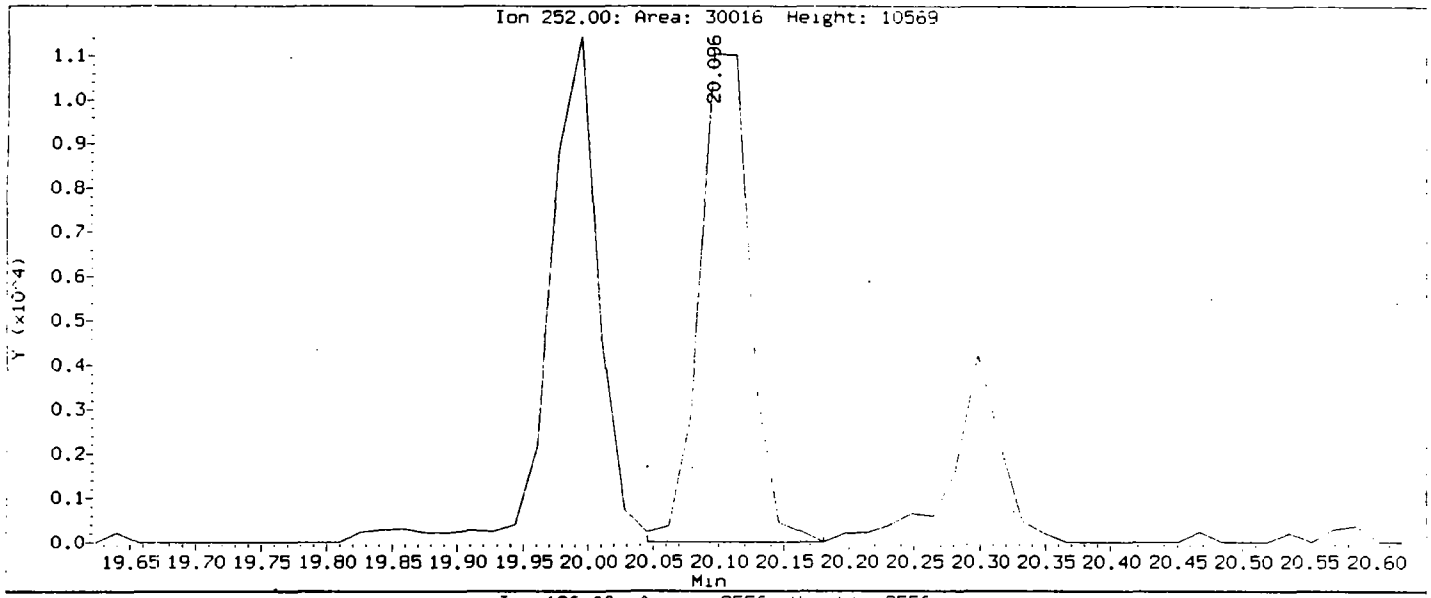
Compound: Di-n-octylphthalate
CAS Number: 117-84-0

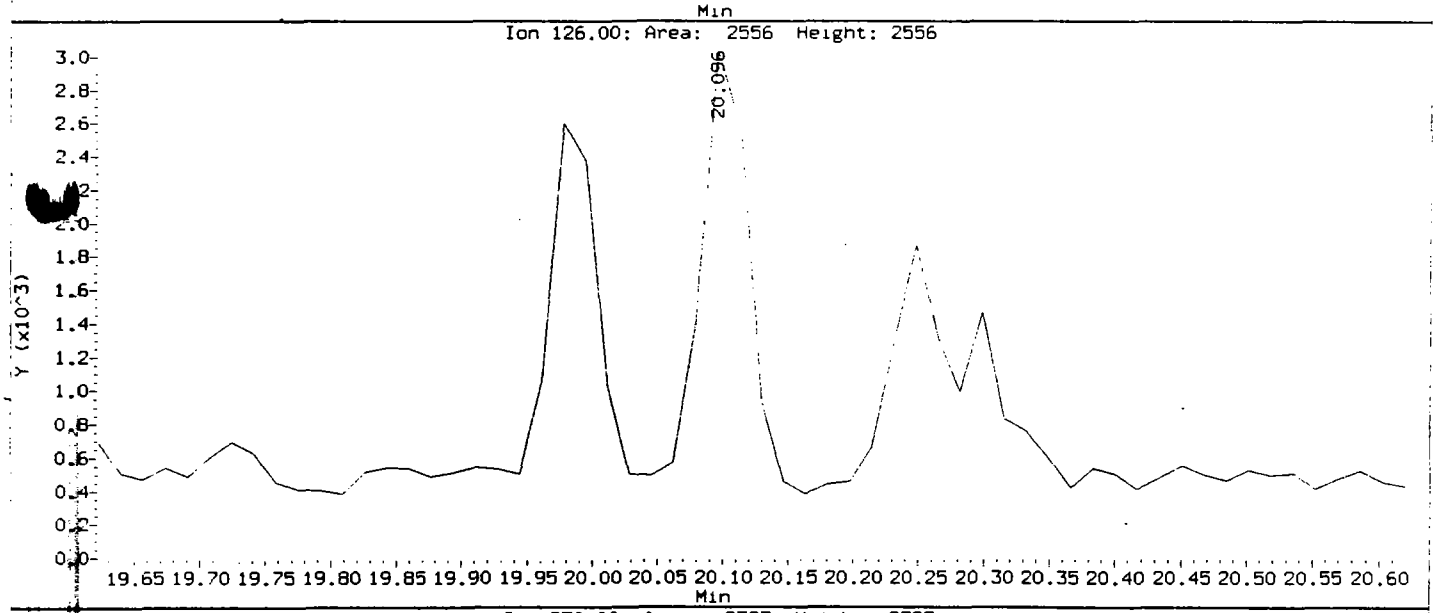


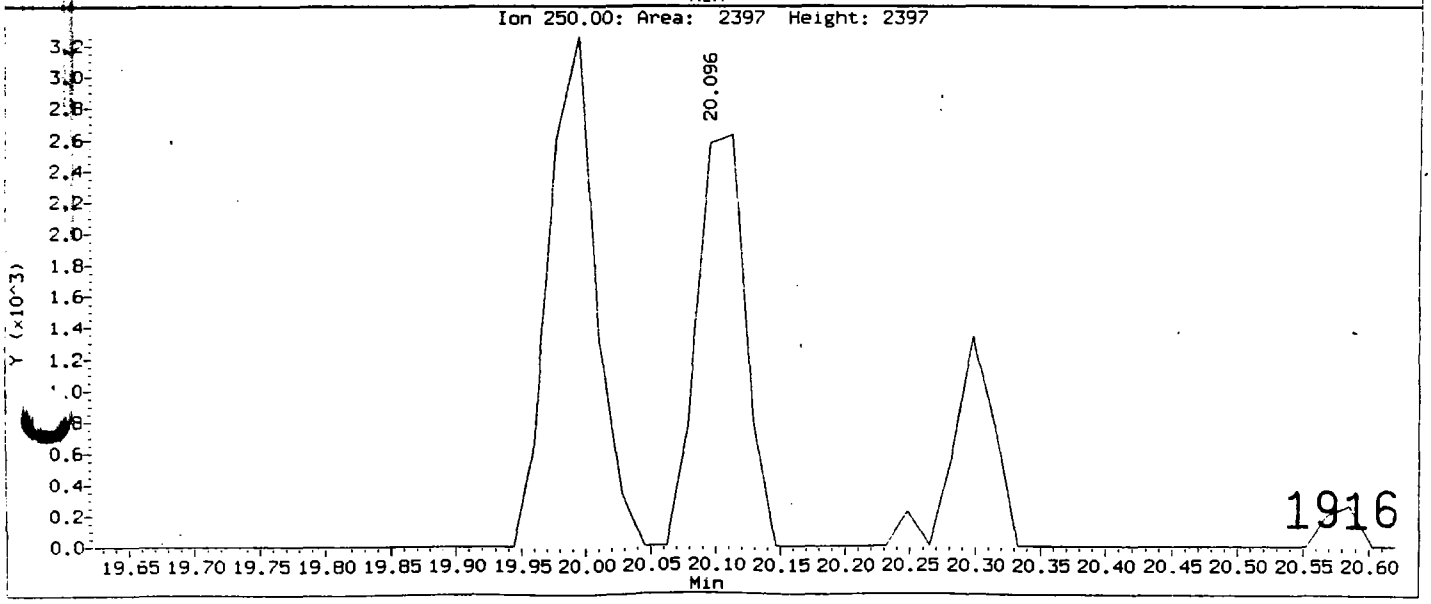
1915

Data File: /chem/5972hp66.i/DF011130C66.b/E00J2-11C66.d
Injection Date: 30-NOV-2001 01:47
Instrument: 5972hp66.i
Client Sample ID: E00LO

Compound: Benzo(a)pyrene
CAS Number: 50-32-8

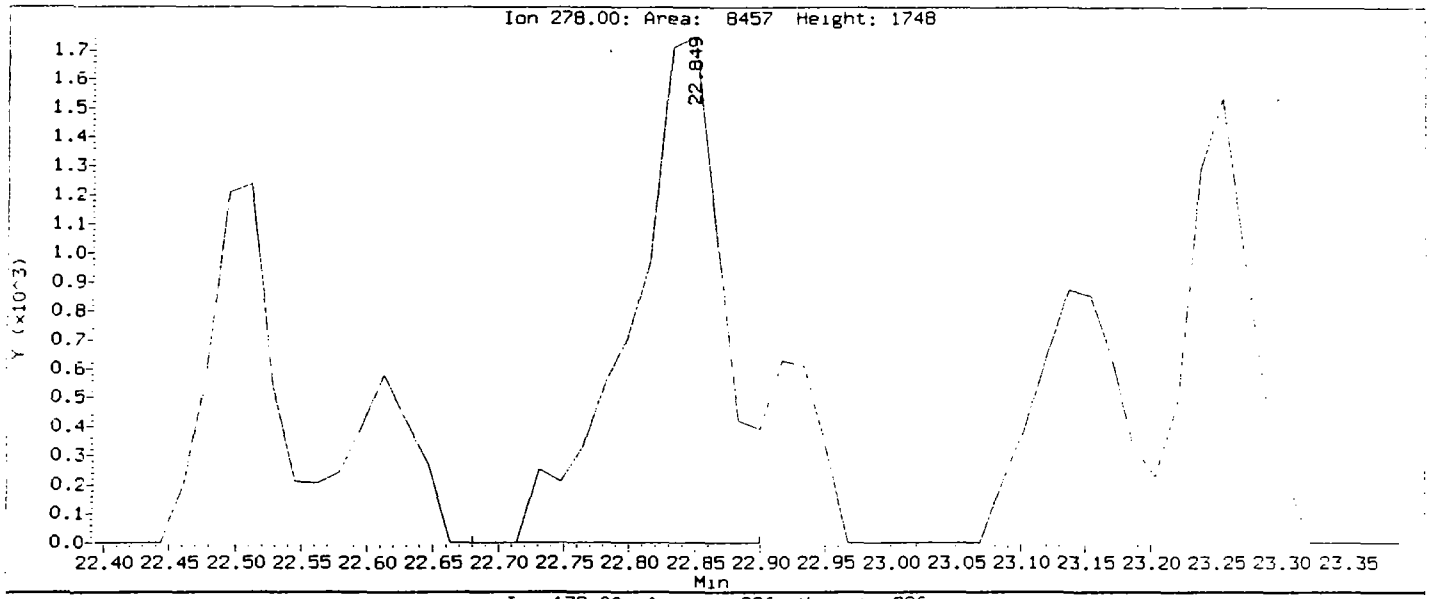


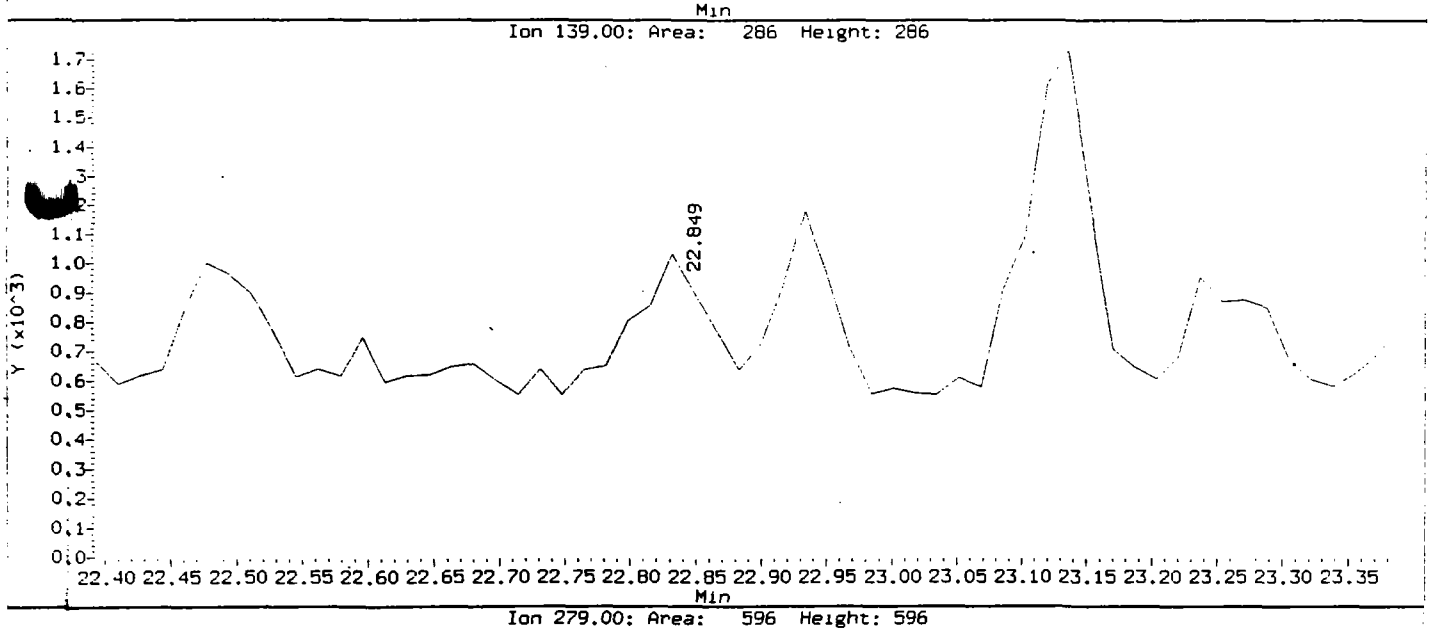


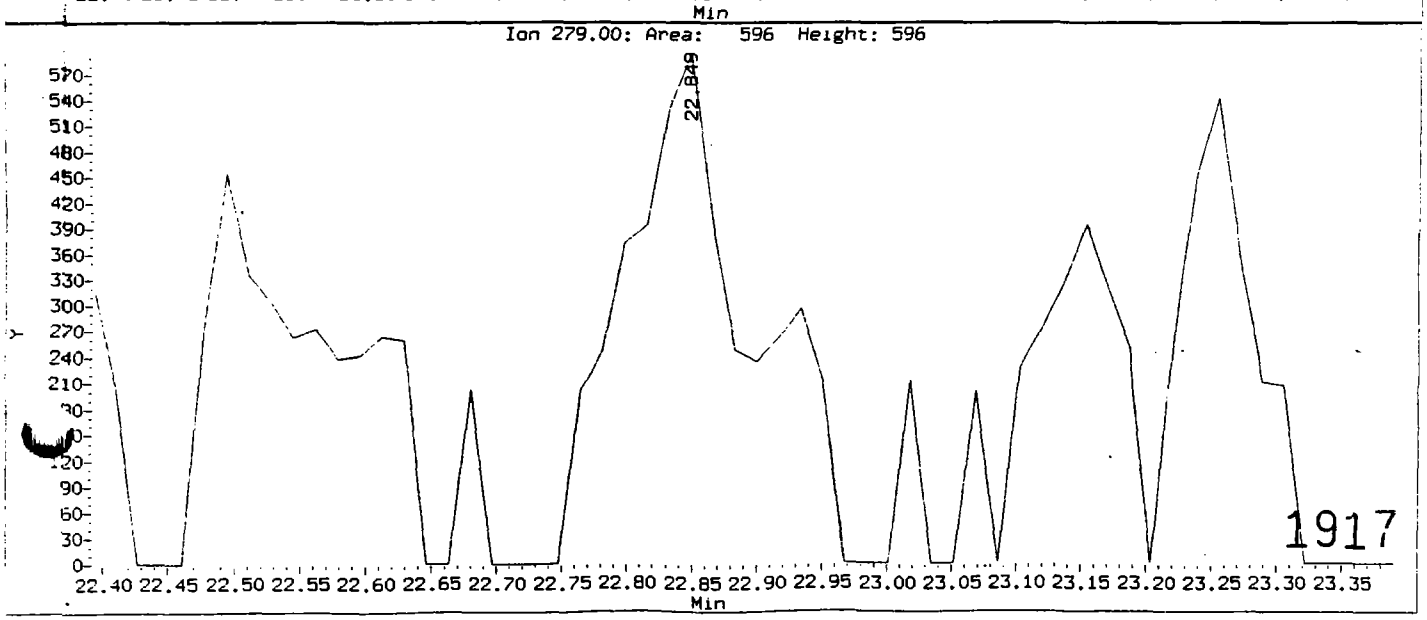


Data File: /chem/5972hp66.i/DF011130C66.b/E00J2-11C66.d
Injection Date: 30-NOV-2001 01:47
Instrument: 5972hp66.i
Client Sample ID: E00L0

Compound: Dibenzo(a,h)anthracene
CAS Number: 53-70-3







Data File: /chem/5972hp66.i/DF011130C66.b/E00J2-11C66.d

Date : 30-NOV-2001 01:47

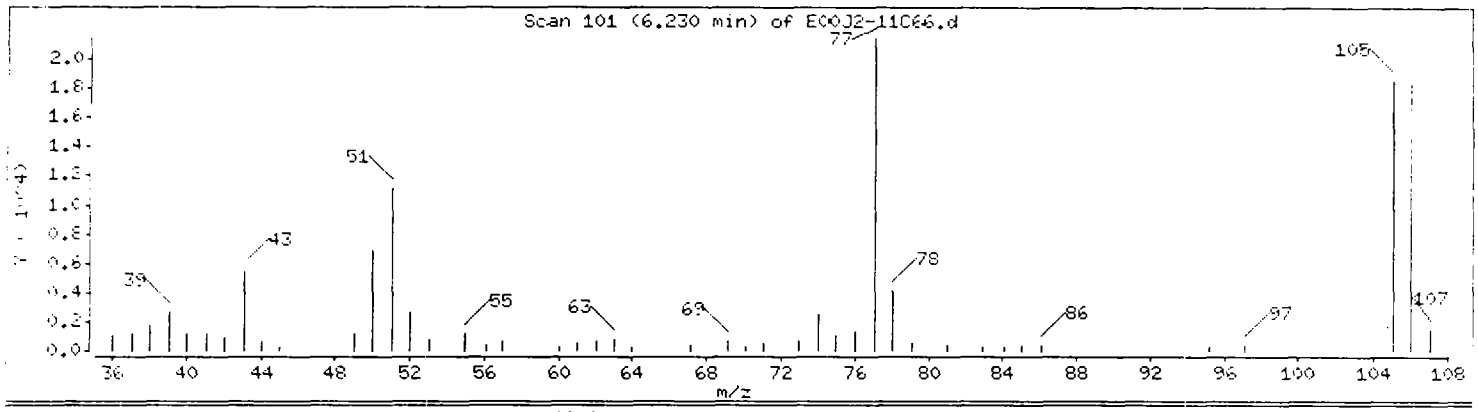
ient ID: E00L0 Instrument: 5972hp66.i

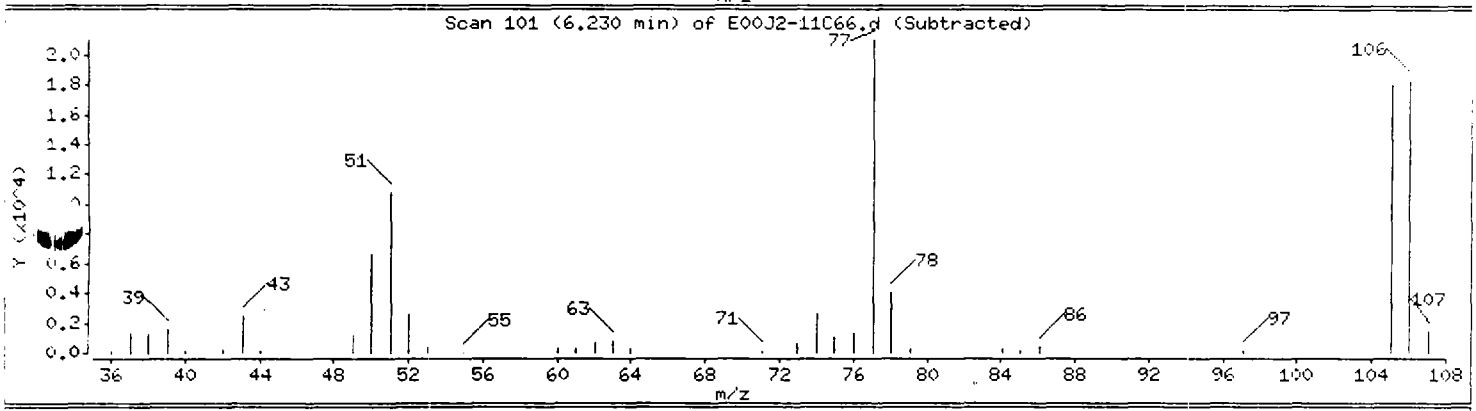
Sample Info:

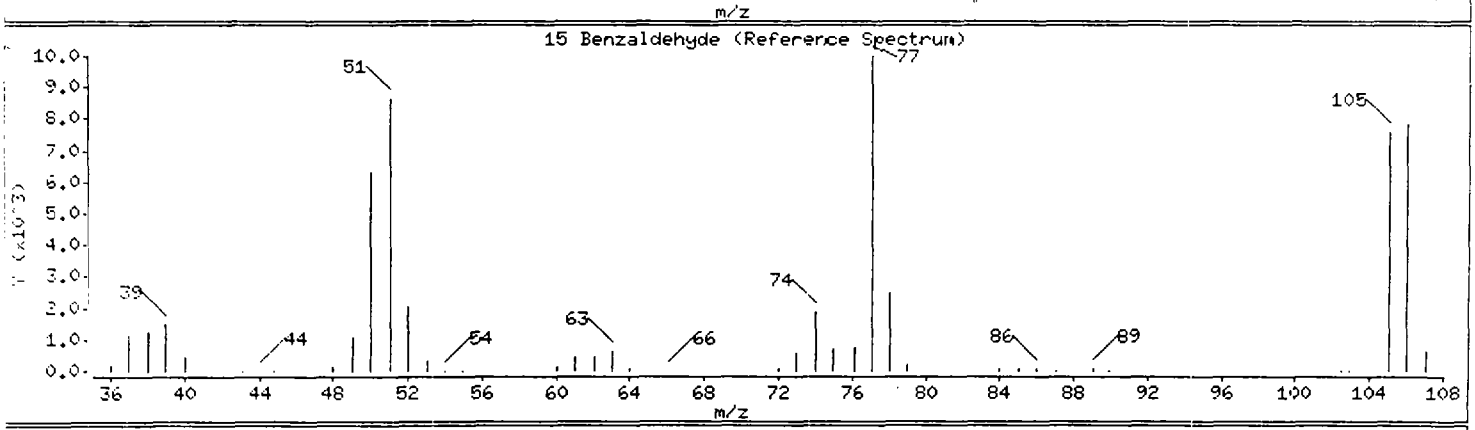
Volume Injected (uL): 2.0 Operator: 917

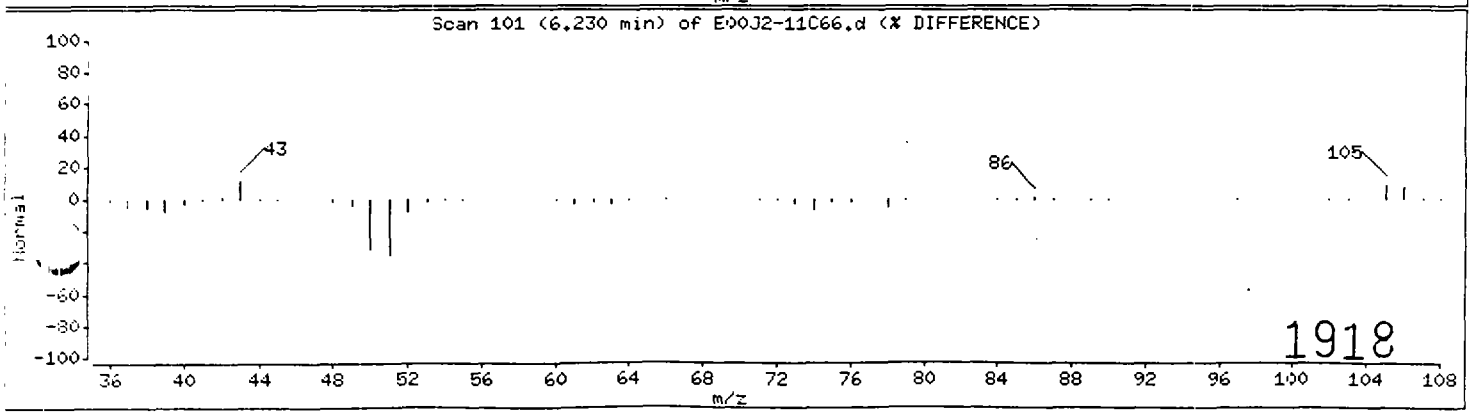
Column phase: RTX-5MS Column diameter: 0.25

15 Benzaldehyde Concentration: 229.4 ug/Kg









1918

Data File: /chem/5972hp66.i/DF011130C66.b/E00J2-11C66.d

Date : 30-NOV-2001 01:47

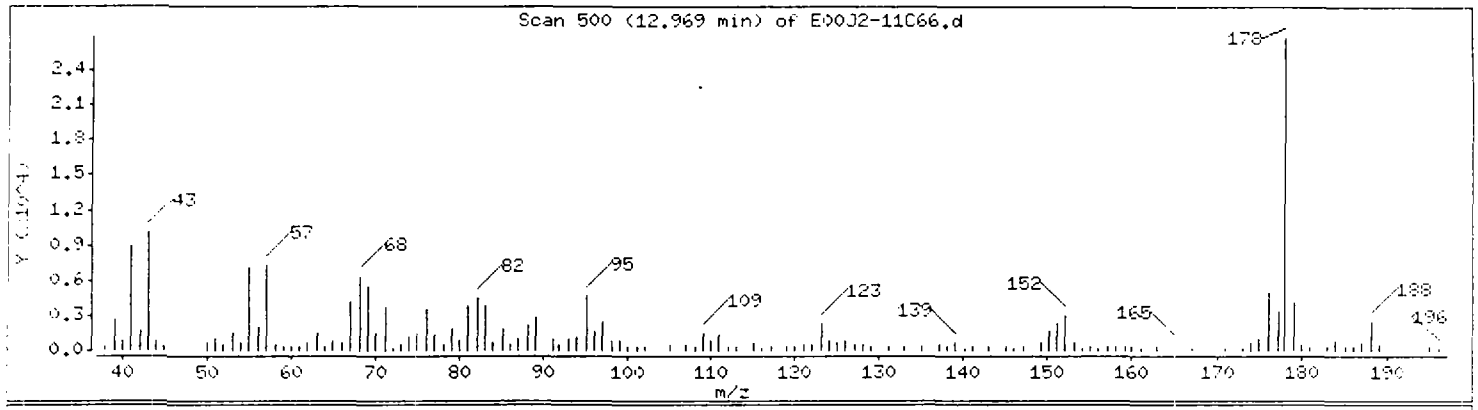
lient ID: E00L0 Instrument: 5972hp66.i

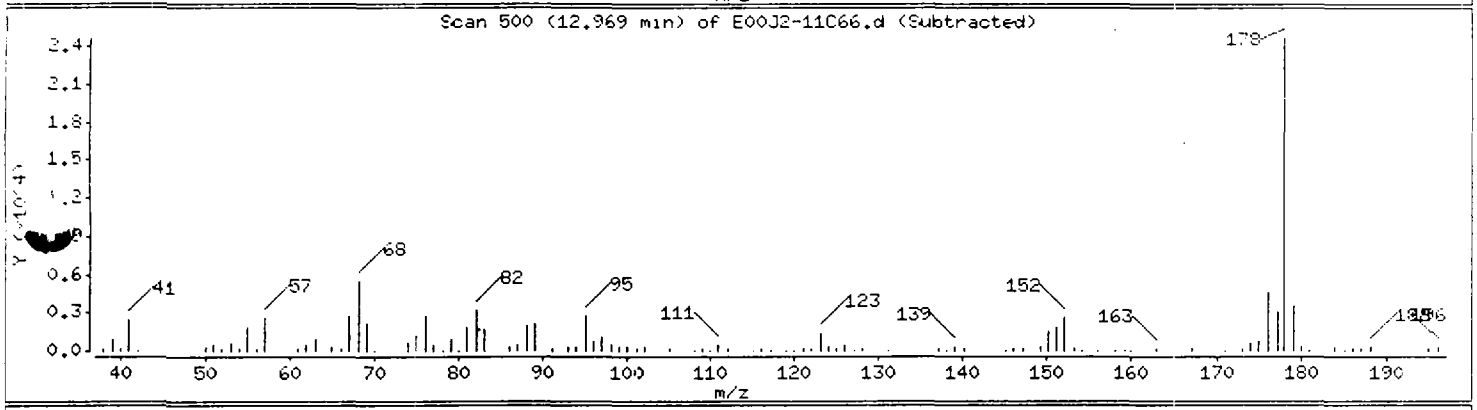
Sample Info:

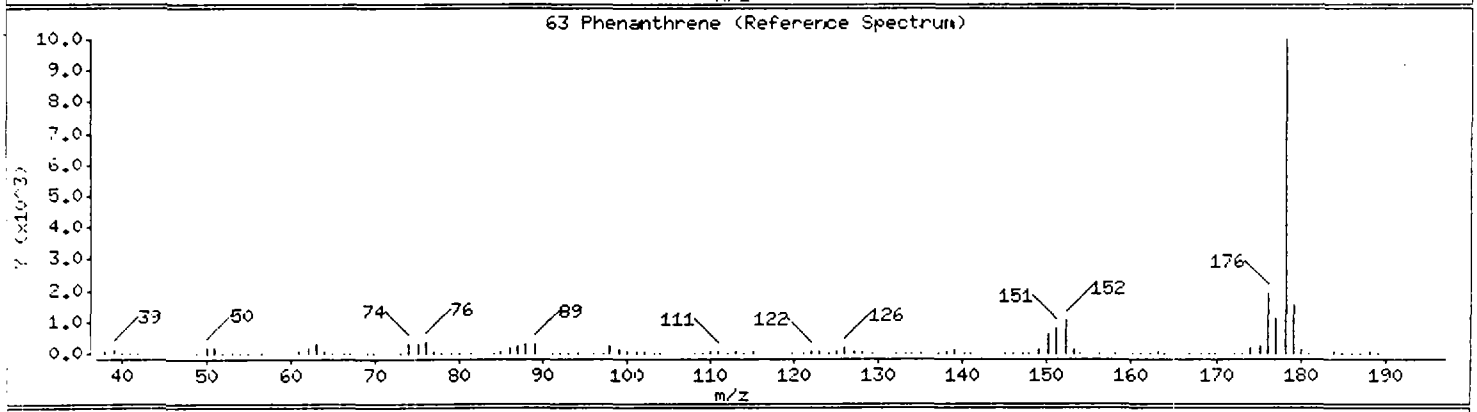
Volume Injected (uL): 2.0 Operator: 917

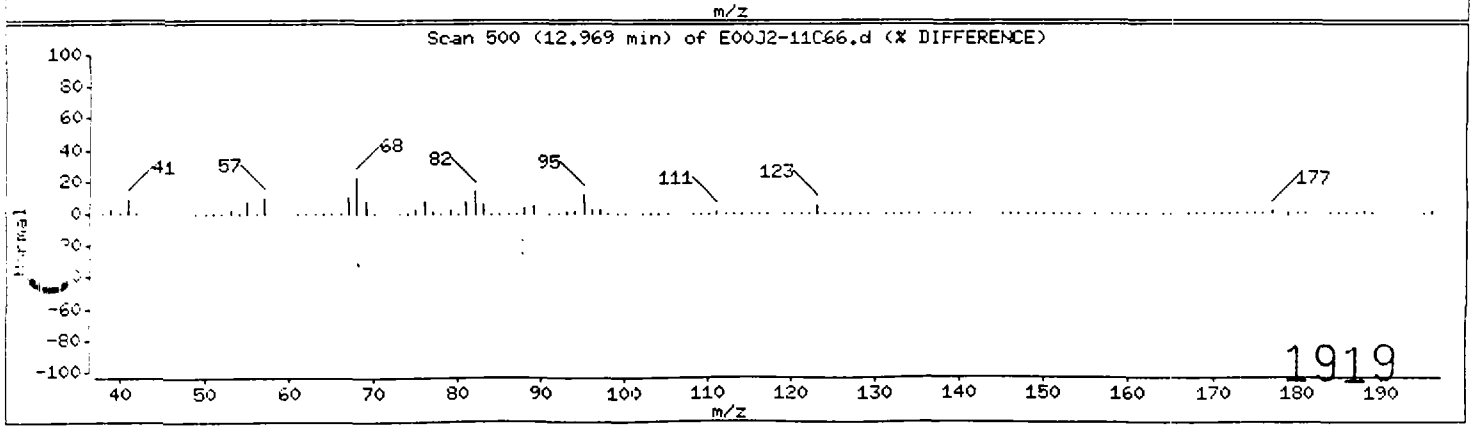
Column phase: RTX-5MS Column diameter: 0.25

63 Phenanthrene Concentration: 80.65 ug/Kg









Data File: /chem/5972hp66.i/DF011130C66.b/E00J2-11C66.d

Date : 30-NOV-2001 01:47

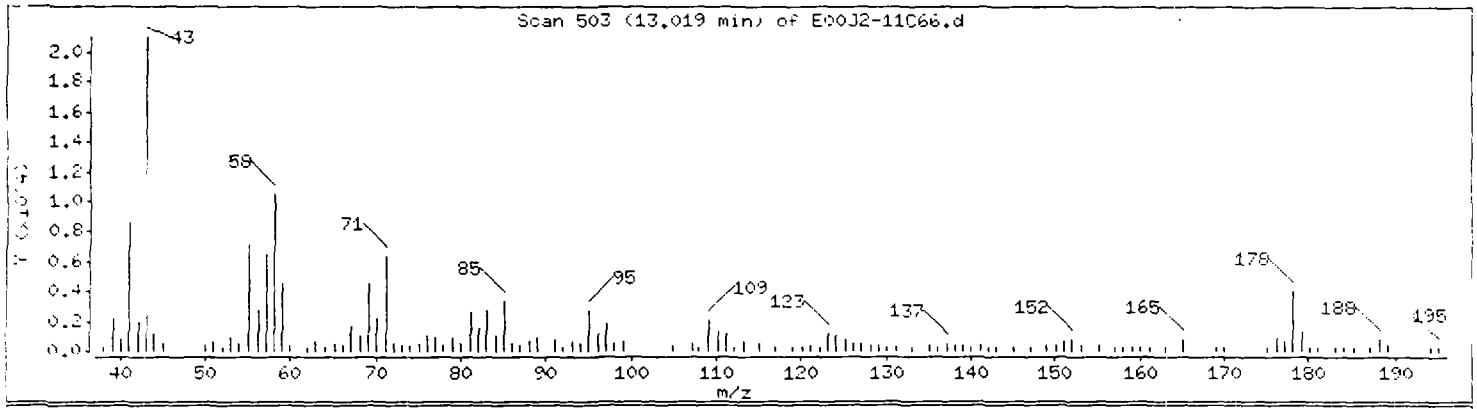
Client ID: E00L0 Instrument: 5972hp66.i

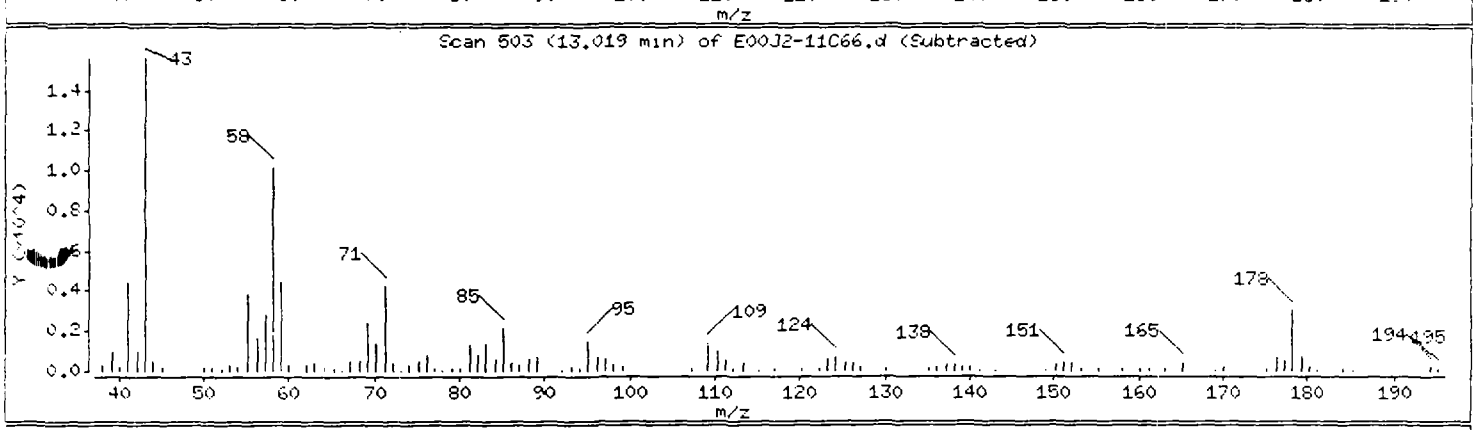
Sample Info:

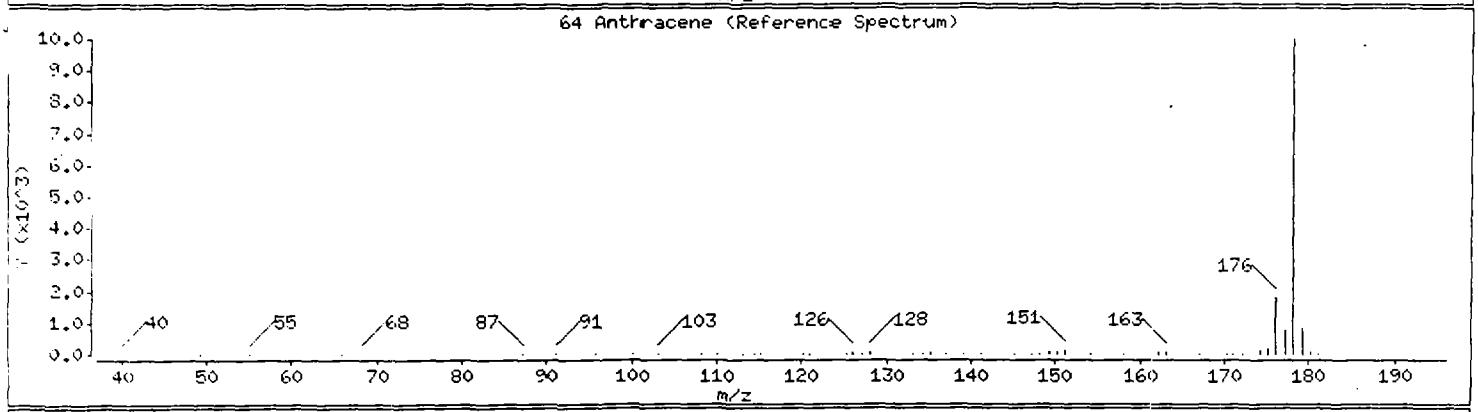
Volume Injected (uL): 2.0 Operator: 917

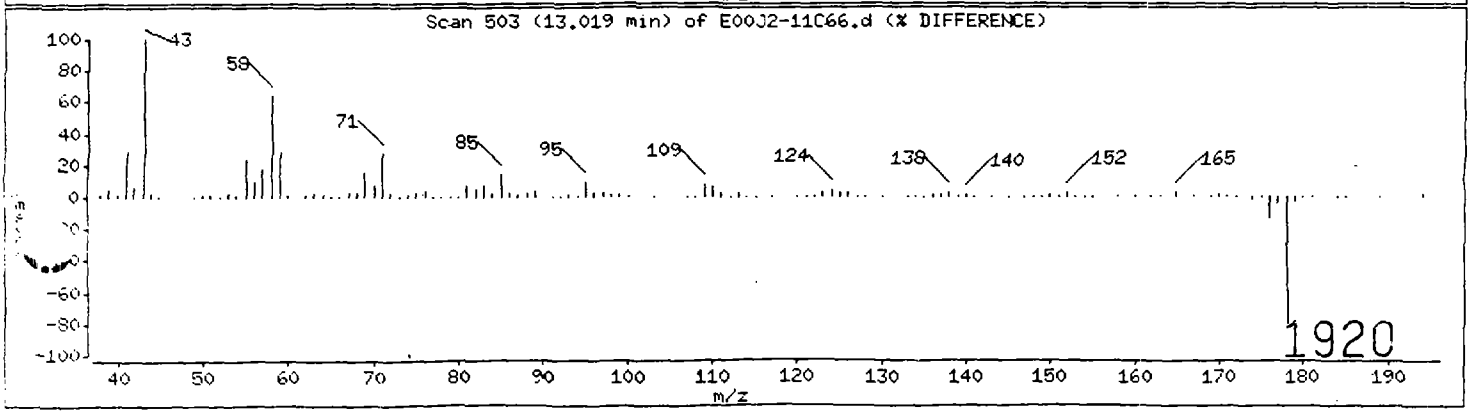
Column phase: RTX-5MS Column diameter: 0.25

64 Anthracene Concentration: 14.26 ug/Kg









Data File: /chem/5972hp66.i/DF011130C66.b/E00J2-11C66.d

Date : 30-NOV-2001 01:47

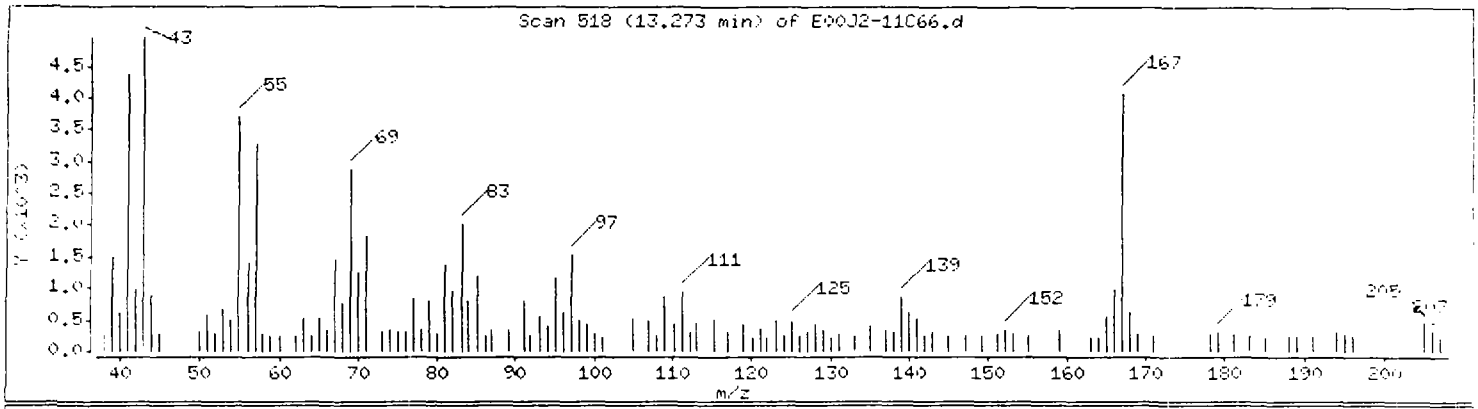
Client ID: E00L0 Instrument: 5972hp66.i

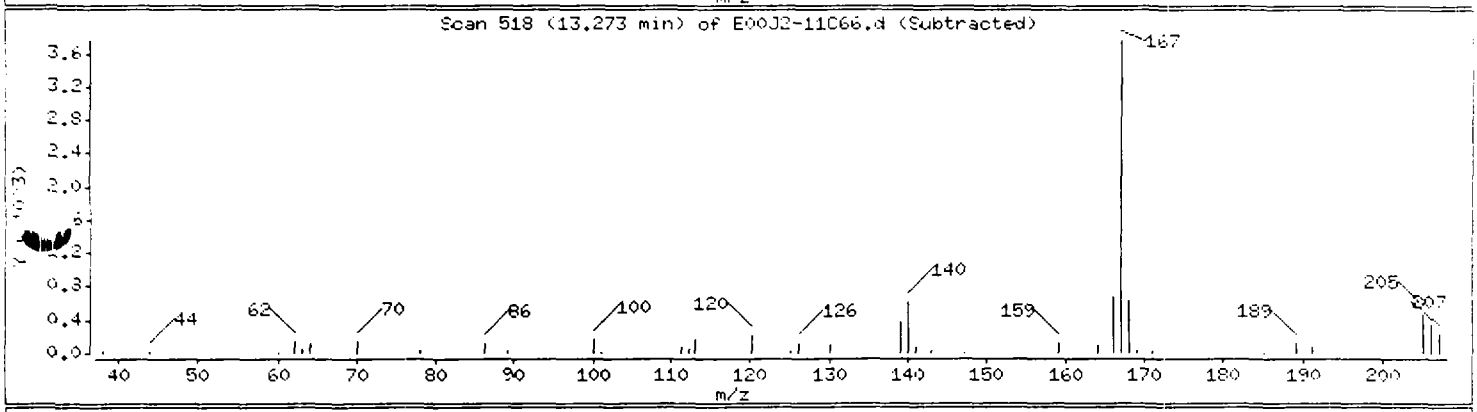
Sample Info:

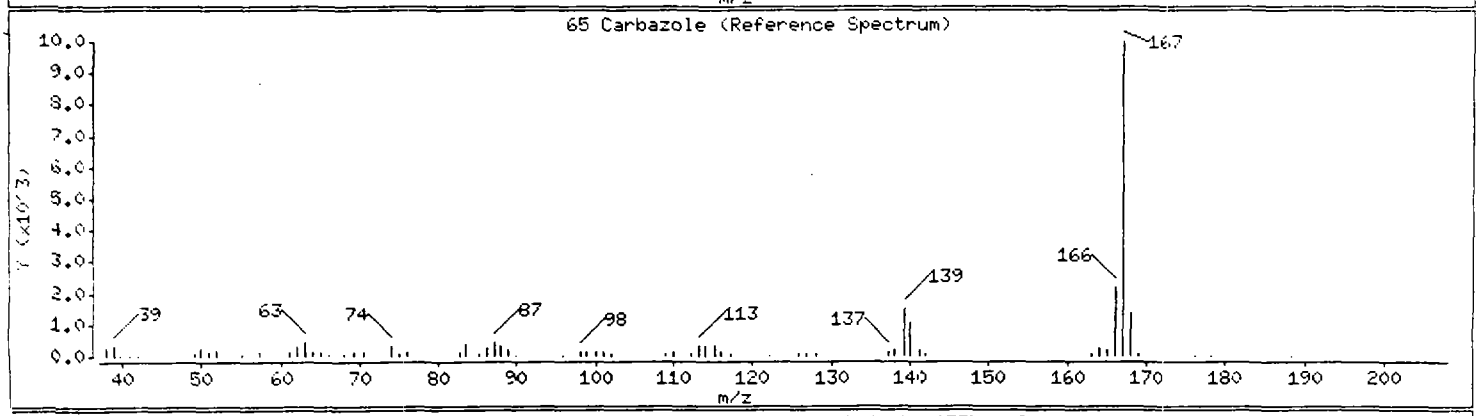
Volume Injected (uL): 2.0 Operator: 917

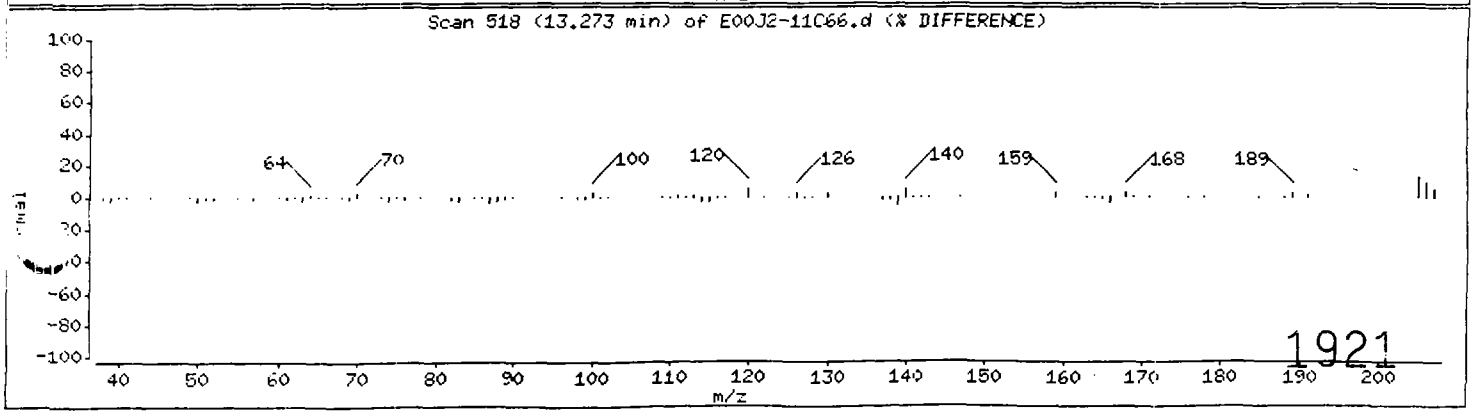
Column phase: RTX-5MS Column diameter: 0.25

65 Carbazole Concentration: 16.81 ug/Kg









Data File: /chem/5972hp66.i/DF011130C66.b/E00J2-11C66.d

Date : 30-NOV-2001 01:47

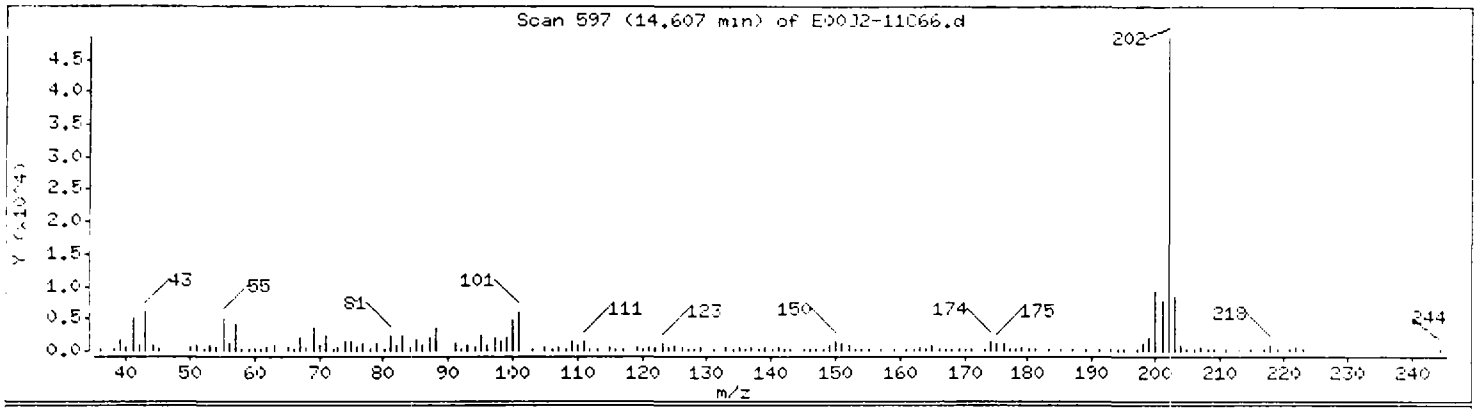
Client ID: E00L0 Instrument: 5972hp66.i

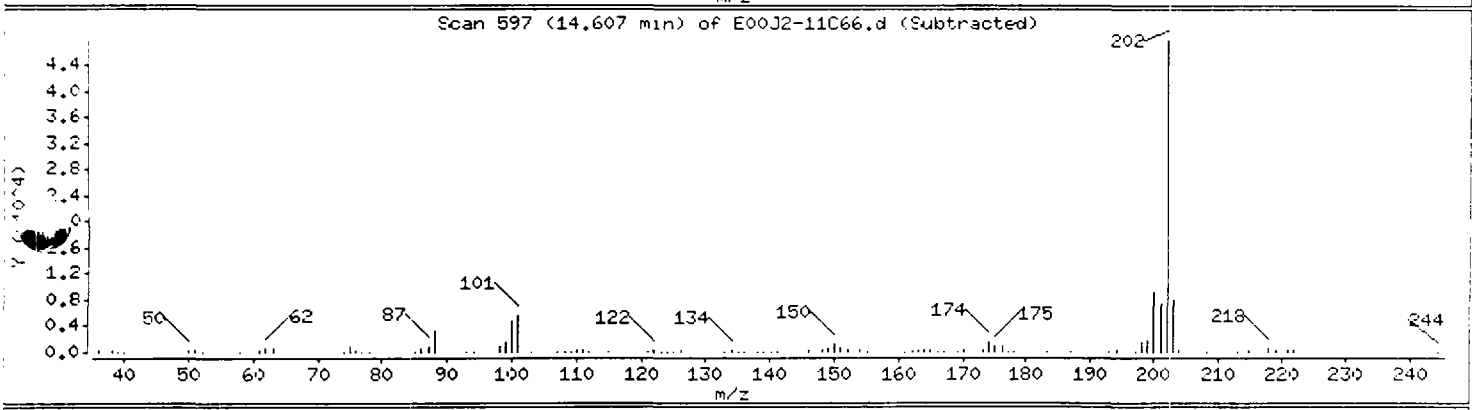
Sample Info:

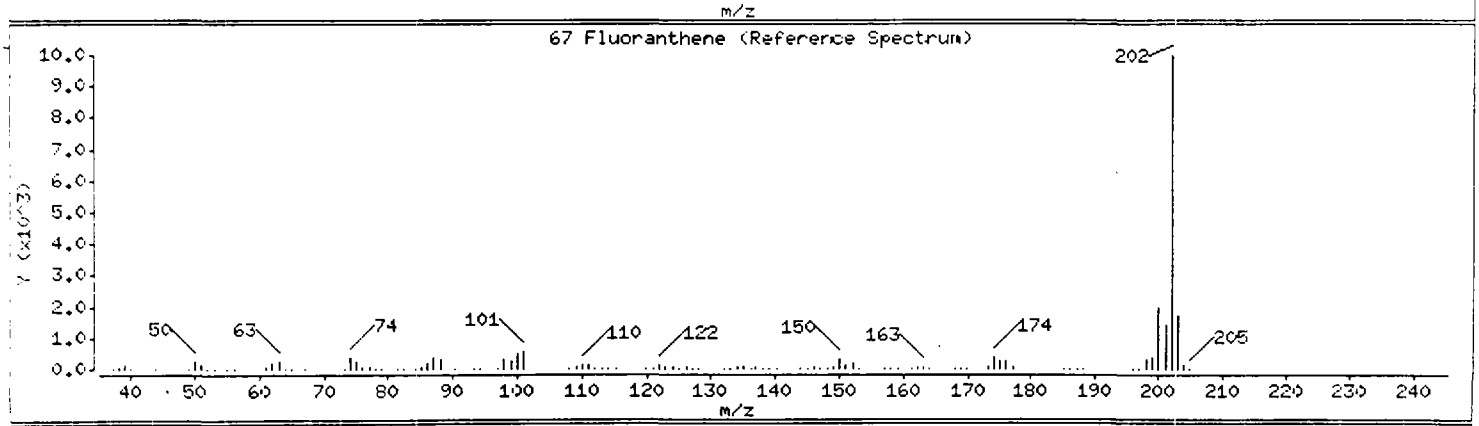
Volume Injected (uL): 2.0 Operator: 917

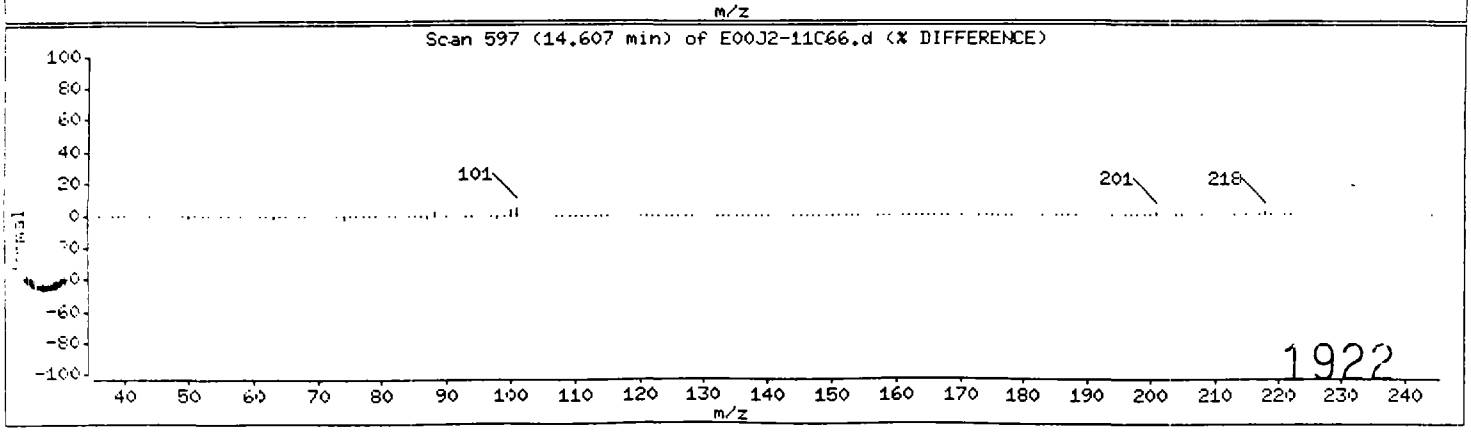
Column phase: RTX-5MS Column diameter: 0.25

67 Fluoranthene Concentration: 145.2 ug/Kg









1922

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L1

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-12

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-12C66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	14	J
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
98-86-2	Acetophenone	17	J
106-44-5	4-Methylphenol	430	U
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	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	12	J
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	23	J
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	17	J
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	430	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L1

ab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-12

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-12C66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7 Extraction: (Type) SONC

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	13	J
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	73	J
120-12-7	Anthracene	27	J
86-74-8	Carbazole	13	J
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	210	J
129-00-0	Pyrene	170	J
85-68-7	Butylbenzylphthalate	14	J
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	96	J
218-01-9	Chrysene	140	J
117-81-7	bis(2-Ethylhexyl)phthalate	170	JB
117-84-0	Di-n-octylphthalate	150	J
205-99-2	Benzo(b)fluoranthene	160	J
207-08-9	Benzo(k)fluoranthene	130	J
50-32-8	Benzo(a)pyrene	110	J
193-39-5	Indeno(1,2,3-cd)pyrene	76	J
53-70-3	Dibenzo(a,h)anthracene	42	J
191-24-2	Benzo(g,h,i)perylene	100	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00L1

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-12C66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 24 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.7 Extraction: (Type) SONC

Number TICs found: 29

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-13-4	2,5-HEXANEDIONE	5.77	870	NJ
2.	UNKNOWN	18.15	200	J
3.	UNKNOWN PHTHALATE	18.66	260	J
4.	UNKNOWN PHTHALATE	18.78	270	J
5.	UNKNOWN	18.93	460	J
6.	UNKNOWN PHTHALATE	19.05	340	J
7.	UNKNOWN PHTHALATE	19.20	450	J
8.	UNKNOWN PHTHALATE	19.32	330	J
9.	UNKNOWN PHTHALATE	19.61	250	J
10.	UNKNOWN	19.72	280	J
11. 198-55-0	PERYLENE	19.99	330	NJ
12.	UNKNOWN	20.38	240	J
13.	UNKNOWN	20.50	270	J
14.	UNKNOWN	20.54	230	J
15.	UNKNOWN	20.64	230	J
16.	UNKNOWN ALDEHYDE	20.70	400	J
17.	UNKNOWN	20.86	450	J
18.	UNKNOWN	20.96	230	J
19.	UNKNOWN	21.35	220	J
20.	UNKNOWN	21.72	200	J
21.	UNKNOWN	21.85	230	J
22.	UNKNOWN	22.16	280	J
23.	UNKNOWN	22.34	230	J
24.	UNKNOWN	22.55	270	J
25. 4630-07-3	NAPHTHALENE, 1,2,3,5,6,7,8,8	23.12	1400	NJ
26.	UNKNOWN	23.27	290	J
27. 473-13-2	NAPHTHALENE, 1,2,3,4,4A,5,6,	23.39	300	NJ
28.	UNKNOWN	24.00	420	J
29.	UNKNOWN	25.45	260	J
30.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-13

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-13DC66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 45 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	93	J
108-95-2	Phenol	6000	U
111-44-4	bis(2-Chloroethyl)ether	6000	U
95-57-8	2-Chlorophenol	6000	U
95-48-7	2-Methylphenol	6000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	6000	U
98-86-2	Acetophenone	6000	U
106-44-5	4-Methylphenol	6000	U
621-64-7	N-Nitroso-di-n-propylamine	6000	U
67-72-1	Hexachloroethane	6000	U
98-95-3	Nitrobenzene	6000	U
78-59-1	Isophorone	6000	U
88-75-5	2-Nitrophenol	6000	U
105-67-9	2,4-Dimethylphenol	6000	U
111-91-1	bis(2-Chloroethoxy)methane	6000	U
120-83-2	2,4-Dichlorophenol	6000	U
91-20-3	Naphthalene	6000	U
106-47-8	4-Chloroaniline	2900	J
87-68-3	Hexachlorobutadiene	6000	U
105-60-2	Caprolactam	6000	U
59-50-7	4-Chloro-3-methylphenol	6000	U
91-57-6	2-Methylnaphthalene	270	J
77-47-4	Hexachlorocyclopentadiene	6000	U
88-06-2	2,4,6-Trichlorophenol	6000	U
95-95-4	2,4,5-Trichlorophenol	15000	U
92-52-4	1,1'-Biphenyl	6000	U
91-58-7	2-Chloronaphthalene	6000	U
88-74-4	2-Nitroaniline	15000	U
131-11-3	Dimethylphthalate	6000	U
606-20-2	2,6-Dinitrotoluene	6000	U
208-96-8	Acenaphthylene	6000	U
99-09-2	3-Nitroaniline	15000	U
83-32-9	Acenaphthene	720	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-13

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-13DC66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 45 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	15000	U
100-02-7	4-Nitrophenol	15000	U
132-64-9	Dibenzofuran	6000	U
121-14-2	2,4-Dinitrotoluene	6000	U
84-66-2	Diethylphthalate	6000	U
86-73-7	Fluorene	6000	U
7005-72-3	4-Chlorophenyl-phenylether	6000	U
100-01-6	4-Nitroaniline	15000	U
534-52-1	4,6-Dinitro-2-methylphenol	15000	U
86-30-6	N-nitrosodiphenylamine (1)	6000	U
101-55-3	4-Bromophenyl-phenylether	6000	U
118-74-1	Hexachlorobenzene	6000	U
1912-24-9	Atrazine	6000	U
87-86-5	Pentachlorophenol	15000	U
85-01-8	Phenanthrene	6000	U
120-12-7	Anthracene	6000	U
86-74-8	Carbazole	6000	U
84-74-2	Di-n-butylphthalate	6000	U
206-44-0	Fluoranthene	3400	J
129-00-0	Pyrene	4000	J
85-68-7	Butylbenzylphthalate	6000	U
91-94-1	3,3'-Dichlorobenzidine	6000	U
56-55-3	Benzo(a)anthracene	1500	J
218-01-9	Chrysene	1800	J
117-81-7	bis(2-Ethylhexyl)phthalate	6400	B
117-84-0	Di-n-octylphthalate	6000	U
205-99-2	Benzo(b)fluoranthene	1500	J
207-08-9	Benzo(k)fluoranthene	1400	J
50-32-8	Benzo(a)pyrene	1100	J
193-39-5	Indeno(1,2,3-cd)pyrene	770	J
53-70-3	Dibenzo(a,h)anthracene	240	J
191-24-2	Benzo(g,h,i)perylene	740	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00L2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-13DC66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 45 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	10.48	14000	J
2.	UNKNOWN	11.18	18000	J
3.	UNKNOWN	11.27	20000	J
4.	UNKNOWN	11.35	16000	J
5.	UNKNOWN	11.44	17000	J
6.	UNKNOWN	11.67	19000	J
7.	UNKNOWN	11.76	24000	J
8.	UNKNOWN	11.83	25000	J
9.	UNKNOWN	11.91	24000	J
10.	UNKNOWN	12.01	6900	J
11. 490-65-3	NAPHTHALENE, 1-METHYL-7-(1-M	12.06	8900	NJ
12.	UNKNOWN	12.13	5700	J
13.	UNKNOWN	12.32	6900	J
14.	UNKNOWN	12.40	5900	J
15.	UNKNOWN	12.49	9300	J
16.	UNKNOWN	12.64	15000	J
17.	UNKNOWN	13.14	12000	J
18.	UNKNOWN	13.25	8100	J
19.	UNKNOWN	13.33	6500	J
20. 30995-64-3	METHYLDIBENZOTHICPHENE	13.43	11000	NJ
21.	UNKNOWN	13.79	6800	J
22.	UNKNOWN	13.99	9500	J
23. 1207-15-4	2,8-DIMETHYLDIBENZO(B,D)THIO	14.09	7400	NJ
24. 52251-71-5	ANTHRACENE, 2-ETHYL-	14.26	7200	NJ
25.	UNKNOWN	14.60	8400	J
26.	UNKNOWN	14.71	5600	J
27.	UNKNOWN	15.34	6900	J
28.	UNKNOWN	15.47	5000	J
29.	METHYLPYRENE	15.54	4900	J
30.	UNKNOWN	15.98	4800	J

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-14

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-14C66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 67 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG 2

CAS NO.	COMPOUND		
100-52-7	Benzaldehyde	110	J
108-95-2	Phenol	1000	U
111-44-4	bis(2-Chloroethyl)ether	1000	U
95-57-8	2-Chlorophenol	1000	U
95-48-7	2-Methylphenol	1000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	1000	U
98-86-2	Acetophenone	60	J
106-44-5	4-Methylphenol	1000	U
621-64-7	N-Nitroso-di-n-propylamine	1000	U
67-72-1	Hexachloroethane	1000	U
98-95-3	Nitrobenzene	1000	U
78-59-1	Isophorone	1000	U
88-75-5	2-Nitrophenol	1000	U
105-67-9	2,4-Dimethylphenol	1000	U
111-91-1	bis(2-Chloroethoxy)methane	1000	U
120-83-2	2,4-Dichlorophenol	1000	U
91-20-3	Naphthalene	1000	U
106-47-8	4-Chloroaniline	1000	U
87-68-3	Hexachlorobutadiene	1000	U
105-60-2	Caprolactam	1000	U
59-50-7	4-Chloro-3-methylphenol	1000	U
91-57-6	2-Methylnaphthalene	52	J
77-47-4	Hexachlorocyclopentadiene	1000	U
88-06-2	2,4,6-Trichlorophenol	1000	U
95-95-4	2,4,5-Trichlorophenol	2500	U
92-52-4	1,1'-Biphenyl	1000	U
91-58-7	2-Chloronaphthalene	1000	U
88-74-4	2-Nitroaniline	2500	U
131-11-3	Dimethylphthalate	1000	U
606-20-2	2,6-Dinitrotoluene	1000	U
208-96-8	Acenaphthylene	61	J
99-09-2	3-Nitroaniline	2500	U
83-32-9	Acenaphthene	43	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-14

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-14C66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 67 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2500	U
100-02-7	4-Nitrophenol	2500	U
132-64-9	Dibenzofuran	35	J
121-14-2	2,4-Dinitrotoluene	1000	U
84-66-2	Diethylphthalate	1000	U
86-73-7	Fluorene	65	J
7005-72-3	4-Chlorophenyl-phenylether	1000	U
100-01-6	4-Nitroaniline	2500	U
534-52-1	4,6-Dinitro-2-methylphenol	2500	U
86-30-6	N-nitrosodiphenylamine (1)	1000	U
101-55-3	4-Bromophenyl-phenylether	1000	U
118-74-1	Hexachlorobenzene	1000	U
1912-24-9	Atrazine	1000	U
87-86-5	Pentachlorophenol	2500	U
85-01-8	Phenanthrene	380	J
120-12-7	Anthracene	150	J
86-74-8	Carbazole	92	J
84-74-2	Di-n-butylphthalate	1000	U
206-44-0	Fluoranthene	1100	
129-00-0	Pyrene	1300	
85-68-7	Butylbenzylphthalate	90	J
91-94-1	3,3'-Dichlorobenzidine	1000	U
56-55-3	Benzo(a)anthracene	460	J
218-01-9	Chrysene	710	J
117-81-7	bis(2-Ethylhexyl)phthalate	1500	B
117-84-0	Di-n-octylphthalate	1000	U
205-99-2	Benzo(b)fluoranthene	1300	
207-08-9	Benzo(k)fluoranthene	860	J
50-32-8	Benzo(a)pyrene	890	J
193-39-5	Indeno(1,2,3-cd)pyrene	660	J
53-70-3	Dibenzo(a,h)anthracene	160	J
191-24-2	Benzo(g,h,i)perylene	670	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00L3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-14C66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 67 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	13.69	1500	J
2.	UNKNOWN PHTHALATE	13.78	2100	J
3.	UNKNOWN	13.93	1700	J
4.	UNKNOWN	14.12	2400	J
5.	UNKNOWN	14.22	2100	J
6.	UNKNOWN	14.30	4200	J
7.	UNKNOWN	14.39	2700	J
8.	UNKNOWN	14.45	2100	J
9.	UNKNOWN	14.84	2500	J
10.	UNKNOWN	15.01	2300	J
11.	UNKNOWN	15.10	3200	J
12.	UNKNOWN	15.35	4100	J
13.	UNKNOWN	15.55	3600	J
14.	UNKNOWN	15.72	4800	J
15.	UNKNOWN	15.81	2900	J
16.	UNKNOWN	15.91	2900	J
17.	UNKNOWN	15.99	2800	J
18.	UNKNOWN ALDEHYDE	16.08	3300	J
19.	UNKNOWN	16.16	3700	J
20.	UNKNOWN	16.33	2000	J
21.	UNKNOWN	16.60	3600	J
22.	UNKNOWN	17.12	2300	J
23.	UNKNOWN	17.29	1300	J
24.	UNKNOWN	17.44	2300	J
25.	UNKNOWN	20.43	1200	J
26.	UNKNOWN	20.53	1600	J
27.	UNKNOWN	20.74	1700	J
28.	UNKNOWN	20.89	1400	J
29.	UNKNOWN	24.84	1500	J
30. 1058-61-3	STIGMAST-4-EN-3-ONE	25.77	1100	NJ

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L4

ab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-15

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-15DC66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 52 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	88	J
108-95-2	Phenol	6900	U
111-44-4	bis(2-Chloroethyl)ether	6900	U
95-57-8	2-Chlorophenol	6900	U
95-48-7	2-Methylphenol	6900	U
108-60-1	2,2'-oxybis(1-Chloropropane)	6900	U
98-86-2	Acetophenone	6900	U
106-44-5	4-Methylphenol	6900	U
621-64-7	N-Nitroso-di-n-propylamine	6900	U
67-72-1	Hexachloroethane	6900	U
98-95-3	Nitrobenzene	6900	U
78-59-1	Isophorone	6900	U
88-75-5	2-Nitrophenol	6900	U
105-67-9	2,4-Dimethylphenol	6900	U
111-91-1	bis(2-Chloroethoxy)methane	6900	U
120-83-2	2,4-Dichlorophenol	6900	U
91-20-3	Naphthalene	320	J
106-47-8	4-Chloroaniline	360	J
87-68-3	Hexachlorobutadiene	6900	U
105-60-2	Caprolactam	6900	U
59-50-7	4-Chloro-3-methylphenol	6900	U
91-57-6	2-Methylnaphthalene	6900	U
77-47-4	Hexachlorocyclopentadiene	6900	U
88-06-2	2,4,6-Trichlorophenol	6900	U
95-95-4	2,4,5-Trichlorophenol	17000	U
92-52-4	1,1'-Biphenyl	6900	U
91-58-7	2-Chloronaphthalene	6900	U
88-74-4	2-Nitroaniline	17000	U
131-11-3	Dimethylphthalate	6900	U
606-20-2	2,6-Dinitrotoluene	6900	U
208-96-8	Acenaphthylene	450	J
99-09-2	3-Nitroaniline	17000	U
83-32-9	Acenaphthene	1100	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-15

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-15DC66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 52 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	17000	U
100-02-7	4-Nitrophenol	17000	U
132-64-9	Dibenzofuran	450	J
121-14-2	2,4-Dinitrotoluene	6900	U
84-66-2	Diethylphthalate	6900	U
86-73-7	Fluorene	1100	J
7005-72-3	4-Chlorophenyl-phenylether	6900	U
100-01-6	4-Nitroaniline	17000	U
534-52-1	4,6-Dinitro-2-methylphenol	17000	U
86-30-6	N-nitrosodiphenylamine (1)	6900	U
101-55-3	4-Bromophenyl-phenylether	6900	U
118-74-1	Hexachlorobenzene	6900	U
1912-24-9	Atrazine	6900	U
87-86-5	Pentachlorophenol	17000	U
85-01-8	Phenanthrene	14000	
120-12-7	Anthracene	4600	J
86-74-8	Carbazole	840	J
84-74-2	Di-n-butylphthalate	6900	U
206-44-0	Fluoranthene	40000	
129-00-0	Pyrene	43000	
85-68-7	Butylbenzylphthalate	1100	J
91-94-1	3,3'-Dichlorobenzidine	6900	U
56-55-3	Benzo(a)anthracene	19000	
218-01-9	Chrysene	24000	
117-81-7	bis(2-Ethylhexyl)phthalate	39000	B
117-84-0	Di-n-octylphthalate	5400	J
205-99-2	Benzo(b)fluoranthene	32000	
207-08-9	Benzo(k)fluoranthene	30000	
50-32-8	Benzo(a)pyrene	39000	
193-39-5	Indeno(1,2,3-cd)pyrene	20000	
53-70-3	Dibenzo(a,h)anthracene	6200	J
191-24-2	Benzo(g,h,i)perylene	18000	

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

E00L4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-15DC66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 52 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

Number TICs found: 29

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	10.74	5000	J
2.	UNKNOWN	10.86	6100	J
3.	UNKNOWN	11.43	4500	J
4. 7206-19-1	3-OCTADECENE, (E)-	12.06	9700	NJ
5.	UNKNOWN	12.34	4400	J
6.	UNKNOWN	12.39	4400	J
7.	UNKNOWN	12.56	7800	J
8.	UNKNOWN	12.60	5300	J
9.	UNKNOWN	12.66	4500	J
10.	CYCLOPENTAPHENANTHRENE	13.80	5500	J
11.	UNKNOWN	14.29	6700	J
12. 2381-21-7	PYRENE, 1-METHYL-	15.38	16000	NJ
13.	BENZOFLUORENE	15.47	11000	J
14.	UNKNOWN	15.54	13000	J
15.	METHYLPYRENE	15.70	9000	J
16.	UNKNOWN	15.89	7700	J
17. 27208-37-3	CYCLOPENTA[CD]PYRENE	16.41	13000	NJ
18.	UNKNOWN	16.99	12000	J
19. 10152-69-9	CYCLOPROPANENONANOIC ACID, 2	17.58	5000	NJ
20. 207-08-9	BENZO[K]FLUORANTHENE	19.61	6100	NJ
21. 198-55-0	PERYLENE	20.03	32000	NJ
22. 205-82-3	BENZO[J]FLUORANTHENE	20.33	10000	NJ
23.	UNKNOWN	21.28	5100	J
24.	UNKNOWN	21.43	5800	J
25.	UNKNOWN	22.17	6300	J
26. 215-58-7	BENZO[B]TRIPHENYLENE	23.27	6200	NJ
27. 191-24-2	BENZO[GHI]PERYLENE	23.98	9200	NJ
28.	UNKNOWN	24.18	5400	J
29.	UNKNOWN	25.74	21000	J
30.				

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-16

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-16C66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 30 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	40	J
108-95-2	Phenol	470	U
111-44-4	bis(2-Chloroethyl)ether	470	U
95-57-8	2-Chlorophenol	470	U
95-48-7	2-Methylphenol	470	U
108-60-1	2,2'-oxybis(1-Chloropropane)	470	U
98-86-2	Acetophenone	470	U
106-44-5	4-Methylphenol	23	J
621-64-7	N-Nitroso-di-n-propylamine	470	U
67-72-1	Hexachloroethane	470	U
98-95-3	Nitrobenzene	470	U
78-59-1	Isophorone	470	U
88-75-5	2-Nitrophenol	470	U
105-67-9	2,4-Dimethylphenol	13	J
111-91-1	bis(2-Chloroethoxy)methane	470	U
120-83-2	2,4-Dichlorophenol	470	U
91-20-3	Naphthalene	470	U
106-47-8	4-Chloroaniline	470	U
87-68-3	Hexachlorobutadiene	470	U
105-60-2	Caprolactam	470	U
59-50-7	4-Chloro-3-methylphenol	470	U
91-57-6	2-Methylnaphthalene	29	J
77-47-4	Hexachlorocyclopentadiene	470	U
88-06-2	2,4,6-Trichlorophenol	470	U
95-95-4	2,4,5-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	470	U
91-58-7	2-Chloronaphthalene	470	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	470	U
606-20-2	2,6-Dinitrotoluene	470	U
208-96-8	Acenaphthylene	14	J
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	16	J

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-16

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-16C66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 30 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

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	12	J
121-14-2	2,4-Dinitrotoluene	470	U
84-66-2	Diethylphthalate	470	U
86-73-7	Fluorene	17	J
7005-72-3	4-Chlorophenyl-phenylether	470	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-nitrosodiphenylamine (1)	470	U
101-55-3	4-Bromophenyl-phenylether	470	U
118-74-1	Hexachlorobenzene	470	U
1912-24-9	Atrazine	470	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	250	J
120-12-7	Anthracene	48	J
86-74-8	Carbazole	54	J
84-74-2	Di-n-butylphthalate	470	U
206-44-0	Fluoranthene	550	
129-00-0	Pyrene	550	
85-68-7	Butylbenzylphthalate	23	J
91-94-1	3,3'-Dichlorobenzidine	470	U
56-55-3	Benzo(a)anthracene	180	J
218-01-9	Chrysene	320	J
117-81-7	bis(2-Ethylhexyl)phthalate	220	JB
117-84-0	Di-n-octylphthalate	470	U
205-99-2	Benzo(b)fluoranthene	420	J
207-08-9	Benzo(k)fluoranthene	270	J
50-32-8	Benzo(a)pyrene	270	J
193-39-5	Indeno(1,2,3-cd)pyrene	200	J
53-70-3	Dibenzo(a,h)anthracene	51	J
191-24-2	Benzo(g,h,i)perylene	500	

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00L5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-16C66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 30 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

Number TICs found: 29

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	10.74	380	J
2.	UNKNOWN	13.12	300	J
3.	UNKNOWN	13.64	680	J
4.	UNKNOWN	14.83	370	J
5.	UNKNOWN	15.01	310	J
6.	UNKNOWN	15.10	630	J
7.	BENZOFLUORENE	15.25	640	J
8.	UNKNOWN	15.33	600	J
9.	UNKNOWN	15.38	830	J
10.	UNKNOWN	15.57	460	J
11.	UNKNOWN	15.72	240	J
12.	UNKNOWN PHTHALATE	17.11	300	J
13.	UNKNOWN	17.38	200	J
14. 10152-69-9	CYCLOPROPANENONANOIC ACID, 2	17.53	230	NJ
15.	UNKNOWN	19.29	350	J
16.	UNKNOWN	19.67	330	J
17.	UNKNOWN	19.78	410	J
18.	UNKNOWN	19.88	390	J
19.	UNKNOWN	20.11	430	J
20.	UNKNOWN	20.21	570	J
21. 205-82-3	BENZO[J]FLUORANTHENE	20.35	640	NJ
22.	UNKNOWN	20.43	850	J
23.	UNKNOWN	20.55	580	J
24.	UNKNOWN	20.72	600	J
25.	UNKNOWN	20.89	690	J
26.	UNKNOWN	21.45	200	J
27.	UNKNOWN	22.11	200	J
28.	UNKNOWN	22.21	250	J
29. 14021-23-9	D-FRIEDOOLEAN-14-ENE, 3-METH	23.15	280	NJ
30.				

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L5RE

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-16

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-16JC66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 30 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	37	J
108-95-2	Phenol	470	U
111-44-4	bis(2-Chloroethyl)ether	470	U
95-57-8	2-Chlorophenol	470	U
95-48-7	2-Methylphenol	470	U
108-60-1	2,2'-oxybis(1-Chloropropane)	470	U
98-86-2	Acetophenone	470	U
106-44-5	4-Methylphenol	22	J
621-64-7	N-Nitroso-di-n-propylamine	470	U
67-72-1	Hexachloroethane	470	U
98-95-3	Nitrobenzene	470	U
78-59-1	Isophorone	470	U
88-75-5	2-Nitrophenol	470	U
105-67-9	2,4-Dimethylphenol	15	J
111-91-1	bis(2-Chloroethoxy)methane	470	U
120-83-2	2,4-Dichlorophenol	470	U
91-20-3	Naphthalene	470	U
106-47-8	4-Chloroaniline	470	U
87-68-3	Hexachlorobutadiene	470	U
105-60-2	Caprolactam	470	U
59-50-7	4-Chloro-3-methylphenol	470	U
91-57-6	2-Methylnaphthalene	28	J
77-47-4	Hexachlorocyclopentadiene	470	U
88-06-2	2,4,6-Trichlorophenol	470	U
95-95-4	2,4,5-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	470	U
91-58-7	2-Chloronaphthalene	470	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	470	U
606-20-2	2,6-Dinitrotoluene	470	U
208-96-8	Acenaphthylene	13	J
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	470	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L5RE

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-16

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-16JC66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 30 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

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	470	U
121-14-2	2,4-Dinitrotoluene	470	U
84-66-2	Diethylphthalate	470	U
86-73-7	Fluorene	16	J
7005-72-3	4-Chlorophenyl-phenylether	470	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-nitrosodiphenylamine (1)	470	U
101-55-3	4-Bromophenyl-phenylether	470	U
118-74-1	Hexachlorobenzene	470	U
1912-24-9	Atrazine	470	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	230	J
120-12-7	Anthracene	45	J
86-74-8	Carbazole	42	J
84-74-2	Di-n-butylphthalate	470	U
206-44-0	Fluoranthene	500	
129-00-0	Pyrene	560	
85-68-7	Butylbenzylphthalate	35	J
91-94-1	3,3'-Dichlorobenzidine	470	U
56-55-3	Benzo(a)anthracene	220	J
218-01-9	Chrysene	290	J
117-81-7	bis(2-Ethylhexyl)phthalate	210	JB
117-84-0	Di-n-octylphthalate	470	U
205-99-2	Benzo(b)fluoranthene	370	J
207-08-9	Benzo(k)fluoranthene	280	J
50-32-8	Benzo(a)pyrene	250	J
193-39-5	Indeno(1,2,3-cd)pyrene	180	J
53-70-3	Dibenzo(a,h)anthracene	45	J
191-24-2	Benzo(g,h,i)perylene	450	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00L5RE

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-16JC66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 30 Decanted: (Y/N) N Date Extracted:11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	13.12	660	J
2.	UNKNOWN	13.27	990	J
3.	UNKNOWN	13.36	680	J
4.	UNKNOWN	13.44	330	J
5.	UNKNOWN	13.64	1200	J
6.	UNKNOWN	13.69	650	J
7.	UNKNOWN	13.76	1400	J
8.	UNKNOWN	13.95	960	J
9.	UNKNOWN	14.05	1000	J
10. 84-65-1	9,10-ANTHRACENEDIONE	14.10	940	NJ
11.	UNKNOWN	14.17	710	J
12.	UNKNOWN	14.29	1500	J
13.	UNKNOWN	14.47	890	J
14.	UNKNOWN	14.72	750	J
15.	UNKNOWN	14.83	1500	J
16.	UNKNOWN	15.01	1200	J
17. 238-84-6	11H-BENZO[A]FLUORENE	15.27	1200	NJ
18.	UNKNOWN	15.33	1500	J
19.	UNKNOWN	15.50	1300	J
20.	UNKNOWN	15.57	980	J
21.	UNKNOWN	15.72	900	J
22.	UNKNOWN	15.99	580	J
23.	UNKNOWN PHTHALATE	17.12	420	J
24.	UNKNOWN	20.45	820	J
25.	UNKNOWN	20.55	630	J
26.	UNKNOWN	20.72	870	J
27.	UNKNOWN	20.92	990	J
28. 35589-77-0	TRIDECANE, 1-IODO-	21.14	520	NJ
29.	UNKNOWN	21.46	380	J
30.	UNKNOWN	21.51	530	J

QUALITY ASSURANCE NOTICE

CompuChem ID# E00J2-16

Client ID# E00L5

Case # E00J2

Due to severe matrix interferences present in the semivolatile fraction of this sample, the following Internal Standard(s) had responses which varied considerably from the associated Continuing Calibration Standard responses.

d12-perylene

This sample was reanalyzed to confirm the matrix effects, and initial results were verified. Depending on the degree of interference, surrogate recoveries may also be affected for those compounds quantitated using the affected internal standard(s). Both sample analyses are being reported.

Additional Comments:

Reviewer's initials/ID _____/624

date 11-30-2001

QAN-VSV-5
010918

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-17

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-17C66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 41 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	45	J
108-95-2	Phenol	560	U
111-44-4	bis(2-Chloroethyl)ether	560	U
95-57-8	2-Chlorophenol	560	U
95-48-7	2-Methylphenol	560	U
108-60-1	2,2'-oxybis(1-Chloropropane)	560	U
98-86-2	Acetophenone	17	J
106-44-5	4-Methylphenol	560	U
621-64-7	N-Nitroso-di-n-propylamine	560	U
67-72-1	Hexachloroethane	560	U
98-95-3	Nitrobenzene	560	U
78-59-1	Isophorone	560	U
88-75-5	2-Nitrophenol	560	U
105-67-9	2,4-Dimethylphenol	23	J
111-91-1	bis(2-Chloroethoxy)methane	560	U
120-83-2	2,4-Dichlorophenol	560	U
91-20-3	Naphthalene	560	U
106-47-8	4-Chloroaniline	560	U
87-68-3	Hexachlorobutadiene	560	U
105-60-2	Caprolactam	560	U
59-50-7	4-Chloro-3-methylphenol	560	U
91-57-6	2-Methylnaphthalene	20	J
77-47-4	Hexachlorocyclopentadiene	560	U
88-06-2	2,4,6-Trichlorophenol	560	U
95-95-4	2,4,5-Trichlorophenol	1400	U
92-52-4	1,1'-Biphenyl	560	U
91-58-7	2-Chloronaphthalene	560	U
88-74-4	2-Nitroaniline	1400	U
131-11-3	Dimethylphthalate	560	U
606-20-2	2,6-Dinitrotoluene	560	U
208-96-8	Acenaphthylene	22	J
99-09-2	3-Nitroaniline	1400	U
83-32-9	Acenaphthene	560	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-17

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-17C66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 41 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1400	U
100-02-7	4-Nitrophenol	1400	U
132-64-9	Dibenzofuran	560	U
121-14-2	2,4-Dinitrotoluene	560	U
84-66-2	Diethylphthalate	560	U
86-73-7	Fluorene	560	U
7005-72-3	4-Chlorophenyl-phenylether	560	U
100-01-6	4-Nitroaniline	1400	U
534-52-1	4,6-Dinitro-2-methylphenol	1400	U
86-30-6	N-nitrosodiphenylamine (1)	560	U
101-55-3	4-Bromophenyl-phenylether	560	U
118-74-1	Hexachlorobenzene	560	U
1912-24-9	Atrazine	560	U
87-86-5	Pentachlorophenol	1400	U
85-01-8	Phenanthrene	160	J
120-12-7	Anthracene	56	J
86-74-8	Carbazole	37	J
84-74-2	Di-n-butylphthalate	250	J
206-44-0	Fluoranthene	370	J
129-00-0	Pyrene	320	J
85-68-7	Butylbenzylphthalate	24	J
91-94-1	3,3'-Dichlorobenzidine	560	U
56-55-3	Benzo(a)anthracene	130	J
218-01-9	Chrysene	250	J
117-81-7	bis(2-Ethylhexyl)phthalate	870	B
117-84-0	Di-n-octylphthalate	560	U
205-99-2	Benzo(b)fluoranthene	290	J
207-08-9	Benzo(k)fluoranthene	300	J
50-32-8	Benzo(a)pyrene	230	J
193-39-5	Indeno(1,2,3-cd)pyrene	170	J
53-70-3	Dibenzo(a,h)anthracene	47	J
191-24-2	Benzo(g,h,i)perylene	190	J

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

E00L6

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-17C66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 41 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Extraction: (Type) SONC

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	14.29	2400	J
2.	UNKNOWN	15.03	1100	J
3.	UNKNOWN	16.15	960	J
4.	UNKNOWN	16.22	1700	J
5.	UNKNOWN	17.09	560	J
6.	UNKNOWN	17.28	370	J
7.	UNKNOWN	17.79	470	J
8.	UNKNOWN PHTHALATE	18.12	590	J
9.	UNKNOWN PHTHALATE	18.19	450	J
10.	UNKNOWN PHTHALATE	18.45	690	J
11.	UNKNOWN PHTHALATE	18.68	500	J
12.	UNKNOWN PHTHALATE	18.80	500	J
13.	UNKNOWN PHTHALATE	18.95	790	J
14. 28553-12-0	1,2-BENZENEDICARBOXYLIC ACID	19.07	660	NJ
15.	UNKNOWN	19.22	790	J
16.	UNKNOWN PHTHALATE	19.34	540	J
17.	UNKNOWN PHTHALATE	19.63	520	J
18.	UNKNOWN	19.75	490	J
19. 198-55-0	PERYLENE	20.02	510	NJ
20.	UNKNOWN	20.52	1200	J
21.	UNKNOWN	20.73	850	J
22.	UNKNOWN	20.89	830	J
23.	UNKNOWN	21.45	820	J
24.	UNKNOWN	21.64	500	J
25.	UNKNOWN	21.72	470	J
26.	UNKNOWN	22.18	430	J
27. 14021-23-9	D-FRIEDOOLEAN-14-ENE, 3-METH	23.12	400	NJ
28.	UNKNOWN	23.29	410	J
29. 1058-61-3	STIGMAST-4-EN-3-ONE	25.74	940	NJ
30.	UNKNOWN	26.82	590	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L7

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-18

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-18C66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 28 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	11	J
108-95-2	Phenol	460	U
111-44-4	bis(2-Chloroethyl)ether	460	U
95-57-8	2-Chlorophenol	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
98-86-2	Acetophenone	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
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
105-60-2	Caprolactam	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	1200	U
92-52-4	1,1'-Biphenyl	460	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	460	U
606-20-2	2,6-Dinitrotoluene	460	U
208-96-8	Acenaphthylene	460	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	460	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L7

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-18

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-18C66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 28 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3 Extraction: (Type) SONC

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	460	U
121-14-2	2,4-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	460	U
86-73-7	Fluorene	460	U
7005-72-3	4-Chlorophenyl-phenylether	460	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
1912-24-9	Atrazine	460	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	30	J
120-12-7	Anthracene	460	U
86-74-8	Carbazole	460	U
84-74-2	Di-n-butylphthalate	460	U
206-44-0	Fluoranthene	77	J
129-00-0	Pyrene	63	J
85-68-7	Butylbenzylphthalate	460	U
91-94-1	3,3'-Dichlorobenzidine	460	U
56-55-3	Benzo(a)anthracene	31	J
218-01-9	Chrysene	49	J
117-81-7	bis(2-Ethylhexyl)phthalate	1100	B
117-84-0	Di-n-octylphthalate	460	U
205-99-2	Benzo(b)fluoranthene	55	J
207-08-9	Benzo(k)fluoranthene	45	J
50-32-8	Benzo(a)pyrene	33	J
193-39-5	Indeno(1,2,3-cd)pyrene	26	J
53-70-3	Dibenzo(a,h)anthracene	460	U
191-24-2	Benzo(g,h,i)perylene	460	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00L7

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-18C66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 28 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.3 Extraction: (Type) SONC

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-13-4	2,5-HEXANEDIONE	5.77	510	NJ
2.	UNKNOWN	8.31	260	J
3. 1074-89-1	1H-PURINE, 6-METHOXY-	12.43	100	NJ
4. 5129-60-2	PENTADECANOIC ACID, 14-METHY	12.73	190	NJ
5. 56554-86-0	17-OCTADECENAL	18.93	680	NJ
6. 7206-19-1	3-OCTADECENE, (E)-	19.59	280	NJ
7. 1308-26-0	5,8,11,14-EICOSATETRAENOIC A	20.49	240	NJ
8.	UNKNOWN	20.59	270	J
9.	UNKNOWN	20.65	190	J
10. 7390-81-0	OXIRANE, HEXADECYL-	20.70	440	NJ
11.	UNKNOWN	20.96	150	J
12.	UNKNOWN	21.35	120	J
13.	UNKNOWN	21.43	240	J
14.	UNKNOWN	21.74	140	J
15. 2765-11-9	PENTADECANAL-	22.48	310	NJ
16.	UNKNOWN	23.12	3200	J
17.	UNKNOWN	23.32	1700	J
18.	UNKNOWN	23.42	2800	J
19. 14021-26-2	OLEAN-12-ENE, 3-METHOXY-, (3	23.83	960	NJ
20.	UNKNOWN	23.93	330	J
21.	UNKNOWN	24.02	470	J
22.	UNKNOWN	24.18	400	J
23.	UNKNOWN	24.29	230	J
24.	UNKNOWN	24.42	1400	J
25.	UNKNOWN	24.57	360	J
26.	UNKNOWN	24.78	530	J
27.	UNKNOWN	24.88	420	J
28.	UNKNOWN	25.47	720	J
29. 1058-61-3	STIGMAST-4-EN-3-ONE	25.70	1600	NJ
30.	UNKNOWN	26.40	730	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-19

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-19C66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 29 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	24	J
108-95-2	Phenol	460	U
111-44-4	bis(2-Chloroethyl)ether	460	U
95-57-8	2-Chlorophenol	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
98-86-2	Acetophenone	14	J
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
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
105-60-2	Caprolactam	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	1200	U
92-52-4	1,1'-Biphenyl	460	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	460	U
606-20-2	2,6-Dinitrotoluene	460	U
208-96-8	Acenaphthylene	15	J
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	24	J

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-19

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00J2-19C66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 29 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1 Extraction: (Type) SONC

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	13	J
121-14-2	2,4-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	460	U
86-73-7	Fluorene	25	J
7005-72-3	4-Chlorophenyl-phenylether	460	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
1912-24-9	Atrazine	460	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	170	J
120-12-7	Anthracene	42	J
86-74-8	Carbazole	20	J
84-74-2	Di-n-butylphthalate	460	U
206-44-0	Fluoranthene	470	
129-00-0	Pyrene	450	J
85-68-7	Butylbenzylphthalate	26	J
91-94-1	3,3'-Dichlorobenzidine	460	U
56-55-3	Benzo(a)anthracene	200	J
218-01-9	Chrysene	270	J
117-81-7	bis(2-Ethylhexyl)phthalate	440	JB
117-84-0	Di-n-octylphthalate	30	J
205-99-2	Benzo(b)fluoranthene	260	J
207-08-9	Benzo(k)fluoranthene	290	J
50-32-8	Benzo(a)pyrene	210	J
193-39-5	Indeno(1,2,3-cd)pyrene	140	J
53-70-3	Dibenzo(a,h)anthracene	45	J
191-24-2	Benzo(g,h,i)perylene	150	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00L9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-19

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00J2-19C66

Level: (low/med) LOW Date Received: 11/09/01

% Moisture: 29 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/30/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1 Extraction: (Type) SONC

Number TICs found: 23

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	14.29	820	J
2.	UNKNOWN	14.68	1000	J
3.	BENZONAPHTHOFURAN	15.00	290	J
4.	UNKNOWN	15.09	430	J
5.	UNKNOWN	15.32	470	J
6.	UNKNOWN	15.54	780	J
7.	UNKNOWN	15.71	540	J
8.	UNKNOWN AMIDE	15.79	560	J
9.	UNKNOWN	15.90	370	J
10.	UNKNOWN	15.96	460	J
11.	UNKNOWN	16.07	720	J
12.	UNKNOWN	16.32	490	J
13.	UNKNOWN	16.59	650	J
14.	UNKNOWN	16.99	600	J
15.	UNKNOWN	17.11	430	J
16.	UNKNOWN	17.43	430	J
17. 2498-76-2	BENZ[A]ANTHRACENE, 2-METHYL-	17.59	500	NJ
18.	UNKNOWN	17.77	390	J
19.	UNKNOWN	17.87	300	J
20.	UNKNOWN	17.96	340	J
21. 207-08-9	BENZO[K]FLUORANTHENE	20.02	700	NJ
22. 198-55-0	PERYLENE	20.34	580	NJ
23.	UNKNOWN	20.54	630	J
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKFF

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14287-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG14287-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
98-86-2	Acetophenone	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
92-52-4	1,1'-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKFF

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14287-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG14287-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	99	J
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKFF

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14287-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: WG14287-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Extraction: (Type) SONC

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

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	13.34	68	J
2.	UNKNOWN (BC)	18.98	250	J
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.				

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J2MS

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14287-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG14287-2A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 50 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	71	J
108-95-2	Phenol	3300	
111-44-4	bis(2-Chloroethyl)ether	660	U
95-57-8	2-Chlorophenol	3500	
95-48-7	2-Methylphenol	660	U
108-60-1	2,2'-oxybis(1-Chloropropane)	660	U
98-86-2	Acetophenone	45	J
106-44-5	4-Methylphenol	660	U
621-64-7	N-Nitroso-di-n-propylamine	2500	
67-72-1	Hexachloroethane	660	U
98-95-3	Nitrobenzene	660	U
78-59-1	Isophorone	660	U
88-75-5	2-Nitrophenol	660	U
105-67-9	2,4-Dimethylphenol	660	U
111-91-1	bis(2-Chloroethoxy)methane	660	U
120-83-2	2,4-Dichlorophenol	660	U
91-20-3	Naphthalene	240	J
106-47-8	4-Chloroaniline	660	U
87-68-3	Hexachlorobutadiene	660	U
105-60-2	Caprolactam	660	U
59-50-7	4-Chloro-3-methylphenol	3600	
91-57-6	2-Methylnaphthalene	140	J
77-47-4	Hexachlorocyclopentadiene	660	U
88-06-2	2,4,6-Trichlorophenol	660	U
95-95-4	2,4,5-Trichlorophenol	1700	U
92-52-4	1,1'-Biphenyl	33	J
91-58-7	2-Chloronaphthalene	660	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	660	U
606-20-2	2,6-Dinitrotoluene	660	U
208-96-8	Acenaphthylene	1100	
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	2900	

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J2MS

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14287-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG14287-2A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 50 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	5200	
132-64-9	Dibenzofuran	120	J
121-14-2	2,4-Dinitrotoluene	2400	
84-66-2	Diethylphthalate	660	U
86-73-7	Fluorene	390	J
7005-72-3	4-Chlorophenyl-phenylether	660	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-nitrosodiphenylamine (1)	660	U
101-55-3	4-Bromophenyl-phenylether	660	U
118-74-1	Hexachlorobenzene	660	U
1912-24-9	Atrazine	660	U
87-86-5	Pentachlorophenol	1200	J
85-01-8	Phenanthrene	2000	
120-12-7	Anthracene	700	
86-74-8	Carbazole	190	J
84-74-2	Di-n-butylphthalate	660	U
206-44-0	Fluoranthene	3600	
129-00-0	Pyrene	6300	E
85-68-7	Butylbenzylphthalate	21	J
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)anthracene	2600	
218-01-9	Chrysene	2700	
117-81-7	bis(2-Ethylhexyl)phthalate	340	JB
117-84-0	Di-n-octylphthalate	660	U
205-99-2	Benzo(b)fluoranthene	2900	
207-08-9	Benzo(k)fluoranthene	1500	
50-32-8	Benzo(a)pyrene	2700	
193-39-5	Indeno(1,2,3-cd)pyrene	960	
53-70-3	Dibenzo(a,h)anthracene	410	J
191-24-2	Benzo(g,h,i)perylene	840	

(1) - Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J2MSD

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14287-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG14287-3A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 50 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	46	J
108-95-2	Phenol	3700	
111-44-4	bis(2-Chloroethyl)ether	660	U
95-57-8	2-Chlorophenol	3900	
95-48-7	2-Methylphenol	660	U
108-60-1	2,2'-oxybis(1-Chloropropane)	660	U
98-86-2	Acetophenone	34	J
106-44-5	4-Methylphenol	660	U
621-64-7	N-Nitroso-di-n-propylamine	2900	
67-72-1	Hexachloroethane	660	U
98-95-3	Nitrobenzene	660	U
78-59-1	Isophorone	660	U
88-75-5	2-Nitrophenol	660	U
105-67-9	2,4-Dimethylphenol	660	U
111-91-1	bis(2-Chloroethoxy)methane	660	U
120-83-2	2,4-Dichlorophenol	660	U
91-20-3	Naphthalene	170	J
106-47-8	4-Chloroaniline	660	U
87-68-3	Hexachlorobutadiene	660	U
105-60-2	Caprolactam	660	U
59-50-7	4-Chloro-3-methylphenol	4000	
91-57-6	2-Methylnaphthalene	91	J
77-47-4	Hexachlorocyclopentadiene	660	U
88-06-2	2,4,6-Trichlorophenol	660	U
95-95-4	2,4,5-Trichlorophenol	1700	U
92-52-4	1,1'-Biphenyl	40	J
91-58-7	2-Chloronaphthalene	660	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	660	U
606-20-2	2,6-Dinitrotoluene	660	U
208-96-8	Acenaphthylene	790	
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	3300	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J2MSD

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14287-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG14287-3A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 50 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/29/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	6000	E
132-64-9	Dibenzofuran	100	J
121-14-2	2,4-Dinitrotoluene	2700	
84-66-2	Diethylphthalate	660	U
86-73-7	Fluorene	360	J
7005-72-3	4-Chlorophenyl-phenylether	660	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-nitrosodiphenylamine (1)	660	U
101-55-3	4-Bromophenyl-phenylether	660	U
118-74-1	Hexachlorobenzene	660	U
1912-24-9	Atrazine	660	U
87-86-5	Pentachlorophenol	1400	J
85-01-8	Phenanthrene	2300	
120-12-7	Anthracene	820	
86-74-8	Carbazole	170	J
84-74-2	Di-n-butylphthalate	660	U
206-44-0	Fluoranthene	4500	
129-00-0	Pyrene	6900	E
85-68-7	Butylbenzylphthalate	27	J
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)anthracene	2800	
218-01-9	Chrysene	2800	
117-81-7	bis(2-Ethylhexyl)phthalate	1600	B
117-84-0	Di-n-octylphthalate	660	U
205-99-2	Benzo(b)fluoranthene	3200	
207-08-9	Benzo(k)fluoranthene	1900	
50-32-8	Benzo(a)pyrene	2700	
193-39-5	Indeno(1,2,3-cd)pyrene	960	
53-70-3	Dibenzo(a,h)anthracene	410	J
191-24-2	Benzo(g,h,i)perylene	880	

(1) - Cannot be separated from Diphenylamine

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

GC Column(1): CLPEST ID: 0.53(mm) GC Column(2): CLPEST2 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKFG	85	85	92	92			0
02	E00J2MS	59	67	444*	519*			2
03	E00J2MSD	56	59	163*	230*			2
04	E00L4DL	79	107	750D	857D			0
05	E00J8DL	105	86	140	131			0
06	E00K9	100	173D	55	50			0
07	E00L5DL	74	68	100	89			0
08	E00J2	70	70	156*	222*			2
09	E00J6	56	56	111	158*			1
10	E00J7	65	62	74	144			0
11	E00J8	76	60	79	121			0
12	E00J9	71	63	89	95			0
13	E00K2	66	56	84	122			0
14	E00K3	68	64	292*	236*			2
15	E00K4	82	71	71	76			0
16	E00L2	58	58	92	3417*			1
17	E00L3	105	68	60	55			0
18	E00L4	50	61	1250*	571*			2
19	E00L5	58	58	174*	126			1
20	E00L6	74	70	74	96			0
21	E00L9	74	74	53	105			0
22	E00L2DL	104	75	100	2250D			0
23	E00J2DL	78	81	178D	233D			0
24								
25								
26								
27								
28								
29								
30								

		QC LIMITS
S1 (TCX)	= Tetrachloro-m-xylene	(30-150)
S2 (DCB)	= Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

FORM II PEST-2

DEC 11 2001

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

GC Column(1): CLPEST ID: 0.53(mm) GC Column(2): CLPEST2 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKSC	110	110	95	95			0
02								
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

		QC LIMITS
S1 (TCX)	= Tetrachloro-m-xylene	(30-150)
S2 (DCB)	= Decachlorobiphenyl	(30-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix Spike - EPA Sample No.: E00J2

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	33	0.0	16	48	46-127
Heptachlor	33	0.0	21	64	35-130
Aldrin	33	0.0	16	48	34-132
Dieldrin	67	0.0	49	73	31-134
Endrin	67	0.0	62	93	42-139
4,4'-DDT	67	120	58	-93*	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	33	16	48	0	50	46-127
Heptachlor	33	20	61	5	31	35-130
Aldrin	33	17	52	8	43	34-132
Dieldrin	67	46	69	6	38	31-134
Endrin	67	51	76	20	45	42-139
4,4'-DDT	67	48	-107*	-14	50	23-134

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 2 out of 12 outside limits

COMMENTS: _____

FORM III PEST-2

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKFG

b Name: COMPUCHEM | Contract: 68W99071

Lab Code: LIBRTY | Case No.: 29954 | SAS No.: | SDG No.: E00J2

Lab Sample ID: WG14288-1 | Lab File ID: _____

Matrix (soil/water) SOIL | Extraction:(Type) SONC

Sulfur Cleanup (Y/N) N | Date Extracted: 11/17/01

Date Analyzed (1): 11/28/01 | Date Analyzed (2): 11/28/01

Time Analyzed (1): 0238 | Time Analyzed (2): 0238

Instrument ID (1): VARIAN43 | Instrument ID (2): VARIAN46

GC Column (1): CLPEST ID: 0.53(mm) | GC Column (2): CLPEST2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	E00J2MS	WG14288-2	11/28/01	11/28/01
02	E00J2MSD	WG14882-3	11/28/01	11/28/01
03	E00L4DL	E00J2-15	11/28/01	11/28/01
04	E00J8DL	E00J2-4	11/28/01	11/28/01
05	E00K9	E00J2-10	11/28/01	11/28/01
06	E00L5DL	E00J2-16	11/28/01	11/28/01
07	E00J2	E00J2-1	11/28/01	11/28/01
08	E00J6	E00J2-2	11/28/01	11/28/01
09	E00J7	E00J2-3	11/29/01	11/29/01
10	E00J8	E00J2-4	11/29/01	11/29/01
11	E00J9	E00J2-5	11/29/01	11/29/01
12	E00K2	E00J2-7	11/29/01	11/29/01
13	E00K3	E00J2-8	11/29/01	11/29/01
14	E00K4	E00J2-9	11/29/01	11/29/01
15	E00L2	E00J2-13	11/29/01	11/29/01
16	E00L3	E00J2-14	11/29/01	11/29/01
17	E00L4	E00J2-15	11/29/01	11/29/01
18	E00L5	E00J2-16	11/29/01	11/29/01
19	E00L6	E00J2-17	11/29/01	11/29/01
20	E00L9	E00J2-19	11/29/01	11/29/01
21	E00L2DL	E00J2-13	11/30/01	11/30/01
22	E00J2DL	E00J2-1	11/30/01	11/30/01
23				
24				
25				
26				

COMMENTS: _____

FORM IV PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-1

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

% Moisture: 50 Decanted: (Y/N) N Date Received: 11/08/01

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/28/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.4	U
319-85-7	beta-BHC	3.4	U
319-86-8	delta-BHC	3.4	U
58-89-9	gamma-BHC (Lindane)	3.4	U
76-44-8	Heptachlor	3.4	U
309-00-2	Aldrin	3.4	U
1024-57-3	Heptachlor epoxide	2.0	JP
959-98-8	Endosulfan I	3.4	U
60-57-1	Dieldrin	6.6	U
72-55-9	4,4'-DDE	6.0	JP
72-20-8	Endrin	6.6	U
33213-65-9	Endosulfan II	6.6	U
72-54-8	4,4'-DDD	38	
1031-07-8	Endosulfan sulfate	6.6	U
50-29-3	4,4'-DDT	120	E
72-43-5	Methoxychlor	34	U
53494-70-5	Endrin ketone	6.6	U
7421-93-4	Endrin aldehyde	6.6	U
5103-71-9	alpha-Chlordane	16	P
5103-74-2	gamma-Chlordane	32	
8001-35-2	Toxaphene	340	U
12674-11-2	Aroclor-1016	66	U
11104-28-2	Aroclor-1221	130	U
11141-16-5	Aroclor-1232	66	U
53469-21-9	Aroclor-1242	66	U
12672-29-6	Aroclor-1248	66	U
11097-69-1	Aroclor-1254	66	U
11096-82-5	Aroclor-1260	66	U

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J2DL

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-1

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

% Moisture: 50 Decanted: (Y/N) N Date Received: 11/08/01

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/30/01

Injection Volume: 1.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) Y

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	6.8	U
319-85-7	beta-BHC	6.8	U
319-86-8	delta-BHC	6.8	U
58-89-9	gamma-BHC (Lindane)	6.8	U
76-44-8	Heptachlor	6.8	U
309-00-2	Aldrin	6.8	U
1024-57-3	Heptachlor epoxide	6.8	U
959-98-8	Endosulfan I	6.8	U
60-57-1	Dieldrin	13	U
72-55-9	4,4'-DDE	13	U
72-20-8	Endrin	13	U
33213-65-9	Endosulfan II	13	U
72-54-8	4,4'-DDD	40	D
1031-07-8	Endosulfan sulfate	13	U
50-29-3	4,4'-DDT	130	DP
72-43-5	Methoxychlor	68	U
53494-70-5	Endrin ketone	13	U
7421-93-4	Endrin aldehyde	13	U
5103-71-9	alpha-Chlordane	19	D
5103-74-2	gamma-Chlordane	35	DP
8001-35-2	Toxaphene	680	U
12674-11-2	Aroclor-1016	130	U
11104-28-2	Aroclor-1221	270	U
11141-16-5	Aroclor-1232	130	U
53469-21-9	Aroclor-1242	130	U
12672-29-6	Aroclor-1248	130	U
11097-69-1	Aroclor-1254	130	U
11096-82-5	Aroclor-1260	130	U

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-2

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

% Moisture: 63 Decanted: (Y/N) N Date Received: 11/08/01

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/28/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) Y

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

CAS NO.	COMPOUND	Q
319-84-6	alpha-BHC	4.6	U
319-85-7	beta-BHC	4.6	U
319-86-8	delta-BHC	4.6	U
58-89-9	gamma-BHC (Lindane)	4.6	U
76-44-8	Heptachlor	4.6	U
309-00-2	Aldrin	4.6	U
1024-57-3	Heptachlor epoxide	4.6	U
959-98-8	Endosulfan I	4.6	U
60-57-1	Dieldrin	10	P
72-55-9	4,4'-DDE	15	P
72-20-8	Endrin	8.9	U
33213-65-9	Endosulfan II	8.9	U
72-54-8	4,4'-DDD	18	P
1031-07-8	Endosulfan sulfate	11	
50-29-3	4,4'-DDT	19	P
72-43-5	Methoxychlor	46	U
53494-70-5	Endrin ketone	8.9	U
7421-93-4	Endrin aldehyde	8.9	U
5103-71-9	alpha-Chlordane	9.5	P
5103-74-2	gamma-Chlordane	20	P
8001-35-2	Toxaphene	460	U
12674-11-2	Aroclor-1016	89	U
11104-28-2	Aroclor-1221	180	U
11141-16-5	Aroclor-1232	89	U
53469-21-9	Aroclor-1242	89	U
12672-29-6	Aroclor-1248	89	U
11097-69-1	Aroclor-1254	89	U
11096-82-5	Aroclor-1260	89	U

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J7

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-3

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

% Moisture: 61 Decanted: (Y/N) N Date Received: 11/08/01

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/29/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	4.4	U
319-85-7	beta-BHC	4.4	U
319-86-8	delta-BHC	4.4	U
58-89-9	gamma-BHC (Lindane)	4.4	U
76-44-8	Heptachlor	4.4	U
309-00-2	Aldrin	4.4	U
1024-57-3	Heptachlor epoxide	4.4	U
959-98-8	Endosulfan I	4.4	U
60-57-1	Dieldrin	11	P
72-55-9	4,4'-DDE	16	P
72-20-8	Endrin	16	P
33213-65-9	Endosulfan II	8.5	U
72-54-8	4,4'-DDD	15	P
1031-07-8	Endosulfan sulfate	8.5	U
50-29-3	4,4'-DDT	8.5	U
72-43-5	Methoxychlor	44	U
53494-70-5	Endrin ketone	8.5	U
7421-93-4	Endrin aldehyde	8.5	U
5103-71-9	alpha-Chlordane	11	P
5103-74-2	gamma-Chlordane	19	P
8001-35-2	Toxaphene	440	U
12674-11-2	Aroclor-1016	85	U
11104-28-2	Aroclor-1221	170	U
11141-16-5	Aroclor-1232	85	U
53469-21-9	Aroclor-1242	85	U
12672-29-6	Aroclor-1248	85	U
11097-69-1	Aroclor-1254	85	U
11096-82-5	Aroclor-1260	85	U

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-4

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

% Moisture: 68 Decanted: (Y/N) N Date Received: 11/08/01

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/29/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	5.3	U
319-85-7	beta-BHC	15	P
319-86-8	delta-BHC	5.3	U
58-89-9	gamma-BHC (Lindane)	5.3	U
76-44-8	Heptachlor	5.3	U
309-00-2	Aldrin	5.3	U
1024-57-3	Heptachlor epoxide	5.3	U
959-98-8	Endosulfan I	5.3	U
60-57-1	Dieldrin	13	P
72-55-9	4,4'-DDE	17	P
72-20-8	Endrin	16	P
33213-65-9	Endosulfan II	10	U
72-54-8	4,4'-DDD	18	
1031-07-8	Endosulfan sulfate	10	U
50-29-3	4,4'-DDT	10	U
72-43-5	Methoxychlor	53	U
53494-70-5	Endrin ketone	10	U
7421-93-4	Endrin aldehyde	10	U
5103-71-9	alpha-Chlordane	12	P
5103-74-2	gamma-Chlordane	20	P
8001-35-2	Toxaphene	530	U
12674-11-2	Aroclor-1016	100	U
11104-28-2	Aroclor-1221	210	U
11141-16-5	Aroclor-1232	100	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	100	U
11096-82-5	Aroclor-1260	100	U

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J8DL

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-4

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

% Moisture: 68 Decanted: (Y/N) N Date Received: 11/08/01

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/28/01

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	27	U
319-85-7	beta-BHC	27	U
319-86-8	delta-BHC	27	U
58-89-9	gamma-BHC (Lindane)	27	U
76-44-8	Heptachlor	27	U
309-00-2	Aldrin	27	U
1024-57-3	Heptachlor epoxide	27	U
959-98-8	Endosulfan I	27	U
60-57-1	Dieldrin	52	U
72-55-9	4,4'-DDE	52	U
72-20-8	Endrin	52	U
33213-65-9	Endosulfan II	52	U
72-54-8	4,4'-DDD	52	U
1031-07-8	Endosulfan sulfate	52	U
50-29-3	4,4'-DDT	52	U
72-43-5	Methoxychlor	270	U
53494-70-5	Endrin ketone	52	U
7421-93-4	Endrin aldehyde	52	U
5103-71-9	alpha-Chlordane	27	U
5103-74-2	gamma-Chlordane	29	DP
8001-35-2	Toxaphene	2700	U
12674-11-2	Aroclor-1016	520	U
11104-28-2	Aroclor-1221	1000	U
11141-16-5	Aroclor-1232	520	U
53469-21-9	Aroclor-1242	520	U
12672-29-6	Aroclor-1248	520	U
11097-69-1	Aroclor-1254	520	U
11096-82-5	Aroclor-1260	520	U

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-5

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

% Moisture: 65 Decanted: (Y/N) N Date Received: 11/08/01

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/29/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.9	U
319-85-7	beta-BHC	4.9	U
319-86-8	delta-BHC	4.9	U
58-89-9	gamma-BHC (Lindane)	4.9	U
76-44-8	Heptachlor	4.9	U
309-00-2	Aldrin	4.9	U
1024-57-3	Heptachlor epoxide	4.9	U
959-98-8	Endosulfan I	4.9	U
60-57-1	Dieldrin	9.4	U
72-55-9	4,4'-DDE	11	P
72-20-8	Endrin	9.4	U
33213-65-9	Endosulfan II	9.4	U
72-54-8	4,4'-DDD	12	
1031-07-8	Endosulfan sulfate	9.4	U
50-29-3	4,4'-DDT	9.4	U
72-43-5	Methoxychlor	49	U
53494-70-5	Endrin ketone	9.4	U
7421-93-4	Endrin aldehyde	9.4	U
5103-71-9	alpha-Chlordane	9.5	P
5103-74-2	gamma-Chlordane	14	P
8001-35-2	Toxaphene	490	U
12674-11-2	Aroclor-1016	94	U
11104-28-2	Aroclor-1221	190	U
11141-16-5	Aroclor-1232	94	U
53469-21-9	Aroclor-1242	94	U
12672-29-6	Aroclor-1248	94	U
11097-69-1	Aroclor-1254	94	U
11096-82-5	Aroclor-1260	94	U

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-7

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

% Moisture: 58 Decanted: (Y/N) N Date Received: 11/08/01

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/29/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.0	U
319-85-7	beta-BHC	15	P
319-86-8	delta-BHC	4.0	U
58-89-9	gamma-BHC (Lindane)	4.0	U
76-44-8	Heptachlor	4.0	U
309-00-2	Aldrin	4.0	U
1024-57-3	Heptachlor epoxide	4.0	U
959-98-8	Endosulfan I	4.0	U
60-57-1	Dieldrin	7.9	U
72-55-9	4,4'-DDE	12	P
72-20-8	Endrin	7.9	U
33213-65-9	Endosulfan II	7.9	U
72-54-8	4,4'-DDD	11	P
1031-07-8	Endosulfan sulfate	7.9	U
50-29-3	4,4'-DDT	7.9	U
72-43-5	Methoxychlor	40	U
53494-70-5	Endrin ketone	7.9	U
7421-93-4	Endrin aldehyde	7.9	U
5103-71-9	alpha-Chlordane	8.1	P
5103-74-2	gamma-Chlordane	18	P
8001-35-2	Toxaphene	400	U
12674-11-2	Aroclor-1016	79	U
11104-28-2	Aroclor-1221	160	U
11141-16-5	Aroclor-1232	79	U
53469-21-9	Aroclor-1242	79	U
12672-29-6	Aroclor-1248	79	U
11097-69-1	Aroclor-1254	79	U
11096-82-5	Aroclor-1260	79	U

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-8

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

% Moisture: 46 Decanted: (Y/N) N Date Received: 11/08/01

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/29/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Sulfur Cleanup: (Y/N) Y

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	3.1	U
319-85-7	beta-BHC	3.1	U
319-86-8	delta-BHC	3.1	U
58-89-9	gamma-BHC (Lindane)	3.1	U
76-44-8	Heptachlor	3.8	P
309-00-2	Aldrin	3.1	U
1024-57-3	Heptachlor epoxide	3.1	U
959-98-8	Endosulfan I	3.1	U
60-57-1	Dieldrin	8.1	
72-55-9	4,4'-DDE	16	P
72-20-8	Endrin	11	P
33213-65-9	Endosulfan II	6.1	U
72-54-8	4,4'-DDD	12	P
1031-07-8	Endosulfan sulfate	7.8	P
50-29-3	4,4'-DDT	6.1	U
72-43-5	Methoxychlor	31	U
53494-70-5	Endrin ketone	6.1	U
7421-93-4	Endrin aldehyde	6.1	U
5103-71-9	alpha-Chlordane	15	P
5103-74-2	gamma-Chlordane	23	P
8001-35-2	Toxaphene	310	U
12674-11-2	Aroclor-1016	61	U
11104-28-2	Aroclor-1221	120	U
11141-16-5	Aroclor-1232	61	U
53469-21-9	Aroclor-1242	61	U
12672-29-6	Aroclor-1248	61	U
11097-69-1	Aroclor-1254	61	U
11096-82-5	Aroclor-1260	61	U

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-9

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

% Moisture: 21 Decanted: (Y/N) N Date Received: 11/08/01

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/29/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	2.2	U
319-86-8	delta-BHC	2.2	U
58-89-9	gamma-BHC (Lindane)	2.2	U
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.2	U
1024-57-3	Heptachlor epoxide	2.2	U
959-98-8	Endosulfan I	2.2	U
60-57-1	Dieldrin	4.2	U
72-55-9	4,4'-DDE	6.4	P
72-20-8	Endrin	4.2	U
33213-65-9	Endosulfan II	4.2	U
72-54-8	4,4'-DDD	28	
1031-07-8	Endosulfan sulfate	4.2	U
50-29-3	4,4'-DDT	4.2	U
72-43-5	Methoxychlor	22	U
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	4.2	U
5103-71-9	alpha-Chlordane	2.2	U
5103-74-2	gamma-Chlordane	5.7	
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	85	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00K9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-10

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

% Moisture: 40 Decanted: (Y/N) N Date Received: 11/08/01

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/28/01

Injection Volume: 1.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) Y

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

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	7.1	P
319-85-7	beta-BHC	5.7	U
319-86-8	delta-BHC	5.7	U
58-89-9	gamma-BHC (Lindane)	6.9	P
76-44-8	Heptachlor	5.7	U
309-00-2	Aldrin	5.7	U
1024-57-3	Heptachlor epoxide	11	P
959-98-8	Endosulfan I	5.7	U
60-57-1	Dieldrin	11	U
72-55-9	4,4'-DDE	12	
72-20-8	Endrin	11	U
33213-65-9	Endosulfan II	11	U
72-54-8	4,4'-DDD	26	
1031-07-8	Endosulfan sulfate	11	U
50-29-3	4,4'-DDT	11	U
72-43-5	Methoxychlor	57	U
53494-70-5	Endrin ketone	11	U
7421-93-4	Endrin aldehyde	11	U
5103-71-9	alpha-Chlordane	5.7	U
5103-74-2	gamma-Chlordane	9.2	P
8001-35-2	Toxaphene	570	U
12674-11-2	Aroclor-1016	110	U
11104-28-2	Aroclor-1221	220	U
11141-16-5	Aroclor-1232	110	U
53469-21-9	Aroclor-1242	110	U
12672-29-6	Aroclor-1248	110	U
11097-69-1	Aroclor-1254	110	U
11096-82-5	Aroclor-1260	110	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-13

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

% Moisture: 45 Decanted: (Y/N) N Date Received: 11/09/01

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/29/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	3.1	U
319-85-7	beta-BHC	17	P
319-86-8	delta-BHC	3.1	U
58-89-9	gamma-BHC (Lindane)	4.6	P
76-44-8	Heptachlor	3.1	U
309-00-2	Aldrin	3.1	U
1024-57-3	Heptachlor epoxide	3.1	U
959-98-8	Endosulfan I	3.1	U
60-57-1	Dieldrin	17	P
72-55-9	4,4'-DDE	23	P
72-20-8	Endrin	23	
33213-65-9	Endosulfan II	6.0	U
72-54-8	4,4'-DDD	100	E
1031-07-8	Endosulfan sulfate	7.6	P
50-29-3	4,4'-DDT	100	EP
72-43-5	Methoxychlor	31	U
53494-70-5	Endrin ketone	6.0	U
7421-93-4	Endrin aldehyde	6.0	U
5103-71-9	alpha-Chlordane	3.1	U
5103-74-2	gamma-Chlordane	24	P
8001-35-2	Toxaphene	310	U
12674-11-2	Aroclor-1016	60	U
11104-28-2	Aroclor-1221	120	U
11141-16-5	Aroclor-1232	60	U
53469-21-9	Aroclor-1242	60	U
12672-29-6	Aroclor-1248	60	U
11097-69-1	Aroclor-1254	60	U
11096-82-5	Aroclor-1260	60	U

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L2DL

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-13

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

% Moisture: 45 Decanted: (Y/N) N Date Received: 11/09/01

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/30/01

Injection Volume: 1.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	15	U
319-85-7	beta-BHC	15	U
319-86-8	delta-BHC	15	U
58-89-9	gamma-BHC (Lindane)	15	U
76-44-8	Heptachlor	15	U
309-00-2	Aldrin	15	U
1024-57-3	Heptachlor epoxide	15	U
959-98-8	Endosulfan I	15	U
60-57-1	Dieldrin	30	U
72-55-9	4,4'-DDE	23	DJP
72-20-8	Endrin	30	U
33213-65-9	Endosulfan II	30	U
72-54-8	4,4'-DDD	110	D
1031-07-8	Endosulfan sulfate	30	U
50-29-3	4,4'-DDT	99	DP
72-43-5	Methoxychlor	150	U
53494-70-5	Endrin ketone	30	U
7421-93-4	Endrin aldehyde	30	U
5103-71-9	alpha-Chlordane	15	U
5103-74-2	gamma-Chlordane	28	DP
8001-35-2	Toxaphene	1500	U
12674-11-2	Aroclor-1016	300	U
11104-28-2	Aroclor-1221	610	U
11141-16-5	Aroclor-1232	300	U
53469-21-9	Aroclor-1242	300	U
12672-29-6	Aroclor-1248	300	U
11097-69-1	Aroclor-1254	300	U
11096-82-5	Aroclor-1260	300	U

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-14

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

% Moisture: 67 Decanted: (Y/N) N Date Received: 11/09/01

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/29/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	5.2	U
319-85-7	beta-BHC	5.2	U
319-86-8	delta-BHC	5.2	U
58-89-9	gamma-BHC (Lindane)	5.2	U
76-44-8	Heptachlor	5.2	U
309-00-2	Aldrin	5.2	U
1024-57-3	Heptachlor epoxide	5.2	U
959-98-8	Endosulfan I	5.2	U
60-57-1	Dieldrin	10	U
72-55-9	4,4'-DDE	23	P
72-20-8	Endrin	10	U
33213-65-9	Endosulfan II	10	U
72-54-8	4,4'-DDD	46	
1031-07-8	Endosulfan sulfate	10	U
50-29-3	4,4'-DDT	10	U
72-43-5	Methoxychlor	52	U
53494-70-5	Endrin ketone	10	U
7421-93-4	Endrin aldehyde	10	U
5103-71-9	alpha-Chlordane	5.2	U
5103-74-2	gamma-Chlordane	9.9	P
8001-35-2	Toxaphene	520	U
12674-11-2	Aroclor-1016	100	U
11104-28-2	Aroclor-1221	200	U
11141-16-5	Aroclor-1232	100	U
53469-21-9	Aroclor-1242	100	U
12672-29-6	Aroclor-1248	100	U
11097-69-1	Aroclor-1254	100	U
11096-82-5	Aroclor-1260	100	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-15

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

% Moisture: 52 Decanted: (Y/N) N Date Received: 11/09/01

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/29/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	3.5	U
319-85-7	beta-BHC	3.5	U
319-86-8	delta-BHC	3.5	U
58-89-9	gamma-BHC (Lindane)	3.5	U
76-44-8	Heptachlor	3.5	U
309-00-2	Aldrin	3.5	U
1024-57-3	Heptachlor epoxide	3.5	U
959-98-8	Endosulfan I	3.5	U
60-57-1	Dieldrin	63	P
72-55-9	4,4'-DDE	81	
72-20-8	Endrin	6.9	U
33213-65-9	Endosulfan II	6.9	U
72-54-8	4,4'-DDD	640	EC
1031-07-8	Endosulfan sulfate	6.9	U
50-29-3	4,4'-DDT	140	E
72-43-5	Methoxychlor	35	U
53494-70-5	Endrin ketone	24	P
7421-93-4	Endrin aldehyde	6.9	U
5103-71-9	alpha-Chlordane	3.5	U
5103-74-2	gamma-Chlordane	3.5	U
8001-35-2	Toxaphene	350	U
12674-11-2	Aroclor-1016	69	U
11104-28-2	Aroclor-1221	140	U
11141-16-5	Aroclor-1232	69	U
53469-21-9	Aroclor-1242	69	U
12672-29-6	Aroclor-1248	69	U
11097-69-1	Aroclor-1254	69	U
11096-82-5	Aroclor-1260	69	U

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L4DL

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-15

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

% Moisture: 52 Decanted: (Y/N) N Date Received: 11/09/01

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/28/01

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	35	U
319-85-7	beta-BHC	35	U
319-86-8	delta-BHC	35	U
58-89-9	gamma-BHC (Lindane)	35	U
76-44-8	Heptachlor	35	U
309-00-2	Aldrin	35	U
1024-57-3	Heptachlor epoxide	35	U
959-98-8	Endosulfan I	35	U
60-57-1	Dieldrin	84	DP
72-55-9	4,4'-DDE	100	D
72-20-8	Endrin	69	U
33213-65-9	Endosulfan II	69	U
72-54-8	4,4'-DDD	610	DC
1031-07-8	Endosulfan sulfate	69	U
50-29-3	4,4'-DDT	150	D
72-43-5	Methoxychlor	350	U
53494-70-5	Endrin ketone	69	U
7421-93-4	Endrin aldehyde	69	U
5103-71-9	alpha-Chlordane	35	U
5103-74-2	gamma-Chlordane	120	D
8001-35-2	Toxaphene	3500	U
12674-11-2	Aroclor-1016	690	U
11104-28-2	Aroclor-1221	1400	U
11141-16-5	Aroclor-1232	690	U
53469-21-9	Aroclor-1242	690	U
12672-29-6	Aroclor-1248	690	U
11097-69-1	Aroclor-1254	690	U
11096-82-5	Aroclor-1260	690	U

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-16

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

% Moisture: 30 Decanted: (Y/N) N Date Received: 11/09/01

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/29/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	2.4	U
76-44-8	Heptachlor	2.4	U
309-00-2	Aldrin	2.4	U
1024-57-3	Heptachlor epoxide	4.6	P
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	22	P
72-55-9	4,4'-DDE	25	P
72-20-8	Endrin	4.7	U
33213-65-9	Endosulfan II	4.7	U
72-54-8	4,4'-DDD	20	P
1031-07-8	Endosulfan sulfate	4.7	U
50-29-3	4,4'-DDT	15	P
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	4.7	U
7421-93-4	Endrin aldehyde	4.7	U
5103-71-9	alpha-Chlordane	8.9	P
5103-74-2	gamma-Chlordane	19	P
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	47	U
11104-28-2	Aroclor-1221	96	U
11141-16-5	Aroclor-1232	47	U
53469-21-9	Aroclor-1242	47	U
12672-29-6	Aroclor-1248	47	U
11097-69-1	Aroclor-1254	47	U
11096-82-5	Aroclor-1260	47	U

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L5DL

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-16

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

% Moisture: 30 Decanted: (Y/N) N Date Received: 11/09/01

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/28/01

Injection Volume: 1.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	4.9	U
319-85-7	beta-BHC	4.9	U
319-86-8	delta-BHC	4.9	U
58-89-9	gamma-BHC (Lindane)	4.9	U
76-44-8	Heptachlor	4.9	U
309-00-2	Aldrin	4.9	U
1024-57-3	Heptachlor epoxide	6.7	DP
959-98-8	Endosulfan I	4.9	U
60-57-1	Dieldrin	27	D
72-55-9	4,4'-DDE	28	DP
72-20-8	Endrin	9.4	U
33213-65-9	Endosulfan II	9.4	U
72-54-8	4,4'-DDD	23	D
1031-07-8	Endosulfan sulfate	9.4	U
50-29-3	4,4'-DDT	16	DP
72-43-5	Methoxychlor	49	U
53494-70-5	Endrin ketone	9.4	U
7421-93-4	Endrin aldehyde	9.4	U
5103-71-9	alpha-Chlordane	9.7	DP
5103-74-2	gamma-Chlordane	18	DP
8001-35-2	Toxaphene	490	U
12674-11-2	Aroclor-1016	94	U
11104-28-2	Aroclor-1221	190	U
11141-16-5	Aroclor-1232	94	U
53469-21-9	Aroclor-1242	94	U
12672-29-6	Aroclor-1248	94	U
11097-69-1	Aroclor-1254	94	U
11096-82-5	Aroclor-1260	94	U

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-17

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

% Moisture: 41 Decanted: (Y/N) N Date Received: 11/09/01

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/29/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.9	U
319-85-7	beta-BHC	2.9	U
319-86-8	delta-BHC	2.9	U
58-89-9	gamma-BHC (Lindane)	2.9	U
76-44-8	Heptachlor	2.9	U
309-00-2	Aldrin	2.9	U
1024-57-3	Heptachlor epoxide	2.9	U
959-98-8	Endosulfan I	2.9	U
60-57-1	Dieldrin	5.6	U
72-55-9	4,4'-DDE	10	
72-20-8	Endrin	5.6	U
33213-65-9	Endosulfan II	5.6	U
72-54-8	4,4'-DDD	5.6	U
1031-07-8	Endosulfan sulfate	5.6	U
50-29-3	4,4'-DDT	5.6	U
72-43-5	Methoxychlor	29	U
53494-70-5	Endrin ketone	5.6	U
7421-93-4	Endrin aldehyde	5.6	U
5103-71-9	alpha-Chlordane	4.0	P
5103-74-2	gamma-Chlordane	13	
8001-35-2	Toxaphene	290	U
12674-11-2	Aroclor-1016	56	U
11104-28-2	Aroclor-1221	110	U
11141-16-5	Aroclor-1232	56	U
53469-21-9	Aroclor-1242	56	U
12672-29-6	Aroclor-1248	56	U
11097-69-1	Aroclor-1254	56	U
11096-82-5	Aroclor-1260	56	U

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00L9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: E00J2-19

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

% Moisture: 29 Decanted: (Y/N) N Date Received: 11/09/01

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/29/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8.1 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	2.4	U
319-85-7	beta-BHC	2.4	U
319-86-8	delta-BHC	2.4	U
58-89-9	gamma-BHC (Lindane)	2.4	U
76-44-8	Heptachlor	2.4	U
309-00-2	Aldrin	2.4	U
1024-57-3	Heptachlor epoxide	2.4	U
959-98-8	Endosulfan I	2.4	U
60-57-1	Dieldrin	4.6	U
72-55-9	4,4'-DDE	7.5	
72-20-8	Endrin	4.6	U
33213-65-9	Endosulfan II	4.6	U
72-54-8	4,4'-DDD	18	
1031-07-8	Endosulfan sulfate	4.6	U
50-29-3	4,4'-DDT	4.6	U
72-43-5	Methoxychlor	24	U
53494-70-5	Endrin ketone	4.6	U
7421-93-4	Endrin aldehyde	4.6	U
5103-71-9	alpha-Chlordane	2.4	U
5103-74-2	gamma-Chlordane	3.0	P
8001-35-2	Toxaphene	240	U
12674-11-2	Aroclor-1016	46	U
11104-28-2	Aroclor-1221	94	U
11141-16-5	Aroclor-1232	46	U
53469-21-9	Aroclor-1242	46	U
12672-29-6	Aroclor-1248	46	U
11097-69-1	Aroclor-1254	46	U
11096-82-5	Aroclor-1260	46	U

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKFG

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14288-1

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

% Moisture: 0 Decanted: (Y/N) N Date Received: _____

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/28/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKSC

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

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

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) _____ Date Received: _____

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 2000(uL) Date Analyzed: 11/28/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

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

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

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

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J2MS

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14288-2

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

% Moisture: 50 Decanted: (Y/N) N Date Received: 11/08/01

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/28/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) Y

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

CAS NO.	COMPOUND	Q
319-84-6	alpha-BHC	3.4 U
319-85-7	beta-BHC	3.4 U
319-86-8	delta-BHC	3.4 U
58-89-9	gamma-BHC (Lindane)	16
76-44-8	Heptachlor	21 P
309-00-2	Aldrin	16 P
1024-57-3	Heptachlor epoxide	3.1 JP
959-98-8	Endosulfan I	3.4 U
60-57-1	Dieldrin	49
72-55-9	4,4'-DDE	6.2 JP
72-20-8	Endrin	62 P
33213-65-9	Endosulfan II	6.6 U
72-54-8	4,4'-DDD	36
1031-07-8	Endosulfan sulfate	6.6 U
50-29-3	4,4'-DDT	58 P
72-43-5	Methoxychlor	34 U
53494-70-5	Endrin ketone	14
7421-93-4	Endrin aldehyde	6.6 U
5103-71-9	alpha-Chlordane	17 P
5103-74-2	gamma-Chlordane	28 P
8001-35-2	Toxaphene	340 U
12674-11-2	Aroclor-1016	66 U
11104-28-2	Aroclor-1221	130 U
11141-16-5	Aroclor-1232	66 U
53469-21-9	Aroclor-1242	66 U
12672-29-6	Aroclor-1248	66 U
11097-69-1	Aroclor-1254	66 U
11096-82-5	Aroclor-1260	66 U

FORM I PEST

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J2MSD

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00J2

Matrix: (soil/water) SOIL Lab Sample ID: WG14882-3

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

% Moisture: 50 Decanted: (Y/N) N Date Received: 11/08/01

Extraction: (Type) SONC Date Extracted: 11/17/01

Concentrated Extract Volume: 5000(uL) Date Analyzed: 11/28/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Sulfur Cleanup: (Y/N) Y

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	3.4	U
319-85-7	beta-BHC	3.4	U
319-86-8	delta-BHC	3.4	U
58-89-9	gamma-BHC (Lindane)	16	P
76-44-8	Heptachlor	20	
309-00-2	Aldrin	17	P
1024-57-3	Heptachlor epoxide	3.4	U
959-98-8	Endosulfan I	3.4	U
60-57-1	Dieldrin	46	
72-55-9	4,4'-DDE	5.7	JP
72-20-8	Endrin	51	P
33213-65-9	Endosulfan II	6.6	U
72-54-8	4,4'-DDD	25	P
1031-07-8	Endosulfan sulfate	6.6	U
50-29-3	4,4'-DDT	48	P
72-43-5	Methoxychlor	34	U
53494-70-5	Endrin ketone	6.6	U
7421-93-4	Endrin aldehyde	6.6	U
5103-71-9	alpha-Chlordane	17	
5103-74-2	gamma-Chlordane	33	
8001-35-2	Toxaphene	340	U
12674-11-2	Aroclor-1016	66	U
11104-28-2	Aroclor-1221	130	U
11141-16-5	Aroclor-1232	66	U
53469-21-9	Aroclor-1242	66	U
12672-29-6	Aroclor-1248	66	U
11097-69-1	Aroclor-1254	66	U
11096-82-5	Aroclor-1260	66	U

FORM I PEST

DATE: December 6, 2001

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Clark

CASE NO.	LAB	NO. OF SAMPLES	SDG	MATRIX
29954	Compuchem	20	E00G3	Soil

==========

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

DEC 1 1 2001

DEC 06 2001

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE: _____

SUBJECT: Electronic (**Level 2**) Review of Data

Received for Review on 11/30/2001

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

The following data has been electronically reviewed by CADRE. No review of the raw data, laboratory narrative, laboratory forms or chain-of-custody forms was performed.

SITE NAME: Clark

CASE NUMBER: 29954 SDG NUMBER: E00G0

Number and Type of Samples: 20 soil samples

Sample Numbers: E00G0,E00G2-E00G9, E00H0–E00H9, E00J0

Laboratory: Compuchem Hrs. for Review: _____

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

DEC 11 2001

Case Number :29954
Site Name: Clark

SDG Number: E00G0
Laboratory: Compuchem

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Twenty soil samples, numbered E00G0,E00G2-E00G9, E00H0–E00H9, E00J0 were collected on *11/06/2001*. The lab received the samples on *11/08/2001* in good condition. All samples were analyzed for only the list of SVOA analytes. All were analyzed according to CLP SOW *OLM04.2* 5/99.

Case Number :29954
Site Name: Clark

SDG Number: E00G0
Laboratory: Compuchem

1. HOLDING TIME

No problems were found for this qualification.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems were found for this qualification.

3. CALIBRATION

The following semivolatile samples are associated with a continuing calibration relative response factor (RRF50) outside primary criteria.
Hits are flagged "J" and non-detects are qualified "R".

Hexachlorocyclopentadiene
E00G0, E00G2, E00G3, E00G4, E00G5, E00G6
E00G6MS, E00G6MSD, E00G7, E00G8, E00G9, E00H0
E00H1, E00H2, E00H3, E00H4, E00H5, E00H6
E00H7, E00H8, E00H9, E00J0, SBLKFE

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria.
Hits are qualified "J" and non-detects are qualified "UJ".

Benzaldehyde
E00G0, E00G2, E00G3, E00G4, E00G5, E00G6
E00G6MS, E00G6MSD, E00G7, E00H3, E00H4, E00H5
E00H6, E00H7, E00H8, E00H9, E00J0, SBLKFE

2,4-Dinitrophenol
E00H6, E00H7, E00H8, E00H9, E00J0

4,6-Dinitro-2-methylphenol
E00G8, E00G9, E00H0, E00H1, E00H2, E00H6
E00H7, E00H8, E00H9, E00J0

Atrazine
E00G8, E00G9, E00H0, E00H1, E00H2

Benzo(g,h,i)perylene
E00G8, E00G9, E00H0, E00H1, E00H2

Case Number :29954
Site Name: Clark

SDG Number: E00G0
Laboratory: Compuchem

4. BLANKS

The blank associated with the following sample was qualified "R" during a previous qualification. Hits and non-detects are not flagged.

E00G0
Hexachlorocyclopentadiene

E00G2
Hexachlorocyclopentadiene

E00G3
Hexachlorocyclopentadiene

E00G4
Hexachlorocyclopentadiene

E00G5
Hexachlorocyclopentadiene

E00G6
Hexachlorocyclopentadiene

E00G6MS
Hexachlorocyclopentadiene

E00G6MSD
Hexachlorocyclopentadiene

E00G7
Hexachlorocyclopentadiene

E00G8
Hexachlorocyclopentadiene

E00G9
Hexachlorocyclopentadiene

E00H0
Hexachlorocyclopentadiene

E00H1
Hexachlorocyclopentadiene

E00H2
Hexachlorocyclopentadiene

E00H3
Hexachlorocyclopentadiene

E00H4
Hexachlorocyclopentadiene

E00H5
Hexachlorocyclopentadiene

E00H6
Hexachlorocyclopentadiene

E00H7
Hexachlorocyclopentadiene

E00H8
Hexachlorocyclopentadiene

E00H9
Hexachlorocyclopentadiene

E00J0
Hexachlorocyclopentadiene

The following semivolatile samples have analyte concentrations reported above the CRQL and less than or equal to ten times (10X) the associated method blank concentration.
Hits are qualified "U" and non-detects are not flagged.

E00H2
bis(2-Ethylhexyl)phthalate

The following semivolatile samples have analyte concentrations reported below the CRQL and less than or equal to five times (5X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL.
Hits are flagged "U" and non-detects are not flagged.

E00G0
Benzaldehyde

Case Number :29954
Site Name: Clark

SDG Number: E00G0
Laboratory: Compuchem

E00G3
Benzaldehyde

E00G4
Benzaldehyde

E00G5
Benzaldehyde

E00G6
Benzaldehyde

E00G6MS
Benzaldehyde

E00G6MSD
Benzaldehyde

E00G7
Benzaldehyde

E00G8
Benzaldehyde

E00G9
Benzaldehyde

E00H0
Benzaldehyde, Acetophenone

E00H1
Benzaldehyde

E00H2
Benzaldehyde, Acetophenone

E00H3
Benzaldehyde

E00H4
Benzaldehyde, Acetophenone

E00H5
Benzaldehyde

E00H6
Benzaldehyde

E00H7
Benzaldehyde

E00H8
Benzaldehyde

E00J0
Benzaldehyde, Acetophenone

The following semivolatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL.
Hits are qualified "U" and non-detects are not flagged.

bis(2-Ethylhexyl)phthalate
E00G0, E00G2, E00G3, E00G4, E00G5, E00G6
E00G6MS, E00G6MSD, E00G7, E00G8, E00G9, E00H0
E00H1, E00H3, E00H4, E00H5, E00H6, E00H7
E00H8, E00H9, E00J0

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

No problems were found for this qualification.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No problems were found for this qualification.

7. FIELD BLANK AND FIELD DUPLICATE

None of the samples are field blanks or duplicates. Results are not qualified based upon the results of the field blanks or field duplicates.

8. INTERNAL STANDARDS

No problems were found for this qualification.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all SVOA compounds were

properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

E00G0
Acenaphthene, Dibenzofuran, Fluorene
Phenanthrene, Anthracene, Carbazole, Benzo(a)anthracene
Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene
Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00G2
Acenaphthene, Dibenzofuran, Fluorene, Anthracene
Carbazole, Butylbenzylphthalate, Benzo(a)anthracene,
Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene
Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00G3
Naphthalene, 2-Methylnaphthalene, Acenaphthylene
Acenaphthene, Dibenzofuran, Fluorene, Anthracene
Carbazole, Butylbenzylphthalate, Benzo(a)anthracene,
Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00G4
Phenanthrene, Anthracene, Fluoranthene
Pyrene, Butylbenzylphthalate, Benzo(a)anthracene, Chrysene
Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene
Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00G5
2-Methylnaphthalene, Phenanthrene, Anthracene
Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene
Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene
Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00G6
Phenanthrene, Anthracene, Fluoranthene
Pyrene, Butylbenzylphthalate, Benzo(a)anthracene, Chrysene
Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene
Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00G6MS
Pentachlorophenol, Phenanthrene, Anthracene
Fluoranthene, Butylbenzylphthalate, Benzo(a)anthracene, Chrysene
Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene
Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene

E00G6MSD
Phenanthrene, Anthracene, Fluoranthene
Butylbenzylphthalate, Benzo(a)anthracene, Chrysene,
Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene
Dibenz(a,h)anthracene

E00G7
Fluorene, Phenanthrene, Anthracene
Carbazole, Fluoranthene, Pyrene, Benzo(a)anthracene
Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene
Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00G8
Naphthalene, Acenaphthene, Dibenzofuran
Fluorene, Phenanthrene, Anthracene, Carbazole
Butylbenzylphthalate, Benzo(a)anthracene, Chrysene,
Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene
Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00G9
Acenaphthylene, Phenanthrene, Anthracene
Carbazole, Di-n-butylphthalate, Fluoranthene, Pyrene
Butylbenzylphthalate, Benzo(a)anthracene, Chrysene,
Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene
Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00H0
Acenaphthylene, Phenanthrene
Anthracene, Carbazole, Fluoranthene, Pyrene
Butylbenzylphthalate, Benzo(a)anthracene, Chrysene,
Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene
Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00H1
Phenol, Naphthalene, 2-Methylnaphthalene
Acenaphthylene, Acenaphthene, Dibenzofuran, Fluorene
Phenanthrene, Anthracene, Carbazole, Di-n-butylphthalate
Butylbenzylphthalate, Benzo(a)anthracene, Chrysene,

Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene
Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00H2
Naphthalene, 2-Methylnaphthalene
Acenaphthylene, Acenaphthene, Dibenzofuran, Fluorene
Phenanthrene, Anthracene, Carbazole, Di-n-butylphthalate
Fluoranthene, Pyrene, Butylbenzylphthalate, Benzo(a)anthracene
Chrysene, Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene
Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00H3
Naphthalene, 2-Methylnaphthalene, Acenaphthylene
Acenaphthene, Dibenzofuran, Fluorene, Anthracene
Carbazole, Butylbenzylphthalate, Di-n-octylphthalate
Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00H4
4-Methylphenol, Naphthalene
2-Methylnaphthalene, 1,1'-Biphenyl , Acenaphthylene, Acenaphthene
Dibenzofuran, Fluorene, Anthracene, Carbazole
Butylbenzylphthalate, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene
Benzo(g,h,i)perylene

E00H5
Phenanthrene, Fluoranthene, Pyrene
Butylbenzylphthalate, Benzo(a)anthracene, Chrysene,
Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene
Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00H6
Naphthalene, 2-Methylnaphthalene, 1,1'-Biphenyl
Acenaphthylene, Acenaphthene, Dibenzofuran, Fluorene
Anthracene, Carbazole, Butylbenzylphthalate, Benzo(a)anthracene
Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene
Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00H7
Benzaldehyde, 4-Methylphenol, Acenaphthylene, Acenaphthene
Dibenzofuran, Fluorene, Anthracene, Carbazole
Butylbenzylphthalate, Benzo(a)anthracene, Indeno(1,2,3-cd)pyrene
Dibenz(a,h)anthracene

E00H8

Acenaphthylene, Phenanthrene, Anthracene
Fluoranthene, Pyrene, Butylbenzylphthalate, Benzo(a)anthracene
Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene
Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00H9
Benzaldehyde, 2-Methylnaphthalene, Acenaphthylene, Fluorene
Phenanthrene, Anthracene, Carbazole, Pyrene
Butylbenzylphthalate, Benzo(a)anthracene, Chrysene,
Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene
Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

E00J0
Acenaphthylene, 4-Nitroaniline
Phenanthrene, Anthracene, Carbazole, Di-n-butylphthalate
Fluoranthene, Pyrene, Butylbenzylphthalate, Benzo(a)anthracene
Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene
Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

SBLKFE
Benzaldehyde, Acetophenone , bis(2-Ethylhexyl)phthalate

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

12. ADDITIONAL INFORMATION

None.

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The anlayte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00G0
Site : CLARK
Lab. : LIBRTY
Reviewer :
Date :

Number of Soil Samples : 20
Number of Water Samples : 0

Sample Number :	E00G0		E00G2		E00G3		E00G4		E00G5	
Sampling Location :	X119		X128		X126		X125		X124	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/6/01		11/6/01		11/6/01		11/6/01		11/6/01	
Time Sampled :	09:20		09:45		10:00		10:15		10:30	
%Moisture :	25		21		28		18		16	
pH :	7.0		7.2		6.7		6.8		7.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	440	U	420	UJ	460	U	400	U	390	U
Phenol	440	U	420	U	460	U	400	U	390	U
bis-(2-Chloroethyl) ether	440	U	420	U	460	U	400	U	390	U
2-Chlorophenol	440	U	420	U	460	U	400	U	390	U
2-Methylphenol	440	U	420	U	460	U	400	U	390	U
2,2'-oxybis(1-Chloropropane)	440	U	420	U	460	U	400	U	390	U
Acetophenone	440	U	420	U	460	U	400	U	390	U
4-Methylphenol	440	U	420	U	460	U	400	U	390	U
N-Nitroso-di-n-propylamine	440	U	420	U	460	U	400	U	390	U
Hexachloroethane	440	U	420	U	460	U	400	U	390	U
Nitrobenzene	440	U	420	U	460	U	400	U	390	U
Isophorone	440	U	420	U	460	U	400	U	390	U
2-Nitrophenol	440	U	420	U	460	U	400	U	390	U
2,4-Dimethylphenol	440	U	420	U	460	U	400	U	390	U
bis(2-Chloroethoxy)methane	440	U	420	U	460	U	400	U	390	U
2,4-Dichlorophenol	440	U	420	U	460	U	400	U	390	U
Naphthalene	440	U	420	U	10	J	400	U	390	U
4-Chloroaniline	440	U	420	U	460	U	400	U	390	U
Hexachlorobutadiene	440	U	420	U	460	U	400	U	390	U
Caprolactam	440	U	420	U	460	U	400	U	390	U
4-Chloro-3-methylphenol	440	U	420	U	460	U	400	U	390	U
2-Methylnaphthalene	440	U	420	U	13	J	400	U	12	J
Hexachlorocyclopentadiene	440	R	420	R	460	R	400	R	390	R
2,4,6-Trichlorophenol	440	U	420	U	460	U	400	U	390	U
2,4,5-Trichlorophenol	1100	U	1100	U	1200	U	1000	U	990	U
1,1'-Biphenyl	440	U	420	U	460	U	400	U	390	U
2-Chloronaphthalene	440	U	420	U	460	U	400	U	390	U
2-Nitroaniline	1100	U	1100	U	1200	U	1000	U	990	U
Dimethylphthalate	440	U	420	U	460	U	400	U	390	U
2,6-Dinitrotoluene	440	U	420	U	460	U	400	U	390	U
Acenaphthylene	440	U	420	U	22	J	400	U	390	U
3-Nitroaniline	1100	U	1100	U	1200	U	1000	U	990	U
Acenaphthene	20	J	75	J	23	J	400	U	390	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00G0
Site : CLARK
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00G0		E00G2		E00G3		E00G4		E00G5	
Sampling Location :	X119		X128		X126		X125		X124	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/6/01		11/6/01		11/6/01		11/6/01		11/6/01	
Time Sampled :	09:20		09:45		10:00		10:15		10:30	
%Moisture :	25		21		28		18		16	
pH :	7.0		7.2		6.7		6.8		7.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1100	U	1100	U	1200	U	1000	U	990	U
4-Nitrophenol	1100	U	1100	U	1200	U	1000	U	990	U
Dibenzofuran	12	J	26	J	13	J	400	U	390	U
2,4-Dinitrotoluene	440	U	420	U	460	U	400	U	390	U
Diethylphthalate	440	U	420	U	460	U	400	U	390	U
Fluorene	21	J	81	J	28	J	400	U	390	U
4-Chlorophenyl-phenyl ether	440	U	420	U	460	U	400	U	390	U
4-Nitroaniline	1100	U	1100	U	1200	U	1000	U	990	U
4,6-Dinitro-2-methylphenol	1100	U	1100	U	1200	U	1000	U	990	U
N-Nitrosodiphenylamine	440	U	420	U	460	U	400	U	390	U
4-Bromophenyl-phenylether	440	U	420	U	460	U	400	U	390	U
Hexachlorobenzene	440	U	420	U	460	U	400	U	390	U
Atrazine	440	U	420	U	460	U	400	U	390	U
Pentachlorophenol	1100	U	1100	U	1200	U	1000	U	990	U
Phenanthrene	350	J	860		530		72	J	87	J
Anthracene	39	J	220	J	77	J	14	J	15	J
Carbazole	47	J	120	J	55	J	400	U	390	U
Di-n-butylphthalate	440	U	420	U	460	U	400	U	390	U
Fluoranthene	690		1100		1200		180	J	170	J
Pyrene	520		910		880		160	J	150	J
Butylbenzylphthalate	440	U	12	J	41	J	15	J	390	U
3,3'-Dichlorobenzidine	440	U	420	U	460	U	400	U	390	U
Benzo(a)anthracene	220	J	400	J	430	J	75	J	73	J
Chrysene	330	J	480		620		110	J	110	J
bis(2-Ethylhexyl)phthalate	440	U	420	U	460	U	400	U	390	U
Di-n-octylphthalate	440	U	420	U	460	U	400	U	390	U
Benzo(b)fluoranthene	330	J	360	J	720		110	J	100	J
Benzo(k)fluoranthene	290	J	290	J	500		90	J	84	J
Benzo(a)pyrene	280	J	320	J	530		92	J	86	J
Indeno(1,2,3-cd)pyrene	200	J	170	J	320	J	63	J	53	J
Dibenzo(a,h)anthracene	64	J	63	J	100	J	21	J	20	J
Benzo(g,h,i)perylene	140	J	160	J	290	J	75	J	48	J

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00G0
Site : CLARK
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00G6		E00G6MS		E00G6MSD		E00G7		E00G8	
Sampling Location :	X113		X113		X113		X117		X118	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/6/01		11/6/01		11/6/01		11/6/01		11/6/01	
Time Sampled :	11:30		11:30		11:30		11:40		11:40	
%Moisture :	23		23		23		19		19	
pH :	7.4		7.4		7.4		7.5		7.5	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	430	U	430	U	430	U	410	U	410	U
Phenol	430	U	1700		1900		410	U	410	U
bis-(2-Chloroethyl) ether	430	U	430	U	430	U	410	U	410	U
2-Chlorophenol	430	U	1700		1900		410	U	410	U
2-Methylphenol	430	U	430	U	430	U	410	U	410	U
2,2'-oxybis(1-Chloropropane)	430	U	430	U	430	U	410	U	410	U
Acetophenone	430	U	430	U	430	U	410	U	410	U
4-Methylphenol	430	U	430	U	430	U	410	U	410	U
N-Nitroso-di-n-propylamine	430	U	1400		1400		410	U	410	U
Hexachloroethane	430	U	430	U	430	U	410	U	410	U
Nitrobenzene	430	U	430	U	430	U	410	U	410	U
Isophorone	430	U	430	U	430	U	410	U	410	U
2-Nitrophenol	430	U	430	U	430	U	410	U	410	U
2,4-Dimethylphenol	430	U	430	U	430	U	410	U	410	U
bis(2-Chloroethoxy)methane	430	U	430	U	430	U	410	U	410	U
2,4-Dichlorophenol	430	U	430	U	430	U	410	U	410	U
Naphthalene	430	U	430	U	430	U	410	U	10	J
4-Chloroaniline	430	U	430	U	430	U	410	U	410	U
Hexachlorobutadiene	430	U	430	U	430	U	410	U	410	U
Caprolactam	430	U	430	U	430	U	410	U	410	U
4-Chloro-3-methylphenol	430	U	1700		1900		410	U	410	U
2-Methylnaphthalene	430	U	430	U	430	U	410	U	410	U
Hexachlorocyclopentadiene	430	R	430	R	430	R	410	R	410	R
2,4,6-Trichlorophenol	430	U	430	U	430	U	410	U	410	U
2,4,5-Trichlorophenol	1100	U	1100	U	1100	U	1000	U	1000	U
1,1'-Biphenyl	430	U	430	U	430	U	410	U	410	U
2-Chloronaphthalene	430	U	430	U	430	U	410	U	410	U
2-Nitroaniline	1100	U	1100	U	1100	U	1000	U	1000	U
Dimethylphthalate	430	U	430	U	430	U	410	U	410	U
2,6-Dinitrotoluene	430	U	430	U	430	U	410	U	410	U
Acenaphthylene	430	U	430	U	430	U	410	U	410	U
3-Nitroaniline	1100	U	1100	U	1100	U	1000	U	1000	U
Acenaphthene	430	U	1300		1400		410	U	32	J

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00G0
Site : CLARK
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00G6		E00G6MS		E00G6MSD		E00G7		E00G8	
Sampling Location :	X113		X113		X113		X117		X118	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/6/01		11/6/01		11/6/01		11/6/01		11/6/01	
Time Sampled :	11:30		11:30		11:30		11:40		11:40	
%Moisture :	23		23		23		19		19	
pH :	7.4		7.4		7.4		7.5		7.5	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1100	U	1100	U	1100	U	1000	U	1000	U
4-Nitrophenol	1100	U	1900		2200		1000	U	1000	U
Dibenzofuran	430	U	430	U	430	U	410	U	17	J
2,4-Dinitrotoluene	430	U	1300		1400		410	U	410	U
Diethylphthalate	430	U	430	U	430	U	410	U	410	U
Fluorene	430	U	430	U	430	U	19	J	30	J
4-Chloropnenyl-phenyl ether	430	U	430	U	430	U	410	U	410	U
4-Nitroaniline	1100	U	1100	U	1100	U	1000	U	1000	U
4,6-Dinitro-2-methylphenol	1100	U	1100	U	1100	U	1000	U	1000	UJ
N-Nitrosodiphenylamine	430	U	430	U	430	U	410	U	410	U
4-Bromophenyl-phenylether	430	U	430	U	430	U	410	U	410	U
Hexachlorobenzene	430	U	430	U	430	U	410	U	410	U
Atrazine	430	U	430	U	430	U	410	U	410	UJ
Pentachlorophenol	1100	U	1000	J	1100		1000	U	1000	U
Phenanthrene	52	J	57	J	64	J	130	J	370	J
Anthracene	10	J	11	J	12	J	32	J	63	J
Carbazole	430	U	430	U	430	U	12	J	41	J
Di-n-butylphthalate	430	U	430	U	430	U	410	U	410	U
Fluoranthene	140	J	140	J	160	J	210	J	620	
Pyrene	130	J	1500		1600		170	J	460	
Butylbenzylphthalate	11	J	12	J	17	J	410	U	14	J
3,3'-Dichlorobenzidine	430	U	430	U	430	U	410	U	410	U
Benzo(a)anthracene	61	J	62	J	69	J	88	J	230	J
Chrysene	93	J	93	J	100	J	120	J	290	J
bis(2-Ethylhexyl)phthalate	430	U	430	U	430	U	410	U	410	U
Di-n-octylphthalate	430	U	430	U	430	U	410	U	13	J
Benzo(b)fluoranthene	96	J	99	J	96	J	110	J	300	J
Benzo(k)fluoranthene	80	J	83	J	95	J	94	J	200	J
Benzo(a)pyrene	79	J	80	J	89	J	92	J	240	J
Indeno(1,2,3-cd)pyrene	59	J	53	J	57	J	59	J	150	J
Dibenzo(a,h)anthracene	21	J	20	J	30	J	21	J	70	J
Benzo(g,h,i)perylene	59	J	430	U	430	U	52	J	140	J

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00G0
Site : CLARK
Lab. : LIBRTY
viewer :
Site :

Sample Number :	E00G9		E00H0		E00H1		E00H2		E00H3	
Sampling Location :	X143		X110		X105		X130		X133	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/6/01		11/6/01		11/6/01		11/6/01		11/6/01	
Time Sampled :	12:00		12:20		12:45		13:45		14:05	
%Moisture :	25		23		21		34		24	
pH :	6.9		7.7		7.5		7.4		7.6	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	440	U	430	U	420	U	500	U	430	U
Phenol	440	U	430	U	41	J	500	U	430	U
bis-(2-Chloroethyl) ether	440	U	430	U	420	U	500	U	430	U
2-Chlorophenol	440	U	430	U	420	U	500	U	430	U
2-Methylphenol	440	U	430	U	420	U	500	U	430	U
2,2'-oxybis(1-Chloropropane)	440	U	430	U	420	U	500	U	430	U
Acetophenone	*440*	*U*	*430*	*U*	*420*	*U*	*500*	*U*	*430*	*U*
4-Methylphenol	440	U	430	U	420	U	500	U	430	U
N-Nitroso-di-n-propylamine	440	U	430	U	420	U	500	U	430	U
Hexachloroethane	440	U	430	U	420	U	500	U	430	U
Nitrobenzene	440	U	430	U	420	U	500	U	430	U
Isophorone	440	U	430	U	420	U	500	U	430	U
2-Nitrophenol	440	U	430	U	420	U	500	U	430	U
2,4-Dimethylphenol	440	U	430	U	420	U	500	U	430	U
(2-Chloroethoxy)methane	440	U	430	U	420	U	500	U	430	U
2,4-Dichlorophenol	440	U	430	U	420	U	500	U	430	U
Naphthalene	440	U	430	U	18	J	20	J	30	J
4-Chloroaniline	440	U	430	U	420	U	500	U	430	U
Hexachlorobutadiene	440	U	430	U	420	U	500	U	430	U
Caprolactam	440	U	430	U	420	U	500	U	430	U
4-Chloro-3-methylphenol	440	U	430	U	420	U	500	U	430	U
2-Methylnaphthalene	440	U	430	U	35	J	29	J	29	J
Hexachlorocyclopentadiene	440	R	430	R	420	R	500	R	430	R
2,4,6-Trichlorophenol	440	U	430	U	420	U	500	U	430	U
2,4,5-Trichlorophenol	1100	U	1100	U	1100	U	1300	U	1100	U
1,1'-Biphenyl	440	U	430	U	420	U	500	U	430	U
2-Chloronaphthalene	440	U	430	U	420	U	500	U	430	U
2-Nitroaniline	1100	U	1100	U	1100	U	1300	U	1100	U
Dimethylphthalate	440	U	430	U	420	U	500	U	430	U
2,6-Dinitrotoluene	440	U	430	U	420	U	500	U	430	U
Acenaphthylene	15	J	29	J	14	J	24	J	33	J
3-Nitroaniline	1100	U	1100	U	1100	U	1300	U	1100	U
Acenaphthene	440	U	430	U	19	J	19	J	72	J

DISCLAIMER This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00G0
Site : CLARK
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00G9		E00H0		E00H1		E00H2		E00H3	
Sampling Location :	X143		X110		X105		X130		X133	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/6/01		11/6/01		11/6/01		11/6/01		11/6/01	
Time Sampled :	12:00		12:20		12:45		13:45		14:05	
%Moisture :	25		23		21		34		24	
pH :	6.9		7.7		7.5		7.4		7.6	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1100	U	1100	U	1100	U	1300	U	1100	U
4-Nitrophenol	1100	U	1100	U	1100	U	1300	U	1100	U
Dibenzofuran	440	U	430	U	18	J	15	J	81	J
2,4-Dinitrotoluene	440	U	430	U	420	U	500	U	430	U
Diethylphthalate	440	U	430	U	420	U	500	U	430	U
Fluorene	440	U	430	U	21	J	17	J	130	J
4-Chlorophenyl-phenyl ether	440	U	430	U	420	U	500	U	430	U
4-Nitroaniline	1100	U	1100	U	1100	U	1300	U	1100	U
4,6-Dinitro-2-methylphenol	1100	UJ	1100	UJ	1100	UJ	1300	UJ	1100	U
N-Nitrosodiphenylamine	440	U	430	U	420	U	500	U	430	U
4-Bromophenyl-phenylether	440	U	430	U	420	U	500	U	430	U
Hexachlorobenzene	440	U	430	U	420	U	500	U	430	U
Atrazine	440	UJ	430	UJ	420	UJ	500	UJ	430	U
Pentachlorophenol	1100	U	1100	U	1100	U	1300	U	1100	U
Phenanthrene	150	J	110	J	260	J	190	J	1300	
Anthracene	28	J	36	J	62	J	43	J	250	J
Carbazole	18	J	12	J	16	J	25	J	130	J
Di-n-butylphthalate	18	J	430	U	15	J	60	J	430	U
Fluoranthene	330	J	320	J	560		370	J	1500	
Pyrene	260	J	340	J	510		340	J	1300	
Butylbenzylphthalate	21	J	65	J	29	J	89	J	12	J
3,3'-Dichlorobenzidine	440	U	430	U	420	U	500	U	430	U
Benzo(a)anthracene	140	J	180	J	260	J	170	J	620	
Chrysene	180	J	230	J	300	J	240	J	670	
bis(2-Ethylhexyl)phthalate	440	U	430	U	420	U	710	U	430	U
Di-n-octylphthalate	440	U	430	U	420	U	56	J	12	J
Benzo(b)fluoranthene	200	J	220	J	270	J	250	J	560	
Benzo(k)fluoranthene	140	J	170	J	250	J	180	J	650	
Benzo(a)pyrene	170	J	240	J	270	J	200	J	580	
Indeno(1,2,3-cd)pyrene	120	J	140	J	160	J	140	J	270	J
Dibenzo(a,h)anthracene	61	J	75	J	68	J	57	J	100	J
Benzo(g,h,i)perylene	99	J	150	J	170	J	170	J	200	J

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00G0
Site : CLARK
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00H4		E00H5		E00H6		E00H7		E00H8	
Sampling Location :	X132		X112		X102		X139		X136	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/6/01		11/6/01		11/6/01		11/6/01		11/6/01	
Time Sampled :	14:15		14:35		15:00		15:20		15:50	
%Moisture :	26		28		18		19		27	
pH :	7.5		7.3		7.0		7.2		7.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	450	U	460	U	400	U	410	U	450	U
Phenol	450	U	460	U	400	U	410	U	450	U
bis-(2-Chloroethyl) ether	450	U	460	U	400	U	410	U	450	U
2-Chlorophenol	450	U	460	U	400	U	410	U	450	U
2-Methylphenol	450	U	460	U	400	U	410	U	450	U
2,2'-oxybis(1-Chloropropane)	450	U	460	U	400	U	410	U	450	U
Acetophenone	450	U	460	U	400	U	410	U	450	U
4-Methylphenol	18	J	460	U	400	U	190	J	450	U
N-Nitroso-di-n-propylamine	450	U	460	U	400	U	410	U	450	U
Hexachloroethane	450	U	460	U	400	U	410	U	450	U
Nitrobenzene	450	U	460	U	400	U	410	U	450	U
Isophorone	450	U	460	U	400	U	410	U	450	U
2-Nitrophenol	450	U	460	U	400	U	410	U	450	U
2,4-Dimethylphenol	450	U	460	U	400	U	410	U	450	U
bis(2-Chloroethoxy)methane	450	U	460	U	400	U	410	U	450	U
2,4-Dichlorophenol	450	U	460	U	400	U	410	U	450	U
Naphthalene	97	J	460	U	70	J	410	U	450	U
4-Chloroaniline	450	U	460	U	400	U	410	U	450	U
Hexachlorobutadiene	450	U	460	U	400	U	410	U	450	U
Caprolactam	450	U	460	U	400	U	410	U	450	U
4-Chloro-3-methylphenol	450	U	460	U	400	U	410	U	450	U
2-Methylnaphthalene	61	J	460	U	46	J	410	U	450	U
Hexachlorocyclopentadiene	450	R	460	R	400	R	410	R	450	R
2,4,6-Trichlorophenol	450	U	460	U	400	U	410	U	450	U
2,4,5-Trichlorophenol	1100	U	1200	U	1000	U	1000	U	1100	U
1,1'-Biphenyl	20	J	460	U	10	J	410	U	450	U
2-Chloronaphthalene	450	U	460	U	400	U	410	U	450	U
2-Nitroaniline	1100	U	1200	U	1000	U	1000	U	1100	U
Dimethylphthalate	450	U	460	U	400	U	410	U	450	U
2,6-Dinitrotoluene	450	U	460	U	400	U	410	U	450	U
Acenaphthylene	100	J	460	U	39	J	30	J	14	J
3-Nitroaniline	1100	U	1200	U	1000	U	1000	U	1100	U
Acenaphthene	46	J	460	U	28	J	27	J	450	U

DISCLAIMER: This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data.

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00G0
Site : CLARK
Lab. : LIBRTY
viewer :
ate :

Sample Number :	E00H4		E00H5		E00H6		E00H7		E00H8	
Sampling Location :	X132		X112		X102		X139		X136	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/6/01		11/6/01		11/6/01		11/6/01		11/6/01	
Time Sampled :	14:15		14:35		15:00		15:20		15:50	
%Moisture :	26		28		18		19		27	
pH :	7.5		7.3		7.0		7.2		7.4	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1100	U	1200	U	1000	UJ	1000	UJ	1100	UJ
4-Nitrophenol	1100	U	1200	U	1000	U	1000	U	1100	U
Dibenzofuran	62	J	460	U	34	J	14	J	450	U
2,4-Dinitrotoluene	450	U	460	U	400	U	410	U	450	U
Diethylphthalate	450	U	460	U	400	U	410	U	450	U
Fluorene	78	J	460	U	35	J	40	J	450	U
4-Chlorophenyl-phenyl ether	450	U	460	U	400	U	410	U	450	U
4-Nitroaniline	1100	U	1200	U	1000	U	1000	U	1100	U
4,6-Dinitro-2-methylphenol	1100	U	1200	U	1000	UJ	1000	UJ	1100	UJ
N-Nitrosodiphenylamine	450	U	460	U	400	U	410	U	450	U
4-Bromophenyl-phenylether	450	U	460	U	400	U	410	U	450	U
Hexachlorobenzene	450	U	460	U	400	U	410	U	450	U
Atrazine	450	U	460	U	400	U	410	U	450	U
Pentachlorophenol	1100	U	1200	U	1000	U	1000	U	1100	U
enanthrene	750		71	J	400		540		100	J
nthracene	210	J	460	U	92	J	98	J	23	J
Carbazole	79	J	460	U	42	J	60	J	450	U
Di-n-butylphthalate	450	U	460	U	400	U	410	U	450	U
Fluoranthene	1300		170	J	560		1100		240	J
Pyrene	1200		150	J	450		820		270	J
Butylbenzylphthalate	33	J	18	J	17	J	11	J	19	J
3,3'-Dichlorobenzidine	450	U	460	U	400	U	410	U	450	U
Benzo(a)anthracene	630		65	J	250	J	380	J	130	J
Chrysene	790		100	J	320	J	530		170	J
bis(2-Ethylhexyl)phthalate	450	U	460	U	400	U	410	U	450	U
Di-n-octylphthalate	450	U	460	U	400	U	410	U	450	U
Benzo(b)fluoranthene	740		100	J	300	J	470		170	J
Benzo(k)fluoranthene	770		110	J	230	J	440		130	J
Benzo(a)pyrene	720		86	J	270	J	460		140	J
Indeno(1,2,3-cd)pyrene	410	J	52	J	170	J	300	J	93	J
Dibenzo(a,h)anthracene	140	J	22	J	62	J	110	J	36	J
Benzo(g,h,i)perylene	420	J	79	J	160	J	420		98	J

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00G0
Site : CLARK
Lab. : LIBRTY
Reviewer :
Date :

Sample Number :	E00H9		E00J0		SBLKFE					
Sampling Location :	X122		X144							
Matrix :	Soil		Soil		Soil					
Units :	ug/Kg		ug/Kg		ug/Kg					
Date Sampled :	11/6/01		11/6/01							
Time Sampled :	16:35		17:00							
%Moisture :	31		31		N/A					
pH :	7.7		7.6							
Dilution Factor :	1.0		1.0		1.0					
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	180	J	480	U	5	J				
Phenol	480	U	480	U	330	U				
bis-(2-Chloroethyl) ether	480	U	480	U	330	U				
2-Chlorophenol	480	U	480	U	330	U				
2-Methylphenol	480	U	480	U	330	U				
2,2'-oxybis(1-Chloropropane)	480	U	480	U	330	U				
Acetophenone	480	U	480	U	11	J				
4-Methylphenol	480	U	480	U	330	U				
N-Nitroso-di-n-propylamine	480	U	480	U	330	U				
Hexachloroethane	480	U	480	U	330	U				
Nitrobenzene	480	U	480	U	330	U				
Isophorone	480	U	480	U	330	U				
2-Nitrophenol	480	U	480	U	330	U				
2,4-Dimethylphenol	480	U	480	U	330	U				
bis(2-Chloroethoxy)methane	480	U	480	U	330	U				
2,4-Dichlorophenol	480	U	480	U	330	U				
Naphthalene	480	U	480	U	330	U				
4-Chloroaniline	480	U	480	U	330	U				
Hexachlorobutadiene	480	U	480	U	330	U				
Caprolactam	480	U	480	U	330	U				
4-Chloro-3-methylphenol	480	U	480	U	330	U				
2-Methylnaphthalene	23	J	480	U	330	U				
Hexachlorocyclopentadiene	480	R	480	R	330	R				
2,4,6-Trichlorophenol	480	U	480	U	330	U				
2,4,5-Trichlorophenol	1200	U	1200	U	830	U				
1,1'-Biphenyl	480	U	480	U	330	U				
2-Chloronaphthalene	480	U	480	U	330	U				
2-Nitroaniline	1200	U	1200	U	830	U				
Dimethylphthalate	480	U	480	U	330	U				
2,6-Dinitrotoluene	480	U	480	U	330	U				
Acenaphthylene	91	J	12	J	330	U				
3-Nitroaniline	1200	U	1200	U	830	U				
Acenaphthene	480	U	480	U	330	U				

DISCLAIMER. This package has been electronically assessed as an added service to our customer. It has not been either validated or approved by Region 5 and any subsequent use by the data user is strictly at the risk of the data user. Region 5 assumes no responsibility for use of unvalidated data

Analytical Results (Qualified Data)

Case #: 29954 SDG : E00G0
Site : CLARK
Lab. : LIBRTY
eviewer :
ate :

Sample Number :	E00H9		E00J0		SBLKFE					
Sampling Location :	X122		X144							
Matrix :	Soil		Soil		Soil					
Units :	ug/Kg		ug/Kg		ug/Kg					
Date Sampled :	11/6/01		11/6/01							
Time Sampled :	16:35		17:00							
%Moisture :	31		31		N/A					
pH :	7.7		7.6							
Dilution Factor :	1.0		1.0		1.0					
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1200	UJ	1200	UJ	830	U				
4-Nitrophenol	1200	U	1200	U	830	U				
Dibenzofuran	480	U	480	U	330	U				
2,4-Dinitrotoluene	480	U	480	U	330	U				
Diethylphthalate	480	U	480	U	330	U				
Fluorene	13	J	480	U	330	U				
4-Chlorophenyl-phenyl ether	480	U	480	U	330	U				
4-Nitroaniline	1200	U	270	J	830	U				
4,6-Dinitro-2-methylphenol	1200	UJ	1200	UJ	830	U				
N-Nitrosodiphenylamine	480	U	480	U	330	U				
4-Bromophenyl-phenylether	480	U	480	U	330	U				
Hexachlorobenzene	480	U	480	U	330	U				
Atrazine	480	U	480	U	330	U				
Pentachlorophenol	1200	U	1200	U	830	U				
Phenanthrene	160	J	63	J	330	U				
Anthracene	79	J	22	J	330	U				
Carbazole	35	J	13	J	330	U				
Di-n-butylphthalate	480	U	39	J	330	U				
Fluoranthene	580		150	J	330	U				
Pyrene	460	J	130	J	330	U				
Butylbenzylphthalate	28	J	20	J	330	U				
3,3'-Dichlorobenzidine	480	U	480	U	330	U				
Benzo(a)anthracene	310	J	70	J	330	U				
Chrysene	380	J	100	J	330	U				
bis(2-Ethylhexyl)phthalate	480	U	480	U	79	J				
Di-n-octylphthalate	480	U	480	U	330	U				
Benzo(b)fluoranthene	400	J	88	J	330	U				
Benzo(k)fluoranthene	290	J	95	J	330	U				
Benzo(a)pyrene	290	J	83	J	330	U				
Indeno(1,2,3-cd)pyrene	180	J	52	J	330	U				
Dibenzo(a,h)anthracene	74	J	20	J	330	U				
Benzo(g,h,i)perylene	140	J	61	J	330	U				

NOV 3 0 2001

CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE

CASE # 29954
SDG # E00G0
CONTRACT # 68W99071

SAMPLE IDENTIFICATIONS: E00G0, E00G2, E00G3, E00G4, E00G5, E00G6, E00G7, E00G8, E00G9, E00H0, E00H1, E00H2, E00H3, E00H4, E00H5, E00H6, E00H7, E00H8, E00H9, E00J0

The 20 soil samples listed above were received intact, properly refrigerated at 4°C, with proper documentation, in sealed shipping containers, on November 8, 2001. The samples were scheduled for the requested analyses of the semivolatile fractions. The samples were prepared and analyzed following the current EPA Contract Laboratory Program (CLP) Statement of Work (SOW), Document OLM04.2. The pH values of these soil samples ranged from 6.7 to 7.5, and the percent moistures ranged from 16 to 34. All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices for Case # 29954, SDG E00G0 are included in the sample data sections.

Extraction and analysis holding time requirements were met for all of these samples. There were several Target Compound List (TCL) analytes identified above the Contract Required Quantitation Limit (CRQL) in 12 of these samples. Tentatively Identified Compounds (TICs) were found in all of these samples. The TICs found in these samples could be characterized as alcohols, aldehydes, alkanes, alkenes, amides, carboxylic acids, heptachlor epoxide, ketones, polyaromatic hydrocarbons (PAHs), substituted benzenes, substituted naphthalenes, and unknowns.

In E00H1, E00H3, E00H4, and E00H6, a TIC was identified as benzo(k)fluoranthene, a TCL analyte. These TICs were not at the correct retention time for the TCL analyte, which was reported as a hit or "J" value for the sample. The TICs have been left with that assessment name because the contract specifically states that TICs above 85% purity should be assessed as the CAS assessment (exempting alkanes), [page D-46/SVOA; section 11.1.2.5.6]. . In E00J0, a TIC was identified as benzo(a)pyrene, a TCL analyte. This TIC was not at the correct retention time for the TCL analyte, which was reported as a hit for the sample. The TIC has been left with that assessment name because the contract specifically states that TICs above 85% purity should be assessed as the CAS assessment (exempting alkanes), [page D-46/SVOA; section 11.1.2.5.6].

Manual quantitations were performed on one or more of the process files associated with this SDG, including samples E00G0, E00G2, E00G3, E00G4, E00G5, E00G6, E00G7, E00G8, E00G9, E00H0, E00H1, E00H2, E00H3, E00H4, E00H5, E00H6, E00H7, E00H8, E00H9, and E00J0. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

All decafluorotriphenylphosphine (DFTPP) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG. All of the surrogates met recovery criteria in the analyses of these samples. All of the internal standards met response and retention time criteria in the analyses of these samples. The associated method blank met all quality control criteria. The method blank contained levels of benzaldehyde, acetophenone, and bis(2-ethylhexyl)phthalate, which were within allowable limits. A TIC was found in this method blank. E00G6 was used as the original to prepare the duplicate matrix spikes as requested. The associated duplicate matrix spikes met all advisory accuracy and precision criteria.

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 by the Laboratory Manager or his/her designee, as verified by the following signature.

Paul T. Frankson
Manager, GC/MS SVOA
November 29, 2001

ALKANE NARRATIVE REPORT
Report date : 11/29/2001
SDG: E00G0

Client Sample ID: E00G0 Lab Sample ID: E00G0-1 File ID: E00G0-1A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	16.50	149.7	J
Straight-Chain Alkane	17.82	177.3	J
Straight-Chain Alkane	19.68	511.1	J
Straight-Chain Alkane	21.27	649.6	J
Straight-Chain Alkane	23.16	366.1	J

Client Sample ID: E00G2 Lab Sample ID: E00G0-2 File ID: E00G0-2A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	19.67	391.5	J
Straight-Chain Alkane	21.28	735.9	J
Straight-Chain Alkane	23.15	458.1	J
Straight-Chain Alkane	25.67	86.62	J

Client Sample ID: E00G3 Lab Sample ID: E00G0-3 File ID: E00G0-3A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	15.47	266.5	J
Straight-Chain Alkane	16.50	263.9	J
Straight-Chain Alkane	17.83	173.7	J
Branched Alkane	19.69	1043	J
Straight-Chain Alkane	21.28	1150	J
Straight-Chain Alkane	23.17	904.5	J

Client Sample ID: E00G4 Lab Sample ID: E00G0-4 File ID: E00G0-4A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	16.50	124.0	J
Straight-Chain Alkane	17.83	95.82	J
Straight-Chain Alkane	18.68	124.0	J
Straight-Chain Alkane	19.67	480.6	J
Branched Alkane	20.48	130.4	J
Straight-Chain Alkane	21.28	1132	J
Straight-Chain Alkane	23.17	707.0	J
Straight-Chain Alkane	25.69	171.0	J

Client Sample ID: E00G5 Lab Sample ID: E00G0-5 File ID: E00G0-5A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	16.50	121.7	J
Straight-Chain Alkane	17.84	140.3	J
Straight-Chain Alkane	18.68	122.5	J
Straight-Chain Alkane	19.68	705.2	J
Straight-Chain Alkane	21.28	492.0	J
Straight-Chain Alkane	23.16	318.4	J
Unknown Alkane	25.07	137.7	J

Client Sample ID: E00G6 Lab Sample ID: E00G0-6 File ID: E00G0-6A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	18.68	100.6	J
Straight-Chain Alkane	19.67	323.9	J
Straight-Chain Alkane	20.49	101.3	J
Straight-Chain Alkane	21.28	868.0	J
Straight-Chain Alkane	23.17	554.5	J
Straight-Chain Alkane	25.69	95.24	J

Client Sample ID: E00G7 Lab Sample ID: E00G0-7 File ID: E00G0-7A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	16.50	96.20	J
Straight-Chain Alkane	18.68	118.5	J
Straight-Chain Alkane	19.68	364.8	J
Straight-Chain Alkane	21.27	730.7	J
Straight-Chain Alkane	23.16	382.1	J

Client Sample ID: E00H3 Lab Sample ID: E00G0-13 File ID: E00G0-13A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	17.84	103.3	J
Straight-Chain Alkane	19.68	536.2	J
Straight-Chain Alkane	21.28	1119	J
Straight-Chain Alkane	23.17	531.5	J

Client Sample ID: E00H4 Lab Sample ID: E00G0-14 File ID: E00G0-14A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	15.47	495.8	J
Branched Alkane	15.98	294.9	J
Straight-Chain Alkane	16.52	496.4	J
Straight-Chain Alkane	17.86	209.6	J
Straight-Chain Alkane	19.71	611.3	J
Straight-Chain Alkane	21.30	786.7	J
Straight-Chain Alkane	23.21	587.4	J

Client Sample ID: E00H5 Lab Sample ID: E00G0-15 File ID: E00G0-15A66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	15.47	250.9	J
Straight-Chain Alkane	15.96	144.0	J
Straight-Chain Alkane	16.50	305.6	J
Straight-Chain Alkane	17.84	257.2	J
Straight-Chain Alkane	18.68	330.0	J
Straight-Chain Alkane	19.70	1534	J
Straight-Chain Alkane	20.49	295.0	J
Branched Alkane	21.28	3133	J
Straight-Chain Alkane	22.16	292.3	J
Straight-Chain Alkane	23.18	1689	J

Client Sample ID: E00H6 Lab Sample ID: E00G0-16 File ID: E00G0-16B66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	15.47	85.93	J

Unknown Alkane	16.50	87.46	J
Straight-Chain Alkane	17.84	100.8	J
Straight-Chain Alkane	18.68	136.4	J
Straight-Chain Alkane	19.68	637.5	J
Straight-Chain Alkane	20.49	307.1	J
Straight-Chain Alkane	21.28	1162	J
Straight-Chain Alkane	23.18	612.6	J

Client Sample ID: E00H7 Lab Sample ID: E00G0-17 File ID: E00G0-17B66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	17.84	214.2	J
Straight-Chain Alkane	19.70	1097	J
Straight-Chain Alkane	20.49	337.4	J
Straight-Chain Alkane	21.28	1634	J
Straight-Chain Alkane	23.19	1076	J

Client Sample ID: E00H8 Lab Sample ID: E00G0-18 File ID: E00G0-18B66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	14.49	126.1	J
Straight-Chain Alkane	15.47	125.6	J
Straight-Chain Alkane	16.52	209.2	J
Straight-Chain Alkane	17.12	95.59	J
Straight-Chain Alkane	17.83	287.4	J
Straight-Chain Alkane	18.68	442.7	J
Straight-Chain Alkane	19.69	1543	J
Straight-Chain Alkane	20.48	205.8	J
Straight-Chain Alkane	21.28	2617	J
Straight-Chain Alkane	22.16	263.0	J
Straight-Chain Alkane	23.17	1809	J
Branched Alkane	25.69	313.2	J

Client Sample ID: E00H9 Lab Sample ID: E00G0-19 File ID: E00G0-19B66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	15.47	262.0	J
Unknown Alkane	15.98	163.2	J
Straight-Chain Alkane	16.52	347.9	J
Straight-Chain Alkane	17.12	163.8	J
Straight-Chain Alkane	17.85	274.9	J
Straight-Chain Alkane	18.69	249.4	J
Straight-Chain Alkane	19.69	1674	J
Unknown Alkane	20.48	344.1	J
Straight-Chain Alkane	21.30	1091	J
Straight-Chain Alkane	23.17	460.3	J

Client Sample ID: E00J0 Lab Sample ID: E00G0-20 File ID: E00G0-20B66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	15.47	223.9	J
Straight-Chain Alkane	16.52	455.9	J
Straight-Chain Alkane	17.12	175.4	J
Branched Alkane	17.85	668.6	J
Straight-Chain Alkane	18.69	204.8	J
Straight-Chain Alkane	19.71	1879	J
Branched Alkane	20.50	391.6	J
Straight-Chain Alkane	21.29	1355	J

Straight-Chain Alkane	22.17	189.1	J
Straight-Chain Alkane	23.19	963.9	J

Client Sample ID: E00G8 Lab Sample ID: E00G0-8 File ID: E00G0-8JA66

Compound	RT	Est. Conc.	Q
Branched Alkane	12.25	88.85	J
Straight-Chain Alkane	15.47	143.6	J
Straight-Chain Alkane	16.50	124.9	J
Unknown Alkane	17.11	142.6	J
Straight-Chain Alkane	17.84	252.6	J
Straight-Chain Alkane	18.68	199.5	J
Straight-Chain Alkane	19.68	886.2	J
Straight-Chain Alkane	20.49	252.4	J
Branched Alkane	21.28	1718	J
Straight-Chain Alkane	23.16	969.4	J

Client Sample ID: E00G9 Lab Sample ID: E00G0-9 File ID: E00G0-9JA66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	16.50	186.4	J
Straight-Chain Alkane	17.83	266.0	J
Straight-Chain Alkane	18.68	99.39	J
Straight-Chain Alkane	19.67	619.4	J
Straight-Chain Alkane	20.49	114.8	J
Branched Alkane	21.28	1451	J
Straight-Chain Alkane	23.17	527.8	J
Straight-Chain Alkane	25.08	196.7	J

Client Sample ID: E00H0 Lab Sample ID: E00G0-10 File ID: E00G0-10JA66

Compound	RT	Est. Conc.	Q
Branched Alkane	12.24	98.86	J
Straight-Chain Alkane	14.47	91.13	J
Straight-Chain Alkane	15.47	161.2	J
Straight-Chain Alkane	16.50	198.6	J
Straight-Chain Alkane	17.83	140.5	J
Straight-Chain Alkane	18.68	103.6	J
Straight-Chain Alkane	19.67	788.2	J
Unknown Alkane	20.49	164.0	J
Straight-Chain Alkane	21.28	1511	J
Straight-Chain Alkane	22.14	130.8	J
Straight-Chain Alkane	23.17	833.0	J

Client Sample ID: E00H1 Lab Sample ID: E00G0-11 File ID: E00G0-11JA66

Compound	RT	Est. Conc.	Q
Branched Alkane	12.25	254.4	J
Straight-Chain Alkane	13.95	206.3	J
Straight-Chain Alkane	14.47	254.5	J
Straight-Chain Alkane	14.98	226.1	J
Straight-Chain Alkane	15.47	529.4	J
Straight-Chain Alkane	15.96	292.1	J
Branched Alkane	16.50	501.5	J
Straight-Chain Alkane	17.13	178.8	J
Straight-Chain Alkane	17.84	349.7	J
Straight-Chain Alkane	18.68	214.4	J
Branched Alkane	19.68	793.1	J

Straight-Chain Alkane	20.49	280.4	J
Straight-Chain Alkane	21.28	1499	J
Straight-Chain Alkane	22.16	253.4	J
Straight-Chain Alkane	23.17	955.3	J

Client Sample ID: E00H2 Lab Sample ID: E00G0-12 File ID: E00G0-12JA66

Compound	RT	Est. Conc.	Q
Straight-Chain Alkane	14.47	252.3	J
Unknown Alkane	15.17	355.6	J
Straight-Chain Alkane	15.47	820.5	J
Unknown Alkane	16.08	380.2	J
Straight-Chain Alkane	16.52	737.2	J
Straight-Chain Alkane	17.85	695.3	J
Straight-Chain Alkane	18.70	755.6	J
Straight-Chain Alkane	19.73	8376	J
Straight-Chain Alkane	20.50	736.0	J
Branched Alkane	21.30	2880	J
Straight-Chain Alkane	23.17	992.5	J

GC and GC/MS Column and Trap Specifications Table

COLUMNS

Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
GC Laboratory				
Restek	RTX-1701	0.53	0.5	30
J & W	DB-608	0.53	0.83	30
Restek	CLPesticides	0.53	0.5	30
Restek	CLPesticides II	0.53	0.42	30
GC Volatiles Laboratory				
Restek	RTX-1	0.53	0.5	105
Restek	RTX-502.2	0.53	0.5	105
GC/MS Volatiles Laboratory				
J & W	DB-624	0.53	3.0	30/75
J & W	DB-624	0.25	1.4	60
J & W	DB-624	0.32	1.8	60
Restek	RTX-624	0.32	1.8	60
Supelco	SPB-624	0.32	1.4	60
Supelco	Equity™-624	0.53	3.0	75
GC/MS Semivolatiles Laboratory				
J & W	DB-5.625	0.32	1.0	30
J & W	DB5-MS	0.25	0.25	30
Hewlett Packard	HP5-MS	0.25	0.25	30
Optima	5-MS	0.25	0.25	30
Restek	RTX-5MS	0.25	0.25	30

TRAPS

GC and GC/MS Volatiles Laboratory	
Tekmar 3	* 8 cm of 2,6-diphenylene oxide polymer (Tenax) * 8 cm of silica gel * 7 cm of coconut charcoal * 0.5 cm of silanized glass wool at each end
Tekmar 5	* 1 cm of methyl silicone packing (OV-1 coating) * 8 cm of 2,6-diphenylene oxide polymer (Tenax) * 8 cm of silica gel * 7 cm of coconut charcoal * 0.5 cm of silanized glass wool at each end
Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons) * 6 cm of Carboxen 1000 (Carbon molecular sieves) * 1 cm of Carboxen 1001 (Carbon molecular sieves)

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 29954
DAS No.
SDG No: E00G0

L

Date Shipped: 11/7/01	Date Received/Received by: 11/8/01 Alice Evans	Sampler (Signature):	
Carrier Name: FedEx	Lab Contract No: 0540-9071 Unit Price: 514.46		
Airbill: 832620621147		Relinquished By:	Date / Time: 11-7-01 6:15p	Received By:
Shipped to: Liberty Analytical 501 Madison Avenue Cary NC 27513 (919) 379-4080	Transfer To:	Relinquished By:	Date / Time: 11-8-01 1005	Received By:
	Date Received/Received By:	Relinquished By:	Date / Time:	Received By:
	Lab Contract No: Price:			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00G0	Surface Soil (0"-12")/ Paul Mason	L/G	BNA (21)	5-59929 (Ice Only) (1)	X119	11/6/01 9:20	ME00G0	(GOOD)
E00G2	Surface Soil (0"-12")/ Paul Mason	L/G	BNA (21)	5-59931 (Ice Only) (1)	X128	11/6/01 9:45	ME00G2	
E00G3	Surface Soil (0"-12")/ Paul Mason	L/G	BNA (21)	5-59933 (Ice Only) (1)	X126	11/6/01 10:00	ME00G3	
E00G4	Surface Soil (0"-12")/ Paul Mason	L/G	BNA (21)	5-59935 (Ice Only) (1)	X125	11/6/01 10:15	ME00G4	
E00G5	Surface Soil (0"-12")/ Paul Mason	L/G	BNA (21)	5-59937 (Ice Only) (1)	X124	11/6/01 10:30	ME00G5	
E00G6	Surface Soil (0"-12")/ Paul Mason	L/G	BNA (21)	5-59939 (Ice Only) (1)	X113	11/6/01 11:30	ME00G6	
E00G7	Surface Soil (0"-12")/ Paul Mason	L/G	BNA (21)	5-59941 (Ice Only) (1)	X117	11/6/01 11:40	ME00G7	
E00G8	Surface Soil (0"-12")/ Paul Mason	L/G	BNA (21)	5-59943 (Ice Only) (1)	X118	11/6/01 11:40	ME00G8	
E00G9	Surface Soil (0"-12")/ Paul Mason	L/G	BNA (21)	5-59945 (Ice Only) (1)	X143	11/6/01 12:00	ME00G9	
E00H0	Surface Soil (0"-12")/ Paul Mason	L/G	BNA (21)	5-59947 (Ice Only) (1)	X110	11/6/01 12:20	ME00H0	

ORIGINAL

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E00G6, E00J2, E00J3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: LPC	Chain of Custody Seal Number: 81135 - 81137, 81139 - 81141
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-110701-0001

USEPA Contract Laboratory Program
Organic Traffic Report

Case No: 29954
DAS No:
SDG No: E00G0

L

Date Shipped: 11/7/01 Carrier Name: FedEx Airbill: 832620621147 Shipped to: Liberty Analytical 501 Madison Avenue Cary NC 27513 (919) 379-4080	Date Received/Received by: 11/8/01 Alice Evans Lab Contract No: 68W4407 Unit Price: $ 514.40 Transfer To: Date Received/Received By: Lab Contract No: Price:	Sampler (Signature): P. Mason	
		Relinquished By: P. Mason	Date / Time: 11-7-01 6:15P
		Relinquished By:	Date / Time: 11-8-01 1005
		Relinquished By:	Date / Time:
		Received By:	
		Received By:	
		Received By:	

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E00H1	Surface Soil (0"-12")/ Paul Mason	L/G	BNA (21)	5-59949 (Ice Only) (1)	X105	11/6/01 12:45	ME00H1	Good
E00H2	Surface Soil (0"-12")/ Paul Mason	L/G	BNA (21)	5-59951 (Ice Only) (1)	X130	11/6/01 13:45	ME00H2	
E00H3	Surface Soil (0"-12")/ Paul Mason	L/G	BNA (21)	5-59953 (Ice Only) (1)	X133	11/6/01 14:05	ME00H3	
E00H4	Surface Soil (0"-12")/ Paul Mason	L/G	BNA (21)	5-59955 (Ice Only) (1)	X132	11/6/01 14:15	ME00H4	
E00H5	Surface Soil (0"-12")/ Paul Mason	L/G	BNA (21)	5-59957 (Ice Only) (1)	X112	11/6/01 14:35	ME00H5	
E00H6	Surface Soil (0"-12")/ Paul Mason	L/G	BNA (21)	5-59959 (Ice Only) (1)	X102	11/6/01 15:00	ME00H6	
E00H7	Surface Soil (0"-12")/ Paul Mason	L/G	BNA (21)	5-59961 (Ice Only) (1)	X139	11/6/01 15:20	ME00H7	
E00H8	Surface Soil (0"-12")/ Paul Mason	L/G	BNA (21)	5-59963 (Ice Only) (1)	X136	11/6/01 15:50	ME00H8	
E00H9	Surface Soil (0"-12")/ Paul Mason	L/G	BNA (21)	5-59965 (Ice Only) (1)	X122	11/6/01 16:35	ME00H9	
E00J0	Surface Soil (0"-12")/ Paul Mason	L/G	BNA (21)	5-59967 (Ice Only) (1)	X144	11/6/01 17:00	ME00J0	SDG-FINAL SHIPMENT

ORIGINAL

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E00G6, E00J2, E00J3	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 1°C	Chain of Custody Seal Number: 81135-81137, 81139-81141
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

BNA = CLP TCL Semivolatiles, BNA/PEST = CLP TCL Semivolatiles and Pesticides/PC, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles

PR provides r[illegible]liminary results. Requests for preliminary results will increase analytical costs.
Send Copy t[illegible] Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Resto[illegible] 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-110701-0001

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	SBLKFE	57	58	70	56	52	54	60	53	0
02	E00G0	44	45	49	47	46	50	50	40	0
03	E00G2	43	43	52	48	45	48	51	36	0
04	E00G3	43	44	52	46	44	50	49	38	0
05	E00G4	57	54	63	58	57	56	63	50	0
06	E00G5	44	42	43	48	47	42	51	42	0
07	E00G6	52	51	60	53	52	50	57	45	0
08	E00G6MS	52	51	56	52	53	53	58	48	0
09	E00G6MSD	53	52	56	53	53	54	59	49	0
10	E00G7	37	38	42	39	39	38	42	33	0
11	E00H3	64	64	78	70	69	69	74	59	0
12	E00H4	68	68	84	74	73	75	79	62	0
13	E00H5	63	61	77	65	64	65	71	57	0
14	E00H6	55	58	63	62	59	64	67	50	0
15	E00H7	71	73	76	78	76	82	85	70	0
16	E00H8	60	58	63	62	60	60	66	52	0
17	E00H9	61	62	64	65	61	66	70	53	0
18	E00J0	62	63	66	65	61	69	69	51	0
19	E00G8	66	63	71	72	69	68	79	59	0
20	E00G9	63	61	67	64	62	66	71	54	0
21	E00H0	58	54	58	59	56	56	64	48	0
22	E00H1	77	75	86	82	79	82	91	72	0
23	E00H2	67	64	71	68	66	69	74	56	0
24										
25										
26										
27										
28										
29										
30										

			QC LIMITS	
S1	(NBZ)	= Nitrobenzene-d5	(23-120)	
S2	(FBP)	= 2-Fluorobiphenyl	(30-115)	
S3	(TPH)	= Terphenyl-d14	(18-137)	
S4	(PHL)	= Phenol-d5	(24-113)	
S5	(2FP)	= 2-Fluorophenol	(25-121)	
S6	(TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7	(2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8	(DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix Spike - EPA Sample No.: E00G6 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	3247	0.00	1695	52	26- 90
2-Chlorophenol	3247	0.00	1711	53	25-102
N-Nitroso-di-n-prop.(1)	2165	0.00	1408	65	41-126
4-Chloro-3-methylphenol	3247	0.00	1675	52	26-103
Acenaphthene	2165	0.00	1295	60	31-137
4-Nitrophenol	3247	0.00	1921	59	11-114
2,4-Dinitrotoluene	2165	0.00	1252	58	28- 89
Pentachlorophenol	3247	0.00	1025	32	17-109
Pyrene	2165	125.0	1457	62	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3247	1866	57	9	35	26- 90
2-Chlorophenol	3247	1926	59	11	50	25-102
N-Nitroso-di-n-prop.(1)	2165	1441	67	3	38	41-126
4-Chloro-3-methylphenol	3247	1876	58	11	33	26-103
Acenaphthene	2165	1431	66	10	19	31-137
4-Nitrophenol	3247	2169	67	13	50	11-114
2,4-Dinitrotoluene	2165	1398	65	11	47	28- 89
Pentachlorophenol	3247	1146	35	9	47	17-109
Pyrene	2165	1555	66	6	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 9 outside limits
Spike Recovery: 0 out of 18 outside limits

COMMENTS: _____

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLKFE

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Lab File ID: WG14286-1A66 Lab Sample ID: WG14286-1

Instrument ID: 5972HP66 Date Extracted: 11/17/01

Matrix: (soil/water) SOIL Date Analyzed: 11/27/01

Level:(low/med) LOW Time Analyzed: 1054

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, and MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	E00G0	E00G0-1	E00G0-1A66	11/27/01
02	E00G2	E00G0-2	E00G0-2A66	11/27/01
03	E00G3	E00G0-3	E00G0-3A66	11/27/01
04	E00G4	E00G0-4	E00G0-4A66	11/27/01
05	E00G5	E00G0-5	E00G0-5A66	11/27/01
06	E00G6	E00G0-6	E00G0-6A66	11/27/01
07	E00G6MS	WG14286-2	WG14286-2A66	11/27/01
08	E00G6MSD	WG14286-3	WG14286-3A66	11/27/01
09	E00G7	E00G0-7	E00G0-7A66	11/27/01
10	E00H3	E00G0-13	E00G0-13A66	11/27/01
11	E00H4	E00G0-14	E00G0-14A66	11/27/01
12	E00H5	E00G0-15	E00G0-15A66	11/27/01
13	E00H6	E00G0-16	E00G0-16B66	11/27/01
14	E00H7	E00G0-17	E00G0-17B66	11/28/01
15	E00H8	E00G0-18	E00G0-18B66	11/28/01
16	E00H9	E00G0-19	E00G0-19B66	11/28/01
17	E00J0	E00G0-20	E00G0-20B66	11/28/01
18	E00G8	E00G0-8	E00G0-8JA66	11/28/01
19	E00G9	E00G0-9	E00G0-9JA66	11/28/01
20	E00H0	E00G0-10	E00G0-10JA66	11/28/01
21	E00H1	E00G0-11	E00G0-11JA66	11/28/01
22	E00H2	E00G0-12	E00G0-12JA66	11/28/01
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G0

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-1A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 25 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	8	JB
108-95-2	Phenol	440	U
111-44-4	bis(2-Chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440	U
98-86-2	Acetophenone	440	U
106-44-5	4-Methylphenol	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
111-91-1	bis(2-Chloroethoxy)methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
105-60-2	Caprolactam	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	440	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	440	U
606-20-2	2,6-Dinitrotoluene	440	U
208-96-8	Acenaphthylene	440	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	20	J

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G0

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-1A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 25 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

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	12	J
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
86-73-7	Fluorene	21	J
7005-72-3	4-Chlorophenyl-phenylether	440	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
1912-24-9	Atrazine	440	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	350	J
120-12-7	Anthracene	39	J
86-74-8	Carbazole	47	J
84-74-2	Di-n-butylphthalate	440	U
206-44-0	Fluoranthene	690	
129-00-0	Pyrene	520	
85-68-7	Butylbenzylphthalate	440	U
91-94-1	3,3'-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	220	J
218-01-9	Chrysene	330	J
117-81-7	bis(2-Ethylhexyl)phthalate	300	JB
117-84-0	Di-n-octylphthalate	440	U
205-99-2	Benzo(b)fluoranthene	330	J
207-08-9	Benzo(k)fluoranthene	290	J
50-32-8	Benzo(a)pyrene	280	J
193-39-5	Indeno(1,2,3-cd)pyrene	200	J
53-70-3	Dibenzo(a,h)anthracene	64	J
191-24-2	Benzo(g,h,i)perylene	140	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00G0

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G0-1A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 25 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

Number TICs found: 24

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-13-4	2,5-HEXANEDIONE	5.95	390	NJ
2.	UNKNOWN	8.41	120	J
3. 638-66-4	OCTADECANAL	19:14	1500	NJ
4. 7206-19-1	3-OCTADECENE, (E)-	19.76	370	NJ
5. 124-25-4	TETRADECANAL	20.08	110	NJ
. 198-55-0	PERYLENE	20.17	240	NJ
. 56554-90-6	13-OCTADECENAL	20.88	1100	NJ
8.	UNKNOWN	21.71	95	J
9. 56554-90-6	13-OCTADECENAL	22.67	260	NJ
10.	UNKNOWN	23.34	180	J
11.	UNKNOWN	23.51	200	J
12.	UNKNOWN	23.65	260	J
13.	UNKNOWN	24.26	190	J
14.	UNKNOWN	24.75	140	J
15.	UNKNOWN	24.85	170	J
16.	UNKNOWN	24.95	190	J
17. 7390-81-0	OXIRANE, HEXADECYL-	25.05	210	NJ
18.	UNKNOWN	25.15	97	J
19.	UNKNOWN	25.42	92	J
20.	UNKNOWN	25.76	90	J
21. 1058-61-3	STIGMAST-4-EN-3-ONE	26.01	340	NJ
22.	UNKNOWN	26.20	120	J
23.	UNKNOWN	27.16	160	J
24.	UNKNOWN	27.53	130	J
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-2A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	420	U
108-95-2	Phenol	420	U
111-44-4	bis(2-Chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
98-86-2	Acetophenone	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	420	U
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	420	U
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	420	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	75	J

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-2A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Extraction: (Type) SONC

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	26	J
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	81	J
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	860	
120-12-7	Anthracene	220	J
86-74-8	Carbazole	120	J
84-74-2	Di-n-butylphthalate	420	U
206-44-0	Fluoranthene	1100	
129-00-0	Pyrene	910	
85-68-7	Butylbenzylphthalate	12	J
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	400	J
218-01-9	Chrysene	480	
117-81-7	bis(2-Ethylhexyl)phthalate	140	JB
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	360	J
207-08-9	Benzo(k)fluoranthene	290	J
50-32-8	Benzo(a)pyrene	320	J
193-39-5	Indeno(1,2,3-cd)pyrene	170	J
53-70-3	Dibenzo(a,h)anthracene	63	J
191-24-2	Benzo(g,h,i)perylene	160	J

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM04.2

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00G2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-2

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G0-2A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 21 Decanted: (Y/N) N Date Extracted:11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Extraction: (Type) SONC

Number TICs found: 16

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-13-4	2,5-HEXANEDIONE	5.94	160	NJ
2. 203-64-5	4H-CYCLOPENTA[DEF]PHENANTHRE	13.90	130	NJ
3. 238-84-6	11H-BENZO[A]FLUORENE	15.49	97	NJ
4. 638-66-4	OCTADECANAL	19.15	2200	NJ
5. 1454-84-8	1-NONADECANOL	19.78	450	NJ
6. 207-08-9	BENZO[K]FLUORANTHENE	20.16	220	NJ
7. 56554-93-9	15-OCTADECENAL	20.87	430	NJ
8. 638-66-4	OCTADECANAL	22.66	310	NJ
9.	UNKNOWN	23.34	220	J
10.	UNKNOWN	23.51	180	J
11.	UNKNOWN PAH	24.18	120	J
12.	UNKNOWN	24.27	190	J
13.	UNKNOWN	24.84	140	J
14.	UNKNOWN	24.96	180	J
15.	UNKNOWN ALDEHYDE	25.06	160	J
16. 1058-61-3	STIGMAST-4-EN-3-ONE	26.01	220	NJ
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-3A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 28 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	9	JB
108-95-2	Phenol	460	U
111-44-4	bis(2-Chloroethyl)ether	460	U
95-57-8	2-Chlorophenol	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
98-86-2	Acetophenone	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
91-20-3	Naphthalene	10	J
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
105-60-2	Caprolactam	460	U
59-50-7	4-Chloro-3-methylphenol	460	U
91-57-6	2-Methylnaphthalene	13	J
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	460	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	460	U
606-20-2	2,6-Dinitrotoluene	460	U
208-96-8	Acenaphthylene	22	J
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	23	J

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-3A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 28 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7 Extraction: (Type) SONC

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	13	J
121-14-2	2,4-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	460	U
86-73-7	Fluorene	28	J
7005-72-3	4-Chlorophenyl-phenylether	460	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
1912-24-9	Atrazine	460	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	530	
120-12-7	Anthracene	77	J
86-74-8	Carbazole	55	J
84-74-2	Di-n-butylphthalate	460	U
206-44-0	Fluoranthene	1200	
129-00-0	Pyrene	880	
85-68-7	Butylbenzylphthalate	41	J
91-94-1	3,3'-Dichlorobenzidine	460	U
56-55-3	Benzo(a)anthracene	430	J
218-01-9	Chrysene	620	
117-81-7	bis(2-Ethylhexyl)phthalate	260	JB
117-84-0	Di-n-octylphthalate	460	U
205-99-2	Benzo(b)fluoranthene	720	
207-08-9	Benzo(k)fluoranthene	500	
50-32-8	Benzo(a)pyrene	530	
193-39-5	Indeno(1,2,3-cd)pyrene	320	J
53-70-3	Dibenzo(a,h)anthracene	100	J
191-24-2	Benzo(g,h,i)perylene	290	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00G3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-3

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G0-3A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 28 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.7 Extraction: (Type) SONC

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 56534-02-2	.ALPHA.-CHLORDENE	13.82	870	NJ
2. 69743-73-3	1,6-METHANO-1H-INDENE, 2,3,3	14.15	1000	NJ
3.	UNKNOWN	14.51	260	J
4. 1024-57-3	HEPTACHLOR EPOXIDE	14.61	310	NJ
5.	UNKNOWN	14.81	280	J
. 57-74-9	CHLORDANE	14.88	720	NJ
	UNKNOWN	14.93	440	J
8. 57-74-9	CHLORDANE	15.05	1600	NJ
9.	UNKNOWN	15.13	160	J
10.	BENZOFLUORENE	15.34	180	J
11. 243-17-4	11H-BENZO[B]FLUORENE	15.57	140	NJ
12.	METHYLPYRENE	15.64	200	J
13. 3734-49-4	4,7-METHANO-1H-INDENE, 1,2,3	15.77	180	NJ
14.	UNKNOWN	15.91	330	J
15.	UNKNOWN	17.90	170	J
16. 0-00-0	1-HEXACOSANAL	19.15	910	NJ
17. 1599-67-3	1-DOCOSENE	19.78	580	NJ
18. 205-82-3	BENZO[J]FLUORANTHENE	20.18	580	NJ
19. 0-00-0	1-HEXACOSANAL	20.87	460	NJ
20.	UNKNOWN	21.62	340	J
21.	UNKNOWN	23.12	1200	J
22.	UNKNOWN	23.36	810	J
23.	UNKNOWN	23.53	670	J
24.	UNKNOWN	23.66	460	J
25.	UNKNOWN	24.20	690	J
26.	UNKNOWN	24.29	650	J
27.	UNKNOWN	24.88	660	J
28.	UNKNOWN	25.57	790	J
29. 1058-61-3	STIGMAST-4-EN-3-ONE	26.06	860	NJ
30.	UNKNOWN	27.58	990	J

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-4

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-4A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 18 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	8	JB
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
98-86-2	Acetophenone	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	400	U
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	400	U
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	400	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	400	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-4

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-4A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 18 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Extraction: (Type) SONC

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	400	U
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	72	J
120-12-7	Anthracene	14	J
86-74-8	Carbazole	400	U
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	180	J
129-00-0	Pyrene	160	J
85-68-7	Butylbenzylphthalate	15	J
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	75	J
218-01-9	Chrysene	110	J
117-81-7	bis(2-Ethylhexyl)phthalate	350	JB
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	110	J
207-08-9	Benzo(k)fluoranthene	90	J
50-32-8	Benzo(a)pyrene	92	J
193-39-5	Indeno(1,2,3-cd)pyrene	63	J
53-70-3	Dibenzo(a,h)anthracene	21	J
191-24-2	Benzo(g,h,i)perylene	75	J

(1) - Cannot be separated from Diphenylamine

IG

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00G4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-4

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G0-4A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 18 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8 Extraction: (Type) SONC

Number TICs found: 27

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.94	160	J
2.	UNKNOWN	6.10	110	J
3.	UNKNOWN	6.87	140	J
4.	UNKNOWN	8.41	120	J
5. 638-66-4	OCTADECANAL	19.13	1100	NJ
6. 1454-84-8	1-NONADECANOL	19.78	270	NJ
7.	UNKNOWN	19.91	82	J
8. 192-97-2	BENZO[E]PYRENE	20.16	140	NJ
9. 56554-90-6	13-OCTADECENAL	20.87	370	NJ
10.	UNKNOWN	21.52	92	J
11.	UNKNOWN AMIDE	22.53	89	J
12. 2765-11-9	PENTADECANAL-	22.68	310	NJ
13. 14021-23-9	D-FRIEDOOLEAN-14-ENE, 3-METH	23.36	620	NJ
14.	UNKNOWN	23.56	560	J
15.	UNKNOWN	23.66	790	J
16.	UNKNOWN	24.08	330	J
17.	UNKNOWN	24.27	180	J
18.	UNKNOWN	24.69	380	J
19.	UNKNOWN	24.86	130	J
20.	UNKNOWN	24.96	130	J
21. 124-25-4	TETRADECANAL	25.06	190	NJ
22.	UNKNOWN	25.16	120	J
23.	UNKNOWN	25.77	100	J
24. 1058-61-3	STIGMAST-4-EN-3-ONE	26.02	300	NJ
25.	UNKNOWN	26.21	140	J
26.	UNKNOWN	26.73	84	J
27.	UNKNOWN	27.53	110	J
28.				
29.				
30.				

FORM I SV-TIC OLM04.2

IC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-5

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-5A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 16 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	9	JB
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)ether	390	U
95-57-8	2-Chlorophenol	390	U
95-48-7	2-Methylphenol	390	U
108-60-1	2,2'-oxybis(1-Chloropropane)	390	U
98-86-2	Acetophenone	390	U
106-44-5	4-Methylphenol	390	U
621-64-7	N-Nitroso-di-n-propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
105-60-2	Caprolactam	390	U
59-50-7	4-Chloro-3-methylphenol	390	U
91-57-6	2-Methylnaphthalene	12	J
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	990	U
92-52-4	1,1'-Biphenyl	390	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	990	U
131-11-3	Dimethylphthalate	390	U
606-20-2	2,6-Dinitrotoluene	390	U
208-96-8	Acenaphthylene	390	U
99-09-2	3-Nitroaniline	990	U
83-32-9	Acenaphthene	390	U

ID

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-5

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-5A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 16 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	990	U
100-02-7	4-Nitrophenol	990	U
132-64-9	Dibenzofuran	390	U
121-14-2	2,4-Dinitrotoluene	390	U
84-66-2	Diethylphthalate	390	U
86-73-7	Fluorene	390	U
7005-72-3	4-Chlorophenyl-phenylether	390	U
100-01-6	4-Nitroaniline	990	U
534-52-1	4,6-Dinitro-2-methylphenol	990	U
86-30-6	N-nitrosodiphenylamine (1)	390	U
101-55-3	4-Bromophenyl-phenylether	390	U
118-74-1	Hexachlorobenzene	390	U
1912-24-9	Atrazine	390	U
87-86-5	Pentachlorophenol	990	U
85-01-8	Phenanthrene	87	J
120-12-7	Anthracene	15	J
86-74-8	Carbazole	390	U
84-74-2	Di-n-butylphthalate	390	U
206-44-0	Fluoranthene	170	J
129-00-0	Pyrene	150	J
85-68-7	Butylbenzylphthalate	390	U
91-94-1	3,3'-Dichlorobenzidine	390	U
56-55-3	Benzo(a)anthracene	73	J
218-01-9	Chrysene	110	J
117-81-7	bis(2-Ethylhexyl)phthalate	75	JB
117-84-0	Di-n-octylphthalate	390	U
205-99-2	Benzo(b)fluoranthene	100	J
207-08-9	Benzo(k)fluoranthene	84	J
50-32-8	Benzo(a)pyrene	86	J
193-39-5	Indeno(1,2,3-cd)pyrene	53	J
53-70-3	Dibenzo(a,h)anthracene	20	J
191-24-2	Benzo(g,h,i)perylene	48	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00G5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-5

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G0-5A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 16 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-13-4	2,5-HEXANEDIONE	5.95	130	NJ
2. 638-66-4	OCTADECANAL	19.14	400	NJ
3.	UNKNOWN	19.78	140	J
4. 198-55-0	PERYLENE	20.17	87	NJ
5. 192-97-2	BENZO[E]PYRENE	20.47	90	NJ
6. 638-66-4	OCTADECANAL	20.86	84	NJ
7.	UNKNOWN ALDEHYDE	22.67	82	J
8.	UNKNOWN	23.34	200	J
9.	UNKNOWN	23.51	120	J
10.	UNKNOWN	23.65	140	J
11.	UNKNOWN	23.99	130	J
12.	UNKNOWN	24.17	130	J
13.	UNKNOWN	24.27	150	J
14.	UNKNOWN	24.76	170	J
15.	UNKNOWN	24.86	140	J
16.	UNKNOWN	24.97	83	J
17.	UNKNOWN	25.17	100	J
18.	UNKNOWN	25.78	120	J
19. 1058-61-3	STIGMAST-4-EN-3-ONE	26.03	300	NJ
20.	UNKNOWN	26.67	110	J
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-6

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-6A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 23 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	7	JB
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
98-86-2	Acetophenone	430	U
106-44-5	4-Methylphenol	430	U
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	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	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	1100	U
92-52-4	1,1'-Biphenyl	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	430	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	430	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-6

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-6A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 23 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

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	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	52	J
120-12-7	Anthracene	10	J
86-74-8	Carbazole	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	140	J
129-00-0	Pyrene	130	J
85-68-7	Butylbenzylphthalate	11	J
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	61	J
218-01-9	Chrysene	93	J
117-81-7	bis(2-Ethylhexyl)phthalate	180	JB
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	96	J
207-08-9	Benzo(k)fluoranthene	80	J
50-32-8	Benzo(a)pyrene	79	J
193-39-5	Indeno(1,2,3-cd)pyrene	59	J
53-70-3	Dibenzo(a,h)anthracene	21	J
191-24-2	Benzo(g,h,i)perylene	59	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00G6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-6

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G0-6A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 23 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

Number TICs found: 25

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-13-4	2,5-HEXANEDIONE	5.94	200	NJ
2.	UNKNOWN	6.10	93	J
3.	UNKNOWN	6.87	110	J
4.	UNKNOWN KETONE	13.12	100	J
5. 0-00-0	1-HEXACOSANAL	19.13	950	NJ
[illegible]. 1454-84-8	1-NONADECANOL	19.78	330	NJ
[illegible].	UNKNOWN	19.91	97	J
8. 198-55-0	PERYLENE	20.16	160	NJ
9.	UNKNOWN	20.74	100	J
10.	UNKNOWN	20.82	120	J
11. 56554-90-6	13-OCTADECENAL	20.87	400	NJ
12. 56554-90-6	13-OCTADECENAL	22.68	150	NJ
13.	UNKNOWN	23.36	500	J
14.	UNKNOWN	23.51	120	J
15.	UNKNOWN	24.27	200	J
16.	UNKNOWN	24.45	98	J
17.	UNKNOWN	24.56	96	J
18.	UNKNOWN	24.76	150	J
19.	UNKNOWN	24.86	160	J
20.	UNKNOWN	24.96	120	J
21.	UNKNOWN ALDEHYDE	25.06	170	J
22.	UNKNOWN	25.16	110	J
23. 1058-61-3	STIGMAST-4-EN-3-ONE	26.03	270	NJ
24.	UNKNOWN	26.23	91	J
25.	UNKNOWN	26.65	95	J
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G7

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-7

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-7A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 19 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	10	JB
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
98-86-2	Acetophenone	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	410	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G7

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-7

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-7A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 19 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

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	410	U
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	19	J
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	130	J
120-12-7	Anthracene	32	J
86-74-8	Carbazole	12	J
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	210	J
129-00-0	Pyrene	170	J
85-68-7	Butylbenzylphthalate	410	U
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	88	J
218-01-9	Chrysene	120	J
117-81-7	bis(2-Ethylhexyl)phthalate	120	JB
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	110	J
207-08-9	Benzo(k)fluoranthene	94	J
50-32-8	Benzo(a)pyrene	92	J
193-39-5	Indeno(1,2,3-cd)pyrene	59	J
53-70-3	Dibenzo(a,h)anthracene	21	J
191-24-2	Benzo(g,h,i)perylene	52	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00G7

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-7

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G0-7A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 19 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

Number TICs found: 16 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-13-4	2,5-HEXANEDIONE	5.93	280	NJ
2.	UNKNOWN	12.18	110	J
3. 0-00-0	1-HEXACOSANAL	19.14	600	NJ
4. 112-92-5	1-OCTADECANOL	19.78	360	NJ
5. 198-55-0	PERYLENE	20.17	120	NJ
6. 638-66-4	OCTADECANAL	20.86	210	NJ
7. 7390-81-0	OXIRANE, HEXADECYL-	22.67	110	NJ
8.	UNKNOWN	23.35	400	J
9.	UNKNOWN	23.51	90	J
10.	UNKNOWN	24.27	120	J
11.	UNKNOWN	24.75	100	J
12.	UNKNOWN	24.85	150	J
13.	UNKNOWN ALDEHYDE	25.07	96	J
14.	UNKNOWN	25.17	100	J
15.	UNKNOWN	25.78	110	J
16. 1058-61-3	STIGMAST-4-EN-3-ONE	26.03	350	NJ
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-8

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-8JA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 19 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	15	JB
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
98-86-2	Acetophenone	410	U
106-44-5	4-Methylphenol	410	U
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	10	J
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	32	J

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-8

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-8JA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 19 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

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	17	J
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	30	J
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	370	J
120-12-7	Anthracene	63	J
86-74-8	Carbazole	41	J
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	620	
129-00-0	Pyrene	460	
85-68-7	Butylbenzylphthalate	14	J
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	230	J
218-01-9	Chrysene	290	J
117-81-7	bis(2-Ethylhexyl)phthalate	400	JB
117-84-0	Di-n-octylphthalate	13	J
205-99-2	Benzo(b)fluoranthene	300	J
207-08-9	Benzo(k)fluoranthene	200	J
50-32-8	Benzo(a)pyrene	240	J
193-39-5	Indeno(1,2,3-cd)pyrene	150	J
53-70-3	Dibenzo(a,h)anthracene	70	J
191-24-2	Benzo(g,h,i)perylene	140	J

(1) - Cannot be separated from Diphenylamine

IG

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00G8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-8

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G0-8JA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 19 Decanted: (Y/N) N Date Extracted:11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

Number TICs found: 25

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-13-4	2,5-HEXANEDIONE	5.96	450	NJ
2.	UNKNOWN KETONE	13.12	130	J
3.	UNKNOWN PAH	16.54	110	J
4.	UNKNOWN	17.92	180	J
5. 2765-11-9	PENTADECANAL-	19.14	1600	NJ
6. 1454-84-8	1-NONADECANOL	19.78	1000	NJ
7.	UNKNOWN	19.91	160	J
8. 207-08-9	BENZO[K]FLUORANTHENE	20.17	320	NJ
9.	UNKNOWN	20.61	180	J
10.	UNKNOWN	20.74	260	J
11.	UNKNOWN	20.83	170	J
12. 56554-90-6	13-OCTADECENAL	20.88	490	NJ
13. 57-88-5	CHOLESTEROL	22.07	650	NJ
14.	UNKNOWN AMIDE	22.53	180	J
15. 638-66-4	OCTADECANAL	22.68	150	NJ
16. 14021-23-9	D-FRIEDOOLEAN-14-ENE, 3-METH	23.36	960	NJ
17.	UNKNOWN	23.51	290	J
18.	UNKNOWN	23.65	240	J
19.	UNKNOWN	24.27	250	J
20.	UNKNOWN	24.76	180	J
21.	UNKNOWN	24.86	300	J
22. 7390-81-0	OXIRANE, HEXADECYL-	25.06	190	NJ
23.	UNKNOWN	25.17	160	J
24.	UNKNOWN	25.77	220	J
25. 1058-61-3	STIGMAST-4-EN-3-ONE	26.03	570	NJ
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-9

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-9JA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 25 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	12	JB
108-95-2	Phenol	440	U
111-44-4	bis(2-Chloroethyl)ether	440	U
95-57-8	2-Chlorophenol	440	U
95-48-7	2-Methylphenol	440	U
108-60-1	2,2'-oxybis(1-Chloropropane)	440	U
98-86-2	Acetophenone	440	U
106-44-5	4-Methylphenol	440	U
621-64-7	N-Nitroso-di-n-propylamine	440	U
67-72-1	Hexachloroethane	440	U
98-95-3	Nitrobenzene	440	U
78-59-1	Isophorone	440	U
88-75-5	2-Nitrophenol	440	U
105-67-9	2,4-Dimethylphenol	440	U
111-91-1	bis(2-Chloroethoxy)methane	440	U
120-83-2	2,4-Dichlorophenol	440	U
91-20-3	Naphthalene	440	U
106-47-8	4-Chloroaniline	440	U
87-68-3	Hexachlorobutadiene	440	U
105-60-2	Caprolactam	440	U
59-50-7	4-Chloro-3-methylphenol	440	U
91-57-6	2-Methylnaphthalene	440	U
77-47-4	Hexachlorocyclopentadiene	440	U
88-06-2	2,4,6-Trichlorophenol	440	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	440	U
91-58-7	2-Chloronaphthalene	440	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	440	U
606-20-2	2,6-Dinitrotoluene	440	U
208-96-8	Acenaphthylene	15	J
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	440	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-9

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-9JA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 25 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Extraction: (Type) SONC

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	440	U
121-14-2	2,4-Dinitrotoluene	440	U
84-66-2	Diethylphthalate	440	U
86-73-7	Fluorene	440	U
7005-72-3	4-Chlorophenyl-phenylether	440	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	440	U
101-55-3	4-Bromophenyl-phenylether	440	U
118-74-1	Hexachlorobenzene	440	U
1912-24-9	Atrazine	440	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	150	J
120-12-7	Anthracene	28	J
86-74-8	Carbazole	18	J
84-74-2	Di-n-butylphthalate	18	J
206-44-0	Fluoranthene	330	J
129-00-0	Pyrene	260	J
85-68-7	Butylbenzylphthalate	21	J
91-94-1	3,3'-Dichlorobenzidine	440	U
56-55-3	Benzo(a)anthracene	140	J
218-01-9	Chrysene	180	J
117-81-7	bis(2-Ethylhexyl)phthalate	150	JB
117-84-0	Di-n-octylphthalate	440	U
205-99-2	Benzo(b)fluoranthene	200	J
207-08-9	Benzo(k)fluoranthene	140	J
50-32-8	Benzo(a)pyrene	170	J
193-39-5	Indeno(1,2,3-cd)pyrene	120	J
53-70-3	Dibenzo(a,h)anthracene	61	J
191-24-2	Benzo(g,h,i)perylene	99	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00G9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-9

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G0-9JA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 25 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.9 Extraction: (Type) SONC

Number TICs found: 23

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-13-4	2,5-HEXANEDIONE	5.96	520	NJ
2.	UNKNOWN	8.41	280	J
3.	UNKNOWN	9.96	140	J
4.	UNKNOWN KETONE	13.12	130	J
5. 56641-38-4	.GAMMA.-CHLORDENE	14.15	260	NJ
6.	UNKNOWN	14.61	180	J
7.	UNKNOWN	15.10	170	J
8. 13360-61-7	1-PENTADECENE	15.47	220	NJ
9.	METHYLPYRENE	15.64	93	J
10. 56554-89-3	14-OCTADECENAL	19.15	960	NJ
11. 1454-84-8	1-NONADECANOL	19.78	420	NJ
12. 0-00-0	1-HEXACOSANAL	20.87	540	NJ
13.	UNKNOWN	21.52	95	J
14. 638-66-4	OCTADECANAL	21.72	94	NJ
15. 638-66-4	OCTADECANAL	22.68	390	NJ
16.	SUBSTITUTED NAPHTHALENE	23.36	280	J
17. 0-00-0	2-PENTACOSANONE	23.53	200	NJ
18.	UNKNOWN	23.64	140	J
19.	UNKNOWN	24.29	100	J
20.	UNKNOWN	24.47	90	J
21.	UNKNOWN	25.18	110	J
22. 1058-61-3	STIGMAST-4-EN-3-ONE	26.04	250	NJ
23.	UNKNOWN KETONE	26.23	140	J
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM04.2

IC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00H0

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-10

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-10JA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 23 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	10	JB
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
98-86-2	Acetophenone	15	JB
106-44-5	4-Methylphenol	430	U
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	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	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	1100	U
92-52-4	1,1'-Biphenyl	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	29	J
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	430	U

ID

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00H0

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-10

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-10JA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 23 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

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	430	U
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	110	J
120-12-7	Anthracene	36	J
86-74-8	Carbazole	12	J
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	320	J
129-00-0	Pyrene	340	J
85-68-7	Butylbenzylphthalate	65	J
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	180	J
218-01-9	Chrysene	230	J
117-81-7	bis(2-Ethylhexyl)phthalate	150	JB
117-84-0	Di-n-cctylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	220	J
207-08-9	Benzo(k)fluoranthene	170	J
50-32-8	Benzo(a)pyrene	240	J
193-39-5	Indeno(1,2,3-cd)pyrene	140	J
53-70-3	Dibenzo(a,h)anthracene	75	J
191-24-2	Benzo(g,h,i)perylene	150	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00H0

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G0-10JA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 23 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

Number TICs found: 23

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-13-4	2,5-HEXANEDIONE	5.96	460	NJ
2.	UNKNOWN KETONE	13.12	110	J
3.	UNKNOWN	14.52	89	J
4. 2381-21-7	PYRENE, 1-METHYL-	15.64	100	NJ
5. 638-66-4	OCTADECANAL	19.13	1300	NJ
6. 1454-84-8	1-NONADECANOL	19.78	630	NJ
7.	UNKNOWN	19.91	190	J
8. 124-25-4	TETRADECANAL	20.87	410	NJ
9.	UNKNOWN	21.52	150	J
10.	UNKNOWN	21.62	150	J
11.	UNKNOWN ALDEHYDE	22.68	250	J
12.	UNKNOWN	23.36	570	J
13.	UNKNOWN	23.53	250	J
14.	UNKNOWN	23.64	210	J
15.	UNKNOWN	23.74	130	J
16.	UNKNOWN	24.18	210	J
17.	UNKNOWN	24.29	300	J
18.	UNKNOWN KETONE	24.76	150	J
19.	UNKNOWN	24.88	350	J
20.	UNKNOWN ALDEHYDE	25.08	240	J
21.	UNKNOWN	25.79	220	J
22. 1058-61-3	STIGMAST-4-EN-3-ONE	26.04	560	NJ
23.	SUBSTITUTED BENZENE	26.67	130	J
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00H1

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-11

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-11JA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	20	JB
108-95-2	Phenol	41	J
111-44-4	bis(2-Chloroethyl)ether	420	U
95-57-8	2-Chlorophenol	420	U
95-48-7	2-Methylphenol	420	U
108-60-1	2,2'-oxybis(1-Chloropropane)	420	U
98-86-2	Acetophenone	420	U
106-44-5	4-Methylphenol	420	U
621-64-7	N-Nitroso-di-n-propylamine	420	U
67-72-1	Hexachloroethane	420	U
98-95-3	Nitrobenzene	420	U
78-59-1	Isophorone	420	U
88-75-5	2-Nitrophenol	420	U
105-67-9	2,4-Dimethylphenol	420	U
111-91-1	bis(2-Chloroethoxy)methane	420	U
120-83-2	2,4-Dichlorophenol	420	U
91-20-3	Naphthalene	18	J
106-47-8	4-Chloroaniline	420	U
87-68-3	Hexachlorobutadiene	420	U
105-60-2	Caprolactam	420	U
59-50-7	4-Chloro-3-methylphenol	420	U
91-57-6	2-Methylnaphthalene	35	J
77-47-4	Hexachlorocyclopentadiene	420	U
88-06-2	2,4,6-Trichlorophenol	420	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	420	U
91-58-7	2-Chloronaphthalene	420	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	420	U
606-20-2	2,6-Dinitrotoluene	420	U
208-96-8	Acenaphthylene	14	J
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	19	J

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00H1

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-11

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-11JA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

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	18	J
121-14-2	2,4-Dinitrotoluene	420	U
84-66-2	Diethylphthalate	420	U
86-73-7	Fluorene	21	J
7005-72-3	4-Chlorophenyl-phenylether	420	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	420	U
101-55-3	4-Bromophenyl-phenylether	420	U
118-74-1	Hexachlorobenzene	420	U
1912-24-9	Atrazine	420	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	260	J
120-12-7	Anthracene	62	J
86-74-8	Carbazole	16	J
84-74-2	Di-n-butylphthalate	15	J
206-44-0	Fluoranthene	560	
129-00-0	Pyrene	510	
85-68-7	Butylbenzylphthalate	29	J
91-94-1	3,3'-Dichlorobenzidine	420	U
56-55-3	Benzo(a)anthracene	260	J
218-01-9	Chrysene	300	J
117-81-7	bis(2-Ethylhexyl)phthalate	140	JB
117-84-0	Di-n-octylphthalate	420	U
205-99-2	Benzo(b)fluoranthene	270	J
207-08-9	Benzo(k)fluoranthene	250	J
50-32-8	Benzo(a)pyrene	270	J
193-39-5	Indeno(1,2,3-cd)pyrene	160	J
53-70-3	Dibenzo(a,h)anthracene	68	J
191-24-2	Benzo(g,h,i)perylene	170	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00H1

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G0-11JA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 21 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

Number TICs found: 23

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-13-4	2,5-HEXANEDIONE	5.96	730	NJ
2.	UNKNOWN KETONE	13.12	170	J
3.	UNKNOWN	14.64	160	J
4.	BENZOFLUORENE	15.34	210	J
5.	BENZOFLUORENE	15.57	190	J
6. 2381-21-7	PYRENE, 1-METHYL-	15.64	330	NJ
7. 3442-78-2	PYRENE, 2-METHYL-	15.78	160	NJ
8.	TETRAHYDROBENZANTHRACENE	15.81	230	J
9.	UNKNOWN	16.16	190	J
10. 0-00-0	1-HEXACOSANAL	19.14	620	NJ
11. 198-55-0	PERYLENE	19.78	350	NJ
12.	UNKNOWN	19.91	180	J
13. 207-08-9	BENZO[K]FLUORANTHENE	20.18	390	NJ
14. 124-25-4	TETRADECANAL	20.88	300	NJ
15. 57-88-5	CHOLESTEROL	22.07	630	NJ
16. 56554-90-6	13-OCTADECENAL	22.68	160	NJ
17. 14021-23-9	D-FRIEDOOLEAN-14-ENE, 3-METH	23.36	590	NJ
18.	UNKNOWN KETONE	23.53	180	J
19.	UNKNOWN	23.66	180	J
20.	UNKNOWN	24.29	250	J
21.	UNKNOWN	24.88	150	J
22.	UNKNOWN	25.81	160	J
23. 1058-61-3	STIGMAST-4-EN-3-ONE	26.04	370	NJ
24.				
25.				
26.				
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00H2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-12

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-12JA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 34 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	30	JB
108-95-2	Phenol	500	U
111-44-4	bis(2-Chloroethyl)ether	500	U
95-57-8	2-Chlorophenol	500	U
95-48-7	2-Methylphenol	500	U
108-60-1	2,2'-oxybis(1-Chloropropane)	500	U
98-86-2	Acetophenone	16	JB
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
91-20-3	Naphthalene	20	J
106-47-8	4-Chloroaniline	500	U
87-68-3	Hexachlorobutadiene	500	U
105-60-2	Caprolactam	500	U
59-50-7	4-Chloro-3-methylphenol	500	U
91-57-6	2-Methylnaphthalene	29	J
77-47-4	Hexachlorocyclopentadiene	500	U
88-06-2	2,4,6-Trichlorophenol	500	U
95-95-4	2,4,5-Trichlorophenol	1300	U
92-52-4	1,1'-Biphenyl	500	U
91-58-7	2-Chloronaphthalene	500	U
88-74-4	2-Nitroaniline	1300	U
131-11-3	Dimethylphthalate	500	U
606-20-2	2,6-Dinitrotoluene	500	U
208-96-8	Acenaphthylene	24	J
99-09-2	3-Nitroaniline	1300	U
83-32-9	Acenaphthene	19	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00H2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-12

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-12JA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 34 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1300	U
100-02-7	4-Nitrophenol	1300	U
132-64-9	Dibenzofuran	15	J
121-14-2	2,4-Dinitrotoluene	500	U
84-66-2	Diethylphthalate	500	U
86-73-7	Fluorene	17	J
7005-72-3	4-Chlorophenyl-phenylether	500	U
100-01-6	4-Nitroaniline	1300	U
534-52-1	4,6-Dinitro-2-methylphenol	1300	U
86-30-6	N-nitrosodiphenylamine (1)	500	U
101-55-3	4-Bromophenyl-phenylether	500	U
118-74-1	Hexachlorobenzene	500	U
1912-24-9	Atrazine	500	U
87-86-5	Pentachlorophenol	1300	U
85-01-8	Phenanthrene	190	J
120-12-7	Anthracene	43	J
86-74-8	Carbazole	25	J
84-74-2	Di-n-butylphthalate	60	J
206-44-0	Fluoranthene	370	J
129-00-0	Pyrene	340	J
85-68-7	Butylbenzylphthalate	89	J
91-94-1	3,3'-Dichlorobenzidine	500	U
56-55-3	Benzo(a)anthracene	170	J
218-01-9	Chrysene	240	J
117-81-7	bis(2-Ethylhexyl)phthalate	710	B
117-84-0	Di-n-octylphthalate	56	J
205-99-2	Benzo(b)fluoranthene	250	J
207-08-9	Benzo(k)fluoranthene	180	J
50-32-8	Benzo(a)pyrene	200	J
193-39-5	Indeno(1,2,3-cd)pyrene	140	J
53-70-3	Dibenzo(a,h)anthracene	57	J
191-24-2	Benzo(g,h,i)perylene	170	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00H2

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-12

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G0-12JA66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 34 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

Number TICs found: 26

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-13-4	2,5-HEXANEDIONE	5.96	760	NJ
2.	UNKNOWN	14.37	350	J
3.	UNKNOWN	14.62	310	J
4.	UNKNOWN	15.10	300	J
5.	UNKNOWN AMIDE	15.30	300	J
6. 243-17-4	11H-BENZO[B]FLUORENE	15.35	330	NJ
7.	UNKNOWN	15.55	440	J
8. 3442-78-2	PYRENE, 2-METHYL-	15.64	640	NJ
9. 3353-12-6	PYRENE, 4-METHYL-	15.77	280	NJ
10.	UNKNOWN	15.82	380	J
11.	UNKNOWN	15.86	270	J
12.	UNKNOWN CARBOXYLIC ACID	16.01	380	J
13.	UNKNOWN ALDEHYDE	16.18	480	J
14. 82-05-3	7H-BENZ[DE]ANTHRACEN-7-ONE	16.28	410	NJ
15. 239-35-0	BENZO[B]NAPHTHO[2,1-D]THIOPH	16.45	260	NJ
16. 82-05-3	7H-BENZ[DE]ANTHRACEN-7-ONE	16.63	340	NJ
17. 638-66-4	OCTADECANAL	19.15	1200	NJ
18.	UNKNOWN	19.81	470	J
19. 50-32-8	BENZO[A]PYRENE	20.18	470	NJ
20.	UNKNOWN ALDEHYDE	20.87	580	J
21. 53584-60-4	28-NOR-17.ALPHA.(H)-HOPANE	21.62	340	NJ
22. 56554-87-1	16-OCTADECENAL	22.68	350	NJ
23.	UNKNOWN	23.37	840	J
24. 1058-61-3	STIGMAST-4-EN-3-ONE	26.04	980	NJ
25.	UNKNOWN	26.23	390	J
26. 35354-38-2	7-OCTADECYNE, 2-METHYL-	27.58	570	NJ
27.				
28.				
29.				
30.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00H3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-13

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-13A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	18	JB
108-95-2	Phenol	430	U
111-44-4	bis(2-Chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	430	U
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
98-86-2	Acetophenone	430	U
106-44-5	4-Methylphenol	430	U
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	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	30	J
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	29	J
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	33	J
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	72	J

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00H3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-13

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-13A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

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	81	J
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	130	J
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	1300	
120-12-7	Anthracene	250	J
86-74-8	Carbazole	130	J
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	1500	
129-00-0	Pyrene	1300	
85-68-7	Butylbenzylphthalate	12	J
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	620	
218-01-9	Chrysene	670	
117-81-7	bis(2-Ethylhexyl)phthalate	170	JB
117-84-0	Di-n-octylphthalate	12	J
205-99-2	Benzo(b)fluoranthene	560	
207-08-9	Benzo(k)fluoranthene	650	
50-32-8	Benzo(a)pyrene	580	
193-39-5	Indeno(1,2,3-cd)pyrene	270	J
53-70-3	Dibenzo(a,h)anthracene	100	J
191-24-2	Benzo(g,h,i)perylene	200	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00H3

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-13

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G0-13A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 24 Decanted: (Y/N) N Date Extracted:11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-13-4	2,5-HEXANEDIONE	5.93	480	NJ
2. 203-64-5	4H-CYCLOPENTA[DEF]PHENANTHRE	13.90	430	NJ
3. 238-84-6	11H-BENZO[A]FLUORENE	15.49	120	NJ
4.	UNKNOWN	16.50	170	J
5. 638-66-4	OCTADECANAL	19.15	660	NJ
6. 207-08-9	BENZO[K]FLUORANTHENE	19.78	520	NJ
7.	UNKNOWN	19.91	230	J
8.	UNKNOWN	20.10	180	J
9. 207-08-9	BENZO[K]FLUORANTHENE	20.19	630	NJ
10. 192-97-2	BENZO[E]PYRENE	20.49	450	NJ
11.	UNKNOWN	20.88	560	J
12.	UNKNOWN	21.05	340	J
13.	UNKNOWN	21.40	370	J
14.	UNKNOWN	21.54	250	J
15.	UNKNOWN	21.62	320	J
16.	UNKNOWN	21.92	290	J
17. 56554-90-6	13-OCTADECENAL	22.68	270	NJ
18.	UNKNOWN	23.36	830	J
19.	UNKNOWN	23.53	240	J
20.	UNKNOWN	23.66	260	J
21.	UNKNOWN	24.20	250	J
22.	UNKNOWN	24.29	230	J
23.	UNKNOWN	24.58	180	J
24. 30882-67-8	PREGN-4-EN-3-ONE, 20,21-[(BU	24.78	280	NJ
25.	UNKNOWN	24.88	240	J
26. 7390-81-0	OXIRANE, HEXADECYL-	25.08	270	NJ
27. 0-00-0	24S-ETHYLCHOLESTA-4,22E-DIEN	25.18	200	NJ
28.	UNKNOWN	25.79	190	J
29. 1058-61-3	STIGMAST-4-EN-3-ONE	26.05	440	NJ
30.	UNKNOWN	26.67	220	J

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00H4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-14

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-14A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 26 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	30	JB
108-95-2	Phenol	450	U
111-44-4	bis(2-Chloroethyl)ether	450	U
95-57-8	2-Chlorophenol	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	2,2'-oxybis(1-Chloropropane)	450	U
98-86-2	Acetophenone	16	JB
106-44-5	4-Methylphenol	18	J
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
91-20-3	Naphthalene	97	J
106-47-8	4-Chloroaniline	450	U
87-68-3	Hexachlorobutadiene	450	U
105-60-2	Caprolactam	450	U
59-50-7	4-Chloro-3-methylphenol	450	U
91-57-6	2-Methylnaphthalene	61	J
77-47-4	Hexachlorocyclopentadiene	450	U
88-06-2	2,4,6-Trichlorophenol	450	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	20	J
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	450	U
606-20-2	2,6-Dinitrotoluene	450	U
208-96-8	Acenaphthylene	100	J
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	46	J

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00H4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-14

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-14A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 26 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

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	62	J
121-14-2	2,4-Dinitrotoluene	450	U
84-66-2	Diethylphthalate	450	U
86-73-7	Fluorene	78	J
7005-72-3	4-Chlorophenyl-phenylether	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
1912-24-9	Atrazine	450	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	750	
120-12-7	Anthracene	210	J
86-74-8	Carbazole	79	J
84-74-2	Di-n-butylphthalate	450	U
206-44-0	Fluoranthene	1300	
129-00-0	Pyrene	1200	
85-68-7	Butylbenzylphthalate	33	J
91-94-1	3,3'-Dichlorobenzidine	450	U
56-55-3	Benzo(a)anthracene	630	
218-01-9	Chrysene	790	
117-81-7	bis(2-Ethylhexyl)phthalate	240	JB
117-84-0	Di-n-octylphthalate	450	U
205-99-2	Benzo(b)fluoranthene	740	
207-08-9	Benzo(k)fluoranthene	770	
50-32-8	Benzo(a)pyrene	720	
193-39-5	Indeno(1,2,3-cd)pyrene	410	J
53-70-3	Dibenzo(a,h)anthracene	140	J
191-24-2	Benzo(g,h,i)perylene	420	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00H4

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-14

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G0-14A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 26 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	BENZONAPHTHOFURAN	15.19	200	J
2.	BENZOFLUORENE	15.34	300	J
3.	BENZOFLUORENE	15.58	270	J
4. 3442-78-2	PYRENE, 2-METHYL-	15.64	350	NJ
5.	UNKNOWN	15.73	180	J
6. 3442-78-2	PYRENE, 2-METHYL-	15.78	220	NJ
7.	UNKNOWN	15.83	240	J
8.	UNKNOWN	15.86	210	J
9.	UNKNOWN	16.01	200	J
10.	UNKNOWN	16.08	230	J
11. 56554-86-0	17-OCTADECENAL	16.18	390	NJ
12. 82-05-3	7H-BENZ[DE]ANTHRACEN-7-ONE	16.28	290	NJ
13.	UNKNOWN	16.40	230	J
14. 239-35-0	BENZO[B]NAPHTHO[2,1-D]THIOPH	16.45	250	NJ
15. 82-05-3	7H-BENZ[DE]ANTHRACEN-7-ONE	16.64	290	NJ
16.	BENZONAPHTHOTHIOPHENE	16.76	250	J
17.	UNKNOWN	17.15	210	J
18. 638-66-4	OCTADECANAL	19.17	740	NJ
19. 198-55-0	PERYLENE	19.81	330	NJ
20.	UNKNOWN	19.95	310	J
21. 198-55-0	PERYLENE	20.22	880	NJ
22.	UNKNOWN	20.37	360	J
23. 207-08-9	BENZO[K]FLUORANTHENE	20.51	440	NJ
24.	UNKNOWN	20.59	700	J
25. 0-00-0	1-HEXACOSANAL	20.90	600	NJ
26.	UNKNOWN	21.08	360	J
27.	UNKNOWN	22.11	310	J
28.	UNKNOWN	23.39	700	J
29. 1058-61-3	STIGMAST-4-EN-3-ONE	26.10	810	NJ
30.	UNKNOWN	26.72	430	J

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00H5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-15

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-15A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 28 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	10	JB
108-95-2	Phenol	460	U
111-44-4	bis(2-Chloroethyl)ether	460	U
95-57-8	2-Chlorophenol	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
98-86-2	Acetophenone	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
91-20-3	Naphthalene	460	U
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
105-60-2	Caprolactam	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	1200	U
92-52-4	1,1'-Biphenyl	460	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	460	U
606-20-2	2,6-Dinitrotoluene	460	U
208-96-8	Acenaphthylene	460	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	460	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00H5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-15

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-15A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 28 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Extraction: (Type) SONC

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	460	U
121-14-2	2,4-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	460	U
86-73-7	Fluorene	460	U
7005-72-3	4-Chlorophenyl-phenylether	460	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
1912-24-9	Atrazine	460	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	71	J
120-12-7	Anthracene	460	U
86-74-8	Carbazole	460	U
84-74-2	Di-n-butylphthalate	460	U
206-44-0	Fluoranthene	170	J
129-00-0	Pyrene	150	J
85-68-7	Butylbenzylphthalate	18	J
91-94-1	3,3'-Dichlorobenzidine	460	U
56-55-3	Benzo(a)anthracene	65	J
218-01-9	Chrysene	100	J
117-81-7	bis(2-Ethylhexyl)phthalate	170	JB
117-84-0	Di-n-octylphthalate	460	U
205-99-2	Benzo(b)fluoranthene	100	J
207-08-9	Benzo(k)fluoranthene	110	J
50-32-8	Benzo(a)pyrene	86	J
193-39-5	Indeno(1,2,3-cd)pyrene	52	J
53-70-3	Dibenzo(a,h)anthracene	22	J
191-24-2	Benzo(g,h,i)perylene	79	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00H5

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-15

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G0-15A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 28 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.3 Extraction: (Type) SONC

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.96	270	J
2.	UNKNOWN KETONE	13.13	140	J
3.	BENZOFLUORENE	15.36	180	J
4.	UNKNOWN	15.56	120	J
5.	UNKNOWN	15.64	140	J
6.	UNKNOWN	15.79	130	J
7.	UNKNOWN	16.01	130	J
8. 638-66-4	OCTADECANAL	16.17	110	NJ
9. 0-00-0	1-HEXACOSANAL	19.16	3600	NJ
10.	UNKNOWN	19.78	920	J
11.	UNKNOWN	19.92	220	J
12.	UNKNOWN	20.71	240	J
13. 0-00-0	1-HEXACOSANAL	20.88	890	NJ
14.	UNKNOWN	21.54	310	J
15.	UNKNOWN	21.93	190	J
16.	UNKNOWN	22.06	190	J
17. 56554-90-6	13-OCTADECENAL	22.69	490	NJ
18.	UNKNOWN	23.36	1100	J
19.	UNKNOWN	23.53	330	J
20.	UNKNOWN	23.67	300	J
21.	UNKNOWN	24.29	490	J
22.	UNKNOWN	24.78	280	J
23.	UNKNOWN	24.86	300	J
24.	UNKNOWN	24.98	240	J
25. 7320-37-8	OXIRANE, TETRADECYL-	25.08	350	NJ
26.	UNKNOWN	25.19	210	J
27. 1058-61-3	STIGMAST-4-EN-3-ONE	26.05	690	NJ
28.	UNKNOWN	26.23	220	J
29.	UNKNOWN	26.52	200	J
30.	UNKNOWN	26.69	240	J

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00H6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-16

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-16B66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 18 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	18	JB
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)ether	400	U
95-57-8	2-Chlorophenol	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
98-86-2	Acetophenone	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
91-20-3	Naphthalene	70	J
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
105-60-2	Caprolactam	400	U
59-50-7	4-Chloro-3-methylphenol	400	U
91-57-6	2-Methylnaphthalene	46	J
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	10	J
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
606-20-2	2,6-Dinitrotoluene	400	U
208-96-8	Acenaphthylene	39	J
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	28	J

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00H6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-16

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-16B66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 18 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

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	34	J
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
86-73-7	Fluorene	35	J
7005-72-3	4-Chlorophenyl-phenylether	400	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
1912-24-9	Atrazine	400	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	400	
120-12-7	Anthracene	92	J
86-74-8	Carbazole	42	J
84-74-2	Di-n-butylphthalate	400	U
206-44-0	Fluoranthene	560	
129-00-0	Pyrene	450	
85-68-7	Butylbenzylphthalate	17	J
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	250	J
218-01-9	Chrysene	320	J
117-81-7	bis(2-Ethylhexyl)phthalate	330	JB
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	300	J
207-08-9	Benzo(k)fluoranthene	230	J
50-32-8	Benzo(a)pyrene	270	J
193-39-5	Indeno(1,2,3-cd)pyrene	170	J
53-70-3	Dibenzo(a,h)anthracene	62	J
191-24-2	Benzo(g,h,i)perylene	160	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00H6

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-16

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G0-16B66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 18 Decanted: (Y/N) N Date Extracted:11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-13-4	2,5-HEXANEDIONE	5.96	170	NJ
2.	CYCLOPENTAPHENANTHRENE	13.90	92	J
3.	UNKNOWN	16.54	96	J
4. 56554-87-1	16-OCTADECENAL	19.16	1200	NJ
5. 1454-84-8	1-NONADECANOL	19.78	490	NJ
6. 207-08-9	BENZO[K]FLUORANTHENE	20.17	150	NJ
7.	UNKNOWN	20.56	170	J
8.	UNKNOWN	20.64	190	J
9.	UNKNOWN	20.71	170	J
10.	UNKNOWN	20.76	140	J
11.	UNKNOWN	20.83	160	J
12. 638-66-4	OCTADECANAL	20.88	590	NJ
13.	UNKNOWN	21.05	150	J
14.	UNKNOWN	21.72	170	J
15.	UNKNOWN	22.08	200	J
16. 638-66-4	OCTADECANAL	22.69	470	NJ
17. 14021-23-9	D-FRIEDOOLEAN-14-ENE, 3-METH	23.36	580	NJ
18.	UNKNOWN	23.43	120	J
19.	UNKNOWN	23.53	220	J
20.	UNKNOWN	23.65	330	J
21.	UNKNOWN	24.21	240	J
22.	UNKNOWN	24.27	190	J
23.	UNKNOWN	24.76	180	J
24.	UNKNOWN	24.86	230	J
25. 10486-19-8	TRIDECANAL	25.07	190	NJ
26.	UNKNOWN	25.17	130	J
27.	UNKNOWN	25.79	130	J
28. 1058-61-3	STIGMAST-4-EN-3-ONE	26.03	520	NJ
29.	UNKNOWN	26.50	120	J
30.	UNKNOWN	26.67	170	J

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00H7

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-17

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-17B66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 19 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	16	JB
108-95-2	Phenol	410	U
111-44-4	bis(2-Chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
98-86-2	Acetophenone	410	U
106-44-5	4-Methylphenol	190	J
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	410	U
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	410	U
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	410	U
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	30	J
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	27	J

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00H7

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-17

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-17B66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 19 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Extraction: (Type) SONC

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	14	J
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	410	U
86-73-7	Fluorene	40	J
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	540	
120-12-7	Anthracene	98	J
86-74-8	Carbazole	60	J
84-74-2	Di-n-butylphthalate	410	U
206-44-0	Fluoranthene	1100	
129-00-0	Pyrene	820	
85-68-7	Butylbenzylphthalate	11	J
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	380	J
218-01-9	Chrysene	530	
117-81-7	bis(2-Ethylhexyl)phthalate	120	JB
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	470	
207-08-9	Benzo(k)fluoranthene	440	
50-32-8	Benzo(a)pyrene	460	
193-39-5	Indeno(1,2,3-cd)pyrene	300	J
53-70-3	Dibenzo(a,h)anthracene	110	J
191-24-2	Benzo(g,h,i)perylene	420	

(1) - Cannot be separated from Diphenylamine

1G

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

E00H7

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-17

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G0-17B66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 19 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.2 Extraction: (Type) SONC

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 110-13-4	2,5-HEXANEDIONE	5.96	710	NJ
2. 103-82-2	BENZENEACETIC ACID	9.14	290	NJ
3. 502-69-2	2-PENTADECANONE, 6,10,14-TRI	13.13	320	NJ
4. 203-64-5	4H-CYCLOPENTA[DEF]PHENANTHRE	13.90	280	NJ
5. 2381-21-7	PYRENE, 1-METHYL-	15.49	150	NJ
6. 2765-11-9	PENTADECANAL-	19.16	1300	NJ
7. 57289-07-3	ISOHEPTADECANOL	19.80	860	NJ
8. 198-55-0	PERYLENE	20.19	520	NJ
9.	UNKNOWN	20.76	310	J
10. 638-66-4	OCTADECANAL	20.88	580	NJ
11. 57-88-5	CHOLESTEROL	22.08	330	NJ
12. 638-66-4	OCTADECANAL	22.69	390	NJ
13. 14021-23-9	D-FRIEDOOLEAN-14-ENE, 3-METH	23.36	690	NJ
14.	UNKNOWN	23.53	470	J
15.	UNKNOWN	23.67	320	J
16.	UNKNOWN	23.77	360	J
17.	UNKNOWN	24.21	610	J
18.	UNKNOWN	24.29	570	J
19.	UNKNOWN	24.49	440	J
20.	UNKNOWN	24.58	430	J
21.	UNKNOWN	24.80	600	J
22.	UNKNOWN	24.90	970	J
23.	UNKNOWN	25.10	570	J
24.	UNKNOWN	25.20	580	J
25.	UNKNOWN	25.37	290	J
26.	UNKNOWN	25.46	230	J
27.	UNKNOWN	25.81	500	J
28. 1058-61-3	STIGMAST-4-EN-3-ONE	26.08	1900	NJ
29.	UNKNOWN	26.71	380	J
30.	UNKNOWN	27.18	240	J

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00H8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-18

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-18B66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 27 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	14	JB
108-95-2	Phenol	450	U
111-44-4	bis(2-Chloroethyl)ether	450	U
95-57-8	2-Chlorophenol	450	U
95-48-7	2-Methylphenol	450	U
108-60-1	2,2'-oxybis(1-Chloropropane)	450	U
98-86-2	Acetophenone	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
91-20-3	Naphthalene	450	U
106-47-8	4-Chloroaniline	450	U
87-68-3	Hexachlorobutadiene	450	U
105-60-2	Caprolactam	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
92-52-4	1,1'-Biphenyl	450	U
91-58-7	2-Chloronaphthalene	450	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	450	U
606-20-2	2,6-Dinitrotoluene	450	U
208-96-8	Acenaphthylene	14	J
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	450	U

ID

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00H8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-18

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-18B66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 27 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

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
86-73-7	Fluorene	450	U
7005-72-3	4-Chlorophenyl-phenylether	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
1912-24-9	Atrazine	450	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	100	J
120-12-7	Anthracene	23	J
86-74-8	Carbazole	450	U
84-74-2	Di-n-butylphthalate	450	U
206-44-0	Fluoranthene	240	J
129-00-0	Pyrene	270	J
85-68-7	Butylbenzylphthalate	19	J
91-94-1	3,3'-Dichlorobenzidine	450	U
56-55-3	Benzo(a)anthracene	130	J
218-01-9	Chrysene	170	J
117-81-7	bis(2-Ethylhexyl)phthalate	210	JB
117-84-0	Di-n-octylphthalate	450	U
205-99-2	Benzo(b)fluoranthene	170	J
207-08-9	Benzo(k)fluoranthene	130	J
50-32-8	Benzo(a)pyrene	140	J
193-39-5	Indeno(1,2,3-cd)pyrene	93	J
53-70-3	Dibenzo(a,h)anthracene	36	J
191-24-2	Benzo(g,h,i)perylene	98	J

(1) - Cannot be separated from Diphenylamine

IG

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00H8

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-18

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G0-18B66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 27 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

Number TICs found: 29

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.96	170	J
2.	UNKNOWN	6.11	150	J
3. 1604-34-8	2-UNDECANONE, 6,10-DIMETHYL-	13.12	110	NJ
4.	UNKNOWN	16.01	100	J
5. 0-00-0	1-HEXACOSANAL	19.15	3300	NJ
6.	UNKNOWN PHTHALATE	19.27	270	J
7.	UNKNOWN PHTHALATE	19.54	240	J
8. 112-88-9	1-OCTADECENE	19.79	1100	NJ
9. 638-66-4	OCTADECANAL	20.87	1700	NJ
10.	UNKNOWN	21.18	280	J
11. 0-00-0	2-PENTACOSANONE	21.53	240	NJ
12.	UNKNOWN	21.62	180	J
13. 2765-11-9	PENTADECANAL-	21.72	190	NJ
14. 638-66-4	OCTADECANAL	22.68	430	NJ
15. 14021-23-9	D-FRIEDOOLEAN-14-ENE, 3-METH	23.36	950	NJ
16.	UNKNOWN	23.52	300	J
17.	UNKNOWN	23.64	380	J
18.	UNKNOWN	23.76	200	J
19.	UNKNOWN	24.18	230	J
20.	UNKNOWN	24.28	420	J
21.	UNKNOWN	24.76	250	J
22.	UNKNOWN	24.86	380	J
23.	UNKNOWN	24.98	530	J
24.	UNKNOWN	25.06	880	J
25.	UNKNOWN	25.16	290	J
26.	UNKNOWN	25.79	220	J
27. 58-22-0	TESTOSTERONE	26.04	870	NJ
28.	UNKNOWN	26.67	230	J
29.	UNKNOWN	27.56	620	J
30.				

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00H9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-19

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-19B66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 31 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	180	JB
108-95-2	Phenol	480	U
111-44-4	bis(2-Chloroethyl)ether	480	U
95-57-8	2-Chlorophenol	480	U
95-48-7	2-Methylphenol	480	U
108-60-1	2,2'-oxybis(1-Chloropropane)	480	U
98-86-2	Acetophenone	480	U
106-44-5	4-Methylphenol	480	U
621-64-7	N-Nitroso-di-n-propylamine	480	U
67-72-1	Hexachloroethane	480	U
98-95-3	Nitrobenzene	480	U
78-59-1	Isophorone	480	U
88-75-5	2-Nitrophenol	480	U
105-67-9	2,4-Dimethylphenol	480	U
111-91-1	bis(2-Chloroethoxy)methane	480	U
120-83-2	2,4-Dichlorophenol	480	U
91-20-3	Naphthalene	480	U
106-47-8	4-Chloroaniline	480	U
87-68-3	Hexachlorobutadiene	480	U
105-60-2	Caprolactam	480	U
59-50-7	4-Chloro-3-methylphenol	480	U
91-57-6	2-Methylnaphthalene	23	J
77-47-4	Hexachlorocyclopentadiene	480	U
88-06-2	2,4,6-Trichlorophenol	480	U
95-95-4	2,4,5-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	480	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	480	U
606-20-2	2,6-Dinitrotoluene	480	U
208-96-8	Acenaphthylene	91	J
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	480	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00H9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-19

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-19B66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 31 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

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	480	U
121-14-2	2,4-Dinitrotoluene	480	U
84-66-2	Diethylphthalate	480	U
86-73-7	Fluorene	13	J
7005-72-3	4-Chlorophenyl-phenylether	480	U
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-nitrosodiphenylamine (1)	480	U
101-55-3	4-Bromophenyl-phenylether	480	U
118-74-1	Hexachlorobenzene	480	U
1912-24-9	Atrazine	480	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	160	J
120-12-7	Anthracene	79	J
86-74-8	Carbazole	35	J
84-74-2	Di-n-butylphthalate	480	U
206-44-0	Fluoranthene	580	
129-00-0	Pyrene	460	J
85-68-7	Butylbenzylphthalate	28	J
91-94-1	3,3'-Dichlorobenzidine	480	U
56-55-3	Benzo(a)anthracene	310	J
218-01-9	Chrysene	380	J
117-81-7	bis(2-Ethylhexyl)phthalate	370	JB
117-84-0	Di-n-octylphthalate	480	U
205-99-2	Benzo(b)fluoranthene	400	J
207-08-9	Benzo(k)fluoranthene	290	J
50-32-8	Benzo(a)pyrene	290	J
193-39-5	Indeno(1,2,3-cd)pyrene	180	J
53-70-3	Dibenzo(a,h)anthracene	74	J
191-24-2	Benzo(g,h,i)perylene	140	J

(1) - Cannot be separated from Diphenylamine

IG

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00H9

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-19

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G0-19B66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 31 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.7 Extraction: (Type) SONC

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 243-17-4	11H-BENZO[B]FLUORENE	15.33	140	NJ
2.	BENZOFLUORENE	15.57	130	J
3.	METHYLPYRENE	15.64	200	J
4. 3442-78-2	PYRENE, 2-METHYL-	15.77	150	NJ
5.	UNKNOWN	15.81	110	J
6.	UNKNOWN	15.91	110	J
7.	UNKNOWN	16.01	130	J
8.	UNKNOWN	16.08	130	J
9. 638-66-4	OCTADECANAL	16.18	190	NJ
10.	UNKNOWN	16.23	110	J
11. 82-05-3	7H-BENZ[DE]ANTHRACEN-7-ONE	16.28	170	NJ
12. 239-35-0	BENZO[B]NAPHTHO[2,1-D]THIOPH	16.45	160	NJ
13.	BENZANTHRACENONE	16.63	210	J
14.	UNKNOWN ALDEHYDE	16.75	190	J
15. 82-05-3	7H-BENZ[DE]ANTHRACEN-7-ONE	17.22	140	NJ
16.	UNKNOWN	17.28	130	J
17.	UNKNOWN ALDEHYDE	17.43	120	J
18.	UNKNOWN	17.93	150	J
19. 0-00-0	1-HEXACOSANAL	19.15	750	NJ
20.	UNKNOWN	19.79	500	J
21.	UNKNOWN KETONE	19.93	310	J
22. 192-97-2	BENZO[E]PYRENE	20.18	390	NJ
23. 629-80-1	HEXADECANAL	20.87	520	NJ
24.	UNKNOWN	21.48	300	J
25.	UNKNOWN	21.63	250	J
26.	UNKNOWN	21.95	410	J
27.	UNKNOWN	23.37	880	J
28. 0-00-0	2-PENTACOSANONE	23.54	240	NJ
29.	UNKNOWN	24.30	300	J
30. 1058-61-3	STIGMAST-4-EN-3-ONE	26.04	440	NJ

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J0

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-20

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-20B66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 31 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	30	JB
108-95-2	Phenol	480	U
111-44-4	bis(2-Chloroethyl)ether	480	U
95-57-8	2-Chlorophenol	480	U
95-48-7	2-Methylphenol	480	U
108-60-1	2,2'-oxybis(1-Chloropropane)	480	U
98-86-2	Acetophenone	29	JB
106-44-5	4-Methylphenol	480	U
621-64-7	N-Nitroso-di-n-propylamine	480	U
67-72-1	Hexachloroethane	480	U
98-95-3	Nitrobenzene	480	U
78-59-1	Isophorone	480	U
88-75-5	2-Nitrophenol	480	U
105-67-9	2,4-Dimethylphenol	480	U
111-91-1	bis(2-Chloroethoxy)methane	480	U
120-83-2	2,4-Dichlorophenol	480	U
91-20-3	Naphthalene	480	U
106-47-8	4-Chloroaniline	480	U
87-68-3	Hexachlorobutadiene	480	U
105-60-2	Caprolactam	480	U
59-50-7	4-Chloro-3-methylphenol	480	U
91-57-6	2-Methylnaphthalene	480	U
77-47-4	Hexachlorocyclopentadiene	480	U
88-06-2	2,4,6-Trichlorophenol	480	U
95-95-4	2,4,5-Trichlorophenol	1200	U
92-52-4	1,1'-Biphenyl	480	U
91-58-7	2-Chloronaphthalene	480	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	480	U
606-20-2	2,6-Dinitrotoluene	480	U
208-96-8	Acenaphthylene	12	J
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	480	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00J0

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-20

Sample wt/vol: 30.0(g/mL) G Lab File ID: E00G0-20B66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 31 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

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	480	U
121-14-2	2,4-Dinitrotoluene	480	U
84-66-2	Diethylphthalate	480	U
86-73-7	Fluorene	480	U
7005-72-3	4-Chlorophenyl-phenylether	480	U
100-01-6	4-Nitroaniline	270	J
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-nitrosodiphenylamine (1)	480	U
101-55-3	4-Bromophenyl-phenylether	480	U
118-74-1	Hexachlorobenzene	480	U
1912-24-9	Atrazine	480	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	63	J
120-12-7	Anthracene	22	J
86-74-8	Carbazole	13	J
84-74-2	Di-n-butylphthalate	39	J
206-44-0	Fluoranthene	150	J
129-00-0	Pyrene	130	J
85-68-7	Butylbenzylphthalate	20	J
91-94-1	3,3'-Dichlorobenzidine	480	U
56-55-3	Benzo(a)anthracene	70	J
218-01-9	Chrysene	100	J
117-81-7	bis(2-Ethylhexyl)phthalate	210	JB
117-84-0	Di-n-octylphthalate	480	U
205-99-2	Benzo(b)fluoranthene	88	J
207-08-9	Benzo(k)fluoranthene	95	J
50-32-8	Benzo(a)pyrene	83	J
193-39-5	Indeno(1,2,3-cd)pyrene	52	J
53-70-3	Dibenzo(a,h)anthracene	20	J
191-24-2	Benzo(g,h,i)perylene	61	J

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00J0

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: E00G0-20

Sample wt/vol: 30.0 (g/mL) G Lab File ID: E00G0-20B66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 31 Decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/28/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

Number TICs found: 28

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 3442-78-2	PYRENE, 2-METHYL-	15.64	210	NJ
2.	UNKNOWN	15.97	170	J
3.	UNKNOWN	16.01	130	J
4.	UNKNOWN	16.08	130	J
5.	BENZANTHRACENONE	16.28	170	J
6.	UNKNOWN	16.63	130	J
7.	UNKNOWN	17.26	190	J
8.	UNKNOWN	17.43	130	J
9.	UNKNOWN	17.48	140	J
10.	UNKNOWN	18.12	160	J
11.	UNKNOWN	19.12	240	J
12. 18435-45-5	1-NONADECENE	19.79	310	NJ
13.	UNKNOWN KETONE	19.93	270	J
14. 50-32-8	BENZO[A]PYRENE	20.18	270	NJ
15.	UNKNOWN	20.25	310	J
16.	UNKNOWN	20.57	280	J
17.	UNKNOWN	20.72	270	J
18.	UNKNOWN	20.89	270	J
19.	UNKNOWN	21.04	270	J
20. 6410-10-2	2-NAPHTHALENOL, 1-[(4-NITROP	21.46	540	NJ
21.	UNKNOWN KETONE	21.53	350	J
22. 53584-60-4	28-NOR-17.ALPHA.(H)-HOPANE	21.63	500	NJ
23.	UNKNOWN	22.39	210	J
24. 14021-23-9	D-FRIEDOOLEAN-14-ENE, 3-METH	23.39	1100	NJ
25.	UNKNOWN	23.54	210	J
26.	UNKNOWN	23.68	310	J
27.	UNKNOWN	24.30	290	J
28. 1058-61-3	STIGMAST-4-EN-3-ONE	26.06	310	NJ
29.				
30.				

FORM I SV-TIC OLM04.2

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKFE

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: WG14286-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG14286-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	5	J
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
98-86-2	Acetophenone	11	J
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
92-52-4	1,1'-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKFE

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: WG14286-1

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG14286-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
1912-24-9	Atrazine	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	79	J
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenzo(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKFE

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: WG14286-1

Sample wt/vol: 30.0 (g/mL) G Lab File ID: WG14286-1A66

Level: (low/med) LOW Date Received: _____

% Moisture: _____ Decanted: (Y/N)___ Date Extracted:11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ___ Extraction: (Type) SONC

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN (BC)	8.24	85	J
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.				

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G6MS

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: WG14286-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG14286-2A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 23 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	9	JB
108-95-2	Phenol	1700	
111-44-4	bis(2-Chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	1700	
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
98-86-2	Acetophenone	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-di-n-propylamine	1400	
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	430	U
59-50-7	4-Chloro-3-methylphenol	1700	
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	1100	U
92-52-4	1,1'-Biphenyl	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	430	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	1300	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G6MS

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: WG14286-2

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG14286-2A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 23 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

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	1900	
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	1300	
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	1000	J
85-01-8	Phenanthrene	57	J
120-12-7	Anthracene	11	J
86-74-8	Carbazole	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	140	J
129-00-0	Pyrene	1500	
85-68-7	Butylbenzylphthalate	12	J
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	62	J
218-01-9	Chrysene	93	J
117-81-7	bis(2-Ethylhexyl)phthalate	360	JB
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	99	J
207-08-9	Benzo(k)fluoranthene	83	J
50-32-8	Benzo(a)pyrene	80	J
193-39-5	Indeno(1,2,3-cd)pyrene	53	J
53-70-3	Dibenzo(a,h)anthracene	20	J
191-24-2	Benzo(g,h,i)perylene	430	U

(1) - Cannot be separated from Diphenylamine

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G6MSD

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: WG14286-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG14286-3A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 23 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	6	JB
108-95-2	Phenol	1900	
111-44-4	bis(2-Chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	1900	
95-48-7	2-Methylphenol	430	U
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
98-86-2	Acetophenone	430	U
106-44-5	4-Methylphenol	430	U
621-64-7	N-Nitroso-di-n-propylamine	1400	
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	430	U
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	430	U
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	430	U
59-50-7	4-Chloro-3-methylphenol	1900	
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	1100	U
92-52-4	1,1'-Biphenyl	430	U
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	430	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	1400	

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00G6MSD

Lab Name: COMPUCHEM Contract: 68W99071

Lab Code: LIBRTY Case No.: 29954 SAS No.: SDG No.: E00G0

Matrix: (soil/water) SOIL Lab Sample ID: WG14286-3

Sample wt/vol: 30.0(g/mL) G Lab File ID: WG14286-3A66

Level: (low/med) LOW Date Received: 11/08/01

% Moisture: 23 decanted: (Y/N) N Date Extracted: 11/17/01

Concentrated Extract Volume: 500(uL) Date Analyzed: 11/27/01

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4 Extraction: (Type) SONC

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	2200	
132-64-9	Dibenzofuran	430	U
121-14-2	2,4-Dinitrotoluene	1400	
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	430	U
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	1100	
85-01-8	Phenanthrene	64	J
120-12-7	Anthracene	12	J
86-74-8	Carbazole	430	U
84-74-2	Di-n-butylphthalate	430	U
206-44-0	Fluoranthene	160	J
129-00-0	Pyrene	1600	
85-68-7	Butylbenzylphthalate	17	J
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	69	J
218-01-9	Chrysene	100	J
117-81-7	bis(2-Ethylhexyl)phthalate	110	JB
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	96	J
207-08-9	Benzo(k)fluoranthene	95	J
50-32-8	Benzo(a)pyrene	89	J
193-39-5	Indeno(1,2,3-cd)pyrene	57	J
53-70-3	Dibenzo(a,h)anthracene	30	J
191-24-2	Benzo(g,h,i)perylene	430	U

(1) - Cannot be separated from Diphenylamine