

**INSTALLATION RESTORATION  
PROGRAM (IRP) SITE  
INVESTIGATION FOR IRP SITE No. 1**

**VOLUME II  
APPENDICES A-H**

**101st AIR CONTROL SQUADRON  
MASSACHUSETTS AIR NATIONAL GUARD  
WORCESTER AIR NATIONAL GUARD STATION  
WORCESTER, MASSACHUSETTS**

**JANUARY 1995**



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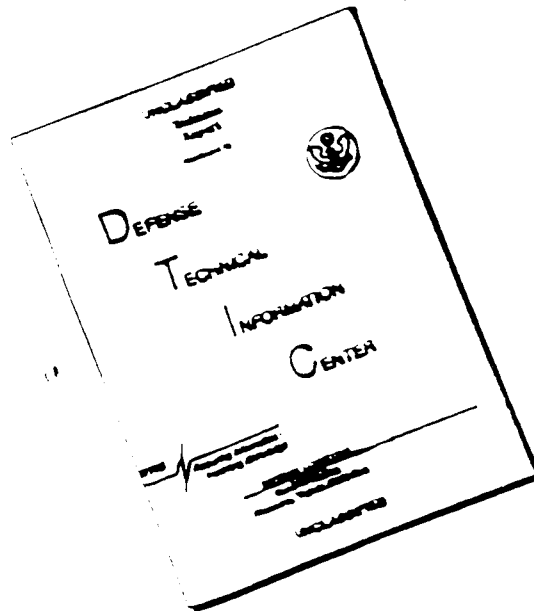
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*Prepared For*  
**AIR NATIONAL GUARD READINESS CENTER  
ANDREWS AFB, MARYLAND**

# REPORT DOCUMENTATION PAGE

1. AGENCY USE ONLY (Leave Blank)		2. REPORT DATE Jan 95	3. REPORT TYPE AND DATES COVERED SI for IRP / Jan 95	
4. TITLE AND SUBTITLE Installation Restoration Program(IRP) Site Investigation for IRP Site No. 1 <del>Vol I, and</del> Vol II Appendices A-H 101st ACS, Worcester ANGS			5. FUNDING NUMBERS	
6. AUTHOR(S) OPTEC				
7. PERFORMING ORGANIZATION NAMES(S) AND ADDRESS(ES) Operational Technologies Corporation 4100 N.W. Loop 410, Suite 230 San antonio, Texas 78229-4253			8. REPORTING ORGANIZATION REPORT NUMBER	
9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES) ANGRC/CEVR 3500 Fetchet Avenue Andrews AFB, MD 20331			10. SPONSORING / MONITORING AGENCY REPORT NUMBER	
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12a. DISTRIBUTION / AVAILABILITY STATEMENT  Approved for public release; distribution is unlimited			12b. DISTRIBUTION CODE	
13. ABSTRACT ( <i>Maximum 200 words</i> ) A Site Investigation (SI) was conducted at the Old Embankment/Vicinity of the old Waste Holding Area at Installation Restoration Program (IRP) Site No. 1 located at the 101st Air Control Squadron (ACS) and the 212th Engineering Installation Squadron (EIS), Massachusetts Air National Guard (MASS ANG), Worcester, MA. Volatile Organic Compounds (VOC) concentrations detected did not exceed Massachusetts Soil Standards and PCBs were not detected. However, semivolatile organic compound, metals, and petroleum hydrocarbons were detected above reportable concentrations. Additional background sampling and a Remedial Investigation / Feasibility Study (RI/FS) were recommended to determine the nature and extent of contamination.				
14. SUBJECT TERMS    IRP (Installation Restoration Program), CEVR, 101st ACS, Worcester ANGS , Massachusetts, ANGRCA(Air National Guard Readiness Center), SI(Site Investigation Report)			15. NUMBER OF PAGES 88 + 432 = 520	
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*Prepared By*

**Operational Technologies Corporation  
4100 N.W. Loop 410, Suite 230  
San Antonio, Texas 78229-4253  
(210) 731-0000**

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**APPENDIX A**  
**BORING LOGS**

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# KEY TO BORING LOG SYMBOLS

UNIFIED SOIL CLASSIFICATION SYSTEM - ASTM D2487				SYMBOL/ GRAPHIC	DESCRIPTIONS
MAJOR DIVISIONS					
COARSE-GRAINED SOILS (>50% Smaller Than #200 Sieve)	GRAVELS  (More than 50% of coarse fraction is larger than the #4 sieve size.)	Clean gravels with little or no fines	GW		Well-Graded Gravels, Gravel - Sand Mixtures
		Gravels with over 12% fines	GP		Poorly Graded Gravels, Gravels - Sand Mixtures
			GM		Silty Gravels, Poorly Graded Gravel-Sand-Clay Mixtures
		GC		Clayey Gravels, Poorly Graded Gravel-Sand-Clay Mixtures	
	SANDS  (More than 50% of coarse fraction is smaller than the #4 sieve size.)	Clean sands with little or no fines	SW		Well-Graded Sands, Gravelly Sands
			SP		Poorly Graded Sands, Gravelly Sands
		Sands with over 12% fines	SM		Silty Sands, Poorly Graded Sand-Silt Mixtures
			SC		Clayey Sands, Poorly Graded Sand-Clay Mixtures
FINE-GRAINED SOILS (>50% Smaller Than #200 Sieve)	SILTS AND CLAYS  (Liquid limit less than 50)		ML		Inorganic Silts and Very Fine Sands, Silty or Clayey Fine Sands
			CL		Inorganic Clays of Low to Medium Plasticity; Gravelly, Sandy or Silty Clays; Lean Clays
			OL		Organic Clays and Organic Silty Clays of Low Plasticity
	SILTS AND CLAYS  (Liquid limit greater than 50)		MH		Inorganic Silts, Micaceous or Diatomaceous Fine Sandy or Silty Soils, Elastic Silts
			CH		Inorganic Clays of High Plasticity Fat Clays
			OH		Organic Clays of Medium to High Plasticity, Organic Silts
HIGHLY ORGANIC SOILS			Pt		Peat and Other Highly Organic Soils

- Sample retained for on-site screening.
- Sample prepared for laboratory analysis.
- Water Table Level
- PID Photo-Ionization Detector readings (ppm)

	Asphaltic Concrete
	Portland Cement Concrete
	Cement Grout
	Boulders or Bedrock

DRAFT  
FIGURE A.1

KEY TO BORING LOG  
101st Air Control Squadron  
Worcester Air National Guard Station  
Worcester, Massachusetts

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Worcester Air National Guard Station


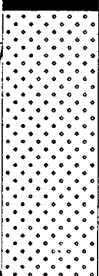
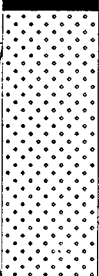






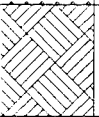
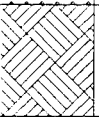
Worcester, Massachusetts

**O P T E C H**

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CORPORATION**

**LOG OF BORING 01-006BH**

Project No.:	1315-113	Sampling Method:	California Style Sampler
Logged By:	Earl Parker	Depth Drilled:	7.75 ft.
Drilling Co.:	Technical Drilling Services	Depth To Water:	Not Encountered
Driller:	Pete Newsham	Date Measured:	NA
Date Drilled:	11/17/93	Surface Elevation:	764.3 ft.
Drilling Method:	Hollow Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING			
						PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
					Asphalt at surface.				
28 31 39		0			Fill, well graded, coarse sand, silt, dark brown, angular boulder and gravel, little clay, moist.	-	-	-	-
					Gravel interval.				
4 16 21		65			Fill, well graded, coarse sand, silt, dark brown, angular boulder and gravel, little clay, moist.	1.9	2.2	6.69	6.69
5									
8 16 50		70			Sand, medium to fine, dark brown, angular gravel and cobbles, wet.	8.0	-	-	-
Boring Terminated at 7.75 ft.									







Worcester Air National Guard Station

Worcester, Massachusetts

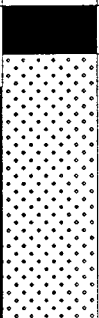
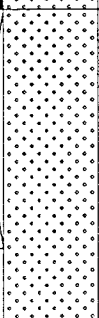
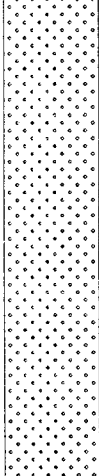

**O P T E C H**

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**LOG OF BORING 01-003BH**


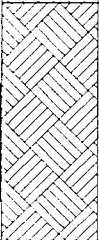
Project No.: 1315-113  
 Logged By: Earl Parker  
 Drilling Co.: Technical Drilling Services  
 Driller: Pete Newsham  
 Date Drilled: 11/16/93  
 Drilling Method: Hollow Stem Auger

Sampling Method: California Style Sampler  
 Depth Drilled: 7.75 ft.  
 Depth To Water: Not Encountered  
 Date Measured: NA  
 Surface Elevation: 765.0 ft.

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING			
						PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
					Asphalt at surface.				
8 10 12		80			Well graded fill, brown sand, some fine sand with silt (10%). Some clay particles.	62.7	5.5	ND	ND
18 24 20		70			Poorly sorted fill, medium to coarse sand, and angular gravel. Some large angular rocks. Trace silt (10%).	4.2	-	14.57	ND
28 31 43		0				2.3	-	-	-
5 4 50 NA		60			Medium sand with fines and silt, brown to light brown, slightly moist, few gravel.	17.5	-	-	-
Boring Terminated at 7.75 ft.									

**LOG OF BORING 01-004BH**

Project No.:	1315-113	Sampling Method:	California Style Sampler
Logged By:	Earl Parker	Depth Drilled:	6.0 ft.
Drilling Co.:	Technical Drilling Services	Depth To Water:	Not Encountered
Driller:	Pete Newsham	Date Measured:	NA
Date Drilled:	11/17/93	Surface Elevation:	768.0 ft.
Drilling Method:	Hollow Stem Auger		



Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING			
						PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
					Asphalt at surface.				
16 27 20		75			Fill, well graded, medium to fine sand gravel particles, trace silt, slightly cohesive, moist.	3.1	1.6	ND	ND
5	5 8 50	70			Fill, well graded, medium to fine sand, brown, cohesive, some angular gravels and cobbles, moist.	1.3	1.3	ND	ND
					Boring Terminated at 6.0 ft.				

Worcester Air National Guard Station  
 Worcester, Massachusetts

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**LOG OF BORING 01-005BH**

Project No.:	1315-113	Sampling Method:	California Style Sampler
Logged By:	Earl Parker	Depth Drilled:	7.5 ft.
Drilling Co.:	Technical Drilling Services	Depth To Water:	Not Encountered
Driller:	Pete Newsham	Date Measured:	NA
Date Drilled:	11/17/93	Surface Elevation:	765.9 ft.
Drilling Method:	Hollow Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING			
						PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
					Asphalt at surface.				
7 14 17		75			Fill, well graded, coarse to medium sand, light brown, with some fine sand, silt, and gravel.	2.3	1.4	ND	ND
3 4 50		75			Sand and silt, brown, angular gravel, granite, and clay, moist.	1.7	2.7	17.03	17.03
Boring Terminated at 7.50 ft.									













Worcester Air National Guard Station

Worcester, Massachusetts

**O P T E C H**

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**LOG OF BORING 01-012BH**

Project No.:	1315-113	Sampling Method:	California Style Sampler
Logged By:	Earl Parker	Depth Drilled:	7.0 ft.
Drilling Co.:	Technical Drilling Services	Depth To Water:	Not Encountered
Driller:	Pete Newsham	Date Measured:	NA
Date Drilled:	11/16/93	Surface Elevation:	768.1 ft.
Drilling Method:	Hollow Stem Auger		

Depth (ft.)	Blows/6"	% Recovery	Samples	Graphic	DESCRIPTION OF MATERIALS	FIELD SCREENING			
						PID (ppm)	ATHA (ppm)	BTEX (ppb)	Benzene (ppb)
					Asphalt.				
24 28 41	75				Fill, well graded, medium to fine sand and silt, clay, gray to gray brown.	3.5	-	ND	ND
29 27 42	60				Coarse to fine sand. Mostly fine with some silt.	-	-	ND	ND
5									
12 10 17	70				Fill, medium to fine sand, few angular to rounded gravel, coarse sand with black staining, light petroleum odor, moist.	5.7	47.3	77.74	ND
					Boring Terminated at 7.0 ft.				







**APPENDIX B**

**FIELD GC SCREENING RESULTS**

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**Table B.1**  
**Field GC Screening Results – Soil**  
**Worcester Air National Guard Station, Worcester, Massachusetts**

Drilling Locations/Intervals	Sample Weight (gr)	Field GC Data				Total BTEX (ppb)
		Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	O-Xylene (ppb)	
<u>01-001BH</u> 0.5 – 2.0	10	ND	ND	ND	ND	ND
<u>01-002BH</u> 05 – 2.0	10	ND	ND	ND	ND	ND
<u>01-003BH</u> 0.5 – 1.5 2.0 – 3.5	10 10	ND ND	ND 14.57	ND ND	ND ND	ND 14.57
<u>01-004BH</u> 0.5 – 1.5 5.0 – 6.5	10 10	ND ND	ND ND	ND ND	ND ND	ND ND
<u>01-005BH</u> 0.5 – 2.0 6.0 – 7.6	10 10	ND 17.03	ND ND	ND ND	ND ND	ND 17.03
<u>01-006BH</u> 4.0 – 5.5	10	6.69	ND	ND	ND	6.69
<u>01-007BH</u> 0.0 – 1.0 1.0 – 2.0	10 10	ND ND	ND ND	ND ND	ND ND	ND ND
<u>01-009BH</u> 0.5 – 1.0	10	6.53	18.62	ND	ND	25.15
<u>01-010BH</u> 0.0 – 1.0	10	ND	ND	ND	ND	ND
<u>01-011BH</u> 0.0 – 1.0	10	ND	20.0	ND	ND	20.0
<u>01-012BH</u> 2.0 – 2.7 0.5 – 1.5 5.5 – 7.0	10 10 10	ND ND ND	ND ND ND	ND ND 39.88	ND ND 37.86	ND ND 77.74
<u>01-013BH</u> 0.5 – 1.5	10	ND	ND	ND	ND	ND
<u>01-014BH</u> 0.5 – 1.5	10	ND	ND	ND	ND	ND
<u>01-015BH</u> 0.0 – 1.0	10	ND	23.1	ND	ND	23.1

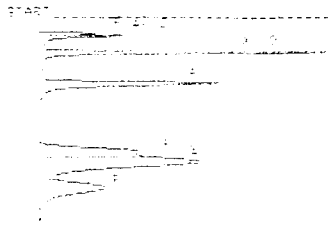
No soil sample analyzed at 01-008BH due to insufficient recovery.

gr – grams.

ppb – parts per billion.

ND – Not Detected.

PHOTOVAC



STOP # 500.0  
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ANALYSIS # 3 JERRY ARRIAGA  
INTERNAL TEMP 17 WORCESTER  
GAIN 2 1 PPM BTX

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.2	460.5 mV
UNKNOWN	2	28.2	281.2 mV
UNKNOWN	3	53.7	4.0 US
UNKNOWN	4	102.4	4.0 US
UNKNOWN	5	210.0	3.0 US
UNKNOWN	6	224.4	5.7 US
UNKNOWN	7	265.4	4.3 US

PHOTOVAC

1	COMPOUND	ID #	R.T.	LIMIT
	BENZENE	1	53.7	1.000 PPM
	TOLUENE	2	102.4	1.000 PPM
	ETHYLBENZENE	3	210.0	1.000 PPM
	m-P XYLENE	4	224.4	1.000 PPM
	p-XYLENE	5	265.4	1.000 PPM

PHOTOVAC

START

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ANALYSIS # 4 JERRY ARRIAGA  
INTERNAL TEMP 17 WORCESTER  
GAIN 2 01-0018H 0.5-2.0

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.2	2.7 US
UNKNOWN	2	27.3	2.5 US

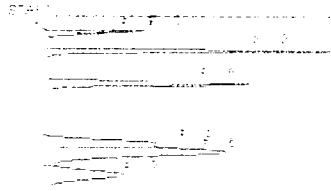
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ANALYSIS # 5 JERRY ARRIAGA  
INTERNAL TEMP 24 WORCESTER  
GAIN 2 01-0028H 0.5-2.0

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.2	301.4 mV
UNKNOWN	2	27.1	281.6 mV

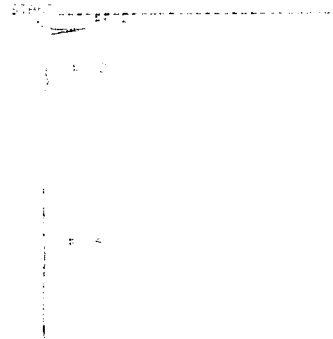
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ANALYSIS # 7 JERRY ARRIAGA  
INTERNAL TEMP 25 WORCESTER  
GAIN 2 1.0 PPM STANDARD

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.7	872.5 µUS
UNKNOWN	2	26.9	5421.9 µUS
BENZENE	3	80.9	1.310 PPM
TOLUENE	4	100.4	1.106 PPM
ETHYLBENZENE	5	193.7	1.023 PPM
ETHYLBENZENE	6	203.4	2.502 PPM
D-XYLENE	7	245.1	1.182 PPM

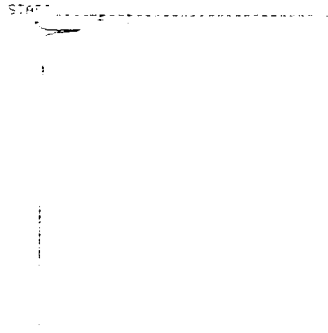
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ANALYSIS # 6 JERRY ARRIAGA  
INTERNAL TEMP 25 WORCESTER  
GAIN 2 01-003BH 0.5-1.5

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	23.4	195.1 µUS

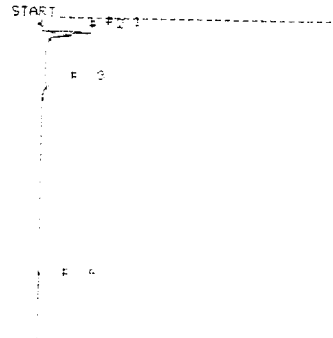
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ANALYSIS # 8 JERRY ARRIAGA  
INTERNAL TEMP 26 WORCESTER  
GAIN 2 AIR BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.9	181.0 µUS

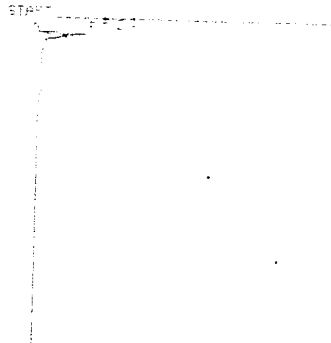
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ANALYSIS # 9 JERRY ARRIAGA  
INTERNAL TEMP 26 WORCESTER  
GAIN 2 01-003BH 2.0-3.5

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.9	284.0 µUS
TOLUENE	3	111.4	14.59 PPM
UNKNOWN	4	516.8	63.0 µUS

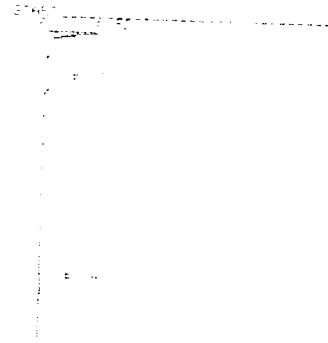
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 ANALYSIS # 11 JERRY ARRIAGA  
 INTERNAL TEMP 26 WORCESTER  
 GAIN 2 01-012BH 0.5-1.5

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	25.3	266.3 μUS

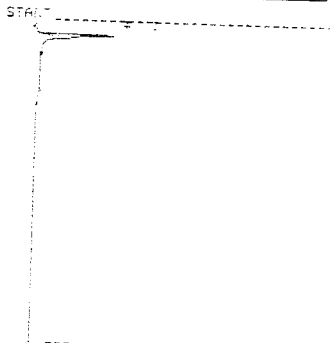
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 ANALYSIS # 13 JERRY ARRIAGA  
 INTERNAL TEMP 26 WORCESTER  
 GAIN 2 INTERVAL 3

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.6	292.0 μUS
TOLUENE	2	110.0	10.97 μUS
UNKNOWN	4	416.8	96.1 μUS

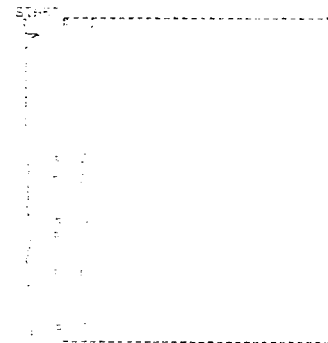
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 ANALYSIS # 10 JERRY ARRIAGA  
 INTERNAL TEMP 26 WORCESTER  
 GAIN 2 01-012BH 2.0-2.2

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	27.1	491.7 μUS

PHOTOVAC



STOP @ 500.0  
 SAMPLE LIBRARY 1 NOV 18 1993 11:11  
 ANALYSIS # 10 JERRY ARRIAGA  
 INTERNAL TEMP 25 WORCESTER  
 GAIN 2 01-012BH 5.5-2.0

COMPOUND NAME	PEAK	R.T.	AREA/PPM
ETHYLBENZENE	2	27.1	56.80 μUS
CHLORENE	4	224.0	21.67 μUS
UNKNOWN	2	413.5	297.0 μUS

PHOTOVAC

START



STOP # 500.0  
SAMPLE LIBRARY 1 NOV 17 1993 22:49  
ANALYSIS # 1 JERRY ARRIAGA  
INTERNAL TEMP 22 WORCESTER  
GAIN 2 1.0 PPM STANDARD

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	63.5	8.0 US
UNKNOWN	2	126.0	4.3 US
UNKNOWN	3	254.9	4.3 US
UNKNOWN	4	273.8	3.5 US
UNKNOWN	5	323.2	4.3 US

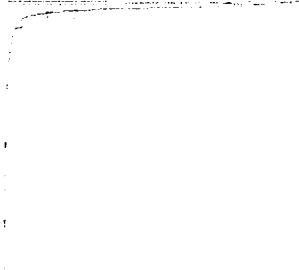
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1 COMPOUND ID # R.T. LIMIT

BENZENE	1	63.5	1.000 PPM
TOLUENE	2	126.0	1.000 PPM
ETHYLBENZENE	3	254.9	1.000 PPM
m-P XYLENE	4	273.8	1.000 PPM
O-XYLENE	5	323.2	1.000 PPM

PHOTOVAC

START



STOP # 500.0  
SAMPLE LIBRARY 1 NOV 17 1993 22:52  
ANALYSIS # 2 JERRY ARRIAGA  
INTERNAL TEMP 24 WORCESTER  
GAIN 2 AIR BLANK

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	63.5	5.1 US
UNKNOWN	2	126.0	5.2 US
BENZENE	3	63.5	1.000 PPM

PHOTOVAC

START

STOP # 500.0  
SAMPLE LIBRARY 1 NOV 16 1993 2:27  
ANALYSIS # 7 JERRY ARRIAGA  
INTERNAL TEMP 25 WORCESTER  
GAIN 2 01-0048h INT 1

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	273.2	184.2 #US

PHOTOVAC

START

STOP # 500.0  
SAMPLE LIBRARY 1 NOV 16 1993 2:16  
ANALYSIS # 6 JERRY ARRIAGA  
INTERNAL TEMP 25 WORCESTER  
GAIN 2 01-0048h 0.5-1.5

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	273.2	176.0 #US

PHOTOVAC

START

-----

STOP

STOP @ 400.0  
SAMPLE LIBRARY 1 NOV 16 1993 22:28  
ANALYSIS # 2 JERRY ARRIAGA  
INTERNAL TEMP 24 WORCESTER  
GAIN 2 1.0000 STANDARD

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	24.6	344.0
UNKNOWN	2	28.3	890.9
UNKNOWN	3	69.1	2.3
UNKNOWN	4	134.6	1.6
UNKNOWN	5	270.3	1.1
UNKNOWN	6	280.7	0.7
UNKNOWN	7	343.0	1.0

PHOTOVAC

1 COMPOUND ID # R.T. LIMIT

BENZENE	1	69.1	1.000 PPM
TOLUENE	2	134.6	1.000 PPM
ETHYLBENZENE	3	270.3	1.000 PPM
M-P XYLENE	4	280.7	1.000 PPM
O-XYLENE	5	343.0	1.000 PPM

PHOTOVAC

START

-----

STOP

STOP @ 500.0  
SAMPLE LIBRARY 1 NOV 16 1993 22:40  
ANALYSIS # 3 JERRY ARRIAGA  
INTERNAL TEMP 24 WORCESTER  
GAIN 2 01-0070H 0.0-1.0

COMPOUND NAME PEAK R.T. AREA/PPM

PHOTOVAC

START

-----

STOP

STOP @ 500.0  
SAMPLE LIBRARY 1 NOV 16 1993 22:48  
ANALYSIS # 4 JERRY ARRIAGA  
INTERNAL TEMP 24 WORCESTER  
GAIN 2 01-0070H 1.0-2.0

COMPOUND NAME PEAK R.T. AREA/PPM

PHOTOVAC

START

STOP # 500.0  
SAMPLE LIBRARY 1 NOV 16 1993 0:36  
ANALYSIS # 8 JERRY ARRIAGA  
INTERNAL TEMP 25 WORCESTER  
GAIN 2 01-005BH INT 1

COMPOUND NAME PEAK R.T. AREA/PPM  
UNKNOWN 1 47.1 205.1 #US

PHOTOVAC

START

STOP # 500.0  
SAMPLE LIBRARY 1 NOV 17 1993 23:56  
ANALYSIS # 4 JERRY ARRIAGA  
INTERNAL TEMP 24 WORCESTER  
GAIN 2 01-006BH 4.0-5.5

COMPOUND NAME PEAK R.T. AREA/PPM  
UNKNOWN 1 26.0 1.9 US  
UNKNOWN 3 42.5 252.1 #US  
BENZENE 4 65.3 6.686 PPE

PHOTOVAC

START

STOP # 500.0  
SAMPLE LIBRARY 1 NOV 18 1993 0:6  
ANALYSIS # 5 JERRY ARRIAGA  
INTERNAL TEMP 25 WORCESTER  
GAIN 2 01-025BH INT 2

COMPOUND NAME PEAK R.T. AREA/PPM  
UNKNOWN 1 47.1 205.1 #US  
UNKNOWN 3 42.5 252.1 #US  
BENZENE 4 65.3 6.686 PPE

PHOTOVAC

START

-----  
 STOP # 500.0  
 SAMPLE LIBRARY 1 NOV 18 1993 1:43  
 ANALYSIS # 9 JERRY ARRIAGA  
 INTERNAL TEMP 25 WORCESTER  
 GAIN 2 01-0100H INT 1

-----  
 COMPOUND NAME PEAK R.T. AREA/PPM

UNKNOWN 1 16.8 204.6 #US  
 UNKNOWN 2 29.0 81.8 #US

PHOTOVAC

START

-----  
 STOP # 500.0  
 SAMPLE LIBRARY 1 NOV 18 1993 1:12  
 ANALYSIS # 11 JERRY ARRIAGA  
 INTERNAL TEMP 25 WORCESTER  
 GAIN 2 01-0130H 0.5-1.5

-----  
 COMPOUND NAME PEAK R.T. AREA/PPM

UNKNOWN 1 22.6 145.5 #US

PHOTOVAC

START

-----  
 STOP # 500.0  
 SAMPLE LIBRARY 1 NOV 19 1993 0:52  
 ANALYSIS # 9 JERRY ARRIAGA  
 INTERNAL TEMP 25 WORCESTER  
 GAIN 2 01-0100H INT 1

-----  
 COMPOUND NAME PEAK R.T. AREA/PPM

UNKNOWN 1 21.0 245.0 #US

PHOTOVAC

START

-----  
 STOP # 500.0  
 SAMPLE LIBRARY 1 NOV 18 1993 1:23  
 ANALYSIS # 12 JERRY ARRIAGA  
 INTERNAL TEMP 25 WORCESTER  
 GAIN 2 01-0100H 0.5-1.5

-----  
 COMPOUND NAME PEAK R.T. AREA/PPM

UNKNOWN 2 40.0 226.0 #US



PHOTOVAC

START .....  
.....  
.....



STOP # 424.8  
SAMPLE LIBRARY 1 NOV 18 1993 22:57  
ANALYSIS # 5 JERRY ARRAGA  
INTERNAL TEMP 25 WORCESTER  
GAIN 20 1.0PPM GAIN 20

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.2	11.7 US
UNKNOWN	2	33.9	641.1 US
BENZENE	4	63.7	592.0 PPF
TOLUENE	6	137.2	340.6 PPF
ETHYLBENZENE	7	274.5	483.1 PPF
M-P XYLENE	8	295.5	542.0 PPF
O-XYLENE	9	343.4	586.7 PPF

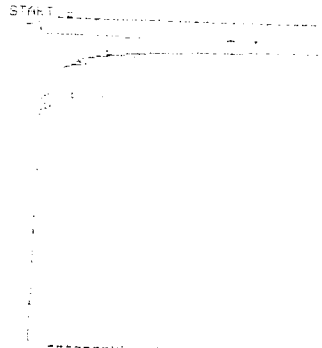
PHOTOVAC

UNIDENTIFIED PEAK 11.7 US

SAMPLE LIBRARY 1 NOV 18 1993 23:0  
ANALYSIS # 5 JERRY ARRAGA  
INTERNAL TEMP 24 WORCESTER  
GAIN 20 1.0PPM GAIN 20

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	26.2	11.7 US
UNKNOWN	2	33.9	641.1 PPF
BENZENE	4	63.7	1100.0 PPF
TOLUENE	6	137.2	1100.0 PPF
ETHYLBENZENE	7	274.5	240.7 PPF
M-P XYLENE	8	295.5	350.8 PPF
O-XYLENE	9	343.4	1100.0 PPF

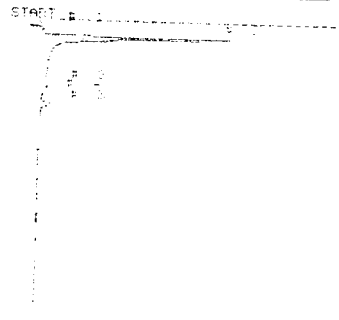
PHOTOVAC



STOP # 500.0  
SAMPLE LIBRARY 1 NOV 18 1993 23:9  
ANALYSIS # 6 JERRY ARRAGA  
INTERNAL TEMP 25 WORCESTER  
GAIN 20 01-009BH 0.5-1.0

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	16.1	50.5 US
UNKNOWN	2	33.4	61.3 US
BENZENE	3	63.5	6.520 PPF
TOLUENE	4	137.2	16.62 PPF

PHOTOVAC



STOP # 500.0  
SAMPLE LIBRARY 1 NOV 18 1993 23:19  
ANALYSIS # 7 JERRY ARRAGA  
INTERNAL TEMP 25 WORCESTER  
GAIN 20 01-011BH 0.0-1.0

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	16.1	11.7 US
TOLUENE	5	137.2	20.06 PPF

PHOTOCAP

STATION: ...  
...  
...

-----  
STOP @ 500.0  
SAMPLE LIBRARY 1 NOV 18 1993 23:26  
ANALYSIS # 6 JERRY ARRIAGA  
INTERNAL TEMP 25 WORCESTER  
GAIN 20 2:-0150H 0.0-1.0

COMPOUND NAME	PEAK	R.T.	AREA/PPM
UNKNOWN	1	29.4	1.8 MP
UNKNOWN	2	29.0	504.0 MP
TOLUENE	6	107.6	20.19 PPM

**APPENDIX C**

**CHEMICAL ANALYSES RESULTS FOR QUALITY  
ASSURANCE/QUALITY CONTROL SAMPLE**

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15 Belmont Street  
 Worcester, MA 01605-2395  
 DEP Certification MA #082  
 (508) 753-3738

Page 1 of 2

=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7315 REVET Account No.: E2014  
 Client Sample: 01-015 BH, DUP Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Sampled: 11/18/93 Date Received: 11/18/93  
 Matrix: Soil Date Run: 11/24/93  
 Method: 8240 Dilution Factor: 1.1

Analyst: A. Wolf Date: 12-14-93  
 A. WOLF

QC Check: J. Paquin Date: 12/14/93

CAS Number	Compound	EPA Method		RESULTS**
		Detection Limits	for this sample*	
		ug/kg		ug/kg
74-87-3	Chloromethane	11	R	ND
74-83-9	Bromomethane	11	E	ND
75-01-4	Vinyl Chloride	11	V	ND
75-00-3	Chloroethane	11	E	ND
75-09-2	Methylene chloride	5	T	ND
67-64-1	Acetone	11		ND
75-15-0	Carbon disulfide	5	E	ND
75-35-4	1,1-Dichloroethene	5	N	ND
75-34-3	1,1-Dichloroethane	5	V	ND
156-60-5	1,2-dichloroethenes(total)	5	I	ND
67-66-3	Chloroform	5	R	ND
107-06-2	1,2-Dichloroethane	5	O	ND
78-93-3	2-Butanone (MEK)	11	N	ND
71-55-6	1,1,1-Trichloroethane	5	M	ND
56-23-5	Carbon tetrachloride	5	E	ND
75-27-4	Bromodichloromethane	5	N	ND
78-87-5	1,2-Dichloropropane	5	T	ND
10061-01-5	cis-1,3-Dichloropropene	5	A	ND
79-01-6	Trichloroethylene	5	L	ND
124-48-1	Dibromochloromethane	5		ND
79-00-5	1,1,2-Trichloroethane	5	L	ND
71-43-2	Benzene	5	A	ND
10061-02-6	trans-1,3-Dichloropropene	5	B	ND
75-25-2	Bromoform	11	O	ND
108-10-1	4-Methyl-2-pentanone	11	R	ND
591-78-6	2-Hexanone	11	A	ND
127-18-4	Tetrachloroethylene	5	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	O	ND
108-88-3	Toluene	5	R	ND
108-90-7	Chlorobenzene	5	Y	ND
100-41-4	Ethylbenzene	5		ND

=====

REVET Sample No.: 7315		EPA Method	RESULTS**
		Detection Limits	
		for this sample*	
CAS Number	Compound	ug/kg	ug/kg
100-42-5	Styrene	5	ND
1330-20-7	Total xylenes	5	ND
108-05-4	Vinyl Acetate	5	ND
541-73-1	1,3-Dichlorobenzene	11	ND
-----	1,2- & 1,4-Dichlorobenzene	11	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture- 12.3

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	93	70-121
Toluene-d8	104	84-138
4-Bromofluorobenzene	100	59-113

Notes:

=====

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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7317 REVEY Account No.: E2014  
 Client Sample: 01-011 BH, DUP Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Sampled: 11/18/93 Date Received: 11/18/93  
 Matrix: Soil Date Run: 11/24/93  
 Method: 8240 Dilution Factor: 1.2

Analyst: A. Wolf Date: 12-14-93  
 A.WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS\*\*  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/kg		ug/kg
74-87-3	Chloromethane	12	R	ND
74-83-9	Bromomethane	12	E	ND
75-01-4	Vinyl Chloride	12	V	ND
75-00-3	Chloroethane	12	E	ND
75-09-2	Methylene chloride	6	T	ND
67-64-1	Acetone	12		ND
75-15-0	Carbon disulfide	6	E	ND
75-35-4	1,1-Dichloroethene	6	N	ND
75-34-3	1,1-Dichloroethane	6	V	ND
156-60-5	1,2-dichloroethenes(total)	6	I	ND
67-66-3	Chloroform	6	R	ND
107-06-2	1,2-Dichloroethane	6	O	ND
78-93-3	2-Butanone (MEK)	12	N	ND
71-55-6	1,1,1-Trichloroethane	6	M	ND
56-23-5	Carbon tetrachloride	6	E	ND
75-27-4	Bromodichloromethane	6	N	ND
78-87-5	1,2-Dichloropropane	6	T	ND
10061-01-5	cis-1,3-Dichloropropene	6	A	ND
79-01-6	Trichloroethylene	6	L	ND
124-48-1	Dibromochloromethane	6		ND
79-00-5	1,1,2-Trichloroethane	6	L	ND
71-43-2	Benzene	6	A	ND
10061-02-6	trans-1,3-Dichloropropene	6	B	ND
75-25-2	Bromoform	12	O	ND
108-10-1	4-Methyl-2-pentanone	12	R	ND
591-78-6	2-Hexanone	12	A	ND
127-18-4	Tetrachloroethylene	6	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	6	O	ND
108-88-3	Toluene	6	R	ND
108-90-7	Chlorobenzene	6	Y	ND
100-41-4	Ethylbenzene	6		ND

=====

REVET Sample No.: 7317		EPA Method	RESULTS**
		Detection Limits for this sample*	
CAS Number	Compound	ug/kg	ug/kg
100-42-5	Styrene	6	ND
1330-20-7	Total xylenes	6	ND
108-05-4	Vinyl Acetate	6	ND
541-73-1	1,3-Dichlorobenzene	12	ND
-----	1,2- & 1,4-Dichlorobenzene	12	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture- 20.4

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	98	70-121
Toluene-d8	112	84-138
4-Bromofluorobenzene	96	59-113

Notes:

=====



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=====
Client: OPTECH                               Contact: JOHN MORRIS
Revet Sample No.: 7320                       REVET Account No.: E2014
Client Sample: 01-007 BH, DUP                Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113
Date Sampled: 11/18/93                      Date Received: 11/18/93
Matrix: Soil                                 Date Run: 11/24/93
Method: 8240                                 Dilution Factor: 1
    
```

Analyst: A. Wolf Date: 12-14-93  
 A.WOLF

QC Check: J. Paquin Date: 12/14/93

CAS Number	Compound	EPA Method	Detection Limits for this sample*	RESULTS**
		ug/kg		ug/kg
74-87-3	Chloromethane	10	R	ND
74-83-9	Bromomethane	10	E	ND
75-01-4	Vinyl Chloride	10	V	ND
75-00-3	Chloroethane	10	E	ND
75-09-2	Methylene chloride	5	T	ND
67-64-1	Acetone	10		ND
75-15-0	Carbon disulfide	5	E	ND
75-35-4	1,1-Dichloroethene	5	N	ND
75-34-3	1,1-Dichloroethane	5	V	ND
156-60-5	1,2-dichloroethenes(total)	5	I	ND
67-66-3	Chloroform	5	R	ND
107-06-2	1,2-Dichloroethane	5	O	ND
78-93-3	2-Butanone (MEK)	10	N	ND
71-55-6	1,1,1-Trichloroethane	5	M	ND
56-23-5	Carbon tetrachloride	5	E	ND
75-27-4	Bromodichloromethane	5	N	ND
78-87-5	1,2-Dichloropropane	5	T	ND
10061-01-5	cis-1,3-Dichloropropene	5	A	ND
79-01-6	Trichloroethylene	5	L	ND
124-48-1	Dibromochloromethane	5		ND
79-00-5	1,1,2-Trichloroethane	5	L	ND
71-43-2	Benzene	5	A	ND
10061-02-6	trans-1,3-Dichloropropene	5	B	ND
75-25-2	Bromoform	10	O	ND
108-10-1	4-Methyl-2-pentanone	10	R	ND
591-78-6	2-Hexanone	10	A	ND
127-18-4	Tetrachloroethylene	5	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	O	ND
108-88-3	Toluene	5	R	ND
108-90-7	Chlorobenzene	5	Y	ND
100-41-4	Ethylbenzene	5		ND

=====

REVEI Sample No.: 7320		EPA Method	RESULTS**
		Detection Limits	
		for this sample*	
CAS Number	Compound	ug/kg	ug/kg
100-42-5	Styrene	5	ND
1330-20-7	Total xylenes	5	ND
108-05-4	Vinyl Acetate	5	ND
541-73-1	1,3-Dichlorobenzene	10	ND
-----	1,2- & 1,4-Dichlorobenzene	10	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture- 11.2

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	94	70-121
Toluene-d8	106	84-138
4-Bromofluorobenzene	101	59-113

Notes:

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Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: BLANK.2014 REVET Account No.: E2014  
 Client Sample: LABBLK 11/24 Client Location/P.O.:  
 Date Sampled: Date Received:  
 Matrix: Soil Date Run: 11/24/93  
 Method: 8240 Dilution Factor: 1

Analyst: A. Wolf Date: 12-14-93  
 A.WOLF

QC Check: J. Paguir Date: 12/14/93

EPA Method RESULTS\*\*  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/kg		ug/kg
74-87-3	Chloromethane	10	R	ND
74-83-9	Bromomethane	10	E	ND
75-01-4	Vinyl Chloride	10	V	ND
75-00-3	Chloroethane	10	E	ND
75-09-2	Methylene chloride	5	T	ND
67-64-1	Acetone	10		ND
75-15-0	Carbon disulfide	5	E	ND
75-35-4	1,1-Dichloroethene	5	N	ND
75-34-3	1,1-Dichloroethane	5	V	ND
156-60-5	1,2-dichloroethenes(total)	5	I	ND
67-66-3	Chloroform	5	R	ND
107-06-2	1,2-Dichloroethane	5	O	ND
78-93-3	2-Butanone (MEK)	10	N	ND
71-55-6	1,1,1-Trichloroethane	5	M	ND
56-23-5	Carbon tetrachloride	5	E	ND
75-27-4	Bromodichloromethane	5	N	ND
78-87-5	1,2-Dichloropropane	5	T	ND
10061-01-5	cis-1,3-Dichloropropene	5	A	ND
79-01-6	Trichloroethylene	5	L	ND
124-48-1	Dibromochloromethane	5		ND
79-00-5	1,1,2-Trichloroethane	5	L	ND
71-43-2	Benzene	5	A	ND
10061-02-6	trans-1,3-Dichloropropene	5	B	ND
75-25-2	Bromoform	10	O	ND
108-10-1	4-Methyl-2-pentanone	10	R	ND
591-78-6	2-Hexanone	10	A	ND
127-18-4	Tetrachloroethylene	5	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	O	ND
108-88-3	Toluene	5	R	ND
108-90-7	Chlorobenzene	5	Y	ND
100-41-4	Ethylbenzene	5		ND

=====

REKET Sample No.: BLANK.2014	EPA Method	RESULTS**
	Detection Limits	
	for this sample*	
<u>CAS Number</u>	<u>Compound</u>	<u>ug/kg</u>
100-42-5	Styrene	5
1330-20-7	Total xylenes	5
108-05-4	Vinyl Acetate	5
541-73-1	1,3-Dichlorobenzene	10
-----	1,2- & 1,4-Dichlorobenzene	10

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight                      Soil/sediment % moisture-

<u>Compound</u>	<u>Surrogate % Recovery</u>	<u>Acceptable Soil Limits</u>
1,2-Dichloroethane-d4	99	70-121
Toluene-d8	97	84-138
4-Bromofluorobenzene	101	59-113

Notes:

=====

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Page 1 of 2

=====  
 Client: OPTTECH Contact: JOHN MORRIS  
 Revet Sample No.: BLANK.2014.1 REVET Account No.: E2014  
 Client Sample: LABBLK 11/26 Client Location/P.O.:  
 Date Sampled: Date Received:  
 Matrix: Soil Date Run: 11/26/93  
 Method: 8240 Dilution Factor: 1

Analyst: A. Wolf Date: 12-14-93  
 A.WOLF

QC Check: J. Paquin Date: 12/14/93

CAS Number	Compound	EPA Method	Detection Limits for this sample*	RESULTS**
		ug/kg		ug/kg
74-87-3	Chloromethane	10	R	ND
74-83-9	Bromomethane	10	E	ND
75-01-4	Vinyl Chloride	10	V	ND
75-00-3	Chloroethane	10	E	ND
75-09-2	Methylene chloride	5	T	ND
67-64-1	Acetone	10		ND
75-15-0	Carbon disulfide	5	E	ND
75-35-4	1,1-Dichloroethene	5	N	ND
75-34-3	1,1-Dichloroethane	5	V	ND
156-60-5	1,2-dichloroethenes(total)	5	I	ND
67-66-3	Chloroform	5	R	ND
107-06-2	1,2-Dichloroethane	5	O	ND
78-93-3	2-Butanone (MEK)	10	N	ND
71-55-6	1,1,1-Trichloroethane	5	M	ND
56-23-5	Carbon tetrachloride	5	E	ND
75-27-4	Bromodichloromethane	5	N	ND
78-87-5	1,2-Dichloropropane	5	T	ND
10061-01-5	cis-1,3-Dichloropropene	5	A	ND
79-01-6	Trichloroethylene	5	L	ND
124-48-1	Dibromochloromethane	5		ND
79-00-5	1,1,2-Trichloroethane	5	L	ND
71-43-2	Benzene	5	A	ND
10061-02-6	trans-1,3-Dichloropropene	5	B	ND
75-25-2	Bromoform	10	O	ND
108-10-1	4-Methyl-2-pentanone	10	R	ND
591-78-6	2-Hexanone	10	A	ND
127-18-4	Tetrachloroethylene	5	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	O	ND
108-88-3	Toluene	5	R	ND
108-90-7	Chlorobenzene	5	Y	ND
100-41-4	Ethylbenzene	5		ND

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REVET Sample No.: BLANK.2014.1		EPA Method	RESULTS**
		Detection Limits for this sample*	
CAS Number	Compound	ug/kg	ug/kg
100-42-5	Styrene	5	ND
1330-20-7	Total xylenes	5	ND
108-05-4	Vinyl Acetate	5	ND
541-73-1	1,3-Dichlorobenzene	10	ND
-----	1,2- & 1,4-Dichlorobenzene	10	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture-

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	98	70-121
Toluene-d8	103	84-138
4-Bromofluorobenzene	95	59-113

Notes:

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REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.  
 15 Belmont Street  
 Worcester, MA 01605  
 DEP Certification Number 082  
 Telephone (508) 753-3738

VOLATILE ORGANIC COMPOUNDS  
 QC SUMMARY SHEET

Sample ID: 7319 MS/MSD

Analysis Date: 11/26/93

Compound	Spike Added ug/Kg	Sample Concn. ug/Kg	MS Concn. ug/Kg	MS % REC.	QC Limits REC.
1,1-Dichloroethene	50	0	47	94	59-172
Trichloroethylene	50	0	48	96	62-137
Benzene	50	0	54	108	66-142
Toluene	50	0	55	110	59-139
Chlorobenzene	50	0	49	98	60-133

Compound	Spike Added ug/Kg	MSD Concn. ug/Kg	MSD % REC	% RPD	QC RPD	Limits REC.
1,1-Dichloroethene	49	50	102	6	22	59-172
Trichloroethylene	49	46	94	4	24	62-137
Benzene	49	50	102	8	21	66-142
Toluene	49	50	102	10	21	59-139
Chlorobenzene	49	48	98	2	21	60-133

Comments: \_\_\_\_\_

Note: This form follows the EPA Contract Laboratory Program format. Matrix Spike must be analyzed for ten percent of all samples submitted to DEP/DWS to fulfill the monitoring requirements of the Pesticide and Volatile Organic Compound Sampling Programs.

J. Pagan for  
 A Wolf, Analyst

12/14/93  
 Date

c:vocqc

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=====
Client: OPTECH                               Contact: JOHN MORRIS
Revet Sample No.: 7322                       REVET Account No.: E2014
Client Sample: EQUIPMENT BLANK #3           Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113
Date Sampled: 11/18/93                      Date Received: 11/18/93
Matrix: Water                               Date Run: 11/23/93
Method: 624                                 Dilution Factor: 1
    
```

Analyst: *J. Wolf* Date: 12-14-93  
A:WOLF

QC Check: *J. Paquin* Date: 12/14/93

EPA Method                      RESULTS  
Detection Limits  
for this sample\*

CAS Number	Compound	ug/L		ug/L
74-87-3	Chloromethane	2	R	ND
74-83-9	Bromomethane	2	E	ND
75-01-4	Vinyl Chloride	2	V	ND
75-00-3	Chloroethane	2	E	ND
75-09-2	Methylene chloride	1	T	ND
67-64-1	Acetone	2		ND
75-15-0	Carbon disulfide	1	E	ND
75-35-4	1,1-Dichloroethene	1	N	ND
75-34-3	1,1-Dichloroethane	1	V	ND
156-60-5	1,2-dichloroethenes(total)	1	I	ND
67-66-3	Chloroform	1	R	ND
107-06-2	1,2-Dichloroethane	1	O	ND
78-93-3	2-Butanone (MEK)	2	N	ND
71-55-6	1,1,1-Trichloroethane	1	M	ND
56-23-5	Carbon tetrachloride	1	E	ND
75-27-4	Bromodichloromethane	1	N	ND
78-87-5	1,2-Dichloropropane	1	T	ND
10061-01-5	cis-1,3-Dichloropropene	1	A	ND
79-01-6	Trichloroethylene	1	L	ND
124-48-1	Dibromochloromethane	1		ND
79-00-5	1,1,2-Trichloroethane	1	L	ND
71-43-2	Benzene	1	A	ND
10061-02-6	trans-1,3-Dichloropropene	1	B	ND
75-25-2	Bromoform	2	O	ND
108-10-1	4-Methyl-2-pentanone	2	R	ND
591-78-6	2-Hexanone	2	A	ND
127-18-4	Tetrachloroethylene	1	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	1	O	ND
108-88-3	Toluene	1	R	ND
108-90-7	Chlorobenzene	1	Y	ND
100-41-4	Ethylbenzene	1		ND





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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7323 REVEI Account No.: E2014  
 Client Sample: FIELD BLANK #3 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Sampled: 11/18/93 Date Received: 11/18/93  
 Matrix: Water Date Run: 11/26/93  
 Method: 624 Dilution Factor: 1

Analyst: A. Wolf Date: 12-14-93  
 A. WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/L		ug/L
74-87-3	Chloromethane	2	R	ND
74-83-9	Bromomethane	2	E	ND
75-01-4	Vinyl Chloride	2	V	ND
75-00-3	Chloroethane	2	E	ND
75-09-2	Methylene chloride	1	T	ND
67-64-1	Acetone	2		ND
75-15-0	Carbon disulfide	1	E	ND
75-35-4	1,1-Dichloroethene	1	N	ND
75-34-3	1,1-Dichloroethane	1	V	ND
156-60-5	1,2-dichloroethenes(total)	1	I	ND
67-66-3	Chloroform	1	R	ND
107-06-2	1,2-Dichloroethane	1	O	ND
78-93-3	2-Butanone (MEK)	2	N	ND
71-55-6	1,1,1-Trichloroethane	1	M	ND
56-23-5	Carbon tetrachloride	1	E	ND
75-27-4	Bromodichloromethane	1	N	ND
78-87-5	1,2-Dichloropropane	1	T	ND
10061-01-5	cis-1,3-Dichloropropene	1	A	ND
79-01-6	Trichloroethylene	1	L	ND
124-48-1	Dibromochloromethane	1		ND
79-00-5	1,1,2-Trichloroethane	1	L	ND
71-43-2	Benzene	1	A	ND
10061-02-6	trans-1,3-Dichloropropene	1	B	ND
75-25-2	Bromoform	2	O	ND
108-10-1	4-Methyl-2-pentanone	2	R	ND
591-78-6	2-Hexanone	2	A	ND
127-18-4	Tetrachloroethylene	1	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	1	O	ND
108-88-3	Toluene	1	R	ND
108-90-7	Chlorobenzene	1	Y	ND
100-41-4	Ethylbenzene	1		ND



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Page 1 of 2

Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7324 REVET Account No.: E2014  
 Client Sample: TRIP BLANK D Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Sampled: 11/18/93 Date Received: 11/18/93  
 Matrix: Water Date Run: 11/26/93  
 Method: 624 Dilution Factor: 1

Analyst: A. Wolf Date: 12-14-93  
 A. WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/L		ug/L
74-87-3	Chloromethane	2	R	ND
74-83-9	Bromomethane	2	E	ND
75-01-4	Vinyl Chloride	2	V	ND
75-00-3	Chloroethane	2	E	ND
75-09-2	Methylene chloride	1	T	ND
67-64-1	Acetone	2		ND
75-15-0	Carbon disulfide	1	E	ND
75-35-4	1,1-Dichloroethene	1	N	ND
75-34-3	1,1-Dichloroethane	1	V	ND
156-60-5	1,2-dichloroethenes(total)	1	I	ND
67-66-3	Chloroform	1	R	ND
107-06-2	1,2-Dichloroethane	1	O	ND
78-93-3	2-Butanone (MEK)	2	N	ND
71-55-6	1,1,1-Trichloroethane	1	M	ND
56-23-5	Carbon tetrachloride	1	E	ND
75-27-4	Bromodichloromethane	1	N	ND
78-87-5	1,2-Dichloropropane	1	T	ND
10061-01-5	cis-1,3-Dichloropropene	1	A	ND
79-01-6	Trichloroethylene	1	L	ND
124-48-1	Dibromochloromethane	1		ND
79-00-5	1,1,2-Trichloroethane	1	L	ND
71-43-2	Benzene	1	A	ND
10061-02-6	trans-1,3-Dichloropropene	1	B	ND
75-25-2	Bromoform	2	O	ND
108-10-1	4-Methyl-2-pentanone	2	R	ND
591-78-6	2-Hexanone	2	A	ND
127-18-4	Tetrachloroethylene	1	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	1	O	ND
108-88-3	Toluene	1	R	ND
108-90-7	Chlorobenzene	1	Y	ND
100-41-4	Ethylbenzene	1		ND



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Page 1 of 2

=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: BLANK.2014.2 REVE Account No.: E2014  
 Client Sample: LABBLK 11/23 Client Location/P.O.:  
 Date Sampled: Date Received:  
 Matrix: Water Date Run: 11/23/93  
 Method: 624 Dilution Factor: 1

Analyst: Y. Wolf Date: 12-14-93  
 A. WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/L		ug/L
74-87-3	Chloromethane	2	R	ND
74-83-9	Bromomethane	2	E	ND
75-01-4	Vinyl Chloride	2	V	ND
75-00-3	Chloroethane	2	E	ND
75-09-2	Methylene chloride	1	T	ND
67-64-1	Acetone	2		ND
75-15-0	Carbon disulfide	1	E	ND
75-35-4	1,1-Dichloroethene	1	N	ND
75-34-3	1,1-Dichloroethane	1	V	ND
156-60-5	1,2-dichloroethenes(total)	1	I	ND
67-66-3	Chloroform	1	R	ND
107-06-2	1,2-Dichloroethane	1	O	ND
78-93-3	2-Butanone (MEK)	2	N	ND
71-55-6	1,1,1-Trichloroethane	1	M	ND
56-23-5	Carbon tetrachloride	1	E	ND
75-27-4	Bromodichloromethane	1	N	ND
78-87-5	1,2-Dichloropropane	1	T	ND
10061-01-5	cis-1,3-Dichloropropene	1	A	ND
79-01-6	Trichloroethylene	1	L	ND
124-48-1	Dibromochloromethane	1		ND
79-00-5	1,1,2-Trichloroethane	1	L	ND
71-43-2	Benzene	1	A	ND
10061-02-6	trans-1,3-Dichloropropene	1	B	ND
75-25-2	Bromoform	2	O	ND
108-10-1	4-Methyl-2-pentanone	2	R	ND
591-78-6	2-Hexanone	2	A	ND
127-18-4	Tetrachloroethylene	1	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	1	O	ND
108-88-3	Toluene	1	R	ND
108-90-7	Chlorobenzene	1	Y	ND
100-41-4	Ethylbenzene	1		ND



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Page 1 of 2

Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: BLANK.2014.3 REVET Account No.: E2014  
 Client Sample: LABBLK 11/26 Client Location/P.O.:  
 Date Sampled: Date Received:  
 Matrix: Water Date Run: 11/26/93  
 Method: 624 Dilution Factor: 1

Analyst: A. WOLF Date: 12-14-93

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/L		ug/L
74-87-3	Chloromethane	2	R	ND
74-83-9	Bromomethane	2	E	ND
75-01-4	Vinyl Chloride	2	V	ND
75-00-3	Chloroethane	2	E	ND
75-09-2	Methylene chloride	1	T	ND
67-64-1	Acetone	2		ND
75-15-0	Carbon disulfide	1	E	ND
75-35-4	1,1-Dichloroethene	1	N	ND
75-34-3	1,1-Dichloroethane	1	V	ND
156-60-5	1,2-dichloroethenes(total)	1	I	ND
67-66-3	Chloroform	1	R	ND
107-06-2	1,2-Dichloroethane	1	O	ND
78-93-3	2-Butanone (MEK)	2	N	ND
71-55-6	1,1,1-Trichloroethane	1	M	ND
56-23-5	Carbon tetrachloride	1	E	ND
75-27-4	Bromodichloromethane	1	N	ND
78-87-5	1,2-Dichloropropane	1	T	ND
10061-01-5	cis-1,3-Dichloropropene	1	A	ND
79-01-6	Trichloroethylene	1	L	ND
124-48-1	Dibromochloromethane	1		ND
79-00-5	1,1,2-Trichloroethane	1	L	ND
71-43-2	Benzene	1	A	ND
10061-02-6	trans-1,3-Dichloropropene	1	B	ND
75-25-2	Bromoform	2	O	ND
108-10-1	4-Methyl-2-pentanone	2	R	ND
591-78-6	2-Hexanone	2	A	ND
127-18-4	Tetrachloroethylene	1	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	1	O	ND
108-88-3	Toluene	1	R	ND
108-90-7	Chlorobenzene	1	Y	ND
100-41-4	Ethylbenzene	1		ND





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 15 Belmont Street  
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VOLATILE ORGANIC COMPOUNDS  
 QC SUMMARY SHEET

Sample ID: 7314 MS/MSD Analysis Date: 11/24/93

Compound	Spike Added ug/l	Sample Concn. ug/l	MS Concn. ug/l	MS % REC.	QC Limits REC.
1,1-Dichloroethene	56	0	58	104	61-145
Trichloroethylene	56	0	56	100	71-120
Benzene	56	0	59	105	76-127
Toluene	56	0	58	104	76-125
Chlorobenzene	56	0	55	98	75-130

Compound	Spike Added ug/l	MSD Concn. ug/l	MSD % REC	% RPD	QC RPD	Limits REC.
1,1-Dichloroethene	54	51	94	13	22	61-145
Trichloroethylene	54	54	100	4	24	71-120
Benzene	54	63	117	7	21	76-127
Toluene	54	71	131	20	21	76-125
Chlorobenzene	54	56	104	2	21	75-130

Comments: \_\_\_\_\_ .

Note: This form follows the EPA Contract Laboratory Program format. Matrix Spike must be analyzed for ten percent of all samples submitted to DEP/DWS to fulfill the monitoring requirements of the Pesticide and Volatile Organic Compound Sampling Programs.

A. Wolf  
 A. Wolf, Analyst

12-14-93  
 Date

c:vocqc

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street

Marlboro, MA 01752

DEP Certification MA #082

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Page 1 of 2

Client: OPTECH  
 Revet Sample No.: BLANK.2008  
 Client Sample: LABBLK 11/19  
 Date Sampled:  
 Matrix: Soil  
 Method: 8240

Contact: JOHN MORRIS  
 REVET Account No.: E2008  
 Client Location/P.O.: WORCESTER ANG  
 Date Received:  
 Date Run: 11/19/93  
 Dilution Factor: 1

Analyst: J. Requin for Date: 12/14/93  
 A. WOLF

QC Check: E. Taylor Date: 12/14/93

EPA Method RESULTS\*\*

Detection Limits

for this sample\*

CAS Number	Compound	ug/kg		ug/kg
74-87-3	Chloromethane	10	R	ND
74-83-9	Bromomethane	10	E	ND
75-01-4	Vinyl Chloride	10	V	ND
75-00-3	Chloroethane	10	E	ND
75-09-2	Methylene chloride	5	T	ND
67-64-1	Acetone	10		ND
75-15-0	Carbon disulfide	5	E	ND
75-35-4	1,1-Dichloroethene	5	N	ND
75-34-3	1,1-Dichloroethane	5	V	ND
156-60-5	1,2-dichloroethenes(total)	5	I	ND
67-66-3	Chloroform	5	R	ND
107-06-2	1,2-Dichloroethane	5	O	ND
78-93-3	2-Butanone (MEK)	10	N	ND
71-55-6	1,1,1-Trichloroethane	5	M	ND
56-23-5	Carbon tetrachloride	5	E	ND
75-27-4	Bromodichloromethane	5	N	ND
78-87-5	1,2-Dichloropropane	5	T	ND
10061-01-5	cis-1,3-Dichloropropene	5	A	ND
79-01-6	Trichloroethylene	5	L	ND
124-48-1	Dibromochloromethane	5		ND
79-00-5	1,1,2-Trichloroethane	5	L	ND
71-43-2	Benzene	5	A	ND
10061-02-6	trans-1,3-Dichloropropene	5	B	ND
75-25-2	Bromoform	10	O	ND
108-10-1	4-Methyl-2-pentanone	10	R	ND
591-78-6	2-Hexanone	10	A	ND
127-18-4	Tetrachloroethylene	5	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	O	ND
108-88-3	Toluene	5	R	ND
108-90-7	Chlorobenzene	5	Y	ND
100-41-4	Ethylbenzene	5		ND



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Page 1 of 2

=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: BLANK.2008.1 REVET Account No.: E2008  
 Client Sample: LABLK 11/23 Client Location/P.O.:  
 Date Sampled: Date Received:  
 Matrix: Soil Date Run: 11/23/93  
 Method: 8240 Dilution Factor: 1

Analyst: A. Wolf Date: 12-14-93  
 A. WOLF

QC Check: J. Paquin Date: 12/14/93

CAS Number	Compound	EPA Method		RESULTS**
		Detection Limits	for this sample*	
		ug/kg		ug/kg
74-87-3	Chloromethane	10	R	ND
74-83-9	Bromomethane	10	E	ND
75-01-4	Vinyl Chloride	10	V	ND
75-00-3	Chloroethane	10	E	ND
75-09-2	Methylene chloride	5	T	ND
67-64-1	Acetone	10		ND
75-15-0	Carbon disulfide	5	E	ND
75-35-4	1,1-Dichloroethene	5	N	ND
75-34-3	1,1-Dichloroethane	5	V	ND
156-60-5	1,2-dichloroethenes(total)	5	I	ND
67-66-3	Chloroform	5	R	ND
107-06-2	1,2-Dichloroethane	5	O	ND
78-93-3	2-Butanone (MEK)	10	N	ND
71-55-6	1,1,1-Trichloroethane	5	M	ND
56-23-5	Carbon tetrachloride	5	E	ND
75-27-4	Bromodichloromethane	5	N	ND
78-87-5	1,2-Dichloropropane	5	T	ND
10061-01-5	cis-1,3-Dichloropropene	5	A	ND
79-01-6	Trichloroethylene	5	L	ND
124-48-1	Dibromochloromethane	5		ND
79-00-5	1,1,2-Trichloroethane	5	L	ND
71-43-2	Benzene	5	A	ND
10061-02-6	trans-1,3-Dichloropropene	5	B	ND
75-25-2	Bromoform	10	O	ND
108-10-1	4-Methyl-2-pentanone	10	R	ND
591-78-6	2-Hexanone	10	A	ND
127-18-4	Tetrachloroethylene	5	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	O	ND
108-88-3	Toluene	5	R	ND
108-90-7	Chlorobenzene	5	Y	ND
100-41-4	Ethylbenzene	5		ND

=====

RENET Sample No.: BLANK.2008.1

CAS Number	Compound	EPA Method Detection Limits for this sample*	RESULTS** ug/kg
100-42-5	Styrene	5	ND
1330-20-7	Total xylenes	5	ND
108-05-4	Vinyl Acetate	5	ND
541-73-1	1,3-Dichlorobenzene	10	ND
-----	1,2- & 1,4-Dichlorobenzene	10	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture-

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	95	70-121
Toluene-d8	100	84-138
4-Bromofluorobenzene	99	59-113

Notes:

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=====
Client: OPTECH                Contact: JOHN MORRIS
Revet Sample No.: BLANK.2008.4  REVET Account No.: E2008
Client Sample: LABBLK 11/26    Client Location/P.O.:
Date Sampled:                 Date Received:
Matrix: Soil                  Date Run: 11/26/93
Method: 8240                  Dilution Factor: 1
    
```

Analyst: A. Wolf Date: 12-14-93  
 A.WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method                      RESULTS\*\*  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/kg		ug/kg
74-87-3	Chloromethane	10	R	ND
74-83-9	Bromomethane	10	E	ND
75-01-4	Vinyl Chloride	10	V	ND
75-00-3	Chloroethane	10	E	ND
75-09-2	Methylene chloride	5	T	ND
67-64-1	Acetone	10		ND
75-15-0	Carbon disulfide	5	E	ND
75-35-4	1,1-Dichloroethene	5	N	ND
75-34-3	1,1-Dichloroethane	5	V	ND
156-60-5	1,2-dichloroethenes(total)	5	I	ND
67-66-3	Chloroform	5	R	ND
107-06-2	1,2-Dichloroethane	5	O	ND
78-93-3	2-Butanone (MEK)	10	N	ND
71-55-6	1,1,1-Trichloroethane	5	M	ND
56-23-5	Carbon tetrachloride	5	E	ND
75-27-4	Bromodichloromethane	5	N	ND
78-87-5	1,2-Dichloropropane	5	T	ND
10061-01-5	cis-1,3-Dichloropropene	5	A	ND
79-01-6	Trichloroethylene	5	L	ND
124-48-1	Dibromochloromethane	5		ND
79-00-5	1,1,2-Trichloroethane	5	L	ND
71-43-2	Benzene	5	A	ND
10061-02-6	trans-1,3-Dichloropropene	5	B	ND
75-25-2	Bromoform	10	O	ND
108-10-1	4-Methyl-2-pentanone	10	R	ND
591-78-6	2-Hexanone	10	A	ND
127-18-4	Tetrachloroethylene	5	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	O	ND
108-88-3	Toluene	5	R	ND
108-90-7	Chlorobenzene	5	Y	ND
100-41-4	Ethylbenzene	5		ND

=====

REVE Sample No.: BLANK.2008.4

CAS Number	Compound	EPA Method	RESULTS**
		Detection Limits for this sample*	ug/kg
100-42-5	Styrene	5	ND
1330-20-7	Total xylenes	5	ND
108-05-4	Vinyl Acetate	5	ND
541-73-1	1,3-Dichlorobenzene	10	ND
-----	1,2- & 1,4-Dichlorobenzene	10	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture-

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	91	70-121
Toluene-d8	95	84-138
4-Bromofluorobenzene	86	59-113

Notes:

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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7219 REVET Account No.: E2008  
 Client Sample: FIELD BLANK #1 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Water Date Run: 11/26/93  
 Method: 624 Dilution Factor: 1  
 =====

Analyst: A. Wolf Date: 12-14-93  
 A. WOLF

QC Check: J. Paquin Date: 12/14/93

CAS Number	Compound	EPA Method		RESULTS
		Detection Limits		
		for this sample*		
		ug/L		ug/L
74-87-3	Chloromethane	2	R	ND
74-83-9	Bromomethane	2	E	ND
75-01-4	Vinyl Chloride	2	V	ND
75-00-3	Chloroethane	2	E	ND
75-09-2	Methylene chloride	1	T	ND
67-64-1	Acetone	2		ND
75-15-0	Carbon disulfide	1	E	ND
75-35-4	1,1-Dichloroethene	1	N	ND
75-34-3	1,1-Dichloroethane	1	V	ND
156-60-5	1,2-dichloroethenes(total)	1	I	ND
67-66-3	Chloroform	1	R	ND
107-06-2	1,2-Dichloroethane	1	O	ND
78-93-3	2-Butanone (MEK)	2	N	ND
71-55-6	1,1,1-Trichloroethane	1	M	ND
56-23-5	Carbon tetrachloride	1	E	ND
75-27-4	Bromodichloromethane	1	N	ND
78-87-5	1,2-Dichloropropane	1	T	ND
10061-01-5	cis-1,3-Dichloropropene	1	A	ND
79-01-6	Trichloroethylene	1	L	ND
124-48-1	Dibromochloromethane	1		ND
79-00-5	1,1,2-Trichloroethane	1	L	ND
71-43-2	Benzene	1	A	ND
10061-02-6	trans-1,3-Dichloropropene	1	B	ND
75-25-2	Bromoform	2	O	ND
108-10-1	4-Methyl-2-pentanone	2	R	ND
591-78-6	2-Hexanone	2	A	ND
127-18-4	Tetrachloroethylene	1	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	1	O	ND
108-88-3	Toluene	1	R	ND
108-90-7	Chlorobenzene	1	Y	ND
100-41-4	Ethylbenzene	1		ND



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=====
Client: OPTECH                               Contact: JOHN MORRIS
Revet Sample No.: 7220                       REVET Account No.: E2008
Client Sample: FIELD BLANK #2                Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113
Date Sampled: 11/17/93                       Date Received: 11/17/93
Matrix: Water                                 Date Run: 11/22/93
Method: 624                                  Dilution Factor: 1
    
```

Analyst: J. Paquin for Date: 12/14/93  
 A. WOLF

QC Check: E. Taylor Date: 12/14/93

EPA Method RESULTS  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/L		ug/L
74-87-3	Chloromethane	2	R	ND
74-83-9	Bromomethane	2	E	ND
75-01-4	Vinyl Chloride	2	V	ND
75-00-3	Chloroethane	2	E	ND
75-09-2	Methylene chloride	1	T	ND
67-64-1	Acetone	2		ND
75-15-0	Carbon disulfide	1	E	ND
75-35-4	1,1-Dichloroethene	1	N	ND
75-34-3	1,1-Dichloroethane	1	V	ND
156-60-5	1,2-dichloroethenes(total)	1	I	ND
67-66-3	Chloroform	1	R	ND
107-06-2	1,2-Dichloroethane	1	O	ND
78-93-3	2-Butanone (MEK)	2	N	ND
71-55-6	1,1,1-Trichloroethane	1	M	ND
56-23-5	Carbon tetrachloride	1	E	ND
75-27-4	Bromodichloromethane	1	N	ND
78-87-5	1,2-Dichloropropane	1	T	ND
10061-01-5	cis-1,3-Dichloropropene	1	A	ND
79-01-6	Trichloroethylene	1	L	ND
124-48-1	Dibromochloromethane	1		ND
79-00-5	1,1,2-Trichloroethane	1	L	ND
71-43-2	Benzene	1	A	ND
10061-02-6	trans-1,3-Dichloropropene	1	B	ND
75-25-2	Bromoform	2	O	ND
108-10-1	4-Methyl-2-pentanone	2	R	ND
591-78-6	2-Hexanone	2	A	ND
127-18-4	Tetrachloroethylene	1	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	1	O	ND
108-88-3	Toluene	1	R	ND
108-90-7	Chlorobenzene	1	Y	ND
100-41-4	Ethylbenzene	1		ND

=====

REVET Sample No.: 7220

CAS Number	Compound	EPA Method Detection Limits for this sample*	RESULTS
		ug/L	ug/L
100-42-5	Styrene	1	ND
1330-20-7	Total xylenes	1	ND
108-05-4	Vinyl Acetate	1	ND
541-73-1	1,3-Dichlorobenzene	2	ND
-----	1,2- & 1,4-Dichlorobenzene	2	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

Compound	Surrogate % Recovery	Acceptable Water Limits
1,2-Dichloroethane-d4	90	76-114
Toluene-d8	94	88-110
4-Bromofluorobenzene	95	86-115

Notes:

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=====  
 Client: OPTTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7221 REVET Account No.: E2008  
 Client Sample: EQUIPMENT BLANK #1 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Water Date Run: 11/22/93  
 Method: 624 Dilution Factor: 1  
 =====

Analyst: A. Wolf Date: 12-14-93  
 A.WOLF

QC Check: J. Paquin Date: 12/14/93

CAS Number	Compound	EPA Method		RESULTS
		Detection Limits	for this sample*	
		ug/L	ug/L	
74-87-3	Chloromethane	2	R	ND
74-83-9	Bromomethane	2	E	ND
75-01-4	Vinyl Chloride	2	V	ND
75-00-3	Chloroethane	2	E	ND
75-09-2	Methylene chloride	1	T	ND
67-64-1	Acetone	2		ND
75-15-0	Carbon disulfide	1	E	ND
75-35-4	1,1-Dichloroethene	1	N	ND
75-34-3	1,1-Dichloroethane	1	V	ND
156-60-5	1,2-dichloroethenes(total)	1	I	ND
67-66-3	Chloroform	1	R	ND
107-06-2	1,2-Dichloroethane	1	O	ND
78-93-3	2-Butanone (MEK)	2	N	ND
71-55-6	1,1,1-Trichloroethane	1	M	ND
56-23-5	Carbon tetrachloride	1	E	ND
75-27-4	Bromodichloromethane	1	N	ND
78-87-5	1,2-Dichloropropane	1	T	ND
10061-01-5	cis-1,3-Dichloropropene	1	A	ND
79-01-6	Trichloroethylene	1	L	ND
124-48-1	Dibromochloromethane	1		ND
79-00-5	1,1,2-Trichloroethane	1	L	ND
71-43-2	Benzene	1	A	ND
10061-02-6	trans-1,3-Dichloropropene	1	B	ND
75-25-2	Bromoform	2	O	ND
108-10-1	4-Methyl-2-pentanone	2	R	ND
591-78-6	2-Hexanone	2	A	ND
127-18-4	Tetrachloroethylene	1	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	1	O	ND
108-88-3	Toluene	1	R	ND
108-90-7	Chlorobenzene	1	Y	ND
100-41-4	Ethylbenzene	1		ND

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REVET Sample No.: 7221

CAS Number	Compound	EPA Method	RESULTS
		Detection Limits for this sample*	
		ug/L	ug/L
100-42-5	Styrene	1	ND
1330-20-7	Total xylenes	1	ND
108-05-4	Vinyl Acetate	1	ND
541-73-1	1,3-Dichlorobenzene	2	ND
-----	1,2- & 1,4-Dichlorobenzene	2	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

Compound	Surrogate % Recovery	Acceptable Water Limits
1,2-Dichloroethane-d4	96	76-114
Toluene-d8	101	88-110
4-Bromofluorobenzene	101	86-115

Notes:

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Client: OPTECH	Contact: JOHN MORRIS
Revet Sample No.: 7222	REVET Account No.: E2008
Client Sample: EQUIPMENT BLANK #2	Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113
Date Sampled: 11/17/93	Date Received: 11/17/93
Matrix: Water	Date Run: 11/22/93
Method: 624	Dilution Factor: 1

Analyst: A. Wolf Date: 12-16-93  
 A. WOLF

QC Check: J. Paquin Date: 12/14/93

CAS Number	Compound	EPA Method	Detection Limits for this sample*	RESULTS
		ug/L		ug/L
74-87-3	Chloromethane	2	R	ND
74-83-9	Bromomethane	2	E	ND
75-01-4	Vinyl Chloride	2	V	ND
75-00-3	Chloroethane	2	E	ND
75-09-2	Methylene chloride	1	T	ND
67-64-1	Acetone	2		ND
75-15-0	Carbon disulfide	1	E	ND
75-35-4	1,1-Dichloroethene	1	N	ND
75-34-3	1,1-Dichloroethane	1	V	ND
156-60-5	1,2-dichloroethenes(total)	1	I	ND
67-66-3	Chloroform	1	R	ND
107-06-2	1,2-Dichloroethane	1	O	ND
78-93-3	2-Butanone (MEK)	2	N	ND
71-55-6	1,1,1-Trichloroethane	1	M	ND
56-23-5	Carbon tetrachloride	1	E	ND
75-27-4	Bromodichloromethane	1	N	ND
78-87-5	1,2-Dichloropropane	1	T	ND
10061-01-5	cis-1,3-Dichloropropene	1	A	ND
79-01-6	Trichloroethylene	1	L	ND
124-48-1	Dibromochloromethane	1		ND
79-00-5	1,1,2-Trichloroethane	1	L	ND
71-43-2	Benzene	1	A	ND
10061-02-6	trans-1,3-Dichloropropene	1	B	ND
75-25-2	Bromoform	2	O	ND
108-10-1	4-Methyl-2-pentanone	2	R	ND
591-78-6	2-Hexanone	2	A	ND
127-18-4	Tetrachloroethylene	1	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	1	O	ND
108-88-3	Toluene	1	R	ND
108-90-7	Chlorobenzene	1	Y	ND
100-41-4	Ethylbenzene	1		ND

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REVET Sample No.: 7222		EPA Method	RESULTS
		Detection Limits	
		for this sample*	
CAS Number	Compound	ug/L	ug/L
100-42-5	Styrene	1	ND
1330-20-7	Total xylenes	1	ND
108-05-4	Vinyl Acetate	1	ND
541-73-1	1,3-Dichlorobenzene	2	ND
-----	1,2- & 1,4-Dichlorobenzene	2	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

Compound	Surrogate % Recovery	Acceptable Water Limits
1,2-Dichloroethane-d4	101	76-114
Toluene-d8	108	88-110
4-Bromofluorobenzene	98	86-115

Notes:

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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7223 REVET Account No.: E2008  
 Client Sample: TRIP BLANK B Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Water Date Run: 11/22/93  
 Method: 624 Dilution Factor: 1

Analyst: A. Wolf Date: 12-14-93  
 A.WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/L		ug/L
74-87-3	Chloromethane	2	R	ND
74-83-9	Bromomethane	2	E	ND
75-01-4	Vinyl Chloride	2	V	ND
75-00-3	Chloroethane	2	E	ND
75-09-2	Methylene chloride	1	T	ND
67-64-1	Acetone	2		ND
75-15-0	Carbon disulfide	1	E	ND
75-35-4	1,1-Dichloroethene	1	N	ND
75-34-3	1,1-Dichloroethane	1	V	ND
156-60-5	1,2-dichloroethenes(total)	1	I	ND
67-66-3	Chloroform	1	R	ND
107-06-2	1,2-Dichloroethane	1	O	ND
78-93-3	2-Butanone (MEK)	2	N	ND
71-55-6	1,1,1-Trichloroethane	1	M	ND
56-23-5	Carbon tetrachloride	1	E	ND
75-27-4	Bromodichloromethane	1	N	ND
78-87-5	1,2-Dichloropropane	1	T	ND
10061-01-5	cis-1,3-Dichloropropene	1	A	ND
79-01-6	Trichloroethylene	1	L	ND
124-48-1	Dibromochloromethane	1		ND
79-00-5	1,1,2-Trichloroethane	1	L	ND
71-43-2	Benzene	1	A	ND
10061-02-6	trans-1,3-Dichloropropene	1	B	ND
75-25-2	Bromoform	2	O	ND
108-10-1	4-Methyl-2-pentanone	2	R	ND
591-78-6	2-Hexanone	2	A	ND
127-18-4	Tetrachloroethylene	1	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	1	O	ND
108-88-3	Toluene	1	R	ND
108-90-7	Chlorobenzene	1	Y	ND
100-41-4	Ethylbenzene	1		ND

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REVET Sample No.: 7223

CAS Number	Compound	EPA Method Detection Limits for this sample*	RESULTS
		ug/L	ug/L
100-42-5	Styrene	1	ND
1330-20-7	Total xylenes	1	ND
108-05-4	Vinyl Acetate	1	ND
541-73-1	1,3-Dichlorobenzene	2	ND
-----	1,2- & 1,4-Dichlorobenzene	2	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

Compound	Surrogate % Recovery	Acceptable Water Limits
1,2-Dichloroethane-d4	99	76-114
Toluene-d8	106	88-110
4-Bromofluorobenzene	95	86-115

Notes:

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Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7224 REVET Account No.: E2008  
 Client Sample: TRIP BLANK C Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Water Date Run: 11/22/93  
 Method: 624 Dilution Factor: 1

Analyst: A. Wolf Date: 12-14-93  
 A. WOLF

QC Check: J. Paquin Date: 12/14/93

CAS Number	Compound	EPA Method		RESULTS
		Detection Limits	for this sample*	
		ug/L	ug/L	
74-87-3	Chloromethane	2	R	ND
74-83-9	Bromomethane	2	E	ND
75-01-4	Vinyl Chloride	2	V	ND
75-00-3	Chloroethane	2	E	ND
75-09-2	Methylene chloride	1	T	ND
67-64-1	Acetone	2		ND
75-15-0	Carbon disulfide	1	E	ND
75-35-4	1,1-Dichloroethene	1	N	ND
75-34-3	1,1-Dichloroethane	1	V	ND
156-60-5	1,2-dichloroethenes(total)	1	I	ND
67-66-3	Chloroform	1	R	ND
107-06-2	1,2-Dichloroethane	1	O	ND
78-93-3	2-Butanone (MEK)	2	N	ND
71-55-6	1,1,1-Trichloroethane	1	M	ND
56-23-5	Carbon tetrachloride	1	E	ND
75-27-4	Bromodichloromethane	1	N	ND
78-87-5	1,2-Dichloropropane	1	T	ND
10061-01-5	cis-1,3-Dichloropropene	1	A	ND
79-01-6	Trichloroethylene	1	L	ND
124-48-1	Dibromochloromethane	1		ND
79-00-5	1,1,2-Trichloroethane	1	L	ND
71-43-2	Benzene	1	A	ND
10061-02-6	trans-1,3-Dichloropropene	1	B	ND
75-25-2	Bromoform	2	O	ND
108-10-1	4-Methyl-2-pentanone	2	R	ND
591-78-6	2-Hexanone	2	A	ND
127-18-4	Tetrachloroethylene	1	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	1	O	ND
108-88-3	Toluene	1	R	ND
108-90-7	Chlorobenzene	1	Y	ND
100-41-4	Ethylbenzene	1		ND

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REVE T Sample No.: 7224

EPA Method  
Detection Limits  
for this sample\*

RESULTS

CAS Number	Compound	ug/L	ug/L
100-42-5	Styrene	1	ND
1330-20-7	Total xylenes	1	ND
108-05-4	Vinyl Acetate	1	ND
541-73-1	1,3-Dichlorobenzene	2	ND
-----	1,2- & 1,4-Dichlorobenzene	2	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

Compound	Surrogate % Recovery	Acceptable Water Limits
1,2-Dichloroethane-d4	100	76-114
Toluene-d8	99	88-110
4-Bromofluorobenzene	90	86-115

Notes:

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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: BLANK.2008.2 REVET Account No.: E2008  
 Client Sample: LABBLK 11/22 Client Location/P.O.:  
 Date Sampled: Date Received:  
 Matrix: Water Date Run: 11/22/93  
 Method: 624 Dilution Factor: 1

Analyst: J. Koguin for Date: 12/14/93  
 A. WOLF

QC Check: S. Taylor Date: 12/14/93

EPA Method RESULTS  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/L		ug/L
74-87-3	Chloromethane	2	R	ND
74-83-9	Bromomethane	2	E	ND
75-01-4	Vinyl Chloride	2	V	ND
75-00-3	Chloroethane	2	E	ND
75-09-2	Methylene chloride	1	T	ND
67-64-1	Acetone	2		ND
75-15-0	Carbon disulfide	1	E	ND
75-35-4	1,1-Dichloroethene	1	N	ND
75-34-3	1,1-Dichloroethane	1	V	ND
156-60-5	1,2-dichloroethenes(total)	1	I	ND
67-66-3	Chloroform	1	R	ND
107-06-2	1,2-Dichloroethane	1	O	ND
78-93-3	2-Butanone (MEK)	2	N	ND
71-55-6	1,1,1-Trichloroethane	1	M	ND
56-23-5	Carbon tetrachloride	1	E	ND
75-27-4	Bromodichloromethane	1	N	ND
78-87-5	1,2-Dichloropropane	1	T	ND
10061-01-5	cis-1,3-Dichloropropene	1	A	ND
79-01-6	Trichloroethylene	1	L	ND
124-48-1	Dibromochloromethane	1		ND
79-00-5	1,1,2-Trichloroethane	1	L	ND
71-43-2	Benzene	1	A	ND
10061-02-6	trans-1,3-Dichloropropene	1	B	ND
75-25-2	Bromoform	2	O	ND
108-10-1	4-Methyl-2-pentanone	2	R	ND
591-78-6	2-Hexanone	2	A	ND
127-18-4	Tetrachloroethylene	1	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	1	O	ND
108-88-3	Toluene	1	R	ND
108-90-7	Chlorobenzene	1	Y	ND
100-41-4	Ethylbenzene	1		ND

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REVET Sample No.: BLANK.2008.2		EPA Method	RESULTS
		Detection Limits	
		for this sample*	
CAS Number	Compound	ug/L	ug/L
100-42-5	Styrene	1	ND
1330-20-7	Total xylenes	1	ND
108-05-4	Vinyl Acetate	1	ND
541-73-1	1,3-Dichlorobenzene	2	ND
-----	1,2- & 1,4-Dichlorobenzene	2	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

Compound	Surrogate % Recovery	Acceptable Water Limits
1,2-Dichloroethane-d4	92	76-114
Toluene-d8	94	88-110
4-Bromofluorobenzene	97	86-115

Notes:

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REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.  
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 Worcester, MA 01605  
 DEP Certification Number 082  
 Telephone (508) 753-3738

VOLATILE ORGANIC COMPOUNDS  
 QC SUMMARY SHEET

Sample ID: 7208 MS/MSD Analysis Date: 11/26/93

Compound	Spike Added ug/l	Sample Concn. ug/l	MS Concn. ug/l	MS % REC.	QC Limits REC.
1,1-Dichloroethene	14000	0	15000	107	61-145
Trichloroethylene	14000	0	15000	107	71-120
Benzene	14000	0	16000	114	76-127
Toluene	14000	0	17000	121	76-125
Chlorobenzene	14000	0	16000	114	75-130

Compound	Spike Added ug/l	MSD Concn. ug/l	MSD % REC	% RPD	QC RPD	Limits REC.
1,1-Dichloroethene	14000	15000	107	0	14	61-145
Trichloroethylene	14000	15000	107	0	14	71-120
Benzene	14000	15000	107	6	11	76-127
Toluene	14000	15000	107	13	13	76-125
Chlorobenzene	14000	15000	107	6	13	75-130

Comments:

Note: This form follows the EPA Contract Laboratory Program format. Matrix Spike must be analyzed for ten percent of all samples submitted to DEP/DWS to fulfill the monitoring requirements of the Pesticide and Volatile Organic Compound Sampling Programs.

A. Wolf  
 A. Wolf, Analyst

12-14-93  
 Date

c:vocqc

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 DEP Certification Number 082  
 Telephone (508) 753-3738

VOLATILE ORGANIC COMPOUNDS  
 QC SUMMARY SHEET

Sample ID: 7209 MS/MSD

Analysis Date: 11/19/93

Compound	Spike Added ug/Kg	Sample Concen. ug/Kg	MS Concen. ug/Kg	MS % REC.	QC Limits REC.
1,1-Dichloroethene	52	0	53	102	59-172
Trichloroethylene	52	0	56	108	62-137
Benzene	52	0	53	102	66-142
Toluene	52	0	52	100	59-139
Chlorobenzene	52	0	52	100	60-133

Compound	Spike Added ug/Kg	MSD Concen. ug/Kg	MSD % REC	% RPD	QC RPD	Limits REC.
1,1-Dichloroethene	52	54	104	2	22	59-172
Trichloroethylene	52	51	98	9	24	62-137
Benzene	52	55	106	4	21	66-142
Toluene	52	56	108	7	21	59-139
Chlorobenzene	52	53	102	2	21	60-133

Comments: \_\_\_\_\_

Note: This form follows the EPA Contract Laboratory Program format. Matrix Spike must be analyzed for ten percent of all samples submitted to DEP/DWS to fulfill the monitoring requirements of the Pesticide and Volatile Organic Compound Sampling Programs.

J. Paquin for  
 A Wolf, Analyst

12/14/93  
 Date

c:vocqc



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VOLATILE ORGANIC COMPOUNDS  
 QC SUMMARY SHEET

Sample ID: 7213 MS/MSD

Analysis Date: 11/23/93

Compound	Spike Added ug/Kg	Sample Concen. ug/Kg	MS Concen. ug/Kg	MS % REC.	QC Limits REC.
1,1-Dichloroethene	51	0	57	112	59-172
Trichloroethylene	51	0	53	104	62-137
Benzene	51	0	49	96	66-142
Toluene	51	0	53	104	59-139
Chlorobenzene	51	0	51	100	60-133

Compound	Spike Added ug/Kg	MSD Concen. ug/Kg	MSD % REC	% RPD	QC RPD	Limits REC.
1,1-Dichloroethene	51	53	104	7	22	59-172
Trichloroethylene	51	53	104	0	24	62-137
Benzene	51	55	108	12	21	66-142
Toluene	51	53	104	0	21	59-139
Chlorobenzene	51	52	102	2	21	60-133

Comments: \_\_\_\_\_

Note: This form follows the EPA Contract Laboratory Program format. Matrix Spike must be analyzed for ten percent of all samples submitted to DEP/DWS to fulfill the monitoring requirements of the Pesticide and Volatile Organic Compound Sampling Programs.

Maguire for  
 A Wolf, Analyst

12/14/93  
 Date

c:vocqc

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VOLATILE ORGANIC COMPOUNDS  
 QC SUMMARY SHEET

Sample ID 7219 MS/MSD

Analysis Date: 11/26/93

Compound	Spike Added ug/L	Sample Concen. ug/L	MS Concen. ug/L	MS % REC.	QC Limits REC.
1,1-Dichloroethene	50	0	51	102	61-145
Trichloroethylene	50	0	61	122	71-120
Benzene	50	0	61	122	76-127
Toluene	50	0	58	116	76-125
Chlorobenzene	50	0	57	114	75-130

Compound	Spike Added ug/L	MSD Concen. ug/L	MSD % REC.	% RPD	QC RPD	QC Limits REC.
1,1-Dichloroethene	50	56	112	9	14	61-145
Trichloroethylene	50	53	106	14	14	71-120
Benzene	50	55	110	10	11	76-127
Toluene	50	55	110	5	13	76-125
Chlorobenzene	50	53	106	7	13	75-130

Comments: \_\_\_\_\_

Note: This form follows the EPA Contract Laboratory Program format. Matrix Spike must be analyzed for ten percent of all samples submitted to DEP/DWS to fulfill the monitoring requirements of the Pesticide and Volatile Organic Compound Sampling Programs.

A. Wolf  
 A. Wolf, Analyst

12-14-93  
 Date

REJET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

15 Belmont Street  
 Worcester, MA 01605-2395  
 DEP Certification MA #082  
 (508) 753-3738

Page 1 of 2

Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: BLANK.1997 REVET Account No.: E1997  
 Client Sample: LABBLK 11/18 Client Location/P.O.:  
 Date Sampled: Date Received:  
 Matrix: Soil Date Run: 11/18/93  
 Method: 8240 Dilution Factor: 1

Analyst: J. Wolf Date: 12-14-93  
 A. WOLF

QC Check: J. Pagnin Date: 12/14/93

CAS Number	Compound	EPA Method		RESULTS**
		Detection Limits	for this sample*	
		ug/kg	ug/kg	
74-87-3	Chloromethane	10	R	ND
74-83-9	Bromomethane	10	E	ND
75-01-4	Vinyl Chloride	10	V	ND
75-00-3	Chloroethane	10	E	ND
75-09-2	Methylene chloride	5	T	ND
67-64-1	Acetone	10		ND
75-15-0	Carbon disulfide	5	E	ND
75-35-4	1,1-Dichloroethene	5	N	ND
75-34-3	1,1-Dichloroethane	5	V	ND
156-60-5	1,2-dichloroethenes(total)	5	I	ND
67-66-3	Chloroform	5	R	ND
107-06-2	1,2-Dichloroethane	5	O	ND
78-93-3	2-Butanone (MEK)	10	N	ND
71-55-6	1,1,1-Trichloroethane	5	M	ND
56-23-5	Carbon tetrachloride	5	E	ND
75-27-4	Bromodichloromethane	5	N	ND
78-87-5	1,2-Dichloropropane	5	T	ND
10061-01-5	cis-1,3-Dichloropropene	5	A	ND
79-01-6	Trichloroethylene	5	L	ND
124-48-1	Dibromochloromethane	5		ND
79-00-5	1,1,2-Trichloroethane	5	L	ND
71-43-2	Benzene	5	A	ND
10061-02-6	trans-1,3-Dichloropropene	5	B	ND
75-25-2	Bromoform	10	O	ND
108-10-1	4-Methyl-2-pentanone	10	R	ND
591-78-6	2-Hexanone	10	A	ND
127-18-4	Tetrachloroethylene	5	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	O	ND
108-88-3	Toluene	5	R	ND
108-90-7	Chlorobenzene	5	Y	ND
100-41-4	Ethylbenzene	5		ND

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REVET Sample No.: BLANK.1997		EPA Method	RESULTS**
		Detection Limits for this sample*	
CAS Number	Compound	ug/kg	ug/kg
100-42-5	Styrene	5	ND
1330-20-7	Total xylenes	5	ND
108-05-4	Vinyl Acetate	5	ND
541-73-1	1,3-Dichlorobenzene	10	ND
-----	1,2- & 1,4-Dichlorobenzene	10	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture-

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	105	70-121
Toluene-d8	108	84-138
4-Bromofluorobenzene	101	59-113

Notes:

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Page 1 of 2

Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7160 REVET Account No.: E1997  
 Client Sample: TRIP BLANK A Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Sampled: 11/16/93 Date Received: 11/16/93  
 Matrix: Water Date Run: 11/26/93  
 Method: 624 Dilution Factor: 1

Analyst: A. Wolf Date: 12-14-93  
 A.WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/L		ug/L
74-87-3	Chloromethane	2	R	ND
74-83-9	Bromomethane	2	E	ND
75-01-4	Vinyl Chloride	2	V	ND
75-00-3	Chloroethane	2	E	ND
75-09-2	Methylene chloride	1	T	ND
67-64-1	Acetone	2		ND
75-15-0	Carbon disulfide	1	E	ND
75-35-4	1,1-Dichloroethene	1	N	ND
75-34-3	1,1-Dichloroethane	1	V	ND
156-60-5	1,2-dichloroethenes(total)	1	I	ND
67-66-3	Chloroform	1	R	ND
107-06-2	1,2-Dichloroethane	1	O	ND
78-93-3	2-Butanone (MEK)	2	N	ND
71-55-6	1,1,1-Trichloroethane	1	M	ND
56-23-5	Carbon tetrachloride	1	E	ND
75-27-4	Bromodichloromethane	1	N	ND
78-87-5	1,2-Dichloropropane	1	T	ND
10061-01-5	cis-1,3-Dichloropropene	1	A	ND
79-01-6	Trichloroethylene	1	L	ND
124-48-1	Dibromochloromethane	1		ND
79-00-5	1,1,2-Trichloroethane	1	L	ND
71-43-2	Benzene	1	A	ND
10061-02-6	trans-1,3-Dichloropropene	1	B	ND
75-25-2	Bromoform	2	O	ND
108-10-1	4-Methyl-2-pentanone	2	R	ND
591-78-6	2-Hexanone	2	A	ND
127-18-4	Tetrachloroethylene	1	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	1	O	ND
108-88-3	Toluene	1	R	ND
108-90-7	Chlorobenzene	1	Y	ND
100-41-4	Ethylbenzene	1		ND

=====

REVET Sample No.: 7160		EPA Method	RESULTS
		Detection Limits for this sample*	
CAS Number	Compound	ug/L	ug/L
100-42-5	Styrene	1	ND
1330-20-7	Total xylenes	1	ND
108-05-4	Vinyl Acetate	1	ND
541-73-1	1,3-Dichlorobenzene	2	ND
-----	1,2- & 1,4-Dichlorobenzene	2	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

Compound	Surrogate % Recovery	Acceptable Water Limits
1,2-Dichloroethane-d4	92	76-114
Toluene-d8	103	88-110
4-Bromofluorobenzene	86	86-115

Notes:

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Page 1 of 2

Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7236 REVET Account No.: E2008  
 Client Sample: FIELD BLANK #1 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Water Date Run: 12/10/93  
 Method: 625 Dilution Factor: 1

Analyst: J. Paquin Date: 12/30/93  
 J. Paquin, Ph.D.

QC Check: E Taylor Date: 12/30/93

EPA Method RESULTS  
 Detection Limit  
 for this sample\*

CAS Number	Compound	ug/L		ug/L
108-95-2	Phenol	10	R	ND
111-44-4	Bis(2-chloroethyl)ether	10	E	ND
95-57-8	2-Chlorophenol	10	V	ND
541-73-1	1,3-Dichlorobenzene	10	E	ND
106-56-7	1,4-Dichlorobenzene	10	T	ND
95-50-1	1,2-Dichlorobenzene	10		ND
95-48-7	2-Methylphenol (o-Cresol)	10	L	ND
108-60-1	Bis(2-chloroisopropyl)ether	10	A	ND
106-44-5	4-Methylphenol (p-Cresol)	10	B	ND
621-64-7	N-Nitroso-di-n-propylamine	10	O	ND
67-72-1	Hexachloroethane	10	R	ND
98-95-3	Nitrobenzene	10	A	ND
78-59-1	Isophorone	10	T	ND
88-75-5	2-Nitrophenol	10	O	ND
105-67-9	2,4-Dimethylphenol	10	R	ND
111-91-1	Bis(2-chloroethoxy)methane	10	I	ND
120-83-2	2,4-Dichlorophenol	10	E	ND
120-82-1	1,2,4-Trichlorobenzene	10	S	ND
91-20-3	Naphthalene	10		ND
106-47-8	4-Chloroaniline	10	I	ND
87-68-3	Hexachlorobutadiene	10	N	ND
59-50-7	4-Chloro-3-methylphenol	10	C	ND
91-57-6	2-Methylnaphthalene	10		ND
77-47-4	Hexachlorocyclopentadiene	10		ND
88-06-2	2,4,6-Trichlorophenol	10	R	ND
95-95-4	2,4,5-Trichlorophenol	25	E	ND
91-58-7	2-Chloronaphthalene	10	V	ND
88-74-4	2-Nitroaniline	25	E	ND
131-11-3	Dimethylphthalate	10	T	ND
208-96-8	Acenaphthylene	10		ND
606-20-2	2,6-Dinitrotoluene	10		ND
99-09-2	3-Nitroaniline	25	L	ND
83-32-9	Acenaphthene	10	A	ND
51-28-5	2,4-Dinitrophenol	25	B	ND
100-02-7	4-Nitrophenol	25	S	ND
132-64-9	Dibenzofuran	10		ND
121-14-2	2,4-Dinitrotoluene	10		ND



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Page 1 of 2

=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7237 REVET Account No.: E2008  
 Client Sample: FIELD BLANK #2 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Water Date Run: 12/10/93  
 Method: 625 Dilution Factor: 1

Analyst: J. Paquin Date: 12/30/93  
 J. Paquin, Ph.D.

QC Check: E. Taylor Date: 12/30/93  
 EPA Method

RESULTS

Detection Limit  
 for this sample\*

CAS Number	Compound	ug/L		ug/L
108-95-2	Phenol	10	R	ND
111-44-4	Bis(2-chloroethyl)ether	10	E	ND
95-57-8	2-Chlorophenol	10	V	ND
541-73-1	1,3-Dichlorobenzene	10	E	ND
106-56-7	1,4-Dichlorobenzene	10	T	ND
95-50-1	1,2-Dichlorobenzene	10		ND
95-48-7	2-Methylphenol (o-Cresol)	10	L	ND
108-60-1	Bis(2-chloroisopropyl)ether	10	A	ND
106-44-5	4-Methylphenol (p-Cresol)	10	B	ND
621-64-7	N-Nitroso-di-n-propylamine	10	O	ND
67-72-1	Hexachloroethane	10	R	ND
98-95-3	Nitrobenzene	10	A	ND
78-59-1	Isophorone	10	T	ND
88-75-5	2-Nitrophenol	10	O	ND
105-67-9	2,4-Dimethylphenol	10	R	ND
111-91-1	Bis(2-chloroethoxy)methane	10	I	ND
120-83-2	2,4-Dichlorophenol	10	E	ND
120-82-1	1,2,4-Trichlorobenzene	10	S	ND
91-20-3	Naphthalene	10		ND
106-47-8	4-Chloroaniline	10	I	ND
87-68-3	Hexachlorobutadiene	10	N	ND
59-50-7	4-Chloro-3-methylphenol	10	C	ND
91-57-6	2-Methylnaphthalene	10		ND
77-47-4	Hexachlorocyclopentadiene	10		ND
88-06-2	2,4,6-Trichlorophenol	10	R	ND
95-95-4	2,4,5-Trichlorophenol	25	E	ND
91-58-7	2-Chloronaphthalene	10	V	ND
88-74-4	2-Nitroaniline	25	E	ND
131-11-3	Dimethylphthalate	10	T	ND
208-96-8	Acenaphthylene	10		ND
606-20-2	2,6-Dinitrotoluene	10		ND
99-09-2	3-Nitroaniline	25	L	ND
83-32-9	Acenaphthene	10	A	ND
51-28-5	2,4-Dinitrophenol	25	B	ND
100-02-7	4-Nitrophenol	25	S	ND
132-64-9	Dibenzofuran	10		ND
121-14-2	2,4-Dinitrotoluene	10		ND

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181 Cedar Hill Street

Marlboro, MA 01752

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Page 1 of 2

Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7238 REVET Account No.: E2008  
 Client Sample: EQUIPMENT BLANK #1 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Water Date Run: 12/10/93  
 Method: 625 Dilution Factor: 1

Analyst: J. Paquin Date: 12/30/93  
 J. Paquin, Ph.D.

QC Check: E Taylor Date: 12/30/93  
 EPA Method

RESULTS

CAS Number	Compound	ug/L		ug/L
108-95-2	Phenol	10	R	ND
111-44-4	Bis(2-chloroethyl)ether	10	E	ND
95-57-8	2-Chlorophenol	10	V	ND
541-73-1	1,3-Dichlorobenzene	10	E	ND
106-56-7	1,4-Dichlorobenzene	10	T	ND
95-50-1	1,2-Dichlorobenzene	10		ND
95-48-7	2-Methylphenol (o-Cresol)	10	L	ND
108-60-1	Bis(2-chloroisopropyl)ether	10	A	ND
106-44-5	4-Methylphenol (p-Cresol)	10	B	ND
621-64-7	N-Nitroso-di-n-propylamine	10	O	ND
67-72-1	Hexachloroethane	10	R	ND
98-95-3	Nitrobenzene	10	A	ND
78-59-1	Isophorone	10	T	ND
88-75-5	2-Nitrophenol	10	O	ND
105-67-9	2,4-Dimethylphenol	10	R	ND
111-91-1	Bis(2-chloroethoxy)methane	10	I	ND
120-83-2	2,4-Dichlorophenol	10	E	ND
120-82-1	1,2,4-Trichlorobenzene	10	S	ND
91-20-3	Naphthalene	10		ND
106-47-8	4-Chloroaniline	10	I	ND
87-68-3	Hexachlorobutadiene	10	N	ND
59-50-7	4-Chloro-3-methylphenol	10	C	ND
91-57-6	2-Methylnaphthalene	10		ND
77-47-4	Hexachlorocyclopentadiene	10		ND
88-06-2	2,4,6-Trichlorophenol	10	R	ND
95-95-4	2,4,5-Trichlorophenol	25	E	ND
91-58-7	2-Chloronaphthalene	10	V	ND
88-74-4	2-Nitroaniline	25	E	ND
131-11-3	Dimethylphthalate	10	T	ND
208-96-8	Acenaphthylene	10		ND
606-20-2	2,6-Dinitrotoluene	10		ND
99-09-2	3-Nitroaniline	25	L	ND
83-32-9	Acenaphthene	10	A	ND
51-28-5	2,4-Dinitrophenol	25	B	ND
100-02-7	4-Nitrophenol	25	S	ND
132-64-9	Dibenzofuran	10		ND
121-14-2	2,4-Dinitrotoluene	10		ND

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Page 1 of 2

Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7239 REVET Account No.: E2008  
 Client Sample: EQUIPMENT BLANK #2 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Water Date Run: 12/10/93  
 Method: 625 Dilution Factor: 1

Analyst: J. Paquin Date: 12/30/93  
 J. Paquin, Ph.D.

QC Check: E. Tylek Date: 12/30/93

EPA Method RESULTS  
 Detection Limit  
 for this sample\*

CAS Number	Compound	ug/L		ug/L
108-95-2	Phenol	10	R	ND
111-44-4	Bis(2-chloroethyl)ether	10	E	ND
95-57-8	2-Chlorophenol	10	V	ND
541-73-1	1,3-Dichlorobenzene	10	E	ND
106-56-7	1,4-Dichlorobenzene	10	T	ND
95-50-1	1,2-Dichlorobenzene	10		ND
95-48-7	2-Methylphenol (o-Cresol)	10	L	ND
108-60-1	Bis(2-chloroisopropyl)ether	10	A	ND
106-44-5	4-Methylphenol (p-Cresol)	10	B	ND
621-64-7	N-Nitroso-di-n-propylamine	10	O	ND
67-72-1	Hexachloroethane	10	R	ND
98-95-3	Nitrobenzene	10	A	ND
78-59-1	Isophorone	10	T	ND
88-75-5	2-Nitrophenol	10	O	ND
105-67-9	2,4-Dimethylphenol	10	R	ND
111-91-1	Bis(2-chloroethoxy)methane	10	I	ND
120-83-2	2,4-Dichlorophenol	10	E	ND
120-82-1	1,2,4-Trichlorobenzene	10	S	ND
91-20-3	Naphthalene	10		ND
106-47-8	4-Chloroaniline	10	I	ND
87-68-3	Hexachlorobutadiene	10	N	ND
59-50-7	4-Chloro-3-methylphenol	10	C	ND
91-57-6	2-Methylnaphthalene	10		ND
77-47-4	Hexachlorocyclopentadiene	10		ND
88-06-2	2,4,6-Trichlorophenol	10	R	ND
95-95-4	2,4,5-Trichlorophenol	25	E	ND
91-58-7	2-Chloronaphthalene	10	V	ND
88-74-4	2-Nitroaniline	25	E	ND
131-11-3	Dimethylphthalate	10	T	ND
208-96-8	Acenaphthylene	10		ND
606-20-2	2,6-Dinitrotoluene	10		ND
99-09-2	3-Nitroaniline	25	L	ND
83-32-9	Acenaphthene	10	A	ND
51-28-5	2,4-Dinitrophenol	25	B	ND
100-02-7	4-Nitrophenol	25	S	ND
132-64-9	Dibenzofuran	10		ND
121-14-2	2,4-Dinitrotoluene	10		ND

REVE ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street

Marlboro, MA 01752

(508) 460-7600 MA #082

Page 1 of 2

Client: OPTECH  
 Revet Sample No.: 7333  
 Client Sample: EQUIPMENT BLANK #3  
 Date Sampled: 11/18/93  
 Matrix: Water  
 Method: 625  
 Contact: JOHN MORRIS  
 REVET Account No.: E2014  
 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Received: 11/18/93  
 Date Run: 12/10/93  
 Dilution Factor: 1

Analyst: J. Paquin Date: 12/30/93  
 J. Paquin, Ph.D.

QC Check: J. Taylor Date: 12/30/93

CAS Number	Compound	EPA Method	Detection Limit for this sample*	RESULTS
			ug/L	ug/L
108-95-2	Phenol		10	R ND
111-44-4	Bis(2-chloroethyl)ether		10	E ND
95-57-8	2-Chlorophenol		10	V ND
541-73-1	1,3-Dichlorobenzene		10	E ND
106-56-7	1,4-Dichlorobenzene		10	T ND
95-50-1	1,2-Dichlorobenzene		10	ND
95-48-7	2-Methylphenol (o-Cresol)		10	L ND
108-60-1	Bis(2-chloroisopropyl)ether		10	A ND
106-44-5	4-Methylphenol (p-Cresol)		10	B ND
621-64-7	N-Nitroso-di-n-propylamine		10	O ND
67-72-1	Hexachloroethane		10	R ND
98-95-3	Nitrobenzene		10	A ND
78-59-1	Isophorone		10	T ND
88-75-5	2-Nitrophenol		10	O ND
105-67-9	2,4-Dimethylphenol		10	R ND
111-91-1	Bis(2-chloroethoxy)methane		10	I ND
120-83-2	2,4-Dichlorophenol		10	E ND
120-82-1	1,2,4-Trichlorobenzene		10	S ND
91-20-3	Naphthalene		10	ND
106-47-8	4-Chloroaniline		10	I ND
87-68-3	Hexachlorobutadiene		10	N ND
59-50-7	4-Chloro-3-methylphenol		10	C ND
91-57-6	2-Methylnaphthalene		10	ND
77-47-4	Hexachlorocyclopentadiene		10	ND
88-06-2	2,4,6-Trichlorophenol		10	R ND
95-95-4	2,4,5-Trichlorophenol		25	E ND
91-58-7	2-Chloronaphthalene		10	V ND
88-74-4	2-Nitroaniline		25	E ND
131-11-3	Dimethylphthalate		10	T ND
208-96-8	Acenaphthylene		10	ND
606-20-2	2,6-Dinitrotoluene		10	ND
99-09-2	3-Nitroaniline		25	L ND
83-32-9	Acenaphthene		10	A ND
51-28-5	2,4-Dinitrophenol		25	B ND
100-02-7	4-Nitrophenol		25	S ND
132-64-9	Dibenzofuran		10	ND
121-14-2	2,4-Dinitrotoluene		10	ND

REVE ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

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Page 1 of 2

Client: OPTTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7334 REVE Account No.: E2014  
 Client Sample: FIELD BLANK #3 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/18/93 Date Received: 11/18/93  
 Matrix: Water Date Run: 12/10/93  
 Method: 625 Dilution Factor: 1

Analyst: J. Paquin Date: 12/30/93  
 J. Paquin, Ph.D.

QC Check: E. Taylor Date: 12/30/93  
 EPA Method

RESULTS

Detection Limit  
 for this sample\*

CAS Number	Compound	ug/L		ug/L
108-95-2	Phenol	10	R	ND
111-44-4	Bis(2-chloroethyl)ether	10	E	ND
95-57-8	2-Chlorophenol	10	V	ND
541-73-1	1,3-Dichlorobenzene	10	E	ND
106-56-7	1,4-Dichlorobenzene	10	T	ND
95-50-1	1,2-Dichlorobenzene	10		ND
95-48-7	2-Methylphenol (o-Cresol)	10	L	ND
108-60-1	Bis(2-chloroisopropyl)ether	10	A	ND
106-44-5	4-Methylphenol (p-Cresol)	10	B	ND
621-64-7	N-Nitroso-di-n-propylamine	10	O	ND
67-72-1	Hexachloroethane	10	R	ND
98-95-3	Nitrobenzene	10	A	ND
78-59-1	Isophorone	10	T	ND
88-75-5	2-Nitrophenol	10	O	ND
105-67-9	2,4-Dimethylphenol	10	R	ND
111-91-1	Bis(2-chloroethoxy)methane	10	I	ND
120-83-2	2,4-Dichlorophenol	10	E	ND
120-82-1	1,2,4-Trichlorobenzene	10	S	ND
91-20-3	Naphthalene	10		ND
106-47-8	4-Chloroaniline	10	I	ND
87-68-3	Hexachlorobutadiene	10	N	ND
59-50-7	4-Chloro-3-methylphenol	10	C	ND
91-57-6	2-Methylnaphthalene	10		ND
77-47-4	Hexachlorocyclopentadiene	10		ND
88-06-2	2,4,6-Trichlorophenol	10	R	ND
95-95-4	2,4,5-Trichlorophenol	25	E	ND
91-58-7	2-Chloronaphthalene	10	V	ND
88-74-4	2-Nitroaniline	25	E	ND
131-11-3	Dimethylphthalate	10	T	ND
208-96-8	Acenaphthylene	10		ND
606-20-2	2,6-Dinitrotoluene	10		ND
99-09-2	3-Nitroaniline	25	L	ND
83-32-9	Acenaphthene	10	A	ND
51-28-5	2,4-Dinitrophenol	25	B	ND
100-02-7	4-Nitrophenol	25	S	ND
132-64-9	Dibenzofuran	10		ND
121-14-2	2,4-Dinitrotoluene	10		ND

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Page 1 of 2

Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: BLANK.2008 REVET Account No.: E2008  
 Client Sample: LABBLK 11/18 Location / PO:  
 Date Sampled: Date Received:  
 Matrix: Water Date Run: 12/10/93  
 Method: 625 Dilution Factor: 1

Analyst: J. Paquin Date: 12/30/93  
 J. Paquin, Ph.D.

QC Check: E. Taylor Date: 12/30/93

EPA Method RESULTS  
 Detection Limit  
 for this sample\*

CAS Number	Compound	ug/L		ug/L
108-95-2	Phenol	10	R	ND
111-44-4	Bis(2-chloroethyl)ether	10	E	ND
95-57-8	2-Chlorophenol	10	V	ND
541-73-1	1,3-Dichlorobenzene	10	E	ND
106-56-7	1,4-Dichlorobenzene	10	T	ND
95-50-1	1,2-Dichlorobenzene	10		ND
95-48-7	2-Methylphenol (o-Cresol)	10	L	ND
108-60-1	Bis(2-chloroisopropyl)ether	10	A	ND
106-44-5	4-Methylphenol (p-Cresol)	10	B	ND
621-64-7	N-Nitroso-di-n-propylamine	10	O	ND
67-72-1	Hexachloroethane	10	R	ND
98-95-3	Nitrobenzene	10	A	ND
78-59-1	Isophorone	10	T	ND
88-75-5	2-Nitrophenol	10	O	ND
105-67-9	2,4-Dimethylphenol	10	R	ND
111-91-1	Bis(2-chloroethoxy)methane	10	I	ND
120-83-2	2,4-Dichlorophenol	10	E	ND
120-82-1	1,2,4-Trichlorobenzene	10	S	ND
91-20-3	Naphthalene	10		ND
106-47-8	4-Chloroaniline	10	I	ND
87-68-3	Hexachlorobutadiene	10	N	ND
59-50-7	4-Chloro-3-methylphenol	10	C	ND
91-57-6	2-Methylnaphthalene	10		ND
77-47-4	Hexachlorocyclopentadiene	10		ND
88-06-2	2,4,6-Trichlorophenol	10	R	ND
95-95-4	2,4,5-Trichlorophenol	25	E	ND
91-58-7	2-Chloronaphthalene	10	V	ND
88-74-4	2-Nitroaniline	25	E	ND
131-11-3	Dimethylphthalate	10	T	ND
208-96-8	Acenaphthylene	10		ND
606-20-2	2,6-Dinitrotoluene	10		ND
99-09-2	3-Nitroaniline	25	L	ND
83-32-9	Acenaphthene	10	A	ND
51-28-5	2,4-Dinitrophenol	25	B	ND
100-02-7	4-Nitrophenol	25	S	ND
132-64-9	Dibenzofuran	10		ND
121-14-2	2,4-Dinitrotoluene	10		ND

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: REVET

Contract:

Lab Code: REVET

Case No.:

SAS No.:

SDG No.:

Matrix Spike - QC 11/18/93

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	75	0	66	88	12-110
2-Chlorophenol	75	0	70	93	27-123
1,4-Dichlorobenzene	50	0	46	92	36- 97
N-Nitroso-di-n-prop(1)	50	0	43	86	41-116
1,2,4-Trichlorobenzene	50	0	49	98	39- 98
4-Chloro-3-methylphenol	75	0	78	104	23- 97
Acenaphthene	50	0	56	112	46-118
4-Nitrophenol	75	0	85	113	10- 80
2,4-Dinitrotoluene	50	0	54	104	24- 96
Pentachlorophenol	75	0	104	139	9-103
Pyrene	50	0	51	102	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
Phenol	75	--		12	12-110
2-Chlorophenol	75	--		10	27-123
1,4-Dichlorobenzene	50	--		18	36- 97
N-Nitroso-di-n-prop(1)	50	--		18	41-116
1,2,4-Trichlorobenzene	50	--		18	39- 98
4-Chloro-3-methylphenol	75	--		2	23- 97
Acenaphthene	50	--		1	46-118
4-Nitrophenol	75	--		0	10- 80
2,4-Dinitrotoluene	50	--		8	24- 96
Pentachlorophenol	75	--		0	9-103
Pyrene	50	--		1	26-127

ONLY MS  
WAS REPORTED  
MISSING  
MSD RESULTS!

(1) N-Nitroso-di-n-propylamine

# Column to be used to flag recovery

\* Values outside of QC limits

RPD: \_\_\_\_\_ out of \_\_\_\_\_ outside  
Spike Recovery: 4 out of 11 outside limits

COMMENTS:

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7326 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-023DL

Sample wt/vol: 30.12 (g/mL) g

Lab File ID: DH158.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	7500	U D
62-53-3	Aniline	7500	U D
111-44-4	bis(2-Chloroethyl) ether	7500	U D
95-57-8	2-Chlorophenol	7500	U D
541-73-1	1,3-Dichlorobenzene	7500	U D
106-46-7	1,4-Dichlorobenzene	7500	U D
100-51-6	Benzyl Alcohol	7500	U D
95-50-1	1,2-Dichlorobenzene	7500	U D
95-48-7	2-Methylphenol	7500	U D
108-60-1	2,2'-oxybis(1-Chloropropane)	7500	U D
106-44-5	4-Methylphenol	7500	U D
621-64-7	N-Nitroso-di-n-propylamine	7500	U D
67-72-1	Hexachloroethane	7500	U D
98-95-3	Nitrobenzene	7500	U D
78-59-1	Isophorone	7500	U D
88-75-5	2-Nitrophenol	7500	U D
105-67-9	2,4-Dimethylphenol	7500	U D
65-85-0	Benzoic Acid	19000	U D
111-91-1	bis(2-Chloroethoxy) methane	7500	U D
120-83-2	2,4-Dichlorophenol	7500	U D
120-82-1	1,2,4-Trichlorobenzene	7500	U D
91-20-3	Naphthalene	7500	U D
106-47-8	4-Chloroaniline	7500	U D
87-68-3	Hexachlorobutadiene	7500	U D
59-50-7	4-Chloro-3-methylphenol	7500	U D
91-57-6	2-Methylnaphthalene	7500	U D
77-47-4	Hexachlorocyclopentadiene	7500	U D
88-06-2	2,4,6-Trichlorophenol	7500	U D
95-95-4	2,4,5-Trichlorophenol	19000	U D
91-58-7	2-Chloronaphthalene	7500	U D
88-74-4	2-Nitroaniline	19000	U D
131-11-3	Dimethylphthalate	7500	U D
208-96-8	Acenaphthylene	7500	U D



1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7326 ~~DL~~

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-023 ~~DL~~

Sample wt/vol: 30.12 (g/mL) g

Lab File ID: DH158.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2	2,6-Dinitrotoluene	7500	U D
99-09-2	3-Nitroaniline	19000	U D
83-32-9	Acenaphthene	7500	U D
51-28-5	2,4-Dinitrophenol	19000	U D
100-02-7	4-Nitrophenol	19000	U D
132-64-9	Dibenzofuran	7500	U D
121-14-2	2,4-Dinitrotoluene	7500	U D
84-66-2	Diethylphthalate	7500	U D
7005-72-3	4-Chlorophenyl-phenylether	7500	U D
86-73-7	Fluorene	7500	U D
100-01-6	4-Nitroaniline	19000	U D
534-52-1	4,6-Dinitro-2-methylphenol	19000	U D
86-30-6	N-Nitrosodiphenylamine	7500	U D
101-55-3	4-Bromophenyl-phenylether	7500	U D
118-74-1	Hexachlorobenzene	7500	U D
87-86-5	Pentachlorophenol	19000	U D
85-01-8	Phenanthrene	1500	JD
120-12-7	Anthracene	7500	U D
86-74-8	Carbazole	7500	U D
84-74-2	Di-n-butylphthalate	7500	U D
206-44-0	Fluoranthene	2300	JD
92-87-5	Benzidine	7500	U D
129-00-0	Pyrene	2800	JD
85-68-7	Butylbenzylphthalate	7500	U D
91-94-1	3,3'-Dichlorobenzidine	7500	U D
56-55-3	Benzo(a)anthracene	7500	U D
218-01-9	Chrysene	1500	JD
117-81-7	bis(2-Ethylhexyl)phthalate	7500	U D
117-84-0	Di-n-octylphthalate	7500	U D
205-99-2	Benzo(b)fluoranthene	7500	U D
207-08-9	Benzo(k)fluoranthene	7500	U D
50-32-8	Benzo(a)pyrene	1400	JD
193-39-5	Indeno(1,2,3-cd)pyrene	7500	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7326 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-023 DL

Sample wt/vol: 30.12 (g/mL) g

Lab File ID: DH158.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
53-70-3-----	Dibenzo(a,h)anthracene	7500	U D
191-24-2-----	Benzo(g,h,i)perylene	1400	JD

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7328 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-025 *DL*

Sample wt/vol: 30.26 (g/mL) g

Lab File ID: DH160.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.	COMPOUND	UG/KG	Q
108-95-2	Phenol	8300	U D
62-53-3	Aniline	8300	U D
111-44-4	bis(2-Chloroethyl) ether	8300	U D
95-57-8	2-Chlorophenol	8300	U D
541-73-1	1,3-Dichlorobenzene	8300	U D
106-46-7	1,4-Dichlorobenzene	8300	U D
100-51-6	Benzyl Alcohol	8300	U D
95-50-1	1,2-Dichlorobenzene	8300	U D
95-48-7	2-Methylphenol	8300	U D
108-60-1	2,2'-oxybis(1-Chloropropane)	8300	U D
106-44-5	4-Methylphenol	8300	U D
621-64-7	N-Nitroso-di-n-propylamine	8300	U D
67-72-1	Hexachloroethane	8300	U D
98-95-3	Nitrobenzene	8300	U D
78-59-1	Isophorone	8300	U D
88-75-5	2-Nitrophenol	8300	U D
105-67-9	2,4-Dimethylphenol	8300	U D
65-85-0	Benzoic Acid	21000	U D
111-91-1	bis(2-Chloroethoxy) methane	8300	U D
120-83-2	2,4-Dichlorophenol	8300	U D
120-82-1	1,2,4-Trichlorobenzene	8300	U D
91-20-3	Naphthalene	8300	U D
106-47-8	4-Chloroaniline	8300	U D
87-68-3	Hexachlorobutadiene	8300	U D
59-50-7	4-Chloro-3-methylphenol	8300	U D
91-57-6	2-Methylnaphthalene	8300	U D
77-47-4	Hexachlorocyclopentadiene	8300	U D
88-06-2	2,4,6-Trichlorophenol	8300	U D
95-95-4	2,4,5-Trichlorophenol	21000	U D
91-58-7	2-Chloronaphthalene	8300	U D
88-74-4	2-Nitroaniline	21000	U D
131-11-3	Dimethylphthalate	8300	U D
208-96-8	Acenaphthylene	8300	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7328 DL

Lab Name: GALSON LABORATORIES                      Contract:  
 Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265  
 Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-025 D  
 Sample wt/vol:                      30.26 (g/mL) g                      Lab File ID: DH160.94  
 Level: (low/med) LOW                      Date Received: 12/30/93  
 % Moisture: 20.    decanted: (Y/N) N                      Date Extracted: 11/24/93  
 Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/07/94  
 Injection Volume: 1.0 (uL)                      Dilution Factor: 20.0  
 GPC Cleanup: (Y/N) N                      pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2	2,6-Dinitrotoluene	8300	U D
99-09-2	3-Nitroaniline	21000	U D
83-32-9	Acenaphthene	8300	U D
51-28-5	2,4-Dinitrophenol	21000	U D
100-02-7	4-Nitrophenol	21000	U D
132-64-9	Dibenzofuran	8300	U D
121-14-2	2,4-Dinitrotoluene	8300	U D
84-66-2	Diethylphthalate	8300	U D
7005-72-3	4-Chlorophenyl-phenylether	8300	U D
86-73-7	Fluorene	8300	U D
100-01-6	4-Nitroaniline	21000	U D
534-52-1	4,6-Dinitro-2-methylphenol	21000	U D
86-30-6	N-Nitrosodiphenylamine	8300	U D
101-55-3	4-Bromophenyl-phenylether	8300	U D
118-74-1	Hexachlorobenzene	8300	U D
87-86-5	Pentachlorophenol	21000	U D
85-01-8	Phenanthrene	5300	JD
120-12-7	Anthracene	1400	JD
86-74-8	Carbazole	8300	U D
84-74-2	Di-n-butylphthalate	8300	U D
206-44-0	Fluoranthene	6800	JD
92-87-5	Benzidine	8300	U D
129-00-0	Pyrene	8400	D
85-68-7	Butylbenzylphthalate	8300	U D
91-94-1	3,3'-Dichlorobenzidine	8300	U D
56-55-3	Benzo(a)anthracene	3400	JD
218-01-9	Chrysene	3600	JD
117-81-7	bis(2-Ethylhexyl)phthalate	8300	U D
117-84-0	Di-n-octylphthalate	8300	U D
205-99-2	Benzo(b)fluoranthene	3300	JD
207-08-9	Benzo(k)fluoranthene	2300	JD
50-32-8	Benzo(a)pyrene	3200	JD
193-39-5	Indeno(1,2,3-cd)pyrene	8300	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7328 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-025 *DL*

Sample wt/vol: 30.26 (g/mL) g

Lab File ID: ^DH160.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
53-70-3-----	Dibenzo(a,h)anthracene	8300	U D
191-24-2-----	Benzo(g,h,i)perylene	1800	JD

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7331 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-030 DL

Sample wt/vol: 30.01 (g/mL) g

Lab File ID: ^DH162.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.

COMPOUND

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	7500	U D
62-53-3	Aniline	7500	U D
111-44-4	bis(2-Chloroethyl) ether	7500	U D
95-57-8	2-Chlorophenol	7500	U D
541-73-1	1,3-Dichlorobenzene	7500	U D
106-46-7	1,4-Dichlorobenzene	7500	U D
100-51-6	Benzyl Alcohol	7500	U D
95-50-1	1,2-Dichlorobenzene	7500	U D
95-48-7	2-Methylphenol	7500	U D
108-60-1	2,2'-oxybis(1-Chloropropane)	7500	U D
106-44-5	4-Methylphenol	7500	U D
621-64-7	N-Nitroso-di-n-propylamine	7500	U D
67-72-1	Hexachloroethane	7500	U D
98-95-3	Nitrobenzene	7500	U D
78-59-1	Isophorone	7500	U D
88-75-5	2-Nitrophenol	7500	U D
105-67-9	2,4-Dimethylphenol	7500	U D
65-85-0	Benzoic Acid	19000	U D
111-91-1	bis(2-Chloroethoxy) methane	7500	U D
120-83-2	2,4-Dichlorophenol	7500	U D
120-82-1	1,2,4-Trichlorobenzene	7500	U D
91-20-3	Naphthalene	7500	U D
106-47-8	4-Chloroaniline	7500	U D
87-68-3	Hexachlorobutadiene	7500	U D
59-50-7	4-Chloro-3-methylphenol	7500	U D
91-57-6	2-Methylnaphthalene	7500	U D
77-47-4	Hexachlorocyclopentadiene	7500	U D
88-06-2	2,4,6-Trichlorophenol	7500	U D
95-95-4	2,4,5-Trichlorophenol	19000	U D
91-58-7	2-Chloronaphthalene	7500	U D
88-74-4	2-Nitroaniline	19000	U D
131-11-3	Dimethylphthalate	7500	U D
208-96-8	Acenaphthylene	7500	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7331 DL

Lab Name: GALSON LABORATORIES                      Contract:

Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265

Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-030 **DL**

Sample wt/vol:                      30.01 (g/mL) g                      Lab File ID: DH162.94

Level: (low/med) LOW                      Date Received: 12/30/93

% Moisture: 11                      decanted: (Y/N) N                      Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)                      Dilution Factor: 20.0

GPC Cleanup: (Y/N) N                      pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2	2,6-Dinitrotoluene	7500	U D
99-09-2	3-Nitroaniline	19000	U D
83-32-9	Acenaphthene	7500	U D
51-28-5	2,4-Dinitrophenol	19000	U D
100-02-7	4-Nitrophenol	19000	U D
132-64-9	Dibenzofuran	7500	U D
121-14-2	2,4-Dinitrotoluene	7500	U D
84-66-2	Diethylphthalate	7500	U D
7005-72-3	4-Chlorophenyl-phenylether	7500	U D
86-73-7	Fluorene	7500	U D
100-01-6	4-Nitroaniline	19000	U D
534-52-1	4,6-Dinitro-2-methylphenol	19000	U D
86-30-6	N-Nitrosodiphenylamine	7500	U D
101-55-3	4-Bromophenyl-phenylether	7500	U D
118-74-1	Hexachlorobenzene	7500	U D
87-86-5	Pentachlorophenol	19000	U D
85-01-8	Phenanthrene	7500	U D
120-12-7	Anthracene	7500	U D
86-74-8	Carbazole	7500	U D
84-74-2	Di-n-butylphthalate	7500	U D
206-44-0	Fluoranthene	7500	U D
92-87-5	Benzidine	7500	U D
129-00-0	Pyrene	7500	U D
85-68-7	Butylbenzylphthalate	7500	U D
91-94-1	3,3'-Dichlorobenzidine	7500	U D
56-55-3	Benzo(a)anthracene	7500	U D
218-01-9	Chrysene	7500	U D
117-81-7	bis(2-Ethylhexyl)phthalate	7500	U D
117-84-0	Di-n-octylphthalate	7500	U D
205-99-2	Benzo(b)fluoranthene	7500	U D
207-08-9	Benzo(k)fluoranthene	7500	U D
50-32-8	Benzo(a)pyrene	7500	U D
193-39-5	Indeno(1,2,3-cd)pyrene	7500	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7331 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-030 DL

Sample wt/vol: 30.01 (g/mL) g

Lab File ID: DH162.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
53-70-3-----	Dibenzo(a,h)anthracene	7500	U D
191-24-2-----	Benzo(g,h,i)perylene	7500	U D



**Blank Data**

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MBLK-11/19/93

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: Q5-1502

Sample wt/vol: 30 (g/mL) g

Lab File ID: DH106.94

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/05/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	330	U
62-53-3-----	Aniline	330	U
111-44-4-----	bis(2-Chloroethyl) ether	330	U
95-57-8-----	2-Chlorophenol	330	U
541-73-1-----	1,3-Dichlorobenzene	330	U
106-46-7-----	1,4-Dichlorobenzene	330	U
100-51-6-----	Benzyl Alcohol	330	U
95-50-1-----	1,2-Dichlorobenzene	330	U
95-48-7-----	2-Methylphenol	330	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	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
65-85-0-----	Benzoic Acid	830	U
111-91-1-----	bis(2-Chloroethoxy) methane	330	U
120-83-2-----	2,4-Dichlorophenol	330	U
120-82-1-----	1,2,4-Trichlorobenzene	330	U
91-20-3-----	Naphthalene	330	U
106-47-8-----	4-Chloroaniline	330	U
87-68-3-----	Hexachlorobutadiene	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
91-58-7-----	2-Chloronaphthalene	330	U
88-74-4-----	2-Nitroaniline	830	U
131-11-3-----	Dimethylphthalate	330	U
208-96-8-----	Acenaphthylene	330	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MBLK-11/19/93

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: Q5-1502

Sample wt/vol: 30 (g/mL) g

Lab File ID: DH106.94

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/05/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

606-20-2-----	2,6-Dinitrotoluene	330	U
99-09-2-----	3-Nitroaniline	830	U
83-32-9-----	Acenaphthene	330	U
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	50	J
7005-72-3-----	4-Chlorophenyl-phenylether	330	U
86-73-7-----	Fluorene	330	U
100-01-6-----	4-Nitroaniline	830	U
534-52-1-----	4,6-Dinitro-2-methylphenol	830	U
86-30-6-----	N-Nitrosodiphenylamine	330	U
101-55-3-----	4-Bromophenyl-phenylether	330	U
118-74-1-----	Hexachlorobenzene	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
92-87-5-----	Benzidine	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	330	U
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

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MBLK-11/19/93

Lab Name: GALSON LABORATORIES                      Contract:  
 Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265  
 Matrix: (soil/water) SOIL                      Lab Sample ID: Q5-1502  
 Sample wt/vol:                      30                      (g/mL) g                      Lab File ID: DH106.94  
 Level:                      (low/med)                      LOW                      Date Received: 00/00/00  
 % Moisture: 0                      decanted: (Y/N) N                      Date Extracted: 11/19/93  
 Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/05/94  
 Injection Volume: 1.0 (uL)                      Dilution Factor:                      1.0  
 GPC Cleanup:                      (Y/N) N                      pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
53-70-3-----	Dibenzo(a,h)anthracene	330	U
191-24-2-----	Benzo(g,h,i)perylene	330	U

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MBLK-11/19/93

Lab Name: GALSON LABORATORIES                      Contract:  
 Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265  
 Matrix: (soil/water) SOIL                      Lab Sample ID: Q5-1502  
 Sample wt/vol:                      30                      (g/mL) g                      Lab File ID: DH106.94  
 Level: (low/med) LOW                      Date Received: 00/00/00  
 % Moisture: 0                      decanted: (Y/N) N                      Date Extracted: 11/19/93  
 Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/05/94  
 Injection Volume: 1.0 (uL)                      Dilution Factor:                      1.0  
 GPC Cleanup: (Y/N) N                      pH:

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

Number TICS found: 7

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aldol Product	5.02	1400	J
2.	Unknown	5.40	170	J
3.	Unknown	5.45	140	J
4.	Unknown	5.92	180	J
5.	Unknown	6.46	140	J
6.	Unknown	6.93	190	J
7.	Unknown	7.08	130	J
8.				
9.				
10.				
11.				
12.				
13.				
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29.				
30.				

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MBLK-11/22/93

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: Q5-1503

Sample wt/vol: 30 (g/mL) g

Lab File ID: DH107.94

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO. COMPOUND CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/KG Q

108-95-2	Phenol	330	U
62-53-3	Aniline	330	U
111-44-4	bis(2-Chloroethyl) ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	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
65-85-0	Benzoic Acid	830	U
111-91-1	bis(2-Chloroethoxy) methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	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
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MBLK-11/22/93

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: Q5-1503

Sample wt/vol: 30 (g/mL) g

Lab File ID: DH107.94

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

606-20-2-----	2,6-Dinitrotoluene	330	U
99-09-2-----	3-Nitroaniline	830	U
83-32-9-----	Acenaphthene	330	U
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
7005-72-3-----	4-Chlorophenyl-phenylether	330	U
86-73-7-----	Fluorene	330	U
100-01-6-----	4-Nitroaniline	830	U
534-52-1-----	4,6-Dinitro-2-methylphenol	830	U
86-30-6-----	N-Nitrosodiphenylamine	330	U
101-55-3-----	4-Bromophenyl-phenylether.	330	U
118-74-1-----	Hexachlorobenzene	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
92-87-5-----	Benzidine	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	330	U
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

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MBLK-11/22/93

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: Q5-1503

Sample wt/vol: 30 (g/mL) g

Lab File ID: DH107.94

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

53-70-3-----	Dibenzo(a,h)anthracene	330	U
191-24-2-----	Benzo(g,h,i)perylene	330	U



1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MBLK-11/22/93

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: Q5-1503

Sample wt/vol: 30 (g/mL) g

Lab File ID: ^DH107.94

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

Number TICS found: 3

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aldol Product	5.04	1900	J
2.	Unknown	5.42	240	J
3.	Unknown	6.94	250	J
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29.				
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1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MBLK-11/24/93

Lab Name: GALSON LABORATORIES                      Contract:  
 Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265  
 Matrix: (soil/water) SOIL                      Lab Sample ID: Q5-1504  
 Sample wt/vol:                      30                      (g/mL) g                      Lab File ID: DH108.94  
 Level:                      (low/med) LOW                      Date Received: 00/00/00  
 % Moisture: 0                      decanted: (Y/N) N                      Date Extracted: 11/24/93  
 Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/06/94  
 Injection Volume: 1.0 (uL)                      Dilution Factor:                      1.0  
 GPC Cleanup:                      (Y/N) N                      pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
62-53-3	Aniline	330	U
111-44-4	bis(2-Chloroethyl) ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
100-51-6	Benzyl Alcohol	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	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
65-85-0	Benzoic Acid	830	U
111-91-1	bis(2-Chloroethoxy) methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	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
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MBLK-11/24/93

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: Q5-1504

Sample wt/vol: 30 (g/mL) g

Lab File ID: DH108.94

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U
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
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-Nitrosodiphenylamine	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	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
92-87-5	Benzidine	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	360	
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

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MBLK-11/24/93

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: Q5-1504

Sample wt/vol: 30 (g/mL) g

Lab File ID: DH108.94

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.	COMPOUND		
53-70-3-----	Dibenzo(a,h)anthracene	330	U
191-24-2-----	Benzo(g,h,i)perylene	330	U

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MBLK-11/24/93

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: Q5-1504

Sample wt/vol: 30 (g/mL) g

Lab File ID: ^DH108.94

Level: (low/med) LOW

Date Received: 00/00/00

% Moisture: 0 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

Number TICS found: 6

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aldol Product	5.03	1500	J
2.	Unknown	5.41	170	J
3.	Unknown	5.93	260	J
4.	Unknown	6.47	260	J
5.	Unknown	6.93	220	J
6.	Unknown	7.09	280	J
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## Surrogate Spike Results

2D  
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Level: (low/med) LOW

SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
MBLK-11/19/93	85	111	125	69	73	94	68	94	0
MBLK-11/22/93	72	98	101	79	73	90	79	82	0
MBLK-11/24/93	90	96	112	75	64	94	64	79	0
7140	93	106	134	66	60	72	69	79	0
7230	83	108	118	76	80	79	81	96	0
7141	121 *	118 *	139 *	84	81	88	78	92	3
7229 <sup>D</sup>	85	102	111	72	66	84	80	69	0
7226	100	104	123	78	74	95	72	76	0
7232	109	111	129	78	77	95	70	85	0
7142	113	124 *	147 *	74	82	90	76	90	2
7143	89	88	109	56	58	61	54	66	0
7144	75	89	98	62	63	56	59	70	0
7233	157 *	61	67	92	95	56	90	79	1
7229	71	100	142 *	71	70	92	73	68	1
7227	112	110	140 *	76	88	101	84	88	1
7228	84	96	128	112	103	74	107	119	0
7231	120	109	175 *	104	130 *	81	121	125	2
7225	83	96	131	67	56	45	77	79	0
7233 <sup>D</sup>	101	62	93	53	47	52	61	61	0
7325	116	114	160 *	82	77	68	104	98	1
7325 MS	102	119 *	159 *	96	78	71	94	108	2
7325 MSD	102	121 *	165 *	96	77	70	98	110	2
7330	96	119 *	177 *	98	75	63	92	101	2
7330 MS	96	121 *	164 *	101	78	63	89	108	2
7330 MSD	94	121 *	161 *	94	76	67	91	109	2
7234	93	118 *	171 *	98	78	52	97	106	2
7235	102	117 *	165 *	95	76	50	98	106	2
7326	97	109	146 *	74	68	54	88	96	1
7327	113	116 *	173 *	79	75	45	103	87	2
7328	108	120 *	170 *	98	77	59	96	109	2

- S1 = Nitrobenzene-d5
- S2 = 2-Fluorobiphenyl
- S3 (TPH) = Terphenyl-d14
- S4 (PHL) = Phenol-d6
- S5 (2FP) = 2-Fluorophenol
- S6 (TBP) = 2,4,6-Tribromophenol
- S7 (2CP) = 2-Chlorophenol-d4
- S8 (DCB) = 1,2-Dichlorobenzene-d4

QC LIMITS

- (23-120)
- (30-115)
- (18-137)
- (24-113)
- (25-121)
- (19-122)
- (20-130) (advisory)
- (20-130) (advisory)

# Column to be used to flag recovery values  
\* Values outside of QC limits  
D Surrogate diluted out

2D  
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code: Case No.: 1

SAS No.:

SDG No.: 16265

Level: (low/med) LOW

SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
7227DL	139 *	127 *	123	102	86	98	109	109	2
7228DL	67	105	99	103	77	70	98	97	0
7231DL	75	120 *	131	117 *	78	80	103	118	2
7225DL	82	94	106	70	54	48	74	79	0
7325DL	103	112	124	90	71	72	101	106	0
7330DL	93	117 *	128	85	72	73	97	106	1
7234DL	86	122 *	124	90	73	67	103	109	1
7235DL	89	116 *	132	88	71	61	99	113	1
7326DL	74	106	116	83	66	66	93	104	0
7327DL	72	118 *	126	85	68	62	100	110	1
7328DL	76	120 *	133	92	76	73	106	115	1
7329DL	51	82	92	56	46	56	67	76	0
7331DL	72	116 *	132	84	68	62	97	104	1
7332DL	49	85	95	61	50	43	71	83	0
7329	76	88	99	57	51	61	70	69	0
7331	83	117 *	141 *	100	80	76	98	100	2
7332	82	86	100	87	58	60	78	86	0

- |          |                          |           |            |
|----------|--------------------------|-----------|------------|
| S1 (NBZ) | = Nitrobenzene-d5        | QC LIMITS |            |
| S2 (FBP) | = 2-Fluorobiphenyl       | (23-120)  |            |
| S3 (TPH) | = Terphenyl-d14          | (30-115)  |            |
| S4 (PHL) | = Phenol-d6              | (18-137)  |            |
| S5 (2FP) | = 2-Fluorophenol         | (24-113)  |            |
| S6 (TBP) | = 2,4,6-Tribromophenol   | (25-121)  |            |
| S7 (2CP) | = 2-Chlorophenol-d4      | (19-122)  |            |
| S8 (DCB) | = 1,2-Dichlorobenzene-d4 | (20-130)  | (advisory) |
|          |                          | (20-130)  | (advisory) |

# Column to be used to flag recovery values  
\* Values outside of QC limits  
D Surrogate diluted out



**Matrix Spike/Matrix Spike Duplicate  
Blank Spike/Laboratory Control Sample Results**

## SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix Spike - NYSDEC Sample No.: 7330 (16265-027)

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC. LIMITS REC.
Phenol	2800	0	3600	128 *	26- 90
2-Chlorophenol	2800	0	2600	93	25-102
1,4-Dichlorobenzene	1870	0	1600	86	28-104
N-Nitroso-di-n-propylami	1870	0	2000	107	41-126
1,2,4-Trichlorobenzene	1870	0	2200	118 *	38-107
4-Chloro-3-methylphenol	2800	0	2900	104 *	26-103
Acenaphthene	1870	0	2100	112	31-137
4-Nitrophenol	2800	0	1800	64	11-114
2,4-Dinitrotoluene	1870	0	1200	64	28- 89
Pentachlorophenol	2800	0	0	0.0 *	17-109
Pyrene	1870	1600	3400	96	35-142

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Phenol	2790	3600	129 *	0	35	26- 90
2-Chlorophenol	2790	2500	90	4	50	25-102
1,4-Dichlorobenzene	1860	1600	86	0	27	28-104
N-Nitroso-di-n-propylami	1860	2000	108	0	38	41-126
1,2,4-Trichlorobenzene	1860	2300	124 *	5	23	38-107
4-Chloro-3-methylphenol	2790	2700	97	7	33	26-103
Acenaphthene	1860	2200	118	5	19	31-137
4-Nitrophenol	2790	1900	68	6	50	11-114
2,4-Dinitrotoluene	1860	1200	64	0	47	28- 89
Pentachlorophenol	2790	0	0.0 *		47	17-109
Pyrene	1860	3300	91	5	36	35-142

# Column to be used to flag recovery and RPD values with an asterisk.  
\* Values outside of QC limits.

RPD: 0 out of 11 outside limits  
Spike Recovery: 7 out of 22 outside limits

COMMENTS: \_\_\_\_\_

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix Spike - NYSDEC Sample No.: 7325 (16265-020)

COMPOUND	SPIKE ADDED (UG/KG)	SAMPLE CONCENTRATION (UG/KG)	MS CONCENTRATION (UG/KG)	MS % REC #	QC LIMITS REC.
Phenol	2880	0	3600	125 *	26-90
2-Chlorophenol	2880	0	2500	87	25-102
1,4-Dichlorobenzene	1920	0	1800	94	28-104
N-Nitroso-di-n-propylami	1920	0	1700	88	41-126
1,2,4-Trichlorobenzene	1920	0	2100	109 *	38-107
4-Chloro-3-methylphenol	2880	0	2600	90	26-103
Acenaphthene	1920	0	2300	120	31-137
4-Nitrophenol	2880	0	2000	69	11-114
2,4-Dinitrotoluene	1920	0	1300	68	28-89
Pentachlorophenol	2880	0	0	0.0 *	17-109
Pyrene	1920	3200	8600	281 *	35-142

COMPOUND	SPIKE ADDED (UG/KG)	MSD CONCENTRATION (UG/KG)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
Phenol	2880	3400	118 *	6	35 26-90
2-Chlorophenol	2880	2600	90	4	50 25-102
1,4-Dichlorobenzene	1920	1800	94	0	27 28-104
N-Nitroso-di-n-propylami	1920	1600	83	6	38 41-126
1,2,4-Trichlorobenzene	1920	2100	109 *	0	23 38-107
4-Chloro-3-methylphenol	2880	2700	94	4	33 26-103
Acenaphthene	1920	2500	130	8	19 31-137
4-Nitrophenol	2880	2000	69	0	50 11-114
2,4-Dinitrotoluene	1920	1300	68	0	47 28-89
Pentachlorophenol	2880	0	0.0 *		47 17-109
Pyrene	1920	10000	354 *	23	36 35-142

# Column to be used to flag recovery and RPD values with an asterisk.  
 \* Values outside of QC limits.

RPD: 0 out of 11 outside limits  
 Spike Recovery: 15 out of 22 outside limits

COMMENTS:

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**APPENDIX D**

**CHEMICAL ANALYSES RESULTS FOR SOIL SAMPLES**

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REVE ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.  
 181 Cedar Hill Street  
 Marlboro, MA 01752  
 (508) 460-7600

=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: BLANK.2008.1 REVET Account No: E2008  
 Client Sample: MBLK 11/20 Location / PO:  
 Date Sampled: Date Received:  
 Matrix: Soil Date Run: 12/07/93  
 Method: 8080 PCB Dilution Factor: 1

Analyst: Donald A. Anjou Date: 1/5/94  
 D.A.D'ANJOU, Ph.D.

QC Check: E. Taylor Date: 1/5/94

CAS Number	Compound	EPA Method Detection Limit for this sample*	RESULTS**
12674-11-2	Aroclor-1016	33 ug/kg	ND
11104-28-2	Aroclor-1221	67 R	ND
11141-16-5	Aroclor-1232	33 E	ND
53469-21-9	Aroclor-1242	33 V	ND
12672-29-6	Aroclor-1248	33 E	ND
11097-69-1	Aroclor-1254	33 T	ND
11096-82-5	Aroclor-1260	33	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 0

Amount of sample extracted- 30.15 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	98	60 - 150
Decachlorobiphenyl	94	60 - 150

## = Advisory Limits Only

Notes:

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REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.  
 181 Cedar Hill Street  
 Marlboro, MA 01752  
 (508) 460-7600

Page 1 of 1

=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7336 REVET Account No: E2014  
 Client Sample: 01-015 BH, DUP Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/18/93 Date Received: 11/18/93  
 Matrix: Soil Date Run: 12/10/93  
 Method: 8080 PCB Dilution Factor: 1.1  
 =====

Analyst: *Donald A. Anjou* Date: *12/28/93*  
 D.A.D'ANJOU, Ph.D.

QC Check: *J. Thistle* Date: *12/28/93*

CAS Number	Compound	EPA Method Detection Limit for this sample*	RESULTS**
12674-11-2	Aroclor-1016	36.3	ND
11104-28-2	Aroclor-1221	73.7 R	ND
11141-16-5	Aroclor-1232	36.3 E	ND
53469-21-9	Aroclor-1242	36.3 V	ND
12672-29-6	Aroclor-1248	36.3 E	ND
11097-69-1	Aroclor-1254	36.3 T	ND
11096-82-5	Aroclor-1260	36.3	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 12.3

Amount of sample extracted- 30.16 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	124	60 - 150
Decachlorobiphenyl	403++	60 - 150

## = Advisory Limits Only

Notes: ++=High results due to co-elution problems observed for this compound.  
 Sample contains high concentrations of non-target compounds.

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REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.  
 181 Cedar Hill Street  
 Marlboro, MA 01752  
 (508) 460-7600

Page 1 of 1

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=====
Client:          OPTECH                Contact:        JOHN MORRIS
Revet Sample No.: 7338                REVET Account No: E2014
Client Sample:   01-011 BH, DUP        Location / PO:  WORCESTER ANG / P.N. 1315-113
Date Sampled:    11/18/93              Date Received:  11/18/93
Matrix:          Soil                  Date Run:       12/10/93
Method:          8080 PCB               Dilution Factor: 1.2
  
```

Analyst: Ronald A. Anjou Date: 12/28/93  
 D.A.D'ANJOU, Ph.D.

QC Check: [Signature] Date: 12/28/93

CAS Number	Compound	EPA Method	Detection Limit for this sample*	RESULTS**
12674-11-2	Aroclor-1016		39.6 ug/kg	ND
11104-28-2	Aroclor-1221	R	80.4	ND
11141-16-5	Aroclor-1232	E	39.6	ND
53469-21-9	Aroclor-1242	V	39.6	ND
12672-29-6	Aroclor-1248	E	39.6	ND
11097-69-1	Aroclor-1254	T	39.6	ND
11096-82-5	Aroclor-1260		39.6	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture- 20.4

Amount of sample extracted- 30.28 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	104	60 - 150
Decachlorobiphenyl	454++	60 - 150

## = Advisory Limits Only

Notes: ++=High results due to co-elution problems observed for this compound.  
 Sample contains high concentrations of non-target compounds.

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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: BLANK.2014.1 REVET Account No: E2014  
 Client Sample: MBLK 11/29 Location / PO:  
 Date Sampled: Date Received:  
 Matrix: Soil Date Run: 12/09/93  
 Method: 8080 PCB Dilution Factor: 1

Analyst: D.A.D'ANJOU Date: 12/28/93  
 D.A.D'ANJOU, Ph.D.

QC Check: [Signature] Date: 12/28/93

CAS Number	Compound	EPA Method		RESULTS**
		Detection Limit	for this sample*	
		ug/kg		% Recovery
12674-11-2	Aroclor-1016	33		ND
11104-28-2	Aroclor-1221	67	R	ND
11141-16-5	Aroclor-1232	33	E	ND
53469-21-9	Aroclor-1242	33	V	ND
12672-29-6	Aroclor-1248	33	E	ND
11097-69-1	Aroclor-1254	33	T	ND
11096-82-5	Aroclor-1260	33		ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 0

Amount of sample extracted- 30 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	114	60 - 150
Decachlorobiphenyl	90	60 - 150

## = Advisory Limits Only

Notes:

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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: BLANK.1997 REVET Account No: E1997  
 Client Sample: MBLK 11/20 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: Date Received:  
 Matrix: Soil Date Run: 12/07/93  
 Method: 8080 PCB Dilution Factor: 1  
 =====

Analyst: Donald D. Anjou Date: 12/10/93  
 D.A.D./ANJOU, Ph.D.

QC Check: E. Taylor Date: 12/10/93

CAS Number	Compound	EPA Method Detection Limit for this sample*	RESULTS**
		ug/kg	
12674-11-2	Aroclor-1016	33	ND
11104-28-2	Aroclor-1221	67	R ND
11141-16-5	Aroclor-1232	33	E ND
53469-21-9	Aroclor-1242	33	V ND
12672-29-6	Aroclor-1248	33	E ND
11097-69-1	Aroclor-1254	33	T ND
11096-82-5	Aroclor-1260	33	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 0

Amount of sample extracted- 30.15 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	98	60 - 150
Decachlorobiphenyl	94	60 - 150

## = Advisory Limits Only

Notes:

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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7251 REVET Account No: E2008  
 Client Sample: FIELD BLANK #1 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Water Date Run: 12/05/93  
 Method: 608 PCB Dilution Factor: 1

Analyst: *D.A.D'Anjou* Date: *12-06-93*  
 D.A.D'ANJOU, Ph.D.

QC Check: *E. Taylor* Date: *12/13/93*

CAS Number	Compound	EPA Method		RESULTS
		Detection Limit for this sample*		
		ug/L		ug/L
12674-11-2	Aroclor-1016	1		ND
11104-28-2	Aroclor-1221	2	R	ND
11141-16-5	Aroclor-1232	1	E	ND
53469-21-9	Aroclor-1242	1	V	ND
12672-29-6	Aroclor-1248	1	E	ND
11097-69-1	Aroclor-1254	1	T	ND
11096-82-5	Aroclor-1260	1		ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

Amount of sample extracted- 1000 ml.

Compound	Surrogate % Recovery	Acceptable Water Limit ##
Tetrachloro-m-xylene	98	60 - 150
Decachlorobiphenyl	93	60 - 150

## = Advisory Limits Only

Notes:

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=====
Client:      OPTECH                Contact:     JOHN MORRIS
Revet Sample No.: 7252            REVET Account No: E2008
Client Sample:  FIELD BLANK #2    Location / PO:  WORCESTER ANG / P.N. 1315-113
Date Sampled:  11/17/93          Date Received:  11/17/93
Matrix:        Water              Date Run:       12/06/93
Method:        608 PCB            Dilution Factor: 1
    
```

Analyst: *D.A. D'Anjou* Date: *12/13/93*  
 D.A.D'ANJOU, Ph.D.

QC Check: *E. Taylor* Date: *12/13/93*

CAS Number	Compound	EPA Method		RESULTS
		Detection Limit for this sample*		ug/L
12674-11-2	Aroclor-1016	1		ND
11104-28-2	Aroclor-1221	2	R	ND
11141-16-5	Aroclor-1232	1	E	ND
53469-21-9	Aroclor-1242	1	V	ND
12672-29-6	Aroclor-1248	1	E	ND
11097-69-1	Aroclor-1254	1	T	ND
11096-82-5	Aroclor-1260	1		ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

Amount of sample extracted- 1000 ml.

Compound	Surrogate % Recovery	Acceptable Water Limit ##
Tetrachloro-m-xylene	90	60 - 150
Decachlorobiphenyl	80	60 - 150

## = Advisory Limits Only

Notes:

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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7253 REVET Account No: E2008  
 Client Sample: EQUIPMENT BLANK #1 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Water Date Run: 12/06/93  
 Method: 608 PCB Dilution Factor: 1  
 =====

Analyst: *D.A.D'Anjou* Date: *12/1/93*  
 D.A.D'ANJOU, Ph.D.

QC Check: *E. Taylor* Date: *12/13/93*

CAS Number	Compound	EPA Method	Detection Limit for this sample*	RESULTS
			ug/L	ug/L
12674-11-2	Aroclor-1016		1	ND
11104-28-2	Aroclor-1221		2	R ND
11141-16-5	Aroclor-1232		1	E ND
53469-21-9	Aroclor-1242		1	V ND
12672-29-6	Aroclor-1248		1	E ND
11097-69-1	Aroclor-1254		1	T ND
11096-82-5	Aroclor-1260		1	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

Amount of sample extracted- 1000 ml.

Compound	Surrogate % Recovery	Acceptable Water Limit ##
Tetrachloro-m-xylene	94	60 - 150
Decachlorobiphenyl	64	60 - 150

## = Advisory Limits Only

Notes:

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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7254 REVET Account No: E2008  
 Client Sample: EQUIPMENT BLANK #2 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Water Date Run: 12/06/93  
 Method: 608 PCB Dilution Factor: 1  
 =====

Analyst: D.A.D'ANJOU Date: 12/13/93  
 D.A.D'ANJOU, Ph.D.

QC Check: E Taylor Date: 12/13/93

CAS Number	Compound	EPA Method		RESULTS
		Detection Limit	for this sample*	
		ug/L		ug/L
12674-11-2	Aroclor-1016	1		ND
11104-28-2	Aroclor-1221	2	R	ND
11141-16-5	Aroclor-1232	1	E	ND
53469-21-9	Aroclor-1242	1	V	ND
12672-29-6	Aroclor-1248	1	E	ND
11097-69-1	Aroclor-1254	1	T	ND
11096-82-5	Aroclor-1260	1		ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

Amount of sample extracted- 1000 ml.

Compound	Surrogate % Recovery	Acceptable Water Limit ##
Tetrachloro-m-xylene	95	60 - 150
Decachlorobiphenyl	78	60 - 150

## = Advisory Limits Only

Notes:

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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: QC.7340MS REVET Account No: E2014  
 Client Sample: 01-007 BH, INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/18/93 Date Received: 11/18/93  
 Matrix: Soil Date Run: 12/10/93  
 Method: 8080 PCB Dilution Factor: 1.1  
 =====

Analyst: Donald A. D'Anjou Date: 12/28/93  
 D.A.D'ANJOU, Ph.D.

QC Check: Steph Date: 12/28/93

CAS Number	Compound	EPA Method		RESULTS**
		Detection Limit for this sample*		
		ug/kg		% Recovery
12674-11-2	Aroclor-1016	36.3		NA
11104-28-2	Aroclor-1221	73.7	R	NA
11141-16-5	Aroclor-1232	36.3	E	NA
53469-21-9	Aroclor-1242	36.3	V	NA
12672-29-6	Aroclor-1248	36.3	E	NA
11097-69-1	Aroclor-1254	36.3	T	NA
11096-82-5	Aroclor-1260	36.3		84

NA- Not Applicable

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 11

Amount of sample extracted- 30.33 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	111	60 - 150
Decachlorobiphenyl	123	60 - 150

## = Advisory Limits Only

Notes:

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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: OC.7340MSD REVET Account No: E2014  
 Client Sample: 01-007 BH, INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/18/93 Date Received: 11/18/93  
 Matrix: Soil Date Run: 12/10/93  
 Method: 8080 PCB Dilution Factor: 1.1  
 =====

Analyst: *Donald A. Anjou* Date: *12/08/93*  
 D.A.D'ANJOU, Ph.D.

QC Check: *Y* Date: *12/08/93*

CAS Number	Compound	EPA Method Detection Limit for this sample*	RESULTS**
		ug/kg	% Recovery
12674-11-2	Aroclor-1016	36.3	NA
11104-28-2	Aroclor-1221	73.7	R NA
11141-16-5	Aroclor-1232	36.3	E NA
53469-21-9	Aroclor-1242	36.3	V NA
12672-29-6	Aroclor-1248	36.3	E NA
11097-69-1	Aroclor-1254	36.3	T NA
11096-82-5	Aroclor-1260	36.3	82

NA- Not Applicable

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 11

Amount of sample extracted- 30.46 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	111	60 - 150
Decachlorobiphenyl	107	60 - 150

## = Advisory Limits Only

Notes:

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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7341 REVET Account No: E2014  
 Client Sample: 01-007 BH, DUP Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/18/93 Date Received: 11/18/93  
 Matrix: Soil Date Run: 12/10/93  
 Method: 8080 PCB Dilution Factor: 1.1  
 =====

Analyst: Donald A. Anjou Date: 12/28/93  
 D.A.D'ANJOU, Ph.D.

QC Check: [Signature] Date: 12/28/93

CAS Number	Compound	EPA Method	Detection Limit for this sample*	RESULTS**
12674-11-2	Aroclor-1016		36.3 ug/kg	ND
11104-28-2	Aroclor-1221	R	73.7	ND
11141-16-5	Aroclor-1232	E	36.3	ND
53469-21-9	Aroclor-1242	V	36.3	ND
12672-29-6	Aroclor-1248	E	36.3	ND
11097-69-1	Aroclor-1254	T	36.3	ND
11096-82-5	Aroclor-1260		36.3	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 11.2

Amount of sample extracted- 30.07 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	111	60 - 150
Decachlorobiphenyl	115	60 - 150

## = Advisory Limits Only

Notes:

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Client: OPTECH  
 Revet Sample No.: QC.7335MS  
 Client Sample: 01-015 BH, INT 1  
 Date Sampled: 11/18/93  
 Matrix: Soil  
 Method: 8080 PCB

Contact: JOHN MORRIS  
 REVET Account No: E2014  
 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Received: 11/18/93  
 Date Run: 12/10/93  
 Dilution Factor: 1.2

Analyst: Donald A. D'Anjou Date: 12/25/93  
 D.A.D'ANJOU, Ph.D.

QC Check: [Signature] Date: 12/28/93

CAS Number	Compound	EPA Method	Detection Limit for this sample*	RESULTS**
			ug/kg	% Recovery
12674-11-2	Aroclor-1016		39.6	NA
11104-28-2	Aroclor-1221		80.4	NA
11141-16-5	Aroclor-1232	R	39.6	NA
53469-21-9	Aroclor-1242	E	39.6	NA
12672-29-6	Aroclor-1248	V	39.6	NA
11097-69-1	Aroclor-1254	E	39.6	NA
11096-82-5	Aroclor-1260	T	39.6	NA
				ND #

NA- Not Applicable

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 14.3

Amount of sample extracted- 30.39 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	108	60 - 150
Decachlorobiphenyl	388++	60 - 150

## = Advisory Limits Only

Notes: ++=High results due to co-elution problems observed for this compound.  
 # = High results due to high concentration of non-target compounds.

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=====
Client:          OPTECH                Contact:        JOHN MORRIS
Revet Sample No.: QC.7335MSD          REVET Account No: E2014
Client Sample:   01-015 BH, INT 1     Location / PO:  WORCESTER ANG / P.N. 1315-113
Date Sampled:    11/18/93             Date Received:  11/18/93
Matrix:          Soil                 Date Run:       12/10/93
Method:          8080 PCB              Dilution Factor: 1.2
=====
  
```

Analyst: *Donald A. Anjou* Date: 12/28/93  
 D.A.D'ANJOU, Ph.D.

QC Check: *[Signature]* Date: 12/28/93

CAS Number	Compound	EPA Method		RESULTS**
		Detection Limit		
		for this sample*		
		ug/kg		% Recovery
12674-11-2	Aroclor-1016	39.6		NA
11104-28-2	Aroclor-1221	80.4	R	NA
11141-16-5	Aroclor-1232	39.6	E	NA
53469-21-9	Aroclor-1242	39.6	V	NA
12672-29-6	Aroclor-1248	39.6	E	NA
11097-69-1	Aroclor-1254	39.6	T	NA
11096-82-5	Aroclor-1260	39.6		ND #

NA- Not Applicable

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 14.3

Amount of sample extracted- 30.03 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	105	60 - 150
Decachlorobiphenyl	309++	60 - 150

## = Advisory Limits Only

Notes: ++=High results due to co-elution problems observed for this compound.  
 #=Not detected due to the high concentration of non-target compounds.

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**Revet Environmental & Analytical Laboratories**

**REVET Account Number: E2014**

**Metals Summary Data Package  
for samples collected November 16, 17 & 18, 1993**

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DEP Certification MA #082

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Page 1

Client: OPTECH Contact: JOHN MORRIS  
 REVET Account No.: E2014 Location / PO: WORCESTER ANG/P.N. 1315-113  
 Date Received: 11/18/93 Metals prep date: 11/19/93  
 Matrix: Water Mercury prep date: 12/02/93

Analyst: Donald P. D'Anjou Date: 1/24/94  
 D. D'ANJOU, Ph.D.

QC Dept: E L Taylor Date: 1/24/94

Total Metals, mg/L

REVE ID	7353	7353D	7354	BLANK.2014	SPIKE.7354	Method	
Client ID	EQUIPMENT BLANK	EQUIPMENT BLANK	FIELD BLANK #3	LABBLK	% RECOVERY	Detection	
Date Sampled	11/18/93	11/18/93	11/18/93			Limit, mg/L	Method
Antimony	<0.1	<0.1	<0.1	<0.1	100	0.1 (0.03)	200.7
Arsenic	<0.004	<0.004	<0.004	<0.004	96.5	0.004 (0.002)	206.2
Beryllium	<0.001	<0.001	<0.001	<0.001	105	0.001 -	200.7
Cadmium	<0.004	<0.004	<0.004	<0.004	92.2	0.004 (0.000)	200.7
Chromium	<0.009	<0.009	<0.009	<0.009	104	0.009 -	200.7
Copper	<0.003	<0.003	<0.003	0.006	100	0.003 -	200.7
Lead	<0.001	<0.001	<0.001	0.004	104	0.001 -	239.2
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	119	0.0002 -	245.1
Nickel	<0.02	<0.02	<0.02	<0.02	99.5	0.02 (0.01)	200.7
Selenium	<0.005	<0.005	<0.005	<0.005	95.3	0.005 (0.002)	270.2
Silver	<0.004	<0.004	<0.004	<0.004	106	0.004 -	200.7
Thallium	<0.002	<0.002	<0.002	<0.002	97.0	0.002 -	279.2
Zinc	0.008	<0.005	0.009	<0.005	106	0.005 -	200.7

Samples with identifications ending with D or Dup are duplicates.

Notes:

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Client: OPTECH Contact: JOHN MORRIS  
 REVEL Account No.: E2008 Location / PO: WORCESTER ANG/P.N. 1315-113  
 Date Received: 11/17/93 Metals prep date: 11/19/93  
 Matrix: Water Mercury prep date: 12/02/93

Analyst: D. D'ANJOU Date: 1/24/94  
 D. D'ANJOU, Ph.D.

QC Dept: E L Taylor Date: 1/24/94

Total Metals, mg/L

REVET ID	7266	7266D	7267	7268	Method	
Client ID	FIELD BLANK #1	FIELD BLANK #1	FIELD BLANK #2	EQUIPMENT BLANK	Detection	
Date Sampled	11/17/93	11/17/93	11/17/93	11/17/93	Limit, mg/L	Method
Antimony	<0.1	<0.1	<0.1	<0.1	0.1	200.7
Arsenic	<0.004	<0.004	<0.004	<0.004	0.004	206.2
Beryllium	<0.001	<0.001	<0.001	<0.001	0.001	200.7
Cadmium	<0.004	<0.004	<0.004	<0.004	0.004	200.7
Chromium	<0.009	<0.009	<0.009	<0.009	0.009	200.7
Copper	0.010	0.007	0.008	0.003	0.003	200.7
Lead	<0.001	<0.001	<0.001	<0.001	0.001	239.2
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	245.1
Nickel	<0.02	<0.02	<0.02	<0.02	0.02	200.7
Selenium	<0.005	<0.005	<0.005	<0.005	0.005	270.2
Silver	<0.004	<0.004	<0.004	<0.004	0.004	200.7
Thallium	<0.002	<0.002	<0.002	<0.002	0.002	279.2
Zinc	<0.005	<0.005	0.007	0.006	0.005	200.7

Samples with identifications ending with D or Dup are duplicates.

Notes:

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Client: OPTECH Contact: JOHN MORRIS  
 REVET Account No.: E2008 Location / PO: WORCESTER ANG/P.N. 1315-113  
 Date Received: 11/17/93 Metals prep date: 11/19/93  
 Matrix: Water Mercury prep date: 12/02/93

Analyst: *Donald A. D'Anjou* Date: *1/24/94*  
 D. D'ANJOU, Ph.D.

QC Dept: *E Taylor* Date: *1/24/94*

Total Metals, mg/L

REVET ID	7269	BLANK.2008	SPIKE.7269	Method	
Client ID	EQUIPMENT BLANK	LABBLK	% RECOVERY	Detection	
Date Sampled	11/17/93		mg/L	Limit, mg/L	Method
Antimony	<0.1	<0.1	100	0.1	200.7
Arsenic	<0.004	<0.004	101	0.004	206.2
Beryllium	<0.001	<0.001	106	0.001	200.7
Cadmium	<0.004	<0.004	103	0.004	200.7
Chromium	<0.009	<0.009	102	0.009	200.7
Copper	0.008	<0.003	98.7	0.003	200.7
Lead	<0.001	0.002	101	0.001	239.2
Mercury	<0.0002	<0.0002	106	0.0002	245.1
Nickel	<0.02	<0.02	103	0.02	200.7
Selenium	<0.005	<0.005	95.8	0.005	270.2
Silver	<0.004	<0.004	105	0.004	200.7
Thallium	<0.002	<0.002	90.5	0.002	279.2
Zinc	0.009	<0.005	103	0.003	200.7

003

Samples with identifications ending with D or Dup are duplicates.

Notes:



REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.  
 181 Cedar Hill Street  
 Marlboro, MA 01752  
 DEP Certification MA #082  
 (508) 460-7600

Page 1

Client: OPTECH Contact: JOHN MORRIS  
 REVE Account No.: E2014 Location / PO: WORCESTER ANG/P.N. 1315-113  
 Date Received: 11/18/93 Metals prep date: 11/19/93  
 Matrix: Soil Mercury prep date: 12/02/93

Analyst: Donald A. Allard Date: 1/25/94  
 D. D'ANJOU, Ph.D.

QC Dept: E. Taylor Date: 1/25/94

Total Metals, mg/Kg \*\*

REVE ID	7345	7345D	7346	7347	Method	
Client ID	01-015 BH, INT	01-015 BH, INT	01-015 BH, DUP	01-011 BH, INT	Detection	
Date Sampled	11/18/93	11/18/93	11/18/93	11/18/93	Limit, mg/Kg	Method
% Solid	85.7	85.7	87.7	78.3		
Antimony	<10	<10	<10	<10	10 3.0	200.7
Arsenic	24	24	39 <sup>47% RPD</sup>	29	0.4 ✓	206.2
Beryllium	0.5	0.5	0.5	0.6	0.1 ✓	200.7
Cadmium	1.4	1.2	1.2	<0.5	0.4 ✓	200.7
Chromium	29.0	22.9	24.8	29.7	0.9 -5	200.7
Copper	30.3	35.5	39.1	53.1	0.3 ✓	200.7
Lead	100	80	90	140	5 1.5	200.7
Mercury	0.3	0.4	<0.1	0.3	0.1 -2.5	245.5
Nickel	18	20	17	23	2 ✓	200.7
Selenium	<0.6	<0.5	<0.6	<0.6	0.5 ✓	270.2
Silver	<0.4	<0.4	<0.4	<0.5	0.4 ✓	200.7
Thallium	0.2	0.3	0.2	0.5	0.1 ✓	279.2
Zinc	131	133	121	123	0.3 ✓	200.7

Samples with identifications ending with D or Dup are duplicates.

\*\* Data reported as dry weight.

Sample detection limit = method detection limit \* 100 / percent solid.

Notes:

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Page 2

Client: OPTECH Contact: JOHN MORRIS  
 REVE Account No.: E2014 Location / PO: WORCESTER ANG/P.N. 1315-113  
 Date Received: 11/18/93 Metals prep date: 11/19/93  
 Matrix: Soil Mercury prep date: 12/02/93

Analyst: *Donald A. Kelly* Date: *1/25/94*  
 D. D'ANJOU, Ph.D.

QC Dept: *E Taylor* Date: *1/25/94*

Total Metals, mg/Kg \*\*

REVE ID	7348	7349	BLANK.2014.1	SPIKE.7345	Method	
Client ID	01-011 BH, DUP	01-009 BH, INT	LABBLK	% RECOVERY	Detection	
Date Sampled	11/18/93	11/18/93			Limit, mg/Kg	Method
% Solid	79.6	80		mg/L		
Antimony	<10	<10	<10	10#	10	200.7
Arsenic	26	9.3	<0.4	84.4	0.4	206.2
Beryllium	0.6	0.3	<0.1	94.5	0.1	200.7
Cadmium	2.0	2.1	<0.4	96.9	0.4	200.7
Chromium	22.0	1800	1.2	103	0.9	200.7
Copper	43.5	177	<0.3	100	0.3	200.7
Lead	150	240	0.2+	74.2#	5	200.7
Mercury	0.2	0.1	<0.1	131#	0.1	245.5
Nickel	17	2	<2	79.2	2	200.7
Selenium	<0.6	<0.6	<0.5	104	0.5	270.2
Silver	<0.5	<0.5	<0.4	95.8	0.4	200.7
Thallium	0.3	0.1	<0.1	124	0.1	279.2
Zinc	135	108	1.2	84.7	0.3	200.7

Samples with identifications ending with D or Dup are duplicates.

\*\* Data reported as dry weight.

Sample detection limit = method detecton limit \* 100 / percent solid.

Notes:

# = Matrix interferences observed for this element.

+ = Method 239.2, MDL = 0.1 mg/Kg.

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

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 DEP Certification MA #082  
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Client: OPTECH  
 REVE Account No.: E2014  
 Date Received: 11/18/93  
 Matrix: Soil

Contact: JOHN MORRIS  
 Location / PO: WORCESTER ANG/P.N. 1315-113  
 Metals prep date: 11/19/93  
 Mercury prep date: 12/02/93

Analyst: *D. D'Anjou*  
 D. D'ANJOU, Ph.D.

Date: *1/25/94*

QC Dept: *E Taylor*

Date: *1/25/94*

Total Metals, mg/Kg \*\*

REVE ID	7350	7350D	7351	Method	
Client ID	01-007 BH, INT	01-007 BH, INT	01-007 BH, DUP	Detection	
Date Sampled	11/18/93	11/18/93	11/18/93	Limit, mg/Kg	Method
% Solid	89	89	88.8		
Antimony	<10	<10	<10	10	200.7
Arsenic	20	21	12	0.4	206.2
Beryllium	0.7	0.6	0.3	0.1	200.7
Cadmium	1.0	0.4	0.7	0.4	200.7
Chromium	35.2	28.9	17.2	0.9	200.7
Copper	26.0	28.7	11.9	0.3	200.7
Lead	140	90	40	5	200.7
Mercury	<0.1	<0.1	<0.1	0.1	245.5
Nickel	22	20	11.3	2	200.7
Selenium	<0.5	<0.6	<0.5	0.5	270.2
Silver	<0.4	<0.4	<0.4	0.4	200.7
Thallium	0.2	0.3	0.2	0.1	279.2
Zinc	81.1	73.6	49.2	0.3	200.7

Samples with identifications ending with D or Dup are duplicates.

\*\* Data reported as dry weight.

Sample detection limit = method detection limit \* 100 / percent solid.

Notes:

Client: OPTECH Contact: JOHN MORRIS  
 REVEt Account No.: E2014 Location / PO: WORCESTER ANG/P.N. 1315-113  
 Date Received: 11/18/93 Metals prep date: 11/19/93  
 Matrix: Soil Mercury prep date: 12/02/93

Analyst: Donald A. Alljou Date: 1/25/94  
 D. D'ANJOU, Ph.D.

QC Dept: E L Taylor Date: 1/25/94

Total Metals, mg/Kg \*\*

REVEt ID	7352	BLANK.2014.2	SPIKE.7350	Method	
Client ID	01-007 BH, INT	LABBLK	% RECOVERY	Detection	
Date Sampled	11/18/93		mg/L	Limit, mg/Kg	Method
% Solid	87.5				
Antimony	<10	<10	20#	10	200.7
Arsenic	25	<0.4	95.0	0.4	206.2
Beryllium	0.8	<0.1	94.9	0.1	200.7
Cadmium	0.4	<0.4	93.2	0.4	200.7
Chromium	35.0	1.2	98.7	0.9	200.7
Copper	25.4	<0.3	94.4	0.3	200.7
Lead	60	0.2+	35#	5	200.7
Mercury	<0.1	<0.1	106	0.1	245.5
Nickel	27	<2	66.1#	2	200.7
Selenium	<0.6	<0.5	73.0#	0.5	270.2
Silver	<0.4	<0.4	97.2	0.4	200.7
Thallium	0.2	<0.1	130#	0.1	279.2
Zinc	68.5	1.2	87.4	0.3	200.7

Samples with identifications ending with D or Dup are duplicates.  
 \*\* Data reported as dry weight.  
 Sample detection limit = method detection limit \* 100 / percent solid.

Notes:

# = Matrix interferences observed for this element.  
 + = Method 239.2, MDL = 0.1 mg/Kg.

REVE ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

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 (508) 460-7600

Client: OPTECH Contact: JOHN MORRIS  
 REVET Account No.: E2008 Location / PO: WORCESTER ANG/P.N. 1315-113  
 Date Received: 11/17/93 Metals prep date: 11/19/93  
 Matrix: Soil Mercury prep date: 12/02/93

Analyst: Donald B. Blum Date: 1/25/94  
 D. D'ANJOU, Ph.D.

QC Dept: E Taylor Date: 1/25/94

Total Metals, mg/Kg \*\*

REVE ID	7255	7256	7257	7258	7259	Method	
Client ID	01-012 BH, INT	01-014 BH, INT	01-013 BH, INT	01-006 BH, INT	01-006 BH, INT	Detection	
Date Sampled	11/17/93 2	11/17/93	11/17/93	11/17/93	11/17/93	Limit, mg/Kg	Method
% Solid	90.3	90.8	86.4	86.7	73.1		
Antimony	<10	<10	<10	<10	<10	10	200.7
Arsenic	21	9.8	24	18	34	0.4	206.2
Beryllium	0.3	0.1	0.7	0.5	1	0.1	200.7
Cadmium	<0.4	<0.4	5.7	<0.4	0.5	0.4	200.7
Chromium	26.6	16.1	29.6	24.6	18.7	0.9	200.7
Copper	22.3	14.9	84.2	31.5	24.3	0.3	200.7
Lead	30	5.3+	210	110	40	5	200.7
Mercury	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	245.5
Nickel	20	12	26	21	10	2	200.7
Selenium	<0.5	<0.5	<0.5	<0.5	<0.7	0.5	270.2
Silver	<0.4	<0.4	<0.4	<0.4	<0.5	0.4	200.7
Thallium	0.2	<0.1	0.4	0.2	0.4	0.1	279.2
Zinc	44.7	66.4	185	96.9	65.5	0.3	200.7

Samples with identifications ending with D or Dup are duplicates.

\*\* Data reported as dry weight.

Sample detection limit = method detecton limit \* 100 / percent solid.

Notes:

+ = Method 239.2, MDL = 0.1 mg/Kg.

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.  
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 DEP Certification MA #082  
 (508) 460-7600

Client: OPTECH Contact: JOHN MORRIS  
 REVET Account No.: E2008 Location / PO: WORCESTER ANG/P.N. 1315-113  
 Date Received: 11/17/93 Metals prep date: 11/19/93  
 Matrix: Soil Mercury prep date: 12/02/93

Analyst: Donald A. Kelly Date: 1/25/94  
 D. D'ANJOU, Ph.D.

QC Dept: E Taylor Date: 1/25/94

Total Metals, mg/Kg \*\*

REVET ID	7260	7261	7262	7263	Method	
Client ID	01-005 BH, INT	01-005 BH, INT	01-010 BH, INT	01-008 BH, INT	Detection	
Date Sampled	11/17/93	11/17/93	11/17/93	11/17/93	Limit, mg/Kg	Method
% Solid	93.3	81	57.2	42.8		
Antimony	<10	<10	<20	<20	10	200.7
Arsenic	16	20	49	30	0.4	206.2
Beryllium	0.2	0.7	0.5	1	0.1	200.7
Cadmium	<0.4	<0.5	1.0	5.5	0.4	200.7
Chromium	15.5	41.7	184	549	0.9	200.7
Copper	48.0	155	46.1	87.5	0.3	200.7
Lead	5.2+	660	200	660	5	200.7
Mercury	<0.1	0.3	<0.2	<0.2	0.1	245.5
Nickel	13	22	10	20	2	200.7
Selenium	<0.5	<0.6	1	<1	0.5	270.2
Silver	<0.4	<0.5	<0.7	<0.8	0.4	200.7
Thallium	0.1	0.5	1	0.2	0.1	279.2
Zinc	38.0	225	86.9	414	0.3	200.7

Samples with identifications ending with D or Dup are duplicates.  
 \*\* Data reported as dry weight.  
 Sample detection limit = method detection limit \* 100 / percent solid.

Notes:

+ = Method 239.2, MDL = 0.1 mg/Kg.

Client: OPTECH  
 REVET Account No.: E2008  
 Date Received: 11/17/93  
 Matrix: Soil

Contact: JOHN MORRIS  
 Location / PO: WORCESTER ANG/P.N. 1315-113  
 Metals prep date: 11/19/93  
 Mercury prep date: 12/02/93

Analyst: Donald A. H. [Signature] Date: 1/25/94  
 D. D'ANJOU, Ph.D.

QC Dept: E. Taylor [Signature] Date: 1/25/94

Total Metals, mg/Kg \*\*

REVET ID	7264	7265	BLANK.2008.1	Method	
Client ID	01-004 BH, INT	01-004 BH, INT	LABBLK	Detection	
Date Sampled	11/17/93	11/17/93	mg/L	Limit, mg/Kg	Method
% Solid	89.3	78.9			
Antimony	<10	<10	<10	10	200.7
Arsenic	35	25	<0.4	0.4	206.2
Beryllium	0.5	0.6	<0.1	0.1	200.7
Cadmium	<0.4	0.6	<0.4	0.4	200.7
Chromium	26.2	23.9	1.2	0.9	200.7
Copper	47.6	94.3	<0.3	0.3	200.7
Lead	130	530	0.2+	5	200.7
Mercury	0.3	1.2	<0.1	0.1	245.5
Nickel	23	19	<2	2	200.7
Selenium	<0.5	0.8	<0.5	0.5	270.2
Silver	<0.4	<0.5	<0.4	0.4	200.7
Thallium	0.3	0.2	<0.1	0.1	279.2
Zinc	130	213	1.2	0.3	200.7

Samples with identifications ending with D or Dup are duplicates.

\*\* Data reported as dry weight.

Sample detection limit = method detection limit \* 100 / percent solid.

Notes:

+ = Method 239.2, MDL = 0.1 mg/Kg.

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street  
 Marlboro, MA 01752  
 DEP Certification MA #082  
 (508) 460-7600

Client: OPTECH  
 REVET Account No.: E1997  
 Date Received: 11/16/93  
 Matrix: Soil

Contact: JOHN MORRIS  
 Location / PO: WORCESTER ANG/P.N. 1315-113  
 Metals prep date: 11/19/93  
 Mercury prep date: 12/02/93

Analyst: Donald A. Kelly  
 D. D'ANJOU, Ph.D.

Date: 1/25/94

QC Dept: E. Taylor

Date: 1/25/94

Total Metals, mg/Kg \*\*

REKET ID	7150	7151	7152	Method	
Client ID	01-001 BH INT 1	01-002 BH INT 1	01-003 BH INT 1	Detection	
Date Sampled	11/16/93	11/16/93	11/16/93	Limit, mg/Kg	Method
% Solid	95.9	93.6	94.4		
Antimony	<10	<10	<10	10	200.7
Arsenic	36	67	32	0.4	206.2
Beryllium	0.2	0.3	0.7	0.1	200.7
Cadmium	<0.4	<0.4	<0.4	0.4	200.7
Chromium	18.0	19.3	20.9	0.9	200.7
Copper	36.0	45.4	26.2	0.3	200.7
Lead	20	9.1+	60	5	200.7
Mercury	<0.1	<0.1	<0.1	0.1	245.5
Nickel	21	29	17	2	200.7
Selenium	<0.5	<0.5	<0.5	0.5	270.2
Silver	<0.4	<0.4	<0.4	0.4	200.7
Thallium	0.2	0.2	0.2	0.1	279.2
Zinc	53.2	50.7	51.9	0.3	200.7

Samples with identifications ending with D or Dup are duplicates.

\*\* Data reported as dry weight.

Sample detection limit = method detection limit \* 100 / percent solid.

Notes:

+ = Method 239.2, MDL = 0.1 mg/Kg.



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 Marlboro, MA 01752  
 DEP Certification MA #082  
 (508) 460-7600

Client: OPTECH Contact: JOHN MORRIS  
 REVE Account No.: E1997 Location / PO: WORCESTER ANG/P.N. 1315-113  
 Date Received: 11/16/93 Metals prep date: 11/19/93  
 Matrix: Soil Mercury prep date: 12/02/93

Analyst: Donald A. D'Anjou Date: 1/25/94  
 D. D'ANJOU, Ph.D.

QC Dept: E Taylor Date: 1/25/94

Total Metals, mg/Kg \*\*

REVE ID	7153	7154	BLANK.1997.1	Method	
Client ID	01-003 BH INT 2	01-012 BH INT 1	LABBLK	Detection	
Date Sampled	11/16/93	11/16/93		mg/L	Limit, mg/Kg
% Solid	86.6	92.3			Method
Antimony	<10	<10	<10	10	200.7
Arsenic	38	17	<0.4	0.4	206.2
Beryllium	1.2	0.3	<0.1	0.1	200.7
Cadmium	<0.4	<0.4	<0.4	0.4	200.7
Chromium	44.2	32.8	1.2	0.9	200.7
Copper	22.9	23.3	<0.3	0.3	200.7
Lead	10	20	0.2+	5	200.7
Mercury	<0.1	<0.1	<0.1	0.1	245.5
Nickel	31	21	<2	2	200.7
Selenium	<0.5	<0.5	<0.5	0.5	270.2
Silver	<0.4	<0.4	<0.4	0.4	200.7
Thallium	0.3	0.2	<0.1	0.1	279.2
Zinc	52.9	46.9	1.2	0.3	200.7

Samples with identifications ending with D or Dup are duplicates.  
 \*\* Data reported as dry weight.  
 Sample detection limit = method detection limit \* 100 / percent solid.

Notes:  
 + = Method 239.2, MDL = 0.1 mg/Kg.

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street  
Marlboro, MA 01782  
DEP Certification # M-MA082  
Telephone (508) 460-7600  
Facsimile (508) 460-7777

Client OpTech

Contact: M. Escobar

Revet Account Number: E1997 = TPH by IR  
E2008 = PCB and TPH by IR  
E2014 = TPH by IR

Method's Used: PCB 8080 Matrix: soil  
TPH by IR 413.1

This data package contains the following reports:

PCB Analysis

Revet ID	Client ID
7240	01-012 BH, INT 2
7242	01-013 BH, INT 1
7246	01-005 BH, INT 2
7247	01-010 BH, INT 1
7248	01-008 BH, INT 1
7249	01-004 BH, INT 1
7250	01-004 BH, INT 2

TPH BY IR

Revet ID	Client ID
7155	01-001 BH, INT 1
7156	01-002 BH, INT 1
7157	01-003 BH, INT 1
7158	01-003 BH, INT 2
7159	01-012 BH, INT 1
7270	01-012 BH, INT 2
7271	01-014 BH, INT 1
7272	01-013 BH, INT 1
7273	01-006 BH, INT 1
7274	01-006 BH, INT 2
7275	01-005 BH, INT 1
7276	01-005 BH, INT 2
7277	01-010 BH, INT 1
7278	01-008 BH, INT 1
7279	01-004 BH, INT 1
7280	01-004 BH, INT 2
7355	01-015 BH, INT 1
7356	01-015 BH, DUP
7357	01-011 BH, INT 1
7358	01-011 BH, DUP
7359	01-009 BH, INT 1
7360	01-007 BH, INT 1
7361	01-007 BH, DUP
7362	01-007 BH, INT 2

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.  
 181 Cedar Hill Street  
 Marlboro, MA 01752  
 Mass Certification MA #082  
 (508) 460-7600

Client: OPTECH  
 REVET Account No.: E1997  
 Method: 418.1  
 Location/PO: WORCESTER ANG/P.N. 1315-113

Contact: JOHN MORRIS  
 Date Received: 11/16/93  
 Matrix: Soil

QC Dept: E. Taylor  
 Quality Control Office

Date: 1/11/94

11/16 = 12/14

11/17 = 12/15

11/18 = 12/16

~~28~~ 28 DAY TAT

TPH by IR

REVET ID	Client ID	Date Sampled	Detection Limit	Results** mq/kg	% Moisture
7155	01-001 BH INT 1	11/16/93	40	<40	95.3
7156	01-002 BH INT 1	11/16/93	40	92	94.7
7157	01-003 BH INT 1	11/16/93	40	<40	93.4
7158	01-003 BH INT 2	11/16/93	40	<40	84.6
7159	01-012 BH INT 1	11/16/93	40	<40	92.6

\*\* Results reported as dry weight.

Notes: Date analyzed = 12/30/93.

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.  
181 Cedar Hill Street  
Marlboro, MA 01752  
Mass Certification MA #082  
(508) 460-7600

Client: OPTECH Contact: JOHN MORRIS  
REVET Account No.: E2008 Date Received: 11/17/93  
Method: 418.1 Matrix: Soil  
Location/PO: WORCESTER ANG/P.N. 1315-113

QC Dept: E. Taylor  
Quality Control Office

Date: 1/13/94

TPH by IR

REVET ID	Client ID	Date Sampled	Detection Limit	Results** mg/kg	% Moisture
7270	01-012 BH, INT 2	11/17/93	800	17400	92.7
7271	01-014 BH, INT 1	11/17/93	40	<40	91.1
7272	01-013 BH, INT 1	11/17/93	40	87.0	87
7273	01-006 BH, INT 1	11/17/93	40	75	88
7274	01-006 BH, INT 2	11/17/93	40	<40	72.6
7275	01-005 BH, INT 1	11/17/93	40	<40	92.8
7276	01-005 BH, INT 2	11/17/93	40	790	81.2
7277	01-010 BH, INT 1	11/17/93	40	<40	59.3
7278	01-008 BH, INT 1	11/17/93	800	130000	16.9
7279	01-004 BH, INT 1	11/17/93	40	<40	90.3
7280	01-004 BH, INT 2	11/17/93	40	150	78.6

\*\* Results reported as dry weight.

Notes: Date analyzed: Revet ID 7270 = 12/30/93  
Date analyzed: Revet ID 7271 - 7276 = 01/03/94  
Date analyzed: Revet ID 7277 - 7280 = 01/04/94

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Client: OPTECH Contact: JOHN MORRIS  
 REVET Account No.: E2014 Date Received: 11/18/93  
 Method: 418.1 Matrix: Soil  
 Location/PO: WORCESTER ANG/P.N. 1315-113

QC Dept: E. Taylor Date: 1/13/93  
 Quality Control Office

TPH by IR

REVET ID	Client ID	Date Sampled	Detection Limit	Results** mg/kg	% Moisture
7355	01-015 BH, INT 1	11/18/93	40	210	83.2
7356	01-015 BH, DUP	11/18/93	40	<40	86.2
7357	01-011 BH, INT 1	11/18/93	40	<40	80.6
7358	01-011 BH, DUP	11/18/93	40	<40	79.1
7359	01-009 BH, INT 1	11/18/93	40	<40	74.4
7360	01-007 BH, INT 1	11/18/93	40	160	89
7361	01-007 BH, DUP	11/18/93	40	410	88.5
7362	01-007 BH, INT 2	11/18/93	40	260	88.4

\*\* Results reported as dry weight.

Notes: Date analyzed: Revet ID 7355 - 7357 = 01/04/94  
 Date analyzed: Revet ID 7358 - 7362 = 01/05/94

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Client: OPTECH  
REVEt Account No.: E2014  
Method: 418.1  
Location/PO: WORCESTER ANG/P.N. 1315-113  
Contact: JOHN MORRIS  
Date Received: 11/18/93  
Matrix: Water

Analyst: D. Toupin Date: 12/15/93  
D. Toupin

TPH by IR

REVEt ID	Client ID	Date Sampled	Detection Limit	Results mg/L
7363	EQUIPMENT BLANK	11/18/93	1	<1
7364	FIELD BLANK #3	11/18/93	1	<1

=====

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=====  
Client: OPTECH Contact: JOHN MORRIS  
REVEt Account No.: E2008 Date Received: 11/17/93  
Method: 418.1 Matrix: Water  
Location/PO: WORCESTER ANG/P.N. 1315-113

Analyst: D. Toupin Date: 12/15/93  
D. Toupin

TPH by IR

REVET ID	Client ID	Date Sampled	Detection Limit	Results mg/L
7281	FIELD BLANK #1	11/17/93	1	<1
7282	FIELD BLANK #2	11/17/93	1	<1
7283	EQUIPMENT BLANK	11/17/93	1	<1
7284	EQUIPMENT BLANK	11/17/93	1	<1

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Page 1 of 2

Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7314 REVEI Account No.: E2014  
 Client Sample: 01-015 BH, INT 1 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Sampled: 11/18/93 Date Received: 11/18/93  
 Matrix: Soil Date Run: 11/24/93  
 Method: B240 Dilution Factor: 1

Analyst: A. Wolf Date: 12-14-93  
 A. WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS\*\*  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/kg		ug/kg
74-87-3	Chloromethane	10	R	ND
74-83-9	Bromomethane	10	E	ND
75-01-4	Vinyl Chloride	10	V	ND
75-00-3	Chloroethane	10	E	ND
75-09-2	Methylene chloride	5	T	ND
67-64-1	Acetone	10		ND
75-15-0	Carbon disulfide	5	E	ND
75-35-4	1,1-Dichloroethene	5	N	ND
75-34-3	1,1-Dichloroethane	5	V	ND
156-60-5	1,2-dichloroethenes(total)	5	I	ND
67-66-3	Chloroform	5	R	ND
107-06-2	1,2-Dichloroethane	5	O	ND
78-93-3	2-Butanone (MEK)	10	N	ND
71-55-6	1,1,1-Trichloroethane	5	M	ND
56-23-5	Carbon tetrachloride	5	E	ND
75-27-4	Bromodichloromethane	5	N	ND
78-87-5	1,2-Dichloropropane	5	T	ND
10061-01-5	cis-1,3-Dichloropropene	5	A	ND
79-01-6	Trichloroethylene	5	L	ND
124-48-1	Dibromochloromethane	5		ND
79-00-5	1,1,2-Trichloroethane	5	L	ND
71-43-2	Benzene	5	A	ND
10061-02-6	trans-1,3-Dichloropropene	5	B	ND
75-25-2	Bromoform	10	O	ND
108-10-1	4-Methyl-2-pentanone	10	R	ND
591-78-6	2-Hexanone	10	A	ND
127-18-4	Tetrachloroethylene	5	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	O	ND
108-88-3	Toluene	5	R	ND
108-90-7	Chlorobenzene	5	Y	ND
100-41-4	Ethylbenzene	5		ND



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REVEE Sample No.: 7314		EPA Method	RESULTS**
		Detection Limits	
		for this sample*	
CAS Number	Compound	ug/kg	ug/kg
100-42-5	Styrene	5	ND
1330-20-7	Total xylenes	5	ND
108-05-4	Vinyl Acetate	5	ND
541-73-1	1,3-Dichlorobenzene	10	ND
-----	1,2- & 1,4-Dichlorobenzene	10	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture- 14.3

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	93	70-121
Toluene-d8	104	84-138
4-Bromofluorobenzene	98	59-113

Notes:

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Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7316 REVET Account No.: E2014  
 Client Sample: 01-011 BH, INT 1 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Sampled: 11/18/93 Date Received: 11/18/93  
 Matrix: Soil Date Run: 11/24/93  
 Method: 8240 Dilution Factor: 1.1

Analyst: A. WOLF Date: 12-16-93

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS\*\*  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/kg		ug/kg
74-87-3	Chloromethane	11	R	ND
74-83-9	Bromomethane	11	E	ND
75-01-4	Vinyl Chloride	11	V	ND
75-00-3	Chloroethane	11	E	ND
75-09-2	Methylene chloride	5	T	ND
67-64-1	Acetone	11		ND
75-15-0	Carbon disulfide	5	E	ND
75-35-4	1,1-Dichloroethene	5	N	ND
75-34-3	1,1-Dichloroethane	5	V	ND
156-60-5	1,2-dichloroethenes(total)	5	I	ND
67-66-3	Chloroform	5	R	ND
107-06-2	1,2-Dichloroethane	5	O	ND
78-93-3	2-Butanone (MEK)	11	N	ND
71-55-6	1,1,1-Trichloroethane	5	M	ND
56-23-5	Carbon tetrachloride	5	E	ND
75-27-4	Bromodichloromethane	5	N	ND
78-87-5	1,2-Dichloropropane	5	T	ND
10061-01-5	cis-1,3-Dichloropropene	5	A	ND
79-01-6	Trichloroethylene	5	L	ND
124-48-1	Dibromochloromethane	5		ND
79-00-5	1,1,2-Trichloroethane	5	L	ND
71-43-2	Benzene	5	A	ND
10061-02-6	trans-1,3-Dichloropropene	5	B	ND
75-25-2	Bromoform	11	O	ND
108-10-1	4-Methyl-2-pentanone	11	R	ND
591-78-6	2-Hexanone	11	A	ND
127-18-4	Tetrachloroethylene	5	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	O	ND
108-88-3	Toluene	5	R	ND
108-90-7	Chlorobenzene	5	Y	ND
100-41-4	Ethylbenzene	5		ND

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REVET Sample No.: 7316		EPA Method	RESULTS**
		Detection Limits for this sample*	
CAS Number	Compound	ug/kg	ug/kg
100-42-5	Styrene	5	ND
1330-20-7	Total xylenes	5	ND
108-05-4	Vinyl Acetate	5	ND
541-73-1	1,3-Dichlorobenzene	11	ND
-----	1,2- & 1,4-Dichlorobenzene	11	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture- 21.7

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	96	70-121
Toluene-d8	107	84-138
4-Bromofluorobenzene	92	59-113

Notes:

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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7318 REVET Account No.: E2014  
 Client Sample: 01-009 BH, INT 1 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Sampled: 11/18/93 Date Received: 11/18/93  
 Matrix: Soil Date Run: 11/24/93  
 Method: 8240 Dilution Factor: 1.2

Analyst: A. Wolf Date: 12-14-93  
 A. WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS\*\*  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/kg		ug/kg
74-87-3	Chloromethane	12	R	ND
74-83-9	Bromomethane	12	E	ND
75-01-4	Vinyl Chloride	12	V	ND
75-00-3	Chloroethane	12	E	ND
75-09-2	Methylene chloride	6	T	ND
67-64-1	Acetone	12		ND
75-15-0	Carbon disulfide	6	E	ND
75-35-4	1,1-Dichloroethene	6	N	ND
75-34-3	1,1-Dichloroethane	6	V	ND
156-60-5	1,2-dichloroethenes(total)	6	I	ND
67-66-3	Chloroform	6	R	ND
107-06-2	1,2-Dichloroethane	6	O	ND
78-93-3	2-Butanone (MEK)	12	N	ND
71-55-6	1,1,1-Trichloroethane	6	M	ND
56-23-5	Carbon tetrachloride	6	E	ND
75-27-4	Bromodichloromethane	6	N	ND
78-87-5	1,2-Dichloropropane	6	T	ND
10061-01-5	cis-1,3-Dichloropropene	6	A	ND
79-01-6	Trichloroethylene	6	L	ND
124-48-1	Dibromochloromethane	6		ND
79-00-5	1,1,2-Trichloroethane	6	L	ND
71-43-2	Benzene	6	A	ND
10061-02-6	trans-1,3-Dichloropropene	6	B	ND
75-25-2	Bromoform	12	O	ND
108-10-1	4-Methyl-2-pentanone	12	R	ND
591-78-6	2-Hexanone	12	A	ND
127-18-4	Tetrachloroethylene	6	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	6	O	ND
108-88-3	Toluene	6	R	ND
108-90-7	Chlorobenzene	6	Y	ND
100-41-4	Ethylbenzene	6		ND

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REVET Sample No.: 7318	EPA Method	RESULTS**
	Detection Limits	
	for this sample*	
<u>CAS Number</u>	<u>Compound</u>	<u>ug/kg</u>
		<u>ug/kg</u>
100-42-5	Styrene	6 ND
1330-20-7	Total xylenes	6 ND
108-05-4	Vinyl Acetate	6 ND
541-73-1	1,3-Dichlorobenzene	12 ND
-----	1,2- & 1,4-Dichlorobenzene	12 ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture=20.0

<u>Compound</u>	<u>Surrogate % Recovery</u>	<u>Acceptable Soil Limits</u>
1,2-Dichloroethane-d4	93	70-121
Toluene-d8	105	84-138
4-Bromofluorobenzene	103	59-113

Notes:

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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7319 REVET Account No.: E2014  
 Client Sample: 01-007 BH, INT 1 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Sampled: 11/18/93 Date Received: 11/18/93  
 Matrix: Soil Date Run: 11/26/93  
 Method: 8240 Dilution Factor: 1  
 =====

Analyst: A. Wolf Date: 12-14-93  
 A. WOLF

QC Check: J. Paquin Date: 12/14/93

CAS Number	Compound	EPA Method		RESULTS**
		Detection Limits	for this sample*	
		ug/kg	ug/kg	
74-87-3	Chloromethane	10	R	ND
74-83-9	Bromomethane	10	E	ND
75-01-4	Vinyl Chloride	10	V	ND
75-00-3	Chloroethane	10	E	ND
75-09-2	Methylene chloride	5	T	ND
67-64-1	Acetone	10		ND
75-15-0	Carbon disulfide	5	E	ND
75-35-4	1,1-Dichloroethene	5	N	ND
75-34-3	1,1-Dichloroethane	5	V	ND
156-60-5	1,2-dichloroethenes(total)	5	I	ND
67-66-3	Chloroform	5	R	ND
107-06-2	1,2-Dichloroethane	5	O	ND
78-93-3	2-Butanone (MEK)	10	N	ND
71-55-6	1,1,1-Trichloroethane	5	M	ND
56-23-5	Carbon tetrachloride	5	E	ND
75-27-4	Bromodichloromethane	5	N	ND
78-87-5	1,2-Dichloropropane	5	T	ND
10061-01-5	cis-1,3-Dichloropropene	5	A	ND
79-01-6	Trichloroethylene	5	L	ND
124-48-1	Dibromochloromethane	5		ND
79-00-5	1,1,2-Trichloroethane	5	L	ND
71-43-2	Benzene	5	A	ND
10061-02-6	trans-1,3-Dichloropropene	5	B	ND
75-25-2	Bromoform	10	O	ND
108-10-1	4-Methyl-2-pentanone	10	R	ND
591-78-6	2-Hexanone	10	A	ND
127-18-4	Tetrachloroethylene	5	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	O	ND
108-88-3	Toluene	5	R	ND
108-90-7	Chlorobenzene	5	Y	ND
100-41-4	Ethylbenzene	5		ND

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REVE T Sample No.: 7319	EPA Method	RESULTS**
	Detection Limits for this sample*	
CAS Number	Compound	ug/kg
100-42-5	Styrene	5
1330-20-7	Total xylenes	5
108-05-4	Vinyl Acetate	5
541-73-1	1,3-Dichlorobenzene	10
-----	1,2- & 1,4-Dichlorobenzene	10

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture- 11.0

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	91	70-121
Toluene-d8	108	84-138
4-Bromofluorobenzene	98	59-113

Notes:

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REVET Sample No.: 7321		EPA Method	RESULTS**
		Detection Limits for this sample*	
CAS Number	Compound	ug/kg	ug/kg
100-42-5	Styrene	5	ND
1330-20-7	Total xylenes	5	ND
108-05-4	Vinyl Acetate	5	ND
541-73-1	1,3-Dichlorobenzene	10	ND
-----	1,2- & 1,4-Dichlorobenzene	10	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture- 12.5

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	97	70-121
Toluene-d8	99	84-138
4-Bromofluorobenzene	89	59-113

Notes:

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REVET Sample No.: 7208		EPA Method	RESULTS
		Detection Limits	
		for this sample*	
CAS Number	Compound	ug/Kg	ug/Kg
100-42-5	Styrene	280	ND
1330-20-7	Total xylenes	280	2000
108-05-4	Vinyl Acetate	280	ND
541-73-1	1,3-Dichlorobenzene	550	ND
-----	1,2- & 1,4-Dichlorobenzene	550	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

%moisture = 9.7

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	96	76-114
Toluene-d8	99	88-110
4-Bromofluorobenzene	88	86-115

Notes:\*\*\*Unable to run sample at a lower dilution factor due to the presence of non-target compounds at high concentration.

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Hit on 7/2/01

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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7209 REVET Account No.: E2008  
 Client Sample: 01-014 BH, INT 1 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Soil Date Run: 11/19/93  
 Method: 8240 Dilution Factor: 0.9

Analyst: A. Wolf Date: 12-14-93  
 A.WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS\*\*  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/kg		ug/kg
74-87-3	Chloromethane	9	R	ND
74-83-9	Bromomethane	9	E	ND
75-01-4	Vinyl Chloride	9	V	ND
75-00-3	Chloroethane	9	E	ND
75-09-2	Methylene chloride	4	T	ND
67-64-1	Acetone	9		ND
75-15-0	Carbon disulfide	4	E	ND
75-35-4	1,1-Dichloroethene	4	N	ND
75-34-3	1,1-Dichloroethane	4	V	ND
156-60-5	1,2-dichloroethenes(total)	4	I	ND
67-66-3	Chloroform	4	R	ND
107-06-2	1,2-Dichloroethane	4	O	ND
78-93-3	2-Butanone (MEK)	9	N	ND
71-55-6	1,1,1-Trichloroethane	4	M	ND
56-23-5	Carbon tetrachloride	4	E	ND
75-27-4	Bromodichloromethane	4	N	ND
78-87-5	1,2-Dichloropropane	4	T	ND
10061-01-5	cis-1,3-Dichloropropene	4	A	ND
79-01-6	Trichloroethylene	4	L	ND
124-48-1	Dibromochloromethane	4		ND
79-00-5	1,1,2-Trichloroethane	4	L	ND
71-43-2	Benzene	4	A	ND
10061-02-6	trans-1,3-Dichloropropene	4	B	ND
75-25-2	Bromoform	9	O	ND
108-10-1	4-Methyl-2-pentanone	9	R	ND
591-78-6	2-Hexanone	9	A	ND
127-18-4	Tetrachloroethylene	4	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	4	O	ND
108-88-3	Toluene	4	R	ND
108-90-7	Chlorobenzene	4	Y	ND
100-41-4	Ethylbenzene	4		ND

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REVEI Sample No.: 7209	EPA Method	RESULTS**
	Detection Limits for this sample*	
CAS Number	Compound	ug/kg
100-42-5	Styrene	4
1330-20-7	Total xylenes	4
108-05-4	Vinyl Acetate	4
541-73-1	1,3-Dichlorobenzene	9
-----	1,2- & 1,4-Dichlorobenzene	9

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight          Soil/sediment % moisture- 9.2

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	88	70-121
Toluene-d8	104	84-138
4-Bromofluorobenzene	102	59-113

Notes:

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=====
Client: OPTECH                               Contact: JOHN MORRIS
Revet Sample No.: 7210                       REVET Account No.: E2008
Client Sample: 01-013 BH, INT 1             Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113
Date Sampled: 11/17/93                      Date Received: 11/17/93
Matrix: Soil                                 Date Run: 11/19/93
Method: 8240                                 Dilution Factor: 1.1
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Analyst: E. Wolf Date: 12-14-94  
A. WOLF

QC Check: J. Paquin Date: 12/14/93

CAS Number	Compound	EPA Method Detection Limits for this sample*		RESULTS**
		ug/kg	ug/kg	
74-87-3	Chloromethane	11	R	ND
74-83-9	Bromomethane	11	E	ND
75-01-4	Vinyl Chloride	11	V	ND
75-00-3	Chloroethane	11	E	ND
75-09-2	Methylene chloride	5	T	ND
67-64-1	Acetone	11		ND
75-15-0	Carbon disulfide	5	E	ND
75-35-4	1,1-Dichloroethene	5	N	ND
75-34-3	1,1-Dichloroethane	5	V	ND
156-60-5	1,2-dichloroethenes(total)	5	I	ND
67-66-3	Chloroform	5	R	ND
107-06-2	1,2-Dichloroethane	5	O	ND
78-93-3	2-Butanone (MEK)	11	N	ND
71-55-6	1,1,1-Trichloroethane	5	M	ND
56-23-5	Carbon tetrachloride	5	E	ND
75-27-4	Bromodichloromethane	5	N	ND
78-87-5	1,2-Dichloropropane	5	T	ND
10061-01-5	cis-1,3-Dichloropropene	5	A	ND
79-01-6	Trichloroethylene	5	L	ND
124-48-1	Dibromochloromethane	5		ND
79-00-5	1,1,2-Trichloroethane	5	L	ND
71-43-2	Benzene	5	A	ND
10061-02-6	trans-1,3-Dichloropropene	5	B	ND
75-25-2	Bromoform	11	O	ND
108-10-1	4-Methyl-2-pentanone	11	R	ND
591-78-6	2-Hexanone	11	A	ND
127-18-4	Tetrachloroethylene	5	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	O	ND
108-88-3	Toluene	5	R	ND
108-90-7	Chlorobenzene	5	Y	ND
100-41-4	Ethylbenzene	5		ND

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REVE <sup>+</sup> Sample No.: 7210		EPA Method	RESULTS**
		Detection Limits	
		for this sample*	
CAS Number	Compound	ug/kg	ug/kg
100-42-5	Styrene	5	ND
1330-20-7	Total xylenes	5	ND
108-05-4	Vinyl Acetate	5	ND
541-73-1	1,3-Dichlorobenzene	11	ND
-----	1,2- & 1,4-Dichlorobenzene	11	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture- 13.6

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	106	70-121
Toluene-d8	115	84-138
4-Bromofluorobenzene	94	59-113

Notes:

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 DEP Certification MA #082  
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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7211 REVET Account No.: E2008  
 Client Sample: 01-006 BH, INT 1 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Soil Date Run: 11/19/93  
 Method: 8240 Dilution Factor: 1

Analyst: A. Wolf Date: 12-14-93  
 A.WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS\*\*  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/kg		ug/kg
74-87-3	Chloromethane	10	R	ND
74-83-9	Bromomethane	10	E	ND
75-01-4	Vinyl Chloride	10	V	ND
75-00-3	Chloroethane	10	E	ND
75-09-2	Methylene chloride	5	T	ND
67-64-1	Acetone	10		ND
75-15-0	Carbon disulfide	5	E	ND
75-35-4	1,1-Dichloroethene	5	N	ND
75-34-3	1,1-Dichloroethane	5	V	ND
156-60-5	1,2-dichloroethenes(total)	5	I	ND
67-66-3	Chloroform	5	R	ND
107-06-2	1,2-Dichloroethane	5	O	ND
78-93-3	2-Butanone (MEK)	10	N	ND
71-55-6	1,1,1-Trichloroethane	5	M	ND
56-23-5	Carbon tetrachloride	5	E	ND
75-27-4	Bromodichloromethane	5	N	ND
78-87-5	1,2-Dichloropropane	5	T	ND
10061-01-5	cis-1,3-Dichloropropene	5	A	ND
79-01-6	Trichloroethylene	5	L	ND
124-48-1	Dibromochloromethane	5		ND
79-00-5	1,1,2-Trichloroethane	5	L	ND
71-43-2	Benzene	5	A	ND
10061-02-6	trans-1,3-Dichloropropene	5	B	ND
75-25-2	Bromoform	10	O	ND
108-10-1	4-Methyl-2-pentanone	10	R	ND
591-78-6	2-Hexanone	10	A	ND
127-18-4	Tetrachloroethylene	5	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	O	ND
108-88-3	Toluene	5	R	ND
108-90-7	Chlorobenzene	5	Y	ND
100-41-4	Ethylbenzene	5		ND

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REVET Sample No.: 7211		EPA Method	RESULTS**
		Detection Limits	
		for this sample*	
CAS Number	Compound	ug/kg	ug/kg
100-42-5	Styrene	5	ND
1330-20-7	Total xylenes	5	ND
108-05-4	Vinyl Acetate	5	ND
541-73-1	1,3-Dichlorobenzene	10	ND
-----	1,2- & 1,4-Dichlorobenzene	10	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture- 13.3

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	104	70-121
Toluene-d8	110	84-138
4-Bromofluorobenzene	100	59-113

Notes:

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Client: OPTECH                               Contact: JOHN MORRIS
Revet Sample No.: 7212                       REVET Account No.: E2008
Client Sample: 01-006 BH, INT 2             Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113
Date Sampled: 11/17/93                      Date Received: 11/17/93
Matrix: Soil                                 Date Run: 11/19/93
Method: 8240                                 Dilution Factor: 1.2
    
```

Analyst: A. Wolf Date: 12-14-93  
 A.WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method                      RESULTS\*\*  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/kg		ug/kg
74-87-3	Chloromethane	12	R	ND
74-83-9	Bromomethane	12	E	ND
75-01-4	Vinyl Chloride	12	V	ND
75-00-3	Chloroethane	12	E	ND
75-09-2	Methylene chloride	6	T	ND
67-64-1	Acetone	12		220
75-15-0	Carbon disulfide	6	E	ND
75-35-4	1,1-Dichloroethene	6	N	ND
75-34-3	1,1-Dichloroethane	6	V	ND
156-60-5	1,2-dichloroethenes(total)	6	I	ND
67-66-3	Chloroform	6	R	ND
107-06-2	1,2-Dichloroethane	6	O	ND
78-93-3	2-Butanone (MEK)	12	N	50
71-55-6	1,1,1-Trichloroethane	6	M	ND
56-23-5	Carbon tetrachloride	6	E	ND
75-27-4	Bromodichloromethane	6	N	ND
78-87-5	1,2-Dichloropropane	6	T	ND
10061-01-5	cis-1,3-Dichloropropene	6	A	ND
79-01-6	Trichloroethylene	6	L	ND
124-48-1	Dibromochloromethane	6		ND
79-00-5	1,1,2-Trichloroethane	6	L	ND
71-43-2	Benzene	6	A	ND
10061-02-6	trans-1,3-Dichloropropene	6	B	ND
75-25-2	Bromoform	12	O	ND
108-10-1	4-Methyl-2-pentanone	12	R	ND
591-78-6	2-Hexanone	12	A	ND
127-18-4	Tetrachloroethylene	6	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	6	O	ND
108-88-3	Toluene	6	R	6
108-90-7	Chlorobenzene	6	Y	ND
100-41-4	Ethylbenzene	6		ND

HITON =  
 ACETONE



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REVET Sample No.: 7212          EPA Method          RESULTS**
                              Detection Limits
                              for this sample*
CAS Number  Compound              ug/kg              ug/kg
-----
100-42-5   Styrene                   6                  ND
1330-20-7  Total xylenes                 6                  ND
108-05-4   Vinyl Acetate                 6                  ND
541-73-1   1,3-Dichlorobenzene          12                 ND
-----
          1,2- & 1,4-Dichlorobenzene  12                 ND

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ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture- 26.9

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	112	70-121
Toluene-d8	120	84-138
4-Bromofluorobenzene	87	59-113

Notes:

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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7213 REVET Account No.: E2008  
 Client Sample: 01-005 BH, INT 1 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Soil Date Run: 11/23/93  
 Method: 8240 Dilution Factor: 1

Analyst: A. WOLF Date: 12-14-93

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS\*\*  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/kg		ug/kg
74-87-3	Chloromethane	10	R	ND
74-83-9	Bromomethane	10	E	ND
75-01-4	Vinyl Chloride	10	V	ND
75-00-3	Chloroethane	10	E	ND
75-09-2	Methylene chloride	5	T	ND
67-64-1	Acetone	10		ND
75-15-0	Carbon disulfide	5	E	ND
75-35-4	1,1-Dichloroethene	5	N	ND
75-34-3	1,1-Dichloroethane	5	V	ND
156-60-5	1,2-dichloroethenes(total)	5	I	ND
67-66-3	Chloroform	5	R	ND
107-06-2	1,2-Dichloroethane	5	O	ND
78-93-3	2-Butanone (MEK)	10	N	ND
71-55-6	1,1,1-Trichloroethane	5	M	ND
56-23-5	Carbon tetrachloride	5	E	ND
75-27-4	Bromodichloromethane	5	N	ND
78-87-5	1,2-Dichloropropane	5	T	ND
10061-01-5	cis-1,3-Dichloropropene	5	A	ND
79-01-6	Trichloroethylene	5	L	ND
124-48-1	Dibromochloromethane	5		ND
79-00-5	1,1,2-Trichloroethane	5	L	ND
71-43-2	Benzene	5	A	ND
10061-02-6	trans-1,3-Dichloropropene	5	B	ND
75-25-2	Bromoform	10	O	ND
108-10-1	4-Methyl-2-pentanone	10	R	ND
591-78-6	2-Hexanone	10	A	ND
127-18-4	Tetrachloroethylene	5	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	O	ND
108-88-3	Toluene	5	R	ND
108-90-7	Chlorobenzene	5	Y	ND
100-41-4	Ethylbenzene	5		ND

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CAS Number	Compound	EPA Method Detection Limits for this sample*	RESULTS**
		ug/kg	ug/kg
100-42-5	Styrene	5	ND
1330-20-7	Total xylenes	5	ND
108-05-4	Vinyl Acetate	5	ND
541-73-1	1,3-Dichlorobenzene	10	ND
-----	1,2- & 1,4-Dichlorobenzene	10	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture- 6.7

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	97	70-121
Toluene-d8	102	84-138
4-Bromofluorobenzene	91	59-113

Notes:

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Client: OPTECH  
 Revet Sample No.: 7214  
 Client Sample: 01-005 BH, INT 2  
 Date Sampled: 11/17/93  
 Matrix: Soil  
 Method: 8240

Contact: JOHN MORRIS  
 REVET Account No.: E2008  
 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Received: 11/17/93  
 Date Run: 11/23/93  
 Dilution Factor: 1.2

Analyst: A. Wolf Date: 12-14-93  
 A. WOLF

QC Check: J. Pagani Date: 12/14/93

EPA Method                      RESULTS\*\*  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/kg		ug/kg
74-87-3	Chloromethane	12	R	ND
74-83-9	Bromomethane	12	E	ND
75-01-4	Vinyl Chloride	12	V	ND
75-00-3	Chloroethane	12	E	ND
75-09-2	Methylene chloride	6	T	ND
67-64-1	Acetone	12		110
75-15-0	Carbon disulfide	6	E	ND
75-35-4	1,1-Dichloroethene	6	N	ND
75-34-3	1,1-Dichloroethane	6	V	ND
156-60-5	1,2-dichloroethenes(total)	6	I	ND
67-66-3	Chloroform	6	R	ND
107-06-2	1,2-Dichloroethane	6	O	ND
78-93-3	2-Butanone (MEK)	12	N	ND
71-55-6	1,1,1-Trichloroethane	6	M	ND
56-23-5	Carbon tetrachloride	6	E	ND
75-27-4	Bromodichloromethane	6	N	ND
78-87-5	1,2-Dichloropropane	6	T	ND
10061-01-5	cis-1,3-Dichloropropene	6	A	ND
79-01-6	Trichloroethylene	6	L	ND
124-48-1	Dibromochloromethane	6		ND
79-00-5	1,1,2-Trichloroethane	6	L	ND
71-43-2	Benzene	6	A	ND
10061-02-6	trans-1,3-Dichloropropene	6	B	ND
75-25-2	Bromoform	12	O	ND
108-10-1	4-Methyl-2-pentanone	12	R	ND
591-78-6	2-Hexanone	12	A	ND
127-18-4	Tetrachloroethylene	6	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	6	O	ND
108-88-3	Toluene	6	R	8
108-90-7	Chlorobenzene	6	Y	ND
100-41-4	Ethylbenzene	6		ND

HIT ON ACETONE

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REVET Sample No.: 7214 EPA Method RESULTS\*\*  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/kg	ug/kg
100-42-5	Styrene	6	ND
1330-20-7	Total xylenes	6	ND
108-05-4	Vinyl Acetate	6	ND
541-73-1	1,3-Dichlorobenzene	12	ND
-----	1,2- & 1,4-Dichlorobenzene	12	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 19.0

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	107	70-121
Toluene-d8	108	84-138
4-Bromofluorobenzene	93	59-113

Notes:

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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7215 REVET Account No.: E2008  
 Client Sample: 01-010 BH, INT 1 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Soil Date Run: 11/23/93  
 Method: 8240 Dilution Factor: 1.6

Analyst: A. Wolf Date: 12-14-93  
 A.WOLF

QC Check: J. Paquin Date: 12/14/93

CAS Number	Compound	EPA Method		RESULTS**	
		Detection Limits for this sample*		ug/kg	ug/kg
74-87-3	Chloromethane	16	R		ND
74-83-9	Bromomethane	16	E		ND
75-01-4	Vinyl Chloride	16	V		ND
75-00-3	Chloroethane	16	E		ND
75-09-2	Methylene chloride	8	T		ND
67-64-1	Acetone	16			ND
75-15-0	Carbon disulfide	8	E		ND
75-35-4	1,1-Dichloroethene	8	N		ND
75-34-3	1,1-Dichloroethane	8	V		ND
156-60-5	1,2-dichloroethenes(total)	8	I		ND
67-66-3	Chloroform	8	R		ND
107-06-2	1,2-Dichloroethane	8	O		ND
78-93-3	2-Butanone (MEK)	16	N		ND
71-55-6	1,1,1-Trichloroethane	8	M		ND
56-23-5	Carbon tetrachloride	8	E		ND
75-27-4	Bromodichloromethane	8	N		ND
78-87-5	1,2-Dichloropropane	8	T		ND
10061-01-5	cis-1,3-Dichloropropene	8	A		ND
79-01-6	Trichloroethylene	8	L		ND
124-48-1	Dibromochloromethane	8			ND
79-00-5	1,1,2-Trichloroethane	8	L		ND
71-43-2	Benzene	8	A		ND
10061-02-6	trans-1,3-Dichloropropene	8	B		ND
75-25-2	Bromoform	16	O		ND
108-10-1	4-Methyl-2-pentanone	16	R		ND
591-78-6	2-Hexanone	16	A		ND
127-18-4	Tetrachloroethylene	8	T		ND
79-34-5	1,1,2,2-Tetrachloroethane	8	O		ND
108-88-3	Toluene	8	R		ND
108-90-7	Chlorobenzene	8	Y		ND
100-41-4	Ethylbenzene	8			ND

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REVET Sample No.: 7215

EPA Method  
Detection Limits  
for this sample\*

RESULTS\*\*

CAS Number	Compound	ug/kg	ug/kg
100-42-5	Styrene	8	ND
1330-20-7	Total xylenes	8	ND
108-05-4	Vinyl Acetate	8	ND
541-73-1	1,3-Dichlorobenzene	16	ND
-----	1,2- & 1,4-Dichlorobenzene	16	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight          Soil/sediment % moisture- 42.8

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	104	70-121
Toluene-d8	121	84-138
4-Bromofluorobenzene	83	59-113

Notes:

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Marlboro, MA 01752

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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7216 REVET Account No.: E2008  
 Client Sample: 01-008 BH, INT 1 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Soil Date Run: 11/26/93  
 Method: 8240 Dilution Factor: 2920 \*\*\*  
 =====

Analyst: J Paquin for Date: 12/14/93  
 A.WOLF

QC Check: E Taylor Date: 12/14/93

EPA Method RESULTS  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/Kg		ug/Kg
74-87-3	Chloromethane	5800	R	ND
74-83-9	Bromomethane	5800	E	ND
75-01-4	Vinyl Chloride	5800	V	ND
75-00-3	Chloroethane	5800	E	ND
75-09-2	Methylene chloride	2900	T	ND
67-64-1	Acetone	5800		ND
75-15-0	Carbon disulfide	2900	E	ND
75-35-4	1,1-Dichloroethene	2900	N	ND
75-34-3	1,1-Dichloroethane	2900	V	ND
156-60-5	1,2-dichloroethenes(total)	2900	I	ND
67-66-3	Chloroform	2900	R	ND
107-06-2	1,2-Dichloroethane	2900	O	ND
78-93-3	2-Butanone (MEK)	5800	N	ND
71-55-6	1,1,1-Trichloroethane	2900	M	ND
56-23-5	Carbon tetrachloride	2900	E	ND
75-27-4	Bromodichloromethane	2900	N	ND
78-87-5	1,2-Dichloropropane	2900	T	ND
10061-01-5	cis-1,3-Dichloropropene	2900	A	ND
79-01-6	Trichloroethylene	2900	L	ND
124-48-1	Dibromochloromethane	2900		ND
79-00-5	1,1,2-Trichloroethane	2900	L	ND
71-43-2	Benzene	2900	A	ND
10061-02-6	trans-1,3-Dichloropropene	2900	B	ND
75-25-2	Bromoform	5800	O	ND
108-10-1	4-Methyl-2-pentanone	5800	R	ND
591-78-6	2-Hexanone	5800	A	ND
127-18-4	Tetrachloroethylene	2900	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	2900	O	ND
108-88-3	Toluene	2900	R	ND
108-90-7	Chlorobenzene	2900	Y	ND
100-41-4	Ethylbenzene	2900		ND



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REVET Sample No.: 7216		EPA Method	RESULTS
		Detection Limits	
		for this sample*	
CAS Number	Compound	ug/Kg	ug/Kg
100-42-5	Styrene	2900	ND
1330-20-7	Total xylenes	2900	ND
108-05-4	Vinyl Acetate	2900	ND
541-73-1	1,3-Dichlorobenzene	5800	ND
-----	1,2- & 1,4-Dichlorobenzene	5800	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

%moisture = 57.2

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	89	76-114
Toluene-d8	107	88-110
4-Bromofluorobenzene	87	86-115

Notes:\*\*\*Unable to run sample at a lower dilution factor due to the presence of non-target compounds at high concentration.

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Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7217 REVET Account No.: E2008  
 Client Sample: 01-004 BH, INT 1 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Soil Date Run: 11/26/93  
 Method: 8240 Dilution Factor: 1

Analyst: A. Wolf Date: 12-14-93  
 A. WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS\*\*  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/kg		ug/kg
74-87-3	Chloromethane	10	R	ND
74-83-9	Bromomethane	10	E	ND
75-01-4	Vinyl Chloride	10	V	ND
75-00-3	Chloroethane	10	E	ND
75-09-2	Methylene chloride	5	T	ND
67-64-1	Acetone	10		ND
75-15-0	Carbon disulfide	5	E	ND
75-35-4	1,1-Dichloroethene	5	N	ND
75-34-3	1,1-Dichloroethane	5	V	ND
156-60-5	1,2-dichloroethenes(total)	5	I	ND
67-66-3	Chloroform	5	R	ND
107-06-2	1,2-Dichloroethane	5	O	ND
78-93-3	2-Butanone (MEK)	10	N	ND
71-55-6	1,1,1-Trichloroethane	5	M	ND
56-23-5	Carbon tetrachloride	5	E	ND
75-27-4	Bromodichloromethane	5	N	ND
78-87-5	1,2-Dichloropropane	5	T	ND
10061-01-5	cis-1,3-Dichloropropene	5	A	ND
79-01-6	Trichloroethylene	5	L	ND
124-48-1	Dibromochloromethane	5		ND
79-00-5	1,1,2-Trichloroethane	5	L	ND
71-43-2	Benzene	5	A	ND
10061-02-6	trans-1,3-Dichloropropene	5	B	ND
75-25-2	Bromoform	10	O	ND
108-10-1	4-Methyl-2-pentanone	10	R	ND
591-78-6	2-Hexanone	10	A	ND
127-18-4	Tetrachloroethylene	5	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	O	ND
108-88-3	Toluene	5	R	ND
108-90-7	Chlorobenzene	5	Y	ND
100-41-4	Ethylbenzene	5		ND

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REVET Sample No.: 7217		EPA Method	RESULTS**
		Detection Limits	
		for this sample*	
CAS Number	Compound	ug/kg	ug/kg
100-42-5	Styrene	5	ND
1330-20-7	Total xylenes	5	ND
108-05-4	Vinyl Acetate	5	ND
541-73-1	1,3-Dichlorobenzene	10	ND
-----	1,2- & 1,4-Dichlorobenzene	10	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture- 10.7

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	100	70-121
Toluene-d8	112	84-138
4-Bromofluorobenzene	90	59-113

Notes:

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DEP Certification MA #082  
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Page 1 of 2

=====  
Client: OPTECH Contact: JOHN MORRIS  
Revet Sample No.: 7218 REVET Account No.: E2008  
Client Sample: 01-004 BH, INT 2 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
Date Sampled: 11/17/93 Date Received: 11/17/93  
Matrix: Soil Date Run: 11/23/93  
Method: 8240 Dilution Factor: 1.2  
=====

Analyst: A. Wolf Date: 12-14-93  
A. WOLF

QC Check: J. Pagan Date: 12/14/93

CAS Number	Compound	EPA Method		RESULTS**
		Detection Limits	for this sample*	
		ug/kg	ug/kg	
74-87-3	Chloromethane	12	R	ND
74-83-9	Bromomethane	12	E	ND
75-01-4	Vinyl Chloride	12	V	ND
75-00-3	Chloroethane	12	E	ND
75-09-2	Methylene chloride	6	T	ND
67-64-1	Acetone	12		65
75-15-0	Carbon disulfide	6	E	ND
75-35-4	1,1-Dichloroethene	6	N	ND
75-34-3	1,1-Dichloroethane	6	V	ND
156-60-5	1,2-dichloroethenes(total)	6	I	ND
67-66-3	Chloroform	6	R	ND
107-06-2	1,2-Dichloroethane	6	O	ND
78-93-3	2-Butanone (MEK)	12	N	ND
71-55-6	1,1,1-Trichloroethane	6	M	ND
56-23-5	Carbon tetrachloride	6	E	ND
75-27-4	Bromodichloromethane	6	N	ND
78-87-5	1,2-Dichloropropane	6	T	ND
10061-01-5	cis-1,3-Dichloropropene	6	A	ND
79-01-6	Trichloroethylene	6	L	ND
124-48-1	Dibromochloromethane	6		ND
79-00-5	1,1,2-Trichloroethane	6	L	ND
71-43-2	Benzene	6	A	ND
10061-02-6	trans-1,3-Dichloropropene	6	B	ND
75-25-2	Bromoform	12	O	ND
108-10-1	4-Methyl-2-pentanone	12	R	ND
591-78-6	2-Hexanone	12	A	ND
127-18-4	Tetrachloroethylene	6	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	6	O	ND
108-88-3	Toluene	6	R	ND
108-90-7	Chlorobenzene	6	Y	ND
100-41-4	Ethylbenzene	6		ND

no 11H

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RENET Sample No.:	EPA Method	RESULTS**	
7218	Detection Limits for this sample*		
CAS Number	Compound	ug/kg	ug/kg
100-42-5	Styrene	6	ND
1330-20-7	Total xylenes	6	ND
108-05-4	Vinyl Acetate	6	ND
541-73-1	1,3-Dichlorobenzene	12	ND
-----	1,2- & 1,4-Dichlorobenzene	12	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture- 21.1

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	106	70-121
Toluene-d8	113	84-138
4-Bromofluorobenzene	95	59-113

Notes:

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Page 1 of 2

Client: OPTECH  
 Revet Sample No.: 7135  
 Client Sample: 01-001 BH INT 1  
 Date Sampled: 11/16/93  
 Matrix: Soil  
 Method: 8240  
 Contact: JOHN MORRIS  
 REVET Account No.: E1997  
 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Received: 11/16/93  
 Date Run: 11/18/93  
 Dilution Factor: 1

Analyst: A. Wolf Date: 12-16-93  
 A.WOLF

QC Check: J. Paquin Date: 12/14/93

CAS Number	Compound	EPA Method		RESULTS**
		Detection Limits	for this sample*	
		ug/kg		ug/kg
74-87-3	Chloromethane	10	R	ND
74-83-9	Bromomethane	10	E	ND
75-01-4	Vinyl Chloride	10	V	ND
75-00-3	Chloroethane	10	E	ND
75-09-2	Methylene chloride	5	T	ND
67-64-1	Acetone	10		ND
75-15-0	Carbon disulfide	5	E	ND
75-35-4	1,1-Dichloroethene	5	N	ND
75-34-3	1,1-Dichloroethane	5	V	ND
156-60-5	1,2-dichloroethenes(total)	5	I	ND
67-66-3	Chloroform	5	R	ND
107-06-2	1,2-Dichloroethane	5	O	ND
78-93-3	2-Butanone (MEK)	10	N	ND
71-55-6	1,1,1-Trichloroethane	5	M	ND
56-23-5	Carbon tetrachloride	5	E	ND
75-27-4	Bromodichloromethane	5	N	ND
78-87-5	1,2-Dichloropropane	5	T	ND
10061-01-5	cis-1,3-Dichloropropene	5	A	ND
79-01-6	Trichloroethylene	5	L	ND
124-48-1	Dibromochloromethane	5		ND
79-00-5	1,1,2-Trichloroethane	5	L	ND
71-43-2	Benzene	5	A	ND
10061-02-6	trans-1,3-Dichloropropene	5	B	ND
75-25-2	Bromoform	10	O	ND
108-10-1	4-Methyl-2-pentanone	10	R	ND
591-78-6	2-Hexanone	10	A	ND
127-18-4	Tetrachloroethylene	5	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	O	ND
108-88-3	Toluene	5	R	ND
108-90-7	Chlorobenzene	5	Y	ND
100-41-4	Ethylbenzene	5		ND

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REVET Sample No.: 7135	EPA Method	RESULTS**
	Detection Limits	
	for this sample*	
<u>CAS Number</u>	<u>Compound</u>	<u>ug/kg</u>
100-42-5	Styrene	5
1330-20-7	Total xylenes	5
108-05-4	Vinyl Acetate	5
541-73-1	1,3-Dichlorobenzene	10
-----	1,2- & 1,4-Dichlorobenzene	10

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture- 4.1

<u>Compound</u>	<u>Surrogate % Recovery</u>	<u>Acceptable Soil Limits</u>
1,2-Dichloroethane-d4	103	70-121
Toluene-d8	104	84-138
4-Bromofluorobenzene	97	59-113

Notes:

=====

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Page 1 of 2

=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7136 REVET Account No.: E1997  
 Client Sample: 01-002 BH INT 1 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Sampled: 11/16/93 Date Received: 11/16/93  
 Matrix: Soil Date Run: 11/18/93  
 Method: 8240 Dilution Factor: 0.9  
 =====

Analyst: A. Wolf Date: 12-14-93  
 A.WOLF

QC Check: J. Paquin Date: 12/14/93

CAS Number	Compound	EPA Method		RESULTS**
		Detection Limits	for this sample*	
		ug/kg	ug/kg	
74-87-3	Chloromethane	9	R	ND
74-83-9	Bromomethane	9	E	ND
75-01-4	Vinyl Chloride	9	V	ND
75-00-3	Chloroethane	9	E	ND
75-09-2	Methylene chloride	4	T	ND
67-64-1	Acetone	9		ND
75-15-0	Carbon disulfide	4	E	ND
75-35-4	1,1-Dichloroethene	4	N	ND
75-34-3	1,1-Dichloroethane	4	V	ND
156-60-5	1,2-dichloroethenes(total)	4	I	ND
67-66-3	Chloroform	4	R	ND
107-06-2	1,2-Dichloroethane	4	O	ND
78-93-3	2-Butanone (MEK)	9	N	ND
71-55-6	1,1,1-Trichloroethane	4	M	ND
56-23-5	Carbon tetrachloride	4	E	ND
75-27-4	Bromodichloromethane	4	N	ND
78-87-5	1,2-Dichloropropane	4	T	ND
10061-01-5	cis-1,3-Dichloropropene	4	A	ND
79-01-6	Trichloroethylene	4	L	ND
124-48-1	Dibromochloromethane	4		ND
79-00-5	1,1,2-Trichloroethane	4	L	ND
71-43-2	Benzene	4	A	ND
10061-02-6	trans-1,3-Dichloropropene	4	B	ND
75-25-2	Bromoform	9	O	ND
108-10-1	4-Methyl-2-pentanone	9	R	ND
591-78-6	2-Hexanone	9	A	ND
127-18-4	Tetrachloroethylene	4	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	4	O	ND
108-88-3	Toluene	4	R	ND
108-90-7	Chlorobenzene	4	Y	ND
100-41-4	Ethylbenzene	4		ND



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REJET Sample No.: 7136		EPA Method	RESULTS**
		Detection Limits for this sample*	
CAS Number	Compound	ug/kg	ug/kg
100-42-5	Styrene	4	ND
1330-20-7	Total xylenes	4	ND
108-05-4	Vinyl Acetate	4	ND
541-73-1	1,3-Dichlorobenzene	9	ND
-----	1,2- & 1,4-Dichlorobenzene	9	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture- 6.4

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	98	70-121
Toluene-d8	104	84-138
4-Bromofluorobenzene	94	59-113

Notes:

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Page 1 of 2

Client: OPTECH  
 Revet Sample No.: 7137  
 Client Sample: 01-003 BH INT 1  
 Date Sampled: 11/16/93  
 Matrix: Soil  
 Method: 8240  
 Contact: JOHN MORRIS  
 REVE Account No.: E1997  
 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Received: 11/16/93  
 Date Run: 11/18/93  
 Dilution Factor: 1

Analyst: A. Wolf Date: 12-14-93  
 A.WOLF

QC Check: J. Paquin Date: 12/14/93

CAS Number	Compound	EPA Method	Detection Limits for this sample*	RESULTS**
			ug/kg	ug/kg
74-87-3	Chloromethane	10	R	ND
74-83-9	Bromomethane	10	E	ND
75-01-4	Vinyl Chloride	10	V	ND
75-00-3	Chloroethane	10	E	ND
75-09-2	Methylene chloride	5	T	ND
67-64-1	Acetone	10		ND
75-15-0	Carbon disulfide	5	E	ND
75-35-4	1,1-Dichloroethene	5	N	ND
75-34-3	1,1-Dichloroethane	5	V	ND
156-60-5	1,2-dichloroethenes(total)	5	I	ND
67-66-3	Chloroform	5	R	ND
107-06-2	1,2-Dichloroethane	5	O	ND
78-93-3	2-Butanone (MEK)	10	N	ND
71-55-6	1,1,1-Trichloroethane	5	M	ND
56-23-5	Carbon tetrachloride	5	E	ND
75-27-4	Bromodichloromethane	5	N	ND
78-87-5	1,2-Dichloropropane	5	T	ND
10061-01-5	cis-1,3-Dichloropropene	5	A	ND
79-01-6	Trichloroethylene	5	L	ND
124-48-1	Dibromochloromethane	5		ND
79-00-5	1,1,2-Trichloroethane	5	L	ND
71-43-2	Benzene	5	A	ND
10061-02-6	trans-1,3-Dichloropropene	5	B	ND
75-25-2	Bromoform	10	O	ND
108-10-1	4-Methyl-2-pentanone	10	R	ND
591-78-6	2-Hexanone	10	A	ND
127-18-4	Tetrachloroethylene	5	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	O	ND
108-88-3	Toluene	5	R	ND
108-90-7	Chlorobenzene	5	Y	ND
100-41-4	Ethylbenzene	5		ND

=====

REVEI Sample No.: 7137		EPA Method	RESULTS**
		Detection Limits	
		for this sample*	
CAS Number	Compound	ug/kg	ug/kg
100-42-5	Styrene	5	ND
1330-20-7	Total xylenes	5	ND
108-05-4	Vinyl Acetate	5	ND
541-73-1	1,3-Dichlorobenzene	10	ND
-----	1,2- & 1,4-Dichlorobenzene	10	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture- 5.6

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	103	70-121
Toluene-d8	108	84-138
4-Bromofluorobenzene	101	59-113

Notes:

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Page 1 of 2

Client: OPTECH  
 Revet Sample No.: 7138  
 Client Sample: 01-003 BH INT 2  
 Date Sampled: 11/16/93  
 Matrix: Soil  
 Method: 8240

Contact: JOHN MORRIS  
 REVET Account No.: E1997  
 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Received: 11/16/93  
 Date Run: 11/18/93  
 Dilution Factor: 1

Analyst: A. Wolf Date: 12-14-93  
 A.WOLF

QC Check: J. Paquin Date: 12/14/93

CAS Number	Compound	EPA Method		RESULTS**
		Detection Limits	for this sample*	
		ug/kg	ug/kg	
74-87-3	Chloromethane	10	R	ND
74-83-9	Bromomethane	10	E	ND
75-01-4	Vinyl Chloride	10	V	ND
75-00-3	Chloroethane	10	E	ND
75-09-2	Methylene chloride	5	T	ND
67-64-1	Acetone	10		ND
75-15-0	Carbon disulfide	5	E	ND
75-35-4	1,1-Dichloroethene	5	N	ND
75-34-3	1,1-Dichloroethane	5	V	ND
156-60-5	1,2-dichloroethenes(total)	5	I	ND
67-66-3	Chloroform	5	R	ND
107-06-2	1,2-Dichloroethane	5	O	ND
78-93-3	2-Butanone (MEK)	10	N	ND
71-55-6	1,1,1-Trichloroethane	5	M	ND
56-23-5	Carbon tetrachloride	5	E	ND
75-27-4	Bromodichloromethane	5	N	ND
78-87-5	1,2-Dichloropropane	5	T	ND
10061-01-5	cis-1,3-Dichloropropene	5	A	ND
79-01-6	Trichloroethylene	5	L	ND
124-48-1	Dibromochloromethane	5		ND
79-00-5	1,1,2-Trichloroethane	5	L	ND
71-43-2	Benzene	5	A	ND
10061-02-6	trans-1,3-Dichloropropene	5	B	ND
75-25-2	Bromoform	10	O	ND
108-10-1	4-Methyl-2-pentanone	10	R	ND
591-78-6	2-Hexanone	10	A	ND
127-18-4	Tetrachloroethylene	5	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	O	ND
108-88-3	Toluene	5	R	ND
108-90-7	Chlorobenzene	5	Y	ND
100-41-4	Ethylbenzene	5		ND

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REVET Sample No.: 7138		EPA Method	RESULTS**
		Detection Limits	
		for this sample*	
CAS Number	Compound	ug/kg	ug/kg
100-42-5	Styrene	5	ND
1330-20-7	Total xylenes	5	ND
108-05-4	Vinyl Acetate	5	ND
541-73-1	1,3-Dichlorobenzene	10	ND
-----	1,2- & 1,4-Dichlorobenzene	10	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight                      Soil/sediment % moisture- 13.4

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	101	70-121
Toluene-d8	107	84-138
4-Bromofluorobenzene	97	59-113

Notes:

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REVE ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

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 Worcester, MA 01605-2395  
 DEP Certification MA #082  
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Client: OPTECH  
 Revet Sample No.: 7139  
 Client Sample: 01-012 BH INT 1  
 Date Sampled: 11/16/93  
 Matrix: Soil  
 Method: 8240

Contact: JOHN MORRIS  
 REVET Account No.: E1997  
 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Received: 11/16/93  
 Date Run: 11/18/93  
 Dilution Factor: 1

Analyst: A. Wolf Date: 12/14/93  
 A.WOLF

QC Check: J. Paquin Date: 12/14/93

CAS Number	Compound	EPA Method Detection Limits for this sample*		RESULTS**
		ug/kg	ug/kg	
74-87-3	Chloromethane	10	R	ND
74-83-9	Bromomethane	10	E	ND
75-01-4	Vinyl Chloride	10	V	ND
75-00-3	Chloroethane	10	E	ND
75-09-2	Methylene chloride	5	T	ND
67-64-1	Acetone	10		78
75-15-0	Carbon disulfide	5	E	ND
75-35-4	1,1-Dichloroethene	5	N	ND
75-34-3	1,1-Dichloroethane	5	V	ND
156-60-5	1,2-dichloroethenes(total)	5	I	ND
67-66-3	Chloroform	5	R	ND
107-06-2	1,2-Dichloroethane	5	O	ND
78-93-3	2-Butanone (MEK)	10	N	ND
71-55-6	1,1,1-Trichloroethane	5	M	ND
56-23-5	Carbon tetrachloride	5	E	ND
75-27-4	Bromodichloromethane	5	N	ND
78-87-5	1,2-Dichloropropane	5	T	ND
10061-01-5	cis-1,3-Dichloropropene	5	A	ND
79-01-6	Trichloroethylene	5	L	ND
124-48-1	Dibromochloromethane	5		ND
79-00-5	1,1,2-Trichloroethane	5	L	ND
71-43-2	Benzene	5	A	ND
10061-02-6	trans-1,3-Dichloropropene	5	B	ND
75-25-2	Bromoform	10	O	ND
108-10-1	4-Methyl-2-pentanone	10	R	ND
591-78-6	2-Hexanone	10	A	ND
127-18-4	Tetrachloroethylene	5	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	O	ND
108-88-3	Toluene	5	R	ND
108-90-7	Chlorobenzene	5	Y	ND
100-41-4	Ethylbenzene	5		ND

HIT ON

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REVET Sample No.: 7139		EPA Method	RESULTS**
		Detection Limits	
		for this sample*	
CAS Number	Compound	ug/kg	ug/kg
100-42-5	Styrene	5	ND
1330-20-7	Total xylenes	5	ND
108-05-4	Vinyl Acetate	5	ND
541-73-1	1,3-Dichlorobenzene	10	ND
-----	1,2- & 1,4-Dichlorobenzene	10	ND

ND-Not Detected

\* The Detection Limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight      Soil/sediment % moisture- 7.7

Compound	Surrogate % Recovery	Acceptable Soil Limits
1,2-Dichloroethane-d4	111	70-121
Toluene-d8	109	84-138
4-Bromofluorobenzene	95	59-113

Notes:

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**Revet Environmental & Analytical Laboratories**

**REVET Account Number: E2014**

**SemiVolatile Summary Data Package  
for samples collected November 16, 17 & 18, 1993**

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## Sample Results

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street  
Marlboro, MA 01782  
DEP Certification # M-MA082  
Telephone (508) 460-7600  
Facsimile (508) 460-7777

Client: Optech

Contact: J. Morris

Revet Account Numbers: E1997, E2008 & E2014.

Matrix: Soil                      Analysis: Semivolatiles

Revet ID	Client ID
7140	01-001 BH INT 1
7141	01-002 BH INT 1
7142	01-003 BH INT 1
7143	01-003 BH INT 2
7144	01-012 BH INT 1
7225	01-012 BH INT 2
7226	01-014 BH INT 1
7227	01-013 BH INT 1
7228	01-006 BH INT 1
7229	01-006 BH INT 2
7230	01-005 BH INT 1
7231	01-005 BH INT 2
7232	01-010 BH INT 1
7233	01-008 BH INT 1
7234	01-004 BH INT 1
7235	01-004 BH INT 2
7325	01-015 BH INT 1
7326	01-015 BH DUP
7327	01-011 BH INT 1
7328	01-011 BH DUP
7329	01-009 BH INT 1
7330	01-007 BH INT 1
7331	01-007 BH DUP
7332	01-007 BH INT 2

## ORGANIC DATA REPORTING QUALIFIERS

The organic data qualifiers used in this report are as follows:

- Value - If the result is a value greater than or equal to the detection limit, the value is reported.
- U - Indicates the compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- J - Indicates an estimated value. This flag is used to estimate a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicate identification criteria, but the result is less than the specified detection limit.
- C - Applies to pesticide parameters when the identification has been confirmed by GC/MS.
- B - Used when the analyte is found in the blank, as well a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- E - Identifies compounds whose concentrations exceed the calibration range of the instruments for specific analysis.
- N - Compound not analyzed.
- D - Identifies all compounds analyzed at a secondary dilution.
- A - Indicates that a TIC is a suspected aldol-condensation product.
- X - Any other specific flags and footnotes that may be required to properly define the results.
- RE - Analysis performed on a re-extracted sample.
- NC - Peak not confirmed.
- I - Indicates interferences present in the matrix which affected the result.
- P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is flagged and reported on Form 1.

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7140

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-002

Sample wt/vol: 30.31 (g/mL) g

Lab File ID: DH109.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 4 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	340	U
62-53-3	Aniline	340	U
111-44-4	bis(2-Chloroethyl) ether	340	U
95-57-8	2-Chlorophenol	340	U
541-73-1	1,3-Dichlorobenzene	340	U
106-46-7	1,4-Dichlorobenzene	340	U
100-51-6	Benzyl Alcohol	340	U
95-50-1	1,2-Dichlorobenzene	340	U
95-48-7	2-Methylphenol	340	U
108-60-1	2,2'-oxybis(1-Chloropropane)	340	U
106-44-5	4-Methylphenol	340	U
621-64-7	N-Nitroso-di-n-propylamine	340	U
67-72-1	Hexachloroethane	340	U
98-95-3	Nitrobenzene	340	U
78-59-1	Isophorone	340	U
88-75-5	2-Nitrophenol	340	U
105-67-9	2,4-Dimethylphenol	340	U
65-85-0	Benzoic Acid	860	U
111-91-1	bis(2-Chloroethoxy) methane	340	U
120-83-2	2,4-Dichlorophenol	340	U
120-82-1	1,2,4-Trichlorobenzene	340	U
91-20-3	Naphthalene	340	U
106-47-8	4-Chloroaniline	340	U
87-68-3	Hexachlorobutadiene	340	U
59-50-7	4-Chloro-3-methylphenol	340	U
91-57-6	2-Methylnaphthalene	340	U
77-47-4	Hexachlorocyclopentadiene	340	U
88-06-2	2,4,6-Trichlorophenol	340	U
95-95-4	2,4,5-Trichlorophenol	860	U
91-58-7	2-Chloronaphthalene	340	U
88-74-4	2-Nitroaniline	860	U
131-11-3	Dimethylphthalate	340	U
208-96-8	Acenaphthylene	340	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7140

Lab Name: GALSON LABORATORIES                      Contract:  
 Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265  
 Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-002  
 Sample wt/vol:                      30.31 (g/mL) g                      Lab File ID: DH109.94  
 Level: (low/med) LOW                      Date Received: 12/30/93  
 % Moisture: 4                      decanted: (Y/N) N                      Date Extracted: 11/19/93  
 Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/06/94  
 Injection Volume: 1.0 (uL)                      Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N                      pH:

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

CAS NO.	COMPOUND		
606-20-2	2,6-Dinitrotoluene	340	U
99-09-2	3-Nitroaniline	860	U
83-32-9	Acenaphthene	340	U
51-28-5	2,4-Dinitrophenol	860	U
100-02-7	4-Nitrophenol	860	U
132-64-9	Dibenzofuran	340	U
121-14-2	2,4-Dinitrotoluene	340	U
84-66-2	Diethylphthalate	340	U
7005-72-3	4-Chlorophenyl-phenylether	340	U
86-73-7	Fluorene	340	U
100-01-6	4-Nitroaniline	860	U
534-52-1	4,6-Dinitro-2-methylphenol	860	U
86-30-6	N-Nitrosodiphenylamine	340	U
101-55-3	4-Bromophenyl-phenylether	340	U
118-74-1	Hexachlorobenzene	340	U
87-86-5	Pentachlorophenol	860	U
85-01-8	Phenanthrene	340	U
120-12-7	Anthracene	340	U
86-74-8	Carbazole	340	U
84-74-2	Di-n-butylphthalate	340	U
206-44-0	Fluoranthene	340	U
92-87-5	Benzidine	340	U
129-00-0	Pyrene	340	U
85-68-7	Butylbenzylphthalate	340	U
91-94-1	3,3'-Dichlorobenzidine	340	U
56-55-3	Benzo(a)anthracene	340	U
218-01-9	Chrysene	340	U
117-81-7	bis(2-Ethylhexyl)phthalate	340	U
117-84-0	Di-n-octylphthalate	340	U
205-99-2	Benzo(b)fluoranthene	340	U
207-08-9	Benzo(k)fluoranthene	340	U
50-32-8	Benzo(a)pyrene	340	U
193-39-5	Indeno(1,2,3-cd)pyrene	340	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7140

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-002

Sample wt/vol: 30.31 (g/mL) g

Lab File ID: DH109.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 4 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
53-70-3-----	Dibenzo(a,h)anthracene _____	340	U
191-24-2-----	Benzo(g,h,i)perylene _____	340	U

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

7140

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-002

Sample wt/vol: 30.31 (g/mL) g

Lab File ID: DH109.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 4      decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N      pH:

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

Number TICS found: 4

CAS NUMBER	COMPOUND NAME	RT	EST. CONC	Q
1.	Aldol Product	5.03	1700	JB
2.	Unknown	5.41	210	JB
3.	Unknown	5.46	290	JB
4.	Unknown	6.92	160	JB
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1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7141

Lab Name: GALSON LABORATORIES                      Contract:

Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265

Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-003

Sample wt/vol:                      30.19 (g/mL) g                      Lab File ID: DH113.94

Level: (low/med) LOW                      Date Received: 12/30/93

% Moisture: 6                      decanted: (Y/N) N                      Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)                      Dilution Factor: 1.0

GPC Cleanup: (Y/N) N                      pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
62-53-3	Aniline	350	U
111-44-4	bis(2-Chloroethyl) ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
100-51-6	Benzyl Alcohol	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
65-85-0	Benzoic Acid	880	U
111-91-1	bis(2-Chloroethoxy) methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	880	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	880	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7141

Lab Name: GALSON LABORATORIES                      Contract:

Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265

Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-003

Sample wt/vol:                      30.19 (g/mL) g                      Lab File ID: DH113.94

Level: (low/med) LOW                      Date Received: 12/30/93

% Moisture: 6                      decanted: (Y/N) N                      Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)                      Dilution Factor:                      1.0

GPC Cleanup: (Y/N) N                      pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2	2,6-Dinitrotoluene	350	U
99-09-2	3-Nitroaniline	880	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	880	U
100-02-7	4-Nitrophenol	880	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	880	U
534-52-1	4,6-Dinitro-2-methylphenol	880	U
86-30-6	N-Nitrosodiphenylamine	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	880	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
86-74-8	Carbazole	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	350	U
92-87-5	Benzidine	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	350	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	350	U
117-84-0	Di-n-octylphthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

15 Belmont Street  
 Worcester, MA 01605-2395  
 DEP Certification MA #082  
 (508) 753-3738

Page 1 of 2

=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7321 REVET Account No.: E2014  
 Client Sample: 01-007 BH, INT 2 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Sampled: 11/18/93 Date Received: 11/18/93  
 Matrix: Soil Date Run: 11/24/93  
 Method: 8240 Dilution Factor: 1

Analyst: A. Wolf Date: 12-14-93  
 A. WOLF

QC Check: J. Paquin Date: 12/14/93

EPA Method RESULTS\*\*  
 Detection Limits  
 for this sample\*

CAS Number	Compound	ug/kg		ug/kg
74-87-3	Chloromethane	10	R	ND
74-83-9	Bromomethane	10	E	ND
75-01-4	Vinyl Chloride	10	V	ND
75-00-3	Chloroethane	10	E	ND
75-09-2	Methylene chloride	5	T	ND
67-64-1	Acetone	10		ND
75-15-0	Carbon disulfide	5	E	ND
75-35-4	1,1-Dichloroethene	5	N	ND
75-34-3	1,1-Dichloroethane	5	V	ND
156-60-5	1,2-dichloroethenes(total)	5	I	ND
67-66-3	Chloroform	5	R	ND
107-06-2	1,2-Dichloroethane	5	O	ND
78-93-3	2-Butanone (MEK)	10	N	ND
71-55-6	1,1,1-Trichloroethane	5	M	ND
56-23-5	Carbon tetrachloride	5	E	ND
75-27-4	Bromodichloromethane	5	N	ND
78-87-5	1,2-Dichloropropane	5	T	ND
10061-01-5	cis-1,3-Dichloropropene	5	A	ND
79-01-6	Trichloroethylene	5	L	ND
124-48-1	Dibromochloromethane	5		ND
79-00-5	1,1,2-Trichloroethane	5	L	ND
71-43-2	Benzene	5	A	ND
10061-02-6	trans-1,3-Dichloropropene	5	B	ND
75-25-2	Bromoform	10	O	ND
108-10-1	4-Methyl-2-pentanone	10	R	ND
591-78-6	2-Hexanone	10	A	ND
127-18-4	Tetrachloroethylene	5	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	5	O	ND
108-88-3	Toluene	5	R	ND
108-90-7	Chlorobenzene	5	Y	ND
100-41-4	Ethylbenzene	5		ND

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.  
 181 Cedar Hill Street  
 Marlboro, MA 01752  
 DEP Certification MA #082  
 (508) 460-7600

Client: OPTECH  
 Revet Sample No.: 7208  
 Client Sample: 01-012 BH, INT 2  
 Date Sampled: 11/17/93  
 Matrix: Soil  
 Method: 8240

Contact: JOHN MORRIS  
 REVET Account No.: E2008  
 Client Location/P.O.: WORCESTER ANG/ P.N. 1315-113  
 Date Received: 11/17/93  
 Date Run: 11/26/93  
 Dilution Factor: 277 \*\*\*

Analyst: J. Proxim for. Date: 12/14/93  
 A. WOLF

QC Check: E. Taylor Date: 12/14/93

CAS Number	Compound	EPA Method		RESULTS
		Detection Limits	for this sample*	
		ug/Kg		Ug/Kg
74-87-3	Chloromethane	550	R	ND
74-83-9	Bromomethane	550	E	ND
75-01-4	Vinyl Chloride	550	V	ND
75-00-3	Chloroethane	550	E	ND
75-09-2	Methylene chloride	280	T	ND
67-64-1	Acetone	550		ND
75-15-0	Carbon disulfide	280	E	ND
75-35-4	1,1-Dichloroethene	280	N	ND
75-34-3	1,1-Dichloroethane	280	V	ND
156-60-5	1,2-dichloroethenes(total)	280	I	ND
67-66-3	Chloroform	280	R	ND
107-06-2	1,2-Dichloroethane	280	O	ND
78-93-3	2-Butanone (MEK)	550	N	ND
71-55-6	1,1,1-Trichloroethane	280	M	ND
56-23-5	Carbon tetrachloride	280	E	ND
75-27-4	Bromodichloromethane	280	N	ND
78-87-5	1,2-Dichloropropane	280	T	ND
10061-01-5	cis-1,3-Dichloropropene	280	A	ND
79-01-6	Trichloroethylene	280	L	ND
124-48-1	Dibromochloromethane	280		ND
79-00-5	1,1,2-Trichloroethane	280	L	ND
71-43-2	Benzene	280	A	ND
10061-02-6	trans-1,3-Dichloropropene	280	B	ND
75-25-2	Bromoform	550	O	ND
108-10-1	4-Methyl-2-pentanone	550	R	ND
591-78-6	2-Hexanone	550	A	ND
127-18-4	Tetrachloroethylene	280	T	ND
79-34-5	1,1,2,2-Tetrachloroethane	280	O	ND
108-88-3	Toluene	280	R	ND
108-90-7	Chlorobenzene	280	Y	ND
100-41-4	Ethylbenzene	280		ND

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7141

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-003

Sample wt/vol: 30.19 (g/mL) g

Lab File ID: DH113.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
53-70-3-----	Dibenzo(a,h)anthracene	350		U
191-24-2-----	Benzo(g,h,i)perylene	350		U

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

7141

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-003

Sample wt/vol: 30.19 (g/mL) g

Lab File ID: ^DH113.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

Number TICS found: 6

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aldol Product	5.03	1600	JB
2.	Unknown	5.23	200	J
3.	Unknown	5.41	200	JB
4.	Unknown	5.45	250	JB
5.	Unknown	5.88	240	J
6.	Unknown	6.31	220	J
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1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7142

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-004

Sample wt/vol: 30.5 (g/mL) g

Lab File ID: ^DH121.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

108-95-2-----	Phenol	350	U
62-53-3-----	Aniline	350	U
111-44-4-----	bis(2-Chloroethyl) ether	350	U
95-57-8-----	2-Chlorophenol	350	U
541-73-1-----	1,3-Dichlorobenzene	350	U
106-46-7-----	1,4-Dichlorobenzene	350	U
100-51-6-----	Benzyl Alcohol	350	U
95-50-1-----	1,2-Dichlorobenzene	350	U
95-48-7-----	2-Methylphenol	350	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	350	U
106-44-5-----	4-Methylphenol	350	U
621-64-7-----	N-Nitroso-di-n-propylamine	350	U
67-72-1-----	Hexachloroethane	350	U
98-95-3-----	Nitrobenzene	350	U
78-59-1-----	Isophorone	350	U
88-75-5-----	2-Nitrophenol	350	U
105-67-9-----	2,4-Dimethylphenol	350	U
65-85-0-----	Benzoic Acid	870	U
111-91-1-----	bis(2-Chloroethoxy) methane	350	U
120-83-2-----	2,4-Dichlorophenol	350	U
120-82-1-----	1,2,4-Trichlorobenzene	350	U
91-20-3-----	Naphthalene	350	U
106-47-6-----	4-Chloroaniline	350	U
87-68-3-----	Hexachlorobutadiene	350	U
59-50-7-----	4-Chloro-3-methylphenol	350	U
91-57-6-----	2-Methylnaphthalene	350	U
77-47-4-----	Hexachlorocyclopentadiene	350	U
88-06-2-----	2,4,6-Trichlorophenol	350	U
95-95-4-----	2,4,5-Trichlorophenol	870	U
91-58-7-----	2-Chloronaphthalene	350	U
88-74-4-----	2-Nitroaniline	870	U
131-11-3-----	Dimethylphthalate	350	U
208-96-8-----	Acenaphthylene	170	J

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7142

Lab Name: GALSON LABORATORIES                      Contract:  
 Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265  
 Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-004  
 Sample wt/vol:                      30.5 (g/mL) g                      Lab File ID: DH121.94  
 Level: (low/med) LOW                      Date Received: 12/30/93  
 % Moisture: 6                      decanted: (Y/N) N                      Date Extracted: 11/19/93  
 Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/06/94  
 Injection Volume: 1.0 (uL)                      Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N                      pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2-----	2,6-Dinitrotoluene	350	U
99-09-2-----	3-Nitroaniline	870	U
83-32-9-----	Acenaphthene	350	U
51-28-5-----	2,4-Dinitrophenol	870	U
100-02-7-----	4-Nitrophenol	870	U
132-64-9-----	Dibenzofuran	350	U
121-14-2-----	2,4-Dinitrotoluene	350	U
84-66-2-----	Diethylphthalate	350	U
7005-72-3-----	4-Chlorophenyl-phenylether	350	U
86-73-7-----	Fluorene	350	U
100-01-6-----	4-Nitroaniline	870	U
534-52-1-----	4,6-Dinitro-2-methylphenol	870	U
86-30-6-----	N-Nitrosodiphenylamine	350	U
101-55-3-----	4-Bromophenyl-phenylether	350	U
118-74-1-----	Hexachlorobenzene	350	U
87-86-5-----	Pentachlorophenol	870	U
85-01-8-----	Phenanthrene	520	
120-12-7-----	Anthracene	170	J
86-74-8-----	Carbazole	350	U
84-74-2-----	Di-n-butylphthalate	350	U
206-44-0-----	Fluoranthene	1200	
92-87-5-----	Benzidine	350	U
129-00-0-----	Pyrene	1600	
85-68-7-----	Butylbenzylphthalate	350	U
91-94-1-----	3,3'-Dichlorobenzidine	350	U
56-55-3-----	Benzo(a)anthracene	920	
218-01-9-----	Chrysene	960	
117-81-7-----	bis(2-Ethylhexyl)phthalate	350	U
117-84-0-----	Di-n-octylphthalate	350	U
205-99-2-----	Benzo(b)fluoranthene	1100	
207-08-9-----	Benzo(k)fluoranthene	730	
50-32-8-----	Benzo(a)pyrene	1200	
193-39-5-----	Indeno(1,2,3-cd)pyrene	1000	



1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7142

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-004

Sample wt/vol: 30.5 (g/mL) g

Lab File ID: ^DH121.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

CAS NO.	COMPOUND	UG/KG	Q
53-70-3-----	Dibenzo(a,h)anthracene_____	220	J
191-24-2-----	Benzo(g,h,i)perylene_____	970	

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

7142

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-004

Sample wt/vol: 30.5 (g/mL) g

Lab File ID: DH121.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 6 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

Number TICS found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aldol Product	5.04	1600	JB
2.	Unknown	5.45	470	JB
3.	Unknown	6.31	400	J
4. 0	METHYL-PHENANTHRENE OR METHY	14.81	290	J
5.	Phenanthrene, dimethyl-	16.17	310	J
6. 243174	11H-Benzo[b]fluorene	18.18	580	J
7.	Unknown	19.70	240	J
8.	Unknown	21.17	240	J
9. 0	BENZOFLUORANTHENE	24.07	530	J
10. 198550	Perylene	24.47	720	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7143

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-005

Sample wt/vol: 30.42 (g/mL) g

Lab File ID: ^DH122.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.	COMPOUND	UG/KG	Q
108-95-2	Phenol	380	U
62-53-3	Aniline	380	U
111-44-4	bis(2-Chloroethyl) ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
100-51-6	Benzyl Alcohol	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
65-85-0	Benzoic Acid	940	U
111-91-1	bis(2-Chloroethoxy) methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	380	U
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	380	U
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	940	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	940	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7143

Lab Name: GALSON LABORATORIES                      Contract:

Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265

Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-005

Sample wt/vol:                      30.42 (g/mL) g                      Lab File ID: DH122.94

Level: (low/med) LOW                      Date Received: 12/30/93

% Moisture: 13    decanted: (Y/N) N                      Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)                      Dilution Factor: 1.0

GPC Cleanup: (Y/N) N                      pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2-----	2,6-Dinitrotoluene	380	U
99-09-2-----	3-Nitroaniline	940	U
83-32-9-----	Acenaphthene	380	U
51-28-5-----	2,4-Dinitrophenol	940	U
100-02-7-----	4-Nitrophenol	940	U
132-64-9-----	Dibenzofuran	380	U
121-14-2-----	2,4-Dinitrotoluene	380	U
84-66-2-----	Diethylphthalate	380	U
7005-72-3-----	4-Chlorophenyl-phenylether	380	U
86-73-7-----	Fluorene	380	U
100-01-6-----	4-Nitroaniline	940	U
534-52-1-----	4,6-Dinitro-2-methylphenol	940	U
86-30-6-----	N-Nitrosodiphenylamine	380	U
101-55-3-----	4-Bromophenyl-phenylether	380	U
118-74-1-----	Hexachlorobenzene	380	U
87-86-5-----	Pentachlorophenol	940	U
85-01-8-----	Phenanthrene	380	U
120-12-7-----	Anthracene	380	U
86-74-8-----	Carbazole	380	U
84-74-2-----	Di-n-butylphthalate	380	U
206-44-0-----	Fluoranthene	380	U
92-87-5-----	Benzidine	380	U
129-00-0-----	Pyrene	380	U
85-68-7-----	Butylbenzylphthalate	380	U
91-94-1-----	3,3'-Dichlorobenzidine	380	U
56-55-3-----	Benzo(a)anthracene	380	U
218-01-9-----	Chrysene	380	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	380	U
117-84-0-----	Di-n-octylphthalate	380	U
205-99-2-----	Benzo(b)fluoranthene	380	U
207-08-9-----	Benzo(k)fluoranthene	380	U
50-32-8-----	Benzo(a)pyrene	380	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	380	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7143

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-005

Sample wt/vol: 30.42 (g/mL) g

Lab File ID: ^DH122.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
53-70-3-----	Dibenzo(a,h)anthracene	380	U
191-24-2-----	Benzo(g,h,i)perylene	380	U

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

7143

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-005

Sample wt/vol: 30.42 (g/mL) g

Lab File ID: ^DH122.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICS found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aldol Product	5.06	1200	JB
2.	Unknown	5.46	390	JB
3.	Unknown	6.32	190	J
4.	Unknown	21.16	620	J
5.	Unknown	23.13	530	J
6.	Unknown	26.34	180	J
7.	Unknown	27.88	180	J
8.	Unknown	28.40	160	J
9.	Unknown	28.50	180	J
10.	Unknown	30.23	880	J
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1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7144

Lab Name: GALSON LABORATORIES                      Contract:

Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265

Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-006

Sample wt/vol:                      30.39 (g/mL) g                      Lab File ID: DH123.94

Level: (low/med) LOW                      Date Received: 12/30/93

% Moisture: 8                      decanted: (Y/N) N                      Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)                      Dilution Factor:                      1.0

GPC Cleanup: (Y/N) N                      pH:

CONCENTRATION UNITS:

CAS NO.                      COMPOUND                      (ug/L or ug/Kg) UG/KG                      Q

108-95-2-----Phenol	360	U
62-53-3-----Aniline	360	U
111-44-4-----bis(2-Chloroethyl) ether	360	U
95-57-8-----2-Chlorophenol	360	U
541-73-1-----1,3-Dichlorobenzene	360	U
106-46-7-----1,4-Dichlorobenzene	360	U
100-51-6-----Benzyl Alcohol	360	U
95-50-1-----1,2-Dichlorobenzene	360	U
95-48-7-----2-Methylphenol	360	U
108-60-1-----2,2'-oxybis(1-Chloropropane)	360	U
106-44-5-----4-Methylphenol	360	U
621-64-7-----N-Nitroso-di-n-propylamine	360	U
67-72-1-----Hexachloroethane	360	U
98-95-3-----Nitrobenzene	360	U
78-59-1-----Isophorone	360	U
88-75-5-----2-Nitrophenol	360	U
105-67-9-----2,4-Dimethylphenol	360	U
65-85-0-----Benzoic Acid	890	U
111-91-1-----bis(2-Chloroethoxy)methane	360	U
120-83-2-----2,4-Dichlorophenol	360	U
120-82-1-----1,2,4-Trichlorobenzene	360	U
91-20-3-----Naphthalene	88	J
106-47-8-----4-Chloroaniline	360	U
87-68-3-----Hexachlorobutadiene	360	U
59-50-7-----4-Chloro-3-methylphenol	360	U
91-57-6-----2-Methylnaphthalene	360	U
77-47-4-----Hexachlorocyclopentadiene	360	U
88-06-2-----2,4,6-Trichlorophenol	360	U
95-95-4-----2,4,5-Trichlorophenol	890	U
91-58-7-----2-Chloronaphthalene	360	U
88-74-4-----2-Nitroaniline	890	U
131-11-3-----Dimethylphthalate	360	U
208-96-8-----Acenaphthylene	360	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7144

Lab Name: ~~GALSON~~ LABORATORIES                      Contract:

Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265

Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-006

Sample wt/vol:                      30.39 (g/mL) g                      Lab File ID: ^DH123.94

Level: (low/međ) LOW                      Date Received: 12/30/93

% Moisture: 8                      decanted: (Y/N) N                      Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)                      Dilution Factor: 1.0

GPC Cleanup: (Y/N) N                      pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2-----	2,6-Dinitrotoluene	360	U
99-09-2-----	3-Nitroaniline	890	U
83-32-9-----	Acenaphthene	94	J
51-28-5-----	2,4-Dinitrophenol	890	U
100-02-7-----	4-Nitrophenol	890	U
132-64-9-----	Dibenzofuran	360	U
121-14-2-----	2,4-Dinitrotoluene	360	U
84-66-2-----	Diethylphthalate	360	U
7005-72-3-----	4-Chlorophenyl-phenylether	360	U
86-73-7-----	Fluorene	80	J
100-01-6-----	4-Nitroaniline	890	U
534-52-1-----	4,6-Dinitro-2-methylphenol	890	U
86-30-6-----	N-Nitrosodiphenylamine	360	U
101-55-3-----	4-Bromophenyl-phenylether	360	U
118-74-1-----	Hexachlorobenzene	360	U
87-86-5-----	Pentachlorophenol	890	U
85-01-8-----	Phenanthrene	1000	
120-12-7-----	Anthracene	240	J
86-74-8-----	Carbazole	82	J
84-74-2-----	Di-n-butylphthalate	360	U
206-44-0-----	Fluoranthene	1200	
92-87-5-----	Benzidine	360	U
129-00-0-----	Pyrene	1200	
85-68-7-----	Butylbenzylphthalate	360	U
91-94-1-----	3,3'-Dichlorobenzidine	360	U
56-55-3-----	Benzo(a)anthracene	660	
218-01-9-----	Chrysene	650	
117-81-7-----	bis(2-Ethylhexyl)phthalate	360	U
117-84-0-----	Di-n-octylphthalate	360	U
205-99-2-----	Benzo(b)fluoranthene	560	
207-08-9-----	Benzo(k)fluoranthene	510	
50-32-8-----	Benzo(a)pyrene	680	
193-39-5-----	Indeno(1,2,3-cd)pyrene	660	



1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7144

Lab Name: GALSON LABORATORIES                      Contract:

Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265

Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-006

Sample wt/vol:                      30.39 (g/mL) g                      Lab File ID: DH123.94

Level: (low/med) LOW                      Date Received: 12/30/93

% Moisture: 8                      decanted: (Y/N) N                      Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)                      Dilution Factor:                      1.0

GPC Cleanup: (Y/N) N                      pH:

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

CAS NO.	COMPOUND	UG/KG	Q
53-70-3-----	Dibenzo(a,h)anthracene _____	200	J
191-24-2-----	Benzo(g,h,i)perylene _____	590	

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

7144

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-006

Sample wt/vol: 30.39 (g/mL) g

Lab File ID: DH123.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 8 decanted: (Y/N) N

Date Extracted: 11/19/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICS found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aldol Product	5.03	1400	JB
2.	Unknown	5.45	300	JB
3.	Unknown	6.31	200	J
4. 0	METHYL-PHENANTHRENE OR METHY	14.50	200	J
5. 203645	4H-Cyclopenta[def]phenanthre	14.77	230	J
6.	Unknown	17.16	190	J
7. 205823	Benzo[j]fluoranthene	24.06	280	J
8. 198550	Perylene	24.46	470	J
9. 629925	Nonadecane	24.94	240	J
10. 0	DIBENZO[A,K]PYRENE	30.16	190	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7225 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-008DL

Sample wt/vol: 30.09 (g/mL) g

Lab File ID: DH153.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
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108-95-2	Phenol	7400	U D
62-53-3	Aniline	7400	U D
111-44-4	bis(2-Chloroethyl) ether	7400	U D
95-57-8	2-Chlorophenol	7400	U D
541-73-1	1,3-Dichlorobenzene	7400	U D
106-46-7	1,4-Dichlorobenzene	7400	U D
100-51-6	Benzyl Alcohol	7400	U D
95-50-1	1,2-Dichlorobenzene	7400	U D
95-48-7	2-Methylphenol	7400	U D
108-60-1	2,2'-oxybis(1-Chloropropane)	7400	U D
106-44-5	4-Methylphenol	7400	U D
621-64-7	N-Nitroso-di-n-propylamine	7400	U D
67-72-1	Hexachloroethane	7400	U D
98-95-3	Nitrobenzene	7400	U D
78-59-1	Isophorone	7400	U D
88-75-5	2-Nitrophenol	7400	U D
105-67-9	2,4-Dimethylphenol	7400	U D
65-85-0	Benzoic Acid	18000	U D
111-91-1	bis(2-Chloroethoxy) methane	7400	U D
120-83-2	2,4-Dichlorophenol	7400	U D
120-82-1	1,2,4-Trichlorobenzene	7400	U D
91-20-3	Naphthalene	7400	U D
106-47-8	4-Chloroaniline	7400	U D
87-68-3	Hexachlorobutadiene	7400	U D
59-50-7	4-Chloro-3-methylphenol	7400	U D
91-57-6	2-Methylnaphthalene	7400	U D
77-47-4	Hexachlorocyclopentadiene	7400	U D
88-06-2	2,4,6-Trichlorophenol	7400	U D
95-95-4	2,4,5-Trichlorophenol	18000	U D
91-58-7	2-Chloronaphthalene	7400	U D
88-74-4	2-Nitroaniline	18000	U D
131-11-3	Dimethylphthalate	7400	U D
208-96-8	Acenaphthylene	7400	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7225 DL

Lab Name: GALSON LABORATORIES      Contract:  
 Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265  
 Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-008 DL  
 Sample wt/vol:                      30.09 (g/mL) g                      Lab File ID: DH153.94  
 Level: (low/med) LOW                      Date Received: 12/30/93  
 % Moisture: 10    decanted: (Y/N) N                      Date Extracted: 11/22/93  
 Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/07/94  
 Injection Volume: 1.0 (uL)                      Dilution Factor: 20.0  
 GPC Cleanup: (Y/N) N                      pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2	2,6-Dinitrotoluene	7400	U D
99-09-2	3-Nitroaniline	18000	U D
83-32-9	Acenaphthene	7400	U D
51-28-5	2,4-Dinitrophenol	18000	U D
100-02-7	4-Nitrophenol	18000	U D
132-64-9	Dibenzofuran	7400	U D
121-14-2	2,4-Dinitrotoluene	7400	U D
84-66-2	Diethylphthalate	7400	U D
7005-72-3	4-Chlorophenyl-phenylether	7400	U D
86-73-7	Fluorene	7400	U D
100-01-6	4-Nitroaniline	18000	U D
534-52-1	4,6-Dinitro-2-methylphenol	18000	U D
86-30-6	N-Nitrosodiphenylamine	7400	U D
101-55-3	4-Bromophenyl-phenylether	7400	U D
118-74-1	Hexachlorobenzene	7400	U D
87-86-5	Pentachlorophenol	18000	U D
85-01-8	Phenanthrene	5400	JD
120-12-7	Anthracene	1300	JD
86-74-8	Carbazole	7400	U D
84-74-2	Di-n-butylphthalate	7400	U D
206-44-0	Fluoranthene	4800	JD
92-87-5	Benzidine	7400	U D
129-00-0	Pyrene	6500	JD
85-68-7	Butylbenzylphthalate	7400	U D
91-94-1	3,3'-Dichlorobenzidine	7400	U D
56-55-3	Benzo(a)anthracene	2700	JD
218-01-9	Chrysene	2800	JD
117-81-7	bis(2-Ethylhexyl)phthalate	7400	U D
117-84-0	Di-n-octylphthalate	7400	U D
205-99-2	Benzo(b)fluoranthene	2200	JD
207-08-9	Benzo(k)fluoranthene	7400	U D
50-32-8	Benzo(a)pyrene	2400	JD
193-39-5	Indeno(1,2,3-cd)pyrene	7400	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7225 *D*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-008 *D*

Sample wt/vol: 30.09 (g/mL) g

Lab File ID: DH153.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 10 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
53-70-3-----	Dibenzo(a,h)anthracene	7400	U D
191-24-2-----	Benzo(g,h,i)perylene	1400	JD

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7226

Lab Name: GALSON LABORATORIES Contract:  
 Lab Code: Case No.: 1 SAS No.: SDG No.: 16265  
 Matrix: (soil/water) SOIL Lab Sample ID: 16265-009  
 Sample wt/vol: 30.15 (g/mL) g Lab File ID: DH118.94  
 Level: (low/med) LOW Date Received: 12/30/93  
 % Moisture: 9 decanted: (Y/N) N Date Extracted: 11/22/93  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 01/06/94  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH:

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

CAS NO.	COMPOUND	UG/KG	Q
108-95-2	Phenol	360	U
62-53-3	Aniline	360	U
111-44-4	bis(2-Chloroethyl) ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
100-51-6	Benzyl Alcohol	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic Acid	910	U
111-91-1	bis(2-Chloroethoxy) methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	910	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	910	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U

1C.  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7226

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-009

Sample wt/vol: 30.15 (g/mL) g

Lab File ID: DH118.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2	2,6-Dinitrotoluene	360	U
99-09-2	3-Nitroaniline	910	U
83-32-9	Acenaphthene	360	U
51-28-5	2,4-Dinitrophenol	910	U
100-02-7	4-Nitrophenol	910	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
7005-72-3	4-Chlorophenyl-phenylether	360	U
86-73-7	Fluorene	360	U
100-01-6	4-Nitroaniline	910	U
534-52-1	4,6-Dinitro-2-methylphenol	910	U
86-30-6	N-Nitrosodiphenylamine	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
87-86-5	Pentachlorophenol	910	U
85-01-8	Phenanthrene	360	U
120-12-7	Anthracene	360	U
86-74-8	Carbazole	360	U
84-74-2	Di-n-butylphthalate	360	U
206-44-0	Fluoranthene	360	U
92-87-5	Benizidine	360	U
129-00-0	Pyrene	360	U
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	360	U
218-01-9	Chrysene	360	U
117-81-7	bis(2-Ethylhexyl)phthalate	360	U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	360	U
207-08-9	Benzo(k)fluoranthene	360	U
50-32-8	Benzo(a)pyrene	360	U
193-39-5	Indeno(1,2,3-cd)pyrene	360	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7226

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-009

Sample wt/vol: 30.15 (g/mL) g

Lab File ID: DH118.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
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53-70-3-----	Dibenzo(a,h)anthracene	360	U
191-24-2-----	Benzo(g,h,i)perylene	360	U



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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

7226

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-009

Sample wt/vol: 30.15 (g/mL) g

Lab File ID: ^DH118.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 9 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

Number TICS found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aldol Product	5.03	1700	JB
2.	Unknown	5.87	350	J
3.	Unknown Hydrocarbon	7.77	470	J
4. 629505	Tridecane	7.97	450	J
5.	Unknown Hydrocarbon	8.11	340	J
6.	Unknown	8.35	270	J
7. 629594	Tetradecane	8.80	420	J
8.	Unknown	9.14	420	J
9.	Unknown	9.26	240	J
10.	Unknown Hydrocarbon	9.40	610	J
11.				
12.				
13.				
14.				
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29.				
30.				

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7227 DL

Lab Name: GALSON LABORATORIES                      Contract:  
 Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265  
 Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-010 DL  
 Sample wt/vol:                      30.27 (g/mL) g                      Lab File ID: DH150.94  
 Level: (low/med) LOW                      Date Received: 12/30/93  
 % Moisture: 14    decanted: (Y/N) N                      Date Extracted: 11/22/93  
 Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/07/94  
 Injection Volume: 1.0 (uL)                      Dilution Factor: 5.0  
 GPC Cleanup: (Y/N) N                      pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1900	U D
62-53-3	Aniline	1900	U D
111-44-4	bis(2-Chloroethyl) ether	1900	U D
95-57-8	2-Chlorophenol	1900	U D
541-73-1	1,3-Dichlorobenzene	1900	U D
106-46-7	1,4-Dichlorobenzene	1900	U D
100-51-6	Benzyl Alcohol	1900	U D
95-50-1	1,2-Dichlorobenzene	1900	U D
95-48-7	2-Methylphenol	1900	U D
108-60-1	2,2'-oxybis(1-Chloropropane)	1900	U D
106-44-5	4-Methylphenol	1900	U D
621-64-7	N-Nitroso-di-n-propylamine	1900	U D
67-72-1	Hexachloroethane	1900	U D
98-95-3	Nitrobenzene	1900	U D
78-59-1	Isophorone	1900	U D
88-75-5	2-Nitrophenol	1900	U D
105-67-9	2,4-Dimethylphenol	1900	U D
65-85-0	Benzoic Acid	4800	U D
111-91-1	bis(2-Chloroethoxy) methane	1900	U D
120-83-2	2,4-Dichlorophenol	1900	U D
120-82-1	1,2,4-Trichlorobenzene	1900	U D
91-20-3	Naphthalene	1900	U D
106-47-8	4-Chloroaniline	1900	U D
87-68-3	Hexachlorobutadiene	1900	U D
59-50-7	4-Chloro-3-methylphenol	1900	U D
91-57-6	2-Methylnaphthalene	1900	U D
77-47-4	Hexachlorocyclopentadiene	1900	U D
88-06-2	2,4,6-Trichlorophenol	1900	U D
95-95-4	2,4,5-Trichlorophenol	4800	U D
91-58-7	2-Chloronaphthalene	1900	U D
88-74-4	2-Nitroaniline	4800	U D
131-11-3	Dimethylphthalate	1900	U D
208-96-8	Acenaphthylene	1900	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7227 DL

Lab Name: GALSON LABORATORIES                      Contract:  
 Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265  
 Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-010 DL  
 Sample wt/vol:                      30.27 (g/mL) g                      Lab File ID: ^DH150.94  
 Level: (low/med) LOW                      Date Received: 12/30/93  
 % Moisture: 14                      decanted: (Y/N) N                      Date Extracted: 11/22/93  
 Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/07/94  
 Injection Volume: 1.0 (uL)                      Dilution Factor:                      5.0  
 GPC Cleanup: (Y/N) N                      pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2	2,6-Dinitrotoluene	1900	U D
99-09-2	3-Nitroaniline	4800	U D
83-32-9	Acenaphthene	1900	U D
51-28-5	2,4-Dinitrophenol	4800	U D
100-02-7	4-Nitrophenol	4800	U D
132-64-9	Dibenzofuran	1900	U D
121-14-2	2,4-Dinitrotoluene	1900	U D
84-66-2	Diethylphthalate	660	JD
7005-72-3	4-Chlorophenyl-phenylether	1900	U D
86-73-7	Fluorene	1900	U D
100-01-6	4-Nitroaniline	4800	U D
534-52-1	4,6-Dinitro-2-methylphenol	4800	U D
86-30-6	N-Nitrosodiphenylamine	1900	U D
101-55-3	4-Bromophenyl-phenylether	1900	U D
118-74-1	Hexachlorobenzene	1900	U D
87-86-5	Pentachlorophenol	4800	U D
85-01-8	Phenanthrene	1900	U D
120-12-7	Anthracene	1900	U D
86-74-8	Carbazole	1900	U D
84-74-2	Di-n-butylphthalate	1900	U D
206-44-0	Fluoranthene	280	JD
92-87-5	Benzidine	1900	U D
129-00-0	Pyrene	310	JD
85-68-7	Butylbenzylphthalate	1900	U D
91-94-1	3,3'-Dichlorobenzidine	1900	U D
56-55-3	Benzo(a)anthracene	1900	U D
218-01-9	Chrysene	1900	U D
117-81-7	bis(2-Ethylhexyl)phthalate	1900	U D
117-84-0	Di-n-octylphthalate	1900	U D
205-99-2	Benzo(b)fluoranthene	1900	U D
207-08-9	Benzo(k)fluoranthene	1900	U D
50-32-8	Benzo(a)pyrene	280	JD
193-39-5	Indeno(1,2,3-cd)pyrene	1900	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7227 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-010 *DL*

Sample wt/vol: 30.27 (g/mL) g

Lab File ID: DH150.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG Q

53-70-3-----	Dibenzo(a,h)anthracene_____	1900	U D
191-24-2-----	Benzo(g,h,i)perylene_____	1900	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7228 DL

Lab Name: GALSON LABORATORIES                      Contract:  
 Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265  
 Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-011 DL  
 Sample wt/vol:                      30.18 (g/mL) g                      Lab File ID: ^DH151.94  
 Level: (low/med) LOW                      Date Received: 12/30/93  
 % Moisture: 13                      decanted: (Y/N) N                      Date Extracted: 11/22/93  
 Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/07/94  
 Injection Volume: 1.0 (uL)                      Dilution Factor:                      5.0  
 GPC Cleanup: (Y/N) N                      pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2-----	Phenol	1900	U D
62-53-3-----	Aniline	1900	U D
111-44-4-----	bis(2-Chloroethyl) ether	1900	U D
95-57-8-----	2-Chlorophenol	1900	U D
541-73-1-----	1,3-Dichlorobenzene	1900	U D
106-46-7-----	1,4-Dichlorobenzene	1900	U D
100-51-6-----	Benzyl Alcohol	1900	U D
95-50-1-----	1,2-Dichlorobenzene	1900	U D
95-48-7-----	2-Methylphenol	1900	U D
108-60-1-----	2'-oxybis(1-Chloropropane)	1900	U D
106-44-5-----	4-Methylphenol	1900	U D
621-64-7-----	N-Nitroso-di-n-propylamine	1900	U D
67-72-1-----	Hexachloroethane	1900	U D
98-95-3-----	Nitrobenzene	1900	U D
78-59-1-----	Isophorone	1900	U D
88-75-5-----	2-Nitrophenol	1900	U D
105-67-9-----	2,4-Dimethylphenol	1900	U D
65-85-0-----	Benzoic Acid	4800	U D
111-91-1-----	bis(2-Chloroethoxy) methane	1900	U D
120-83-2-----	2,4-Dichlorophenol	1900	U D
120-82-1-----	1,2,4-Trichlorobenzene	1900	U D
91-20-3-----	Naphthalene	1900	U D
106-47-8-----	4-Chloroaniline	1900	U D
87-68-3-----	Hexachlorobutadiene	1900	U D
59-50-7-----	4-Chloro-3-methylphenol	1900	U D
91-57-6-----	2-Methylnaphthalene	1900	U D
77-47-4-----	Hexachlorocyclopentadiene	1900	U D
88-06-2-----	2,4,6-Trichlorophenol	1900	U D
95-95-4-----	2,4,5-Trichlorophenol	4800	U D
91-58-7-----	2-Chloronaphthalene	1900	U D
88-74-4-----	2-Nitroaniline	4800	U D
131-11-3-----	Dimethylphthalate	1900	U D
208-96-8-----	Acenaphthylene	1900	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7228 DL

Lab Name: GALSON LABORATORIES                      Contract:  
 Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265  
 Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-011 DL  
 Sample wt/vol:                      30.18 (g/mL) g                      Lab File ID: DH151.94  
 Level: (low/med) LOW                      Date Received: 12/30/93  
 % Moisture: 13                      decanted: (Y/N) N                      Date Extracted: 11/22/93  
 Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/07/94  
 Injection Volume: 1.0 (uL)                      Dilution Factor: 5.0  
 GPC Cleanup: (Y/N) N                      pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2	2,6-Dinitrotoluene	1900	U D
99-09-2	3-Nitroaniline	4800	U D
83-32-9	Acenaphthene	1900	U D
51-28-5	2,4-Dinitrophenol	4800	U D
100-02-7	4-Nitrophenol	4800	U D
132-64-9	Dibenzofuran	1900	U D
121-14-2	2,4-Dinitrotoluene	1900	U D
84-66-2	Diethylphthalate	1900	U D
7005-72-3	4-Chlorophenyl-phenylether	1900	U D
86-73-7	Fluorene	1900	U D
100-01-6	4-Nitroaniline	4800	U D
534-52-1	4,6-Dinitro-2-methylphenol	4800	U D
86-30-6	N-Nitrosodiphenylamine	1900	U D
101-55-3	4-Bromophenyl-phenylether	1900	U D
118-74-1	Hexachlorobenzene	1900	U D
87-86-5	Pentachlorophenol	4800	U D
85-01-8	Phenanthrene	1800	JD
120-12-7	Anthracene	370	JD
86-74-8	Carbazole	1900	U D
84-74-2	Di-n-butylphthalate	1900	U D
206-44-0	Fluoranthene	1800	JD
92-87-5	Benzidine	1900	U D
129-00-0	Pyrene	1600	JD
85-68-7	Butylbenzylphthalate	1900	U D
91-94-1	3,3'-Dichlorobenzidine	1900	U D
56-55-3	Benzo(a)anthracene	740	JD
218-01-9	Chrysene	770	JD
117-81-7	bis(2-Ethylhexyl)phthalate	1900	U D
117-84-0	Di-n-octylphthalate	1900	U D
205-99-2	Benzo(b)fluoranthene	640	JD
207-08-9	Benzo(k)fluoranthene	550	JD
50-32-8	Benzo(a)pyrene	660	JD
193-39-5	Indeno(1,2,3-cd)pyrene	1900	U D

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7228 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-011 DL

Sample wt/vol: 30.18 (g/mL) g

Lab File ID: DH151.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 13 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.	COMPOUND		
53-70-3-----	Dibenzo(a,h)anthracene	1900	U D
191-24-2-----	Benzo(g,h,i)perylene	320	JD

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7229 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-012 DL

Sample wt/vol: 30.27 (g/mL) g

Lab File ID: DH116.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2300	U D
62-53-3	Aniline	2300	U D
111-44-4	bis(2-Chloroethyl) ether	2300	U D
95-57-8	2-Chlorophenol	2300	U D
541-73-1	1,3-Dichlorobenzene	2300	U D
106-46-7	1,4-Dichlorobenzene	2300	U D
100-51-6	Benzyl Alcohol	2300	U D
95-50-1	1,2-Dichlorobenzene	2300	U D
95-48-7	2-Methylphenol	2300	U D
108-60-1	2,2'-oxybis(1-Chloropropane)	2300	U D
106-44-5	4-Methylphenol	2300	U D
621-64-7	N-Nitroso-di-n-propylamine	2300	U D
67-72-1	Hexachloroethane	2300	U D
98-95-3	Nitrobenzene	2300	U D
78-59-1	Isophorone	2300	U D
88-75-5	2-Nitrophenol	2300	U D
105-67-9	2,4-Dimethylphenol	2300	U D
65-85-0	Benzoic Acid	5600	U D
111-91-1	bis(2-Chloroethoxy) methane	2300	U D
120-83-2	2,4-Dichlorophenol	2300	U D
120-82-1	1,2,4-Trichlorobenzene	2300	U D
91-20-3	Naphthalene	2300	U D
106-47-8	4-Chloroaniline	2300	U D
87-68-3	Hexachlorobutadiene	2300	U D
59-50-7	4-Chloro-3-methylphenol	2300	U D
91-57-6	2-Methylnaphthalene	2300	U D
77-47-4	Hexachlorocyclopentadiene	2300	U D
88-06-2	2,4,6-Trichlorophenol	2300	U D
95-95-4	2,4,5-Trichlorophenol	5600	U D
91-58-7	2-Chloronaphthalene	2300	U D
88-74-4	2-Nitroaniline	5600	U D
131-11-3	Dimethylphthalate	2300	U D
208-96-8	Acenaphthylene	2300	U D



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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7229 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-012 DL

Sample wt/vol: 30.27 (g/mL) g

Lab File ID: DH116.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.	COMPOUND	UG/KG	Q
606-20-2-----	2,6-Dinitrotoluene	2300	U D
99-09-2-----	3-Nitroaniline	5600	U D
83-32-9-----	Acenaphthene	2300	U D
51-28-5-----	2,4-Dinitrophenol	5600	U D
100-02-7-----	4-Nitrophenol	5600	U D
132-64-9-----	Dibenzofuran	2300	U D
121-14-2-----	2,4-Dinitrotoluene	2300	U D
84-66-2-----	Diethylphthalate	2300	U D
7005-72-3-----	4-Chlorophenyl-phenylether	2300	U D
86-73-7-----	Fluorene	2300	U D
100-01-6-----	4-Nitroaniline	5600	U D
534-52-1-----	4,6-Dinitro-2-methylphenol	5600	U D
86-30-6-----	N-Nitrosodiphenylamine	2300	U D
101-55-3-----	4-Bromophenyl-phenylether	2300	U D
118-74-1-----	Hexachlorobenzene	2300	U D
87-86-5-----	Pentachlorophenol	5600	U D
85-01-8-----	Phenanthrene	2300	U D
120-12-7-----	Anthracene	2300	U D
86-74-8-----	Carbazole	2300	U D
84-74-2-----	Di-n-butylphthalate	2300	U D
206-44-0-----	Fluoranthene	280	JD
92-87-5-----	Benzidine	2300	U D
129-00-0-----	Pyrene	2300	U D
85-68-7-----	Butylbenzylphthalate	2300	U D
91-94-1-----	3,3'-Dichlorobenzidine	2300	U D
56-55-3-----	Benzo(a)anthracene	2300	U D
218-01-9-----	Chrysene	2300	U D
117-81-7-----	bis(2-Ethylhexyl)phthalate	2300	U D
117-84-0-----	Di-n-octylphthalate	2300	U D
205-99-2-----	Benzo(b)fluoranthene	2300	U D
207-08-9-----	Benzo(k)fluoranthene	2300	U D
50-32-8-----	Benzo(a)pyrene	2300	U D
193-39-5-----	Indeno(1,2,3-cd)pyrene	2300	U D

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7229 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-012 *DL*

Sample wt/vol: 30.27 (g/mL) g

Lab File ID: ^DH116.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 27 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
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53-70-3-----	Dibenzo(a,h)anthracene _____	2300	U D
191-24-2-----	Benzo(g,h,i)perylene _____	2300	U D

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7230

Lab Name: GALSON LABORATORIES                      Contract:

Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265

Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-013

Sample wt/vol:                      30.23 (g/mL) g                      Lab File ID: DH112.94

Level: (low/med) LOW                      Date Received: 12/30/93

% Moisture: 7                      decanted: (Y/N) N                      Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)                      Dilution Factor:                      1.0

GPC Cleanup: (Y/N) N                      pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	360	U
62-53-3	Aniline	360	U
111-44-4	bis(2-Chloroethyl) ether	360	U
95-57-8	2-Chlorophenol	360	U
541-73-1	1,3-Dichlorobenzene	360	U
106-46-7	1,4-Dichlorobenzene	360	U
100-51-6	Benzyl Alcohol	360	U
95-50-1	1,2-Dichlorobenzene	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
65-85-0	Benzoic Acid	890	U
111-91-1	bis(2-Chloroethoxy) methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
120-82-1	1,2,4-Trichlorobenzene	360	U
91-20-3	Naphthalene	360	U
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	360	U
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	890	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	890	U
131-11-3	Dimethylphthalate	360	U
208-96-8	Acenaphthylene	360	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7230

Lab Name: GALSON LABORATORIES                      Contract:

Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265

Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-013

Sample wt/vol:                      30.23 (g/mL) g                      Lab File ID: ^DH112.94

Level: (low/med) LOW                      Date Received: 12/30/93

% Moisture: 7                      decanted: (Y/N) N                      Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)                      Dilution Factor:                      1.0

GPC Cleanup: (Y/N) N                      pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2-----	2,6-Dinitrotoluene	360	U
99-09-2-----	3-Nitroaniline	890	U
83-32-9-----	Acenaphthene	360	U
51-28-5-----	2,4-Dinitrophenol	890	U
100-02-7-----	4-Nitrophenol	890	U
132-64-9-----	Dibenzofuran	360	U
121-14-2-----	2,4-Dinitrotoluene	360	U
84-66-2-----	Diethylphthalate	360	U
7005-72-3-----	4-Chlorophenyl-phenylether	360	U
86-73-7-----	Fluorene	360	U
100-01-6-----	4-Nitroaniline	890	U
534-52-1-----	4,6-Dinitro-2-methylphenol	890	U
86-30-6-----	N-Nitrosodiphenylamine	360	U
101-55-3-----	4-Bromophenyl-phenylether	360	U
118-74-1-----	Hexachlorobenzene	360	U
87-86-5-----	Pentachlorophenol	890	U
85-01-8-----	Phenanthrene	360	U
120-12-7-----	Anthracene	360	U
86-74-8-----	Carbazole	360	U
84-74-2-----	Di-n-butylphthalate	360	U
206-44-0-----	Fluoranthene	360	U
92-87-5-----	Benzidine	360	U
129-00-0-----	Pyrene	360	U
85-68-7-----	Butylbenzylphthalate	360	U
91-94-1-----	3,3'-Dichlorobenzidine	360	U
56-55-3-----	Benzo(a)anthracene	360	U
218-01-9-----	Chrysene	360	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	360	U
117-84-0-----	Di-n-octylphthalate	360	U
205-99-2-----	Benzo(b)fluoranthene	360	U
207-08-9-----	Benzo(k)fluoranthene	360	U
50-32-8-----	Benzo(a)pyrene	360	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	360	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7230

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-013

Sample wt/vol: 30.23 (g/mL) g

Lab File ID: DH112.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 7 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
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53-70-3-----	Dibenzo(a,h)anthracene _____	360	U
191-24-2-----	Benzo(g,h,i)perylene _____	360	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

7230

Lab Name: GALSON LABORATORIES                      Contract:  
 Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265  
 Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-013  
 Sample wt/vol:                      30.23 (g/mL) g                      Lab File ID: ^DH112.94  
 Level: (low/med) LOW                      Date Received: 12/30/93  
 % Moisture: 7                      decanted: (Y/N) N                      Date Extracted: 11/22/93  
 Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/06/94  
 Injection Volume: 1.0 (uL)                      Dilution Factor:                      1.0  
 GPC Cleanup: (Y/N) N                      pH:

Number TICS found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	Aldol Product	5.04	1900	JB
2.	Unknown	5.23	270	J
3.	Unknown	5.42	220	JB
4.	Unknown	5.45	290	J
5.	Unknown	6.31	170	J
6.	Unknown	6.92	160	JB
7.				
8.				
9.				
10.				
11.				
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28.				
29.				
30.				

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7231D

Lab Name: GALSON LABORATORIES      Contract:  
 Lab Code:                      Case No.: 1      SAS No.:      SDG No.: 16265  
 Matrix: (soil/water) SOIL      Lab Sample ID: 16265-014D  
 Sample wt/vol:      30.04 (g/mL) g      Lab File ID: DH152.94  
 Level: (low/med) LOW      Date Received: 12/30/93  
 % Moisture: 19      decanted: (Y/N) N      Date Extracted: 11/22/93  
 Concentrated Extract Volume: 1000 (uL)      Date Analyzed: 01/07/94  
 Injection Volume: 1.0 (uL)      Dilution Factor: 10.0  
 GPC Cleanup: (Y/N) N      pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2-----	Phenol	4100	U D
62-53-3-----	Aniline	4100	U D
111-44-4-----	bis(2-Chloroethyl) ether	4100	U D
95-57-8-----	2-Chlorophenol	4100	U D
541-73-1-----	1,3-Dichlorobenzene	4100	U D
106-46-7-----	1,4-Dichlorobenzene	4100	U D
100-51-6-----	Benzyl Alcohol	4100	U D
95-50-1-----	1,2-Dichlorobenzene	4100	U D
95-48-7-----	2-Methylphenol	4100	U D
108-60-1-----	2,2'-oxybis(1-Chloropropane)	4100	U D
106-44-5-----	4-Methylphenol	4100	U D
621-64-7-----	N-Nitroso-di-n-propylamine	4100	U D
67-72-1-----	Hexachloroethane	4100	U D
98-95-3-----	Nitrobenzene	4100	U D
78-59-1-----	Isophorone	4100	U D
88-75-5-----	2-Nitrophenol	4100	U D
105-67-9-----	2,4-Dimethylphenol	4100	U D
65-85-0-----	Benzoic Acid	10000	U D
111-91-1-----	bis(2-Chloroethoxy) methane	4100	U D
120-83-2-----	2,4-Dichlorophenol	4100	U D
120-82-1-----	1,2,4-Trichlorobenzene	4100	U D
91-20-3-----	Naphthalene	4100	U D
106-47-8-----	4-Chloroaniline	4100	U D
87-68-3-----	Hexachlorobutadiene	4100	U D
59-50-7-----	4-Chloro-3-methylphenol	4100	U D
91-57-6-----	2-Methylnaphthalene	4100	U D
77-47-4-----	Hexachlorocyclopentadiene	4100	U D
88-06-2-----	2,4,6-Trichlorophenol	4100	U D
95-95-4-----	2,4,5-Trichlorophenol	10000	U D
91-58-7-----	2-Chloronaphthalene	4100	U D
88-74-4-----	2-Nitroaniline	10000	U D
131-11-3-----	Dimethylphthalate	4100	U D
208-96-8-----	Acenaphthylene	4100	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7231 *α*

Lab Name: GALSON LABORATORIES                      Contract: \_\_\_\_\_

Lab Code: \_\_\_\_\_                      Case No.: 1                      SAS No.: \_\_\_\_\_                      SDG No.: 16265

Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-014 *α*

Sample wt/vol:                      30.04 (g/mL) g                      Lab File ID: DH152.94

Level: (low/med) LOW                      Date Received: 12/30/93

% Moisture: 19                      decanted: (Y/N) N                      Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)                      Dilution Factor: 10.0

GPC Cleanup: (Y/N) N                      pH: \_\_\_\_\_

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2-----	2,6-Dinitrotoluene	4100	U D
99-09-2-----	3-Nitroaniline	10000	U D
83-32-9-----	Acenaphthene	4100	U D
51-28-5-----	2,4-Dinitrophenol	10000	U D
100-02-7-----	4-Nitrophenol	10000	U D
132-64-9-----	Dibenzofuran	4100	U D
121-14-2-----	2,4-Dinitrotoluene	4100	U D
84-66-2-----	Diethylphthalate	4100	U D
7005-72-3-----	4-Chlorophenyl-phenylether	4100	U D
86-73-7-----	Fluorene	970	JD
100-01-6-----	4-Nitroaniline	10000	U D
534-52-1-----	4,6-Dinitro-2-methylphenol	10000	U D
86-30-6-----	N-Nitrosodiphenylamine	4100	U D
101-55-3-----	4-Bromophenyl-phenylether	4100	U D
118-74-1-----	Hexachlorobenzene	4100	U D
87-86-5-----	Pentachlorophenol	10000	U D
85-01-8-----	Phenanthrene	11000	D
120-12-7-----	Anthracene	2300	JD
86-74-8-----	Carbazole	880	JD
84-74-2-----	Di-n-butylphthalate	4100	U D
206-44-0-----	Fluoranthene	15000	D
92-87-5-----	Benzidine	4100	U D
129-00-0-----	Pyrene	16000	D
85-68-7-----	Butylbenzylphthalate	4100	U D
91-94-1-----	3,3'-Dichlorobenzidine	4100	U D
56-55-3-----	Benzo(a)anthracene	6600	D
218-01-9-----	Chrysene	6300	D
117-81-7-----	bis(2-Ethylhexyl)phthalate	1700	JD
117-84-0-----	Di-n-octylphthalate	4100	U D
205-99-2-----	Benzo(b)fluoranthene	5200	D
207-08-9-----	Benzo(k)fluoranthene	5300	D
50-32-8-----	Benzo(a)pyrene	5900	D
193-39-5-----	Indeno(1,2,3-cd)pyrene	3500	JD



1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7231 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-014 *DL*

Sample wt/vol: 30.04 (g/mL) g

Lab File ID: ^DH152.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 19 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
---------	----------	---	---

53-70-3-----	Dibenzo(a,h)anthracene _____	4100	U D
191-24-2-----	Benzo(g,h,i)perylene _____	3100	JD

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7232

Lab Name: GALSON LABORATORIES                      Contract:

Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265

Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-015

Sample wt/vol:                      30.18 (g/mL) g                      Lab File ID: DH119.94

Level: (low/med) LOW                      Date Received: 12/30/93

% Moisture: 43                      decanted: (Y/N) N                      Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)                      Dilution Factor: 1.0

GPC Cleanup: (Y/N) N                      pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2-----	Phenol	580	U
62-53-3-----	Aniline	580	U
111-44-4-----	bis(2-Chloroethyl) ether	580	U
95-57-8-----	2-Chlorophenol	580	U
541-73-1-----	1,3-Dichlorobenzene	580	U
106-46-7-----	1,4-Dichlorobenzene	580	U
100-51-6-----	Benzyl Alcohol	580	U
95-50-1-----	1,2-Dichlorobenzene	580	U
95-48-7-----	2-Methylphenol	580	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	580	U
106-44-5-----	4-Methylphenol	580	U
621-64-7-----	N-Nitroso-di-n-propylamine	580	U
67-72-1-----	Hexachloroethane	580	U
98-95-3-----	Nitrobenzene	580	U
78-59-1-----	Isophorone	580	U
88-75-5-----	2-Nitrophenol	580	U
105-67-9-----	2,4-Dimethylphenol	580	U
65-85-0-----	Benzoic Acid	1400	U
111-91-1-----	bis(2-Chloroethoxy) methane	580	U
120-83-2-----	2,4-Dichlorophenol	580	U
120-82-1-----	1,2,4-Trichlorobenzene	580	U
91-20-3-----	Naphthalene	580	U
106-47-8-----	4-Chloroaniline	580	U
87-68-3-----	Hexachlorobutadiene	580	U
59-50-7-----	4-Chloro-3-methylphenol	580	U
91-57-6-----	2-Methylnaphthalene	580	U
77-47-4-----	Hexachlorocyclopentadiene	580	U
88-06-2-----	2,4,6-Trichlorophenol	580	U
95-95-4-----	2,4,5-Trichlorophenol	1400	U
91-58-7-----	2-Chloronaphthalene	580	U
88-74-4-----	2-Nitroaniline	1400	U
131-11-3-----	Dimethylphthalate	580	U
208-96-8-----	Acenaphthylene	580	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7232

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-015

Sample wt/vol: 30.18 (g/mL) g

Lab File ID: ^DH119.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 43 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/06/94

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

Q.

606-20-2-----	2,6-Dinitrotoluene	580	U
99-09-2-----	3-Nitroaniline	1400	U
83-32-9-----	Acenaphthene	580	U
51-28-5-----	2,4-Dinitrophenol	1400	U
100-02-7-----	4-Nitrophenol	1400	U
132-64-9-----	Dibenzofuran	580	U
121-14-2-----	2,4-Dinitrotoluene	580	U
84-66-2-----	Diethylphthalate	580	U
7005-72-3-----	4-Chlorophenyl-phenylether	580	U
86-73-7-----	Fluorene	580	U
100-01-6-----	4-Nitroaniline	1400	U
534-52-1-----	4,6-Dinitro-2-methylphenol	1400	U
86-30-6-----	N-Nitrosodiphenylamine	580	U
101-55-3-----	4-Bromophenyl-phenylether	580	U
118-74-1-----	Hexachlorobenzene	580	U
87-86-5-----	Pentachlorophenol	1400	U
85-01-8-----	Phenanthrene	160	J
120-12-7-----	Anthracene	580	U
86-74-8-----	Carbazole	580	U
84-74-2-----	Di-n-butylphthalate	580	U
206-44-0-----	Fluoranthene	250	J
92-87-5-----	Benzidine	580	U
129-00-0-----	Pyrene	250	J
85-68-7-----	Butylbenzylphthalate	580	U
91-94-1-----	3,3'-Dichlorobenzidine	580	U
56-55-3-----	Benzo(a)anthracene	580	U
218-01-9-----	Chrysene	140	J
117-81-7-----	bis(2-Ethylhexyl)phthalate	580	U
117-84-0-----	Di-n-octylphthalate	580	U
205-99-2-----	Benzo(b)fluoranthene	160	J
207-08-9-----	Benzo(k)fluoranthene	580	U
50-32-8-----	Benzo(a)pyrene	110	J
193-39-5-----	Indeno(1,2,3-cd)pyrene	580	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7232

Lab Name: GALSON LABORATORIES      Contract:  
 Lab Code:                      Case No.: 1      SAS No.:                      SDG No.: 16265  
 Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-015  
 Sample wt/vol:              30.18 (g/mL) g                      Lab File ID: ^DH119.94  
 Level: (low/med) . LOW                      Date Received: 12/30/93  
 % Moisture: 43      decanted: (Y/N) N                      Date Extracted: 11/22/93  
 Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/06/94  
 Injection Volume: 1.0 (uL)                      Dilution Factor:              1.0  
 GPC Cleanup: (Y/N) N              pH:

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

CAS NO.	COMPOUND	UG/KG	Q
53-70-3-----	Dibenzo(a,h)anthracene	580	U
191-24-2-----	Benzo(g,h,i)perylene	120	J

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7233 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-016 *DL*

Sample wt/vol: 30.15 (g/mL) g

Lab File ID: DH136.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 57 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG . Q	
108-95-2	Phenol	3800	U D
62-53-3	Aniline	3800	U D
111-44-4	bis(2-Chloroethyl) ether	3800	U D
95-57-8	2-Chlorophenol	3800	U D
541-73-1	1,3-Dichlorobenzene	3800	U D
106-46-7	1,4-Dichlorobenzene	3800	U D
100-51-6	Benzyl Alcohol	3800	U D
95-50-1	1,2-Dichlorobenzene	3800	U D
95-48-7	2-Methylphenol	3800	U D
108-60-1	2,2'-oxybis(1-Chloropropane)	3800	U D
106-44-5	4-Methylphenol	3800	U D
621-64-7	N-Nitroso-di-n-propylamine	3800	U D
67-72-1	Hexachloroethane	3800	U D
98-95-3	Nitrobenzene	3800	U D
78-59-1	Isophorone	2900	JD
88-75-5	2-Nitrophenol	3800	U D
105-67-9	2,4-Dimethylphenol	3800	U D
65-85-0	Benzoic Acid	9600	U D
111-91-1	bis(2-Chloroethoxy)methane	3800	U D
120-83-2	2,4-Dichlorophenol	3800	U D
120-82-1	1,2,4-Trichlorobenzene	3800	U D
91-20-3	Naphthalene	3300	JD
106-47-8	4-Chloroaniline	3800	U D
87-68-3	Hexachlorobutadiene	3800	U D
59-50-7	4-Chloro-3-methylphenol	3800	U D
91-57-6	2-Methylnaphthalene	7700	D
77-47-4	Hexachlorocyclopentadiene	3800	U D
88-06-2	2,4,6-Trichlorophenol	3800	U D
95-95-4	2,4,5-Trichlorophenol	9600	U D
91-58-7	2-Chloronaphthalene	3800	U D
88-74-4	2-Nitroaniline	9600	U D
131-11-3	Dimethylphthalate	3800	U D
208-96-8	Acenaphthylene	3800	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7233 *lx*

Lab Name: GALSON LABORATORIES                      Contract:  
 Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265  
 Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-016 *lx*  
 Sample wt/vol:                      30.15 (g/mL) g                      Lab File ID: DH136.94  
 Level: (low/med) LOW                      Date Received: 12/30/93  
 % Moisture: 57    decanted: (Y/N) N                      Date Extracted: 11/22/93  
 Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/07/94  
 Injection Volume: 1.0 (uL)                      Dilution Factor: 5.0  
 GPC Cleanup: (Y/N) N                      pH:

CONCENTRATION UNITS:

CAS NO.                      COMPOUND                      (ug/L or ug/Kg)    ug/KG    Q

606-20-2-----	2,6-Dinitrotoluene	3800	U D
99-09-2-----	3-Nitroaniline	9600	U D
83-32-9-----	Acenaphthene	3800	U D
51-28-5-----	2,4-Dinitrophenol	9600	U D
100-02-7-----	4-Nitrophenol	9600	U D
132-64-9-----	Dibenzofuran	3800	U D
121-14-2-----	2,4-Dinitrotoluene	3800	U D
84-66-2-----	Diethylphthalate	3800	U D
7005-72-3-----	4-Chlorophenyl-phenylether	3800	U D
86-73-7-----	Fluorene	1000	JD
100-01-6-----	4-Nitroaniline	9600	U D
534-52-1-----	4,6-Dinitro-2-methylphenol	9600	U D
86-30-6-----	N-Nitrosodiphenylamine	3800	U D
101-55-3-----	4-Bromophenyl-phenylether	3800	U D
118-74-1-----	Hexachlorobenzene	3800	U D
87-86-5-----	Pentachlorophenol	9600	U D
85-01-8-----	Phenanthrene	4200	D
120-12-7-----	Anthracene	570	JD
86-74-8-----	Carbazole	3800	U D
84-74-2-----	Di-n-butylphthalate	3800	U D
206-44-0-----	Fluoranthene	2500	JD
92-87-5-----	Benzidine	3800	U D
129-00-0-----	Pyrene	4900	D
85-68-7-----	Butylbenzylphthalate	3800	U D
91-94-1-----	3,3'-Dichlorobenzidine	3800	U D
56-55-3-----	Benzo(a)anthracene	1300	JD
218-01-9-----	Chrysene	1800	JD
117-81-7-----	bis(2-Ethylhexyl)phthalate	11000	D
117-84-0-----	Di-n-octylphthalate	3800	U D
205-99-2-----	Benzo(b)fluoranthene	1500	JD
207-08-9-----	Benzo(k)fluoranthene	1300	JD
50-32-8-----	Benzo(a)pyrene	1700	JD
193-39-5-----	Indeno(1,2,3-cd)pyrene	1600	JD

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7233 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code: Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-016 *DL*

Sample wt/vol: 30.15 (g/mL) g

Lab File ID: DH136.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 57 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
53-70-3-----	Dibenzo(a,h)anthracene _____	3800	U D
191-24-2-----	Benzo(g,h,i)perylene _____	1600	JD

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

7233 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-016 *DL*

Sample wt/vol: 30.15 (g/mL) g

Lab File ID: ^DH136.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 57 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: .1.0 (uL)

Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH:

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

Number TICS found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC	Q
1.	Unknown Hydrocarbon	6.11	29000	J
2.	Unknown	6.23	17000	J
3. 493027	Naphthalene, decahydro-, tra	6.34	31000	J
4.	Unknown	6.58	27000	J
5.	Unknown	8.41	15000	J
6.	Unknown	9.34	19000	J
7.	Unknown	9.45	26000	J
8.	Unknown	9.55	18000	J
9. 1921706	Pentadecane, 2,6,10,14-tetra	12.22	28000	J
10. 638368	Hexadecane, 2,6,10,14-tetram	13.48	19000	J
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

SAMPLE NO.

7234 ~~2~~

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-017 ~~2~~

Sample wt/vol: 30.17 (g/mL) g

Lab File ID: DH156.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

108-95-2	Phenol	7400	U D
62-53-3	Aniline	7400	U D
111-44-4	bis(2-Chloroethyl) ether	7400	U D
95-57-8	2-Chlorophenol	7400	U D
541-73-1	1,3-Dichlorobenzene	7400	U D
106-46-7	1,4-Dichlorobenzene	7400	U D
100-51-6	Benzyl Alcohol	7400	U D
95-50-1	1,2-Dichlorobenzene	7400	U D
95-48-7	2-Methylphenol	7400	U D
108-60-1	2,2'-oxybis(1-Chloropropane)	7400	U D
106-44-5	4-Methylphenol	7400	U D
621-64-7	N-Nitroso-di-n-propylamine	7400	U D
67-72-1	Hexachloroethane	7400	U D
98-95-3	Nitrobenzene	7400	U D
78-59-1	Phosphorane	7400	U D
88-75-5	2-Nitrophenol	7400	U D
105-67-9	2,4-Dimethylphenol	7400	U D
65-85-0	Benzoic Acid	19000	U D
111-91-1	bis(2-Chloroethoxy)methane	7400	U D
120-53-2	2,4-Dichlorophenol	7400	U D
120-54-3	Trichlorobenzene	7400	U D
91-20-3	Phthalene	7400	U D
106-54-0	o-Troanilina	7400	U D
87-68-1	1,3-Dichlorobutadiene	7400	U D
59-53-4	o-3-methylphenol	7400	U D
91-57-1	1-methylnaphthalene	7400	U D
77-47-4	Hexachlorocyclopentadiene	7400	U D
88-06-2	2,4,6-Trichlorophenol	7400	U D
95-95-4	2,4,5-Trichlorophenol	19000	U D
91-58-7	2-Chloronaphthalene	7400	U D
88-74-4	2-Nitroaniline	19000	U D
131-11-3	Dimethylphthalate	7400	U D
208-96-8	Acenaphthylene	7400	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7234 *D*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-017 *D*

Sample wt/vol: 30.17 (g/mL) g

Lab File ID: DH156.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

CAS NO.

COMPOUND

(ug/L or ug/Kg) UG/KG

Q

606-20-2-----	2,6-Dinitrotoluene	7400	U D
99-09-2-----	3-Nitroaniline	19000	U D
83-32-9-----	Acenaphthene	7400	U D
51-28-5-----	2,4-Dinitrophenol	19000	U D
100-02-7-----	4-Nitrophenol	19000	U D
132-64-9-----	Dibenzofuran	7400	U D
121-14-2-----	2,4-Dinitrotoluene	7400	U D
84-66-2-----	Diethylphthalate	7400	U D
7005-72-3-----	4-Chlorophenyl-phenylether	7400	U D
86-73-7-----	Fluorene	7400	U D
100-01-6-----	4-Nitroaniline	19000	U D
534-52-1-----	4,6-Dinitro-2-methylphenol	19000	U D
86-30-6-----	N-Nitrosodiphenylamine	7400	U D
101-55-3-----	4-Bromophenyl-phenylether	7400	U D
118-74-1-----	Hexachlorobenzene	7400	U D
87-86-5-----	Pentachlorophenol	19000	U D
85-01-8-----	Phenanthrene	2100	JD
120-12-7-----	Anthracene	7400	U D
86-74-8-----	Carbazole	7400	U D
84-74-2-----	Di-n-butylphthalate	7400	U D
206-44-0-----	Fluoranthene	2600	JD
92-87-5-----	Benzidine	7400	U D
129-00-0-----	Pyrene	3200	JD
85-68-7-----	Butylbenzylphthalate	7400	U D
91-94-1-----	3,3'-Dichlorobenzidine	7400	U D
56-55-3-----	Benzo(a)anthracene	1300	JD
218-01-9-----	Chrysene	1400	JD
117-81-7-----	bis(2-Ethylhexyl)phthalate	7400	U D
117-84-0-----	Di-n-octylphthalate	7400	U D
205-99-2-----	Benzo(b)fluoranthene	7400	U D
207-08-9-----	Benzo(k)fluoranthene	7400	U D
50-32-8-----	Benzo(a)pyrene	1300	JD
193-39-5-----	Indeno(1,2,3-cd)pyrene	7400	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7234 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-017 DL

Sample wt/vol: 30.17 (g/mL) g

Lab File ID: DH156.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
53-70-3-----	Dibenzo(a,h)anthracene	7400	U D
191-24-2-----	Benzo(g,h,i)perylene	7400	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7235 DL

Lab Name: GALSON LABORATORIES                      Contract:

Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265

Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-018 DL

Sample wt/vol:                      30.25 (g/mL) g                      Lab File ID: DH157.94

Level: (low/med) LOW                      Date Received: 12/30/93

% Moisture: 21      decanted: (Y/N) N                      Date Extracted: 11/22/93

Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)                      Dilution Factor: 20.0

GPC Cleanup: (Y/N) N                      pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	8400	U D
62-53-3	Aniline	8400	U D
111-44-4	bis(2-Chloroethyl) ether	8400	U D
95-57-8	2-Chlorophenol	8400	U D
541-73-1	1,3-Dichlorobenzene	8400	U D
106-46-7	1,4-Dichlorobenzene	8400	U D
100-51-6	Benzyl Alcohol	8400	U D
95-50-1	1,2-Dichlorobenzene	8400	U D
95-48-7	2-Methylphenol	8400	U D
108-60-1	2,2'-oxybis(1-Chloropropane)	8400	U D
106-44-5	4-Methylphenol	8400	U D
621-64-7	N-Nitroso-di-n-propylamine	8400	U D
67-72-1	Hexachloroethane	8400	U D
98-95-3	Nitrobenzene	8400	U D
78-59-1	Isophorone	8400	U D
88-75-5	2-Nitrophenol	8400	U D
105-67-9	2,4-Dimethylphenol	8400	U D
65-85-0	Benzoic Acid	21000	U D
111-91-1	bis(2-Chloroethoxy) methane	8400	U D
120-83-2	2,4-Dichlorophenol	8400	U D
120-82-1	1,2,4-Trichlorobenzene	8400	U D
91-20-3	Naphthalene	8400	U D
106-47-8	4-Chloroaniline	8400	U D
87-68-3	Hexachlorobutadiene	8400	U D
59-50-7	4-Chloro-3-methylphenol	8400	U D
91-57-6	2-Methylnaphthalene	8400	U D
77-47-4	Hexachlorocyclopentadiene	8400	U D
88-06-2	2,4,6-Trichlorophenol	8400	U D
95-95-4	2,4,5-Trichlorophenol	21000	U D
91-58-7	2-Chloronaphthalene	8400	U D
88-74-4	2-Nitroaniline	21000	U D
131-11-3	Dimethylphthalate	8400	U D
208-96-8	Acenaphthylene	8400	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7235 *DL*

Lab Name: GALSON LABORATORIES	Contract:		
Lab Code:	Case No.: 1	SAS No.:	SDG No.: 16265
Matrix: (soil/water) SOIL		Lab Sample ID: 16265-018 <i>DL</i>	
Sample wt/vol: 30.25 (g/mL) g		Lab File ID: DH157.94	
Level: (low/med) LOW		Date Received: 12/30/93	
% Moisture: 21 decanted: (Y/N) N		Date Extracted: 11/22/93	
Concentrated Extract Volume: 1000 (uL)		Date Analyzed: 01/07/94	
Injection Volume: 1.0 (uL)		Dilution Factor: 20.0	
GPC Cleanup: (Y/N) N	pH:		

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

CAS NO.	COMPOUND	CONCENTRATION	Q
606-20-2	2,6-Dinitrotoluene	8400	U D
99-09-2	3-Nitroaniline	21000	U D
83-32-9	Acenaphthene	8400	U D
51-28-5	2,4-Dinitrophenol	21000	U D
100-02-7	4-Nitrophenol	21000	U D
132-64-9	Dibenzofuran	8400	U D
121-14-2	2,4-Dinitrotoluene	8400	U D
84-66-2	Diethylphthalate	8400	U D
7005-72-3	4-Chlorophenyl-phenylether	8400	U D
86-73-7	Fluorene	8400	U D
100-01-6	4-Nitroaniline	21000	U D
534-52-1	4,6-Dinitro-2-methylphenol	21000	U D
86-30-6	N-Nitrosodiphenylamine	8400	U D
101-55-3	4-Bromophenyl-phenylether	8400	U D
118-74-1	Hexachlorobenzene	8400	U D
87-86-5	Pentachlorophenol	21000	U D
85-01-8	Phenanthrene	7000	JD
120-12-7	Anthracene	1300	JD
86-74-8	Carbazole	8400	U D
84-74-2	Di-n-butylphthalate	8400	U D
206-44-0	Fluoranthene	8200	JD
92-87-5	Benizidine	8400	U D
129-00-0	Pyrene	9200	D
85-68-7	Butylbenzylphthalate	8400	U D
91-94-1	3,3'-Dichlorobenzidine	8400	U D
56-55-3	Benzo(a)anthracene	3600	JD
218-01-9	Chrysene	3900	JD
117-81-7	bis(2-Ethylhexyl)phthalate	8400	U D
117-84-0	Di-n-octylphthalate	8400	U D
205-99-2	Benzo(b)fluoranthene	3200	JD
207-08-9	Benzo(k)fluoranthene	2900	JD
50-32-8	Benzo(a)pyrene	3400	JD
193-39-5	Indeno(1,2,3-cd)pyrene	8400	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7235 *u*

Lab Name: GALSON LABORATORIES                      Contract:  
 Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265  
 Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-018 *u*  
 Sample wt/vol:                      30.25 (g/mL) g                      Lab File ID: DH157.94  
 Level: (low/med) LOW                      Date Received: 12/30/93  
 % Moisture: 21    decanted: (Y/N) N                      Date Extracted: 11/22/93  
 Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/07/94  
 Injection Volume: 1.0 (uL)                      Dilution Factor: 20.0  
 GPC Cleanup: (Y/N) N                      pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
53-70-3-----	Dibenzo(a,h)anthracene_____	8400	U D
191-24-2-----	Benzo(g,h,i)perylene_____	1800	JD

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7325 DL

Lab Name: GALSON LABORATORIES                      Contract:  
 Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265  
 Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-020 DL  
 Sample wt/vol:                      30.1 (g/mL) g                      Lab File ID: DH154.94  
 Level: (low/med) LOW                      Date Received: 12/30/93  
 % Moisture: 14    decanted: (Y/N) N                      Date Extracted: 11/24/93  
 Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/07/94  
 Injection Volume: 1.0 (uL)                      Dilution Factor: 20.0  
 GPC Cleanup: (Y/N) N                      pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	7700	U D
62-53-3	Aniline	7700	U D
111-44-4	bis(2-Chloroethyl) ether	7700	U D
95-57-8	2-Chlorophenol	7700	U D
541-73-1	1,3-Dichlorobenzene	7700	U D
106-46-7	1,4-Dichlorobenzene	7700	U D
100-51-6	Benzyl Alcohol	7700	U D
95-50-1	1,2-Dichlorobenzene	7700	U D
95-48-7	2-Methylphenol	7700	U D
108-60-1	2,2'-oxybis(1-Chloropropane)	7700	U D
106-44-5	4-Methylphenol	7700	U D
621-64-7	N-Nitroso-di-n-propylamine	7700	U D
67-72-1	Hexachloroethane	7700	U D
98-95-3	Nitrobenzene	7700	U D
78-59-1	Isophorone	7700	U D
88-75-5	2-Nitrophenol	7700	U D
105-67-9	2,4-Dimethylphenol	7700	U D
65-85-0	Benzoic Acid	19000	U D
111-91-1	bis(2-Chloroethoxy) methane	7700	U D
120-83-2	2,4-Dichlorophenol	7700	U D
120-82-1	1,2,4-Trichlorobenzene	7700	U D
91-20-3	Naphthalene	7700	U D
106-47-8	4-Chloroaniline	7700	U D
87-68-3	Hexachlorobutadiene	7700	U D
59-50-7	4-Chloro-3-methylphenol	7700	U D
91-57-6	2-Methylnaphthalene	7700	U D
77-47-4	Hexachlorocyclopentadiene	7700	U D
88-06-2	2,4,6-Trichlorophenol	7700	U D
95-95-4	2,4,5-Trichlorophenol	19000	U D
91-58-7	2-Chloronaphthalene	7700	U D
88-74-4	2-Nitroaniline	19000	U D
131-11-3	Dimethylphthalate	7700	U D
208-96-8	Acenaphthylene	7700	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7325 DL

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-020 DL

Sample wt/vol: 30.1 (g/mL) g

Lab File ID: DH154.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

606-20-2-----	2,6-Dinitrotoluene	7700	U D
99-09-2-----	3-Nitroaniline	19000	U D
83-32-9-----	Acenaphthene	7700	U D
51-28-5-----	2,4-Dinitrophenol	19000	U D
100-02-7-----	4-Nitrophenol	19000	U D
132-64-9-----	Dibenzofuran	7700	U D
121-14-2-----	2,4-Dinitrotoluene	7700	U D
84-66-2-----	Diethylphthalate	7700	U D
7005-72-3-----	4-Chlorophenyl-phenylether	7700	U D
86-73-7-----	Fluorene	7700	U D
100-01-6-----	4-Nitroaniline	19000	U D
534-52-1-----	4,6-Dinitro-2-methylphenol	19000	U D
86-30-6-----	N-Nitrosodiphenylamine	7700	U D
101-55-3-----	4-Bromophenyl-phenylether	7700	U D
118-74-1-----	Hexachlorobenzene	7700	U D
87-86-5-----	Pentachlorophenol	19000	U D
85-01-8-----	Phenanthrene	1900	JD
120-12-7-----	Anthracene	7700	U D
86-74-8-----	Carbazole	7700	U D
84-74-2-----	Di-n-butylphthalate	7700	U D
206-44-0-----	Fluoranthene	2700	JD
92-87-5-----	Benzidine	7700	U D
129-00-0-----	Pyrene	3200	JD
85-68-7-----	Butylbenzylphthalate	7700	U D
91-94-1-----	3,3'-Dichlorobenzidine	7700	U D
56-55-3-----	Benzo(a)anthracene	1300	JD
218-01-9-----	Chrysene	1600	JD
117-81-7-----	bis(2-Ethylhexyl)phthalate	7700	U D
117-84-0-----	Di-n-octylphthalate	7700	U D
205-99-2-----	Benzo(b)fluoranthene	7700	U D
207-08-9-----	Benzo(k)fluoranthene	7700	U D
50-32-8-----	Benzo(a)pyrene	1500	JD
193-39-5-----	Indeno(1,2,3-cd)pyrene	7700	U D



1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7325 <i>DL</i>
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Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-020 *DL*

Sample wt/vol: 30.1 (g/mL) g

Lab File ID: DH154.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 14 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
53-70-3-----	Dibenzo(a,h)anthracene	7700	U D
191-24-2-----	Benzo(g,h,i)perylene	1500	JD

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7327 *DL*

Lab Name: GALSON LABORATORIES                      Contract:

Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265

Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-024 *DL*

Sample wt/vol:                      30.14 (g/mL) g                      Lab File ID: DH159.94

Level: (low/med) LOW                      Date Received: 12/30/93

% Moisture: 22    decanted: (Y/N) N                      Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)                      Dilution Factor: 20.0

GPC Cleanup: (Y/N) N                      pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2-----	Phenol	8500	U D
62-53-3-----	Aniline	8500	U D
111-44-4-----	bis(2-Chloroethyl) ether	8500	U D
95-57-8-----	2-Chlorophenol	8500	U D
541-73-1-----	1,3-Dichlorobenzene	8500	U D
106-46-7-----	1,4-Dichlorobenzene	8500	U D
100-51-6-----	Benzyl Alcohol	8500	U D
95-50-1-----	1,2-Dichlorobenzene	8500	U D
95-48-7-----	2-Methylphenol	8500	U D
108-60-1-----	2,2'-oxybis(1-Chloropropane)	8500	U D
106-44-5-----	4-Methylphenol	8500	U D
621-64-7-----	N-Nitroso-di-n-propylamine	8500	U D
67-72-1-----	Hexachloroethane	8500	U D
98-95-3-----	Nitrobenzene	8500	U D
78-59-1-----	Isophorone	8500	U D
88-75-5-----	2-Nitrophenol	8500	U D
105-67-9-----	2,4-Dimethylphenol	8500	U D
65-85-0-----	Benzoic Acid	21000	U D
111-91-1-----	bis(2-Chloroethoxy) methane	8500	U D
120-83-2-----	2,4-Dichlorophenol	8500	U D
120-82-1-----	1,2,4-Trichlorobenzene	8500	U D
91-20-3-----	Naphthalene	8500	U D
106-47-8-----	4-Chloroaniline	8500	U D
87-68-3-----	Hexachlorobutadiene	8500	U D
59-50-7-----	4-Chloro-3-methylphenol	8500	U D
91-57-6-----	2-Methylnaphthalene	8500	U D
77-47-4-----	Hexachlorocyclopentadiene	8500	U D
88-06-2-----	2,4,6-Trichlorophenol	8500	U D
95-95-4-----	2,4,5-Trichlorophenol	21000	U D
91-58-7-----	2-Chloronaphthalene	8500	U D
88-74-4-----	2-Nitroaniline	21000	U D
131-11-3-----	Dimethylphthalate	8500	U D
208-96-8-----	Acenaphthylene	8500	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7327 DL

Lab Name: GALSON LABORATORIES                      Contract:  
 Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265  
 Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-024 DL  
 Sample wt/vol:                      30.14 (g/mL) g                      Lab File ID: DH159.94  
 Level: (low/med) LOW                      Date Received: 12/30/93  
 % Moisture: 22    decanted: (Y/N) N                      Date Extracted: 11/24/93  
 Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/07/94  
 Injection Volume: 1.0 (uL)                      Dilution Factor: 20.0  
 GPC Cleanup: (Y/N) N                      pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2-----	2,6-Dinitrotoluene	8500	U D
99-09-2-----	3-Nitroaniline	21000	U D
83-32-9-----	Acenaphthene	8500	U D
51-28-5-----	2,4-Dinitrophenol	21000	U D
100-02-7-----	4-Nitrophenol	21000	U D
132-64-9-----	Dibenzofuran	8500	U D
121-14-2-----	2,4-Dinitrotoluene	8500	U D
84-66-2-----	Diethylphthalate	8500	U D
7005-72-3-----	4-Chlorophenyl-phenylether	8500	U D
86-73-7-----	Fluorene	8500	U D
100-01-6-----	4-Nitroaniline	21000	U D
534-52-1-----	4,6-Dinitro-2-methylphenol	21000	U D
86-30-6-----	N-Nitrosodiphenylamine	8500	U D
101-55-3-----	4-Bromophenyl-phenylether	8500	U D
118-74-1-----	Hexachlorobenzene	8500	U D
87-86-5-----	Pentachlorophenol	21000	U D
85-01-8-----	Phenanthrene	7900	JD
120-12-7-----	Anthracene	1700	JD
86-74-8-----	Carbazole	8500	U D
84-74-2-----	Di-n-butylphthalate	8500	U D
206-44-0-----	Fluoranthene	7100	JD
92-87-5-----	Benzidine	8500	U D
129-00-0-----	Pyrene	8600	D
85-68-7-----	Butylbenzylphthalate	8500	U D
91-94-1-----	3,3'-Dichlorobenzidine	8500	U D
56-55-3-----	Benzo(a)anthracene	3400	JD
218-01-9-----	Chrysene	3400	JD
117-81-7-----	bis(2-Ethylhexyl)phthalate	8500	U D
117-84-0-----	Di-n-octylphthalate	8500	U D
205-99-2-----	Benzo(b)fluoranthene	2600	JD
207-08-9-----	Benzo(k)fluoranthene	2200	JD
50-32-8-----	Benzo(a)pyrene	2900	JD
193-39-5-----	Indeno(1,2,3-cd)pyrene	8500	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7327 DL
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Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-024 DL

Sample wt/vol: 30.14 (g/mL) g

Lab File ID: DH159.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 22 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG Q
53-70-3-----	Dibenzo(a,h)anthracene_____	8500	U D
191-24-2-----	Benzo(g,h,i)perylene_____	1500	JD

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7329  $\checkmark$

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-026  $\checkmark$

Sample wt/vol: 30.31 (g/mL) g

Lab File ID: ^DH161.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 20 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	8200	U D
62-53-3-----	Aniline	8200	U D
111-44-4-----	bis(2-Chloroethyl) ether	8200	U D
95-57-8-----	2-Chlorophenol	8200	U D
541-73-1-----	1,3-Dichlorobenzene	8200	U D
106-46-7-----	1,4-Dichlorobenzene	8200	U D
100-51-6-----	Benzyl Alcohol	8200	U D
95-50-1-----	1,2-Dichlorobenzene	8200	U D
95-48-7-----	2-Methylphenol	8200	U D
108-60-1-----	2,2'-oxybis(1-Chloropropane)	8200	U D
106-44-5-----	4-Methylphenol	8200	U D
621-64-7-----	N-Nitroso-di-n-propylamine	8200	U D
67-72-1-----	Hexachloroethane	8200	U D
98-95-3-----	Nitrobenzene	8200	U D
78-59-1-----	Isophorone	8200	U D
88-75-5-----	2-Nitrophenol	8200	U D
105-67-9-----	2,4-Dimethylphenol	8200	U D
65-85-0-----	Benzoic Acid	21000	U D
111-91-1-----	bis(2-Chloroethoxy) methane	8200	U D
120-83-2-----	2,4-Dichlorophenol	8200	U D
120-82-1-----	1,2,4-Trichlorobenzene	8200	U D
91-20-3-----	Naphthalene	8200	U D
106-47-8-----	4-Chloroaniline	8200	U D
87-68-3-----	Hexachlorobutadiene	8200	U D
59-50-7-----	4-Chloro-3-methylphenol	8200	U D
91-57-6-----	2-Methylnaphthalene	8200	U D
77-47-4-----	Hexachlorocyclopentadiene	8200	U D
88-06-2-----	2,4,6-Trichlorophenol	8200	U D
95-95-4-----	2,4,5-Trichlorophenol	21000	U D
91-58-7-----	2-Chloronaphthalene	8200	U D
88-74-4-----	2-Nitroaniline	21000	U D
131-11-3-----	Dimethylphthalate	8200	U D
208-96-8-----	Acenaphthylene	8200	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7329DL

Lab Name: GALSON LABORATORIES                      Contract:  
 Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265  
 Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-026 DL  
 Sample wt/vol:                      30.31 (g/mL) g                      Lab File ID: DH161.94  
 Level: (low/med) LOW                      Date Received: 12/30/93  
 % Moisture: 20                      decanted: (Y/N) N                      Date Extracted: 11/24/93  
 Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/07/94  
 Injection Volume: 1.0 (uL)                      Dilution Factor: 20.0  
 GPC Cleanup: (Y/N) N                      pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2	2,6-Dinitrotoluene	8200	U D
99-09-2	3-Nitroaniline	21000	U D
83-32-9	Acenaphthene	8200	U D
51-28-5	2,4-Dinitrophenol	21000	U D
100-02-7	4-Nitrophenol	21000	U D
132-64-9	Dibenzofuran	8200	U D
121-14-2	2,4-Dinitrotoluene	8200	U D
84-66-2	Diethylphthalate	8200	U D
7005-72-3	4-Chlorophenyl-phenylether	8200	U D
86-73-7	Fluorene	8200	U D
100-01-6	4-Nitroaniline	21000	U D
534-52-1	4,6-Dinitro-2-methylphenol	21000	U D
86-30-6	N-Nitrosodiphenylamine	8200	U D
101-55-3	4-Bromophenyl-phenylether	8200	U D
118-74-1	Hexachlorobenzene	8200	U D
87-86-5	Pentachlorophenol	21000	U D
85-01-8	Phenanthrene	8200	U D
120-12-7	Anthracene	8200	U D
86-74-8	Carbazole	8200	U D
84-74-2	Di-n-butylphthalate	8200	U D
206-44-0	Fluoranthene	8200	U D
92-87-5	Benzidine	8200	U D
129-00-0	Pyrene	8200	U D
85-68-7	Butylbenzylphthalate	8200	U D
91-94-1	3,3'-Dichlorobenzidine	8200	U D
56-55-3	Benzo(a)anthracene	8200	U D
218-01-9	Chrysene	8200	U D
117-81-7	bis(2-Ethylhexyl)phthalate	8200	U D
117-84-0	Di-n-octylphthalate	8200	U D
205-99-2	Benzo(b)fluoranthene	8200	U D
207-08-9	Benzo(k)fluoranthene	8200	U D
50-32-8	Benzo(a)pyrene	8200	U D
193-39-5	Indeno(1,2,3-cd)pyrene	8200	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7329 DL

Lab Name: GALSON LABORATORIES                      Contract:

Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265

Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-026 DL

Sample wt/vol:                      30.31 (g/mL) g                      Lab File ID: ^DH161.94

Level: (low/med) LOW                      Date Received: 12/30/93

% Moisture: 20    decanted: (Y/N) N                      Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)                      Dilution Factor: 20.0

GPC Cleanup: (Y/N) N                      pH:

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

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
53-70-3-----	Dibenzo(a,h)anthracene _____	8200	U D
191-24-2-----	Benzo(g,h,i)perylene _____	8200	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7330DL

Lab Name: GALSON LABORATORIES                      Contract:

Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265

Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-027X

Sample wt/vol:                      30.11 (g/mL) g                      Lab File ID: DH155.94

Level: (low/med) LOW                      Date Received: 12/30/93

% Moisture: 11                      decanted: (Y/N) N                      Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)                      Dilution Factor: 20.0

GPC Cleanup: (Y/N) N                      pH:

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

CAS NO.	COMPOUND	UG/KG	Q
108-95-2	Phenol	7500	U D
62-53-3	Aniline	7500	U D
111-44-4	bis(2-Chloroethyl) ether	7500	U D
95-57-8	2-Chlorophenol	7500	U D
541-73-1	1,3-Dichlorobenzene	7500	U D
106-46-7	1,4-Dichlorobenzene	7500	U D
100-51-6	Benzyl Alcohol	7500	U D
95-50-1	1,2-Dichlorobenzene	7500	U D
95-48-7	2-Methylphenol	7500	U D
108-60-1	2,2'-oxybis(1-Chloropropane)	7500	U D
106-44-5	4-Methylphenol	7500	U D
621-64-7	N-Nitroso-di-n-propylamine	7500	U D
67-72-1	Hexachloroethane	7500	U D
98-95-3	Nitrobenzene	7500	U D
78-59-1	Isophorone	7500	U D
88-75-5	2-Nitrophenol	7500	U D
105-67-9	2,4-Dimethylphenol	7500	U D
65-85-0	Benzoic Acid	19000	U D
111-91-1	bis(2-Chloroethoxy) methane	7500	U D
120-83-2	2,4-Dichlorophenol	7500	U D
120-82-1	1,2,4-Trichlorobenzene	7500	U D
91-20-3	Naphthalene	7500	U D
106-47-8	4-Chloroaniline	7500	U D
87-68-3	Hexachlorobutadiene	7500	U D
59-50-7	4-Chloro-3-methylphenol	7500	U D
91-57-6	2-Methylnaphthalene	7500	U D
77-47-4	Hexachlorocyclopentadiene	7500	U D
88-06-2	2,4,6-Trichlorophenol	7500	U D
95-95-4	2,4,5-Trichlorophenol	19000	U D
91-58-7	2-Chloronaphthalene	7500	U D
88-74-4	2-Nitroaniline	19000	U D
131-11-3	Dimethylphthalate	7500	U D
208-96-8	Acenaphthylene	7500	U D



1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7330 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code: Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-027 *DL*

Sample wt/vol: 30.11 (g/mL) g

Lab File ID: DH155.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2	2,6-Dinitrotoluene	7500	U D
99-09-2	3-Nitroaniline	19000	U D
83-32-9	Acenaphthene	7500	U D
51-28-5	2,4-Dinitrophenol	19000	U D
100-02-7	4-Nitrophenol	19000	U D
132-64-9	Dibenzofuran	7500	U D
121-14-2	2,4-Dinitrotoluene	7500	U D
84-66-2	Diethylphthalate	7500	U D
7005-72-3	4-Chlorophenyl-phenylether	7500	U D
86-73-7	Fluorene	7500	U D
100-01-6	4-Nitroaniline	19000	U D
534-52-1	4,6-Dinitro-2-methylphenol	19000	U D
86-30-6	N-Nitrosodiphenylamine	7500	U D
101-55-3	4-Bromophenyl-phenylether	7500	U D
118-74-1	Hexachlorobenzene	7500	U D
87-86-5	Pentachlorophenol	19000	U D
85-01-8	Phenanthrene	1500	JD
120-12-7	Anthracene	7500	U D
86-74-8	Carbazole	7500	U D
84-74-2	Di-n-butylphthalate	7500	U D
206-44-0	Fluoranthene	1500	JD
92-87-5	Benzidine	7500	U D
129-00-0	Pyrene	1600	JD
85-68-7	Butylbenzylphthalate	7500	U D
91-94-1	3,3'-Dichlorobenzidine	7500	U D
56-55-3	Benzo(a)anthracene	7500	U D
218-01-9	Chrysene	7500	U D
117-81-7	bis(2-Ethylhexyl)phthalate	7500	U D
117-84-0	Di-n-octylphthalate	7500	U D
205-99-2	Benzo(b)fluoranthene	7500	U D
207-08-9	Benzo(k)fluoranthene	7500	U D
50-32-8	Benzo(a)pyrene	7500	U D
193-39-5	Indeno(1,2,3-cd)pyrene	7500	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7330 ~~DL~~

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-027 ~~DL~~

Sample wt/vol: 30.11 (g/mL) g

Lab File ID: DH155.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 11 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG Q
53-70-3-----	Dibenzo(a,h)anthracene	7500	U D
191-24-2-----	Benzo(g,h,i)perylene	7500	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7332 *α*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-031 *α*

Sample wt/vol: 30.35 (g/mL) g

Lab File ID: DH163.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	7500	U D
62-53-3	Aniline	7500	U D
111-44-4	bis(2-Chloroethyl) ether	7500	U D
95-57-8	2-Chlorophenol	7500	U D
541-73-1	1,3-Dichlorobenzene	7500	U D
106-46-7	1,4-Dichlorobenzene	7500	U D
100-51-6	Benzyl Alcohol	7500	U D
95-50-1	1,2-Dichlorobenzene	7500	U D
95-48-7	2-Methylphenol	7500	U D
108-60-1	2,2'-oxybis(1-Chloropropane)	7500	U D
106-44-5	4-Methylphenol	7500	U D
621-64-7	N-Nitroso-di-n-propylamine	7500	U D
67-72-1	Hexachloroethane	7500	U D
98-95-3	Nitrobenzene	7500	U D
78-59-1	Isophorone	7500	U D
88-75-5	2-Nitrophenol	7500	U D
105-67-9	2,4-Dimethylphenol	7500	U D
65-85-0	Benzoic Acid	19000	U D
111-91-1	bis(2-Chloroethoxy) methane	7500	U D
120-83-2	2,4-Dichlorophenol	7500	U D
120-82-1	1,2,4-Trichlorobenzene	7500	U D
91-20-3	Naphthalene	7500	U D
106-47-8	4-Chloroaniline	7500	U D
87-68-3	Hexachlorobutadiene	7500	U D
59-50-7	4-Chloro-3-methylphenol	7500	U D
91-57-6	2-Methylnaphthalene	7500	U D
77-47-4	Hexachlorocyclopentadiene	7500	U D
88-06-2	2,4,6-Trichlorophenol	7500	U D
95-95-4	2,4,5-Trichlorophenol	19000	U D
91-58-7	2-Chloronaphthalene	7500	U D
88-74-4	2-Nitroaniline	19000	U D
131-11-3	Dimethylphthalate	7500	U D
208-96-8	Acenaphthylene	7500	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7332 *DL*

Lab Name: GALSON LABORATORIES                      Contract:  
 Lab Code:                      Case No.: 1                      SAS No.:                      SDG No.: 16265  
 Matrix: (soil/water) SOIL                      Lab Sample ID: 16265-031 *DL*  
 Sample wt/vol:                      30.35 (g/mL) g                      Lab File ID: ^DH163.94  
 Level: (low/med) LOW                      Date Received: 12/30/93  
 % Moisture: 12                      decanted: (Y/N) N                      Date Extracted: 11/24/93  
 Concentrated Extract Volume: 1000 (uL)                      Date Analyzed: 01/07/94  
 Injection Volume: 1.0 (uL)                      Dilution Factor: 20.0  
 GPC Cleanup: (Y/N) N                      pH:

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
606-20-2	2,6-Dinitrotoluene	7500	U D
99-09-2	3-Nitroaniline	19000	U D
83-32-9	Acenaphthene	7500	U D
51-28-5	2,4-Dinitrophenol	19000	U D
100-02-7	4-Nitrophenol	19000	U D
132-64-9	Dibenzofuran	7500	U D
121-14-2	2,4-Dinitrotoluene	7500	U D
84-66-2	Diethylphthalate	7500	U D
7005-72-3	4-Chlorophenyl-phenylether	7500	U D
86-73-7	Fluorene	7500	U D
100-01-6	4-Nitroaniline	19000	U D
534-52-1	4,6-Dinitro-2-methylphenol	19000	U D
86-30-6	N-Nitrosodiphenylamine	7500	U D
101-55-3	4-Bromophenyl-phenylether	7500	U D
118-74-1	Hexachlorobenzene	7500	U D
87-86-5	Pentachlorophenol	19000	U D
85-01-8	Phenanthrene	7500	U D
120-12-7	Anthracene	7500	U D
86-74-8	Carbazole	7500	U D
84-74-2	Di-n-butylphthalate	7500	U D
206-44-0	Fluoranthene	1100	JD
92-87-5	Benzidine	7500	U D
129-00-0	Pyrene	1400	JD
85-68-7	Butylbenzylphthalate	7500	U D
91-94-1	3,3'-Dichlorobenzidine	7500	U D
56-55-3	Benzo(a)anthracene	7500	U D
218-01-9	Chrysene	7500	U D
117-81-7	bis(2-Ethylhexyl)phthalate	7500	U D
117-84-0	Di-n-octylphthalate	7500	U D
205-99-2	Benzo(b)fluoranthene	7500	U D
207-08-9	Benzo(k)fluoranthene	7500	U D
50-32-8	Benzo(a)pyrene	7500	U D
193-39-5	Indeno(1,2,3-cd)pyrene	7500	U D

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

7332 *DL*

Lab Name: GALSON LABORATORIES

Contract:

Lab Code:

Case No.: 1

SAS No.:

SDG No.: 16265

Matrix: (soil/water) SOIL

Lab Sample ID: 16265-031 *DL*

Sample wt/vol: 30.35 (g/mL) g

Lab File ID: DH163.94

Level: (low/med) LOW

Date Received: 12/30/93

% Moisture: 12 decanted: (Y/N) N

Date Extracted: 11/24/93

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/07/94

Injection Volume: 1.0 (uL)

Dilution Factor: 20.0

GPC Cleanup: (Y/N) N pH:

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

CAS NO.

COMPOUND

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
53-70-3-----	Dibenzo(a,h)anthracene	7500	U D
191-24-2-----	Benzo(g,h,i)perylene	7500	U D

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.

181 Cedar Hill Street  
Marlboro, MA 01782  
DEP Certification # M-MA082  
Telephone (508) 460-7600  
Facsimile (508) 460-7777

Client: OpTech

Contact: M. Escobar

Revet Account Number: E2008

Method 8080 Matrix: Soil

PCB ANALYSIS

This data package contains the following:

Revet ID	Client ID
7241	01-014 BH, INT 1
7243	01-006-BH, INT 1
7244	01-006-BH, INT 2
7245	01-005-BH, INT 1
BLANK.2008.1	MBLK 11/20

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.  
 181 Cedar Hill Street  
 Marlboro, MA 01752  
 (508) 460-7600

=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7241 REVET Account No: E2008  
 Client Sample: 01-014 BH, INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Soil Date Run: 12/07/93  
 Method: 8080 PCB Dilution Factor: 1.1  
 =====

Analyst: Donald R. Allgood Date: 1/5/94  
 D.A.D'ANJOU, Ph.D.

QC Check: E. Taylor / VI Date: 1/5/94

CAS Number	Compound	EPA Method	Detection Limit for this sample*	RESULTS**
			ug/kg	
12674-11-2	Aroclor-1016		36.3	ND
11104-28-2	Aroclor-1221	R	73.7	ND
11141-16-5	Aroclor-1232	E	36.3	ND
53469-21-9	Aroclor-1242	V	36.3	ND
12672-29-6	Aroclor-1248	E	36.3	ND
11097-69-1	Aroclor-1254	T	36.3	ND
11096-82-5	Aroclor-1260		36.3	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 9.2

Amount of sample extracted- 30.04 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	102	60 - 150
Decachlorobiphenyl	93	60 - 150

## = Advisory Limits Only

Notes:

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REVE ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.  
 181 Cedar Hill Street  
 Marlboro, MA 01752  
 (508) 460-7600

=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7243 REVET Account No: E2008  
 Client Sample: 01-006 BH, INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Soil Date Run: 12/07/93  
 Method: 8080 PCB Dilution Factor: 1.1  
 =====

Analyst: Donald B. Anjou Date: 1/5/94  
 D.A.D'ANJOU, Ph.D.

QC Check: E. Taylor / R Date: 1/5/94

CAS Number	Compound	EPA Method Detection Limit for this sample*	RESULTS**
12674-11-2	Aroclor-1016	36.3 ug/kg	ND
11104-28-2	Aroclor-1221	73.7	R ND
11141-16-5	Aroclor-1232	36.3	E ND
53469-21-9	Aroclor-1242	36.3	V ND
12672-29-6	Aroclor-1248	36.3	E ND
11097-69-1	Aroclor-1254	36.3	T ND
11096-82-5	Aroclor-1260	36.3	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 13.3

Amount of sample extracted- 30.19 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	103	60 - 150
Decachlorobiphenyl	174+	60 - 150

## = Advisory Limits Only

Notes: + = High results due to co-elution problems observed for this compound.

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 181 Cedar Hill Street  
 Marlboro, MA 01752  
 (508) 460-7600

Page 1 of 1

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Client:          OPTECH                Contact:        JOHN MORRIS
Revet Sample No.: 7244                REVET Account No: E2008
Client Sample:   01-006 BH, INT 2      Location / PO:  WORCESTER ANG / P.N. 1315-113
Date Sampled:    11/17/93              Date Received:  11/17/93
Matrix:          Soil                   Date Run:       12/08/93
Method:          8080 PCB                Dilution Factor: 1.4
  
```

Analyst: *Donald A. H. Lyne* Date: *1/5/94*  
 D.A.D'ANJOU, Ph.D.

QC Check: *S. Taylor / Vi* Date: *1/5/94*

CAS Number	Compound	EPA Method Detection Limit for this sample*	RESULTS**
12674-11-2	Aroclor-1016	46.2	ND
11104-28-2	Aroclor-1221	93.8	R ND
11141-16-5	Aroclor-1232	46.2	E ND
53469-21-9	Aroclor-1242	46.2	V ND
12672-29-6	Aroclor-1248	46.2	E ND
11097-69-1	Aroclor-1254	46.2	T ND
11096-82-5	Aroclor-1260	46.2	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 26.9

Amount of sample extracted- 30.19 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	94	60 - 150
Decachlorobiphenyl	116	60 - 150

## = Advisory Limits Only

Notes:

=====

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.  
 181 Cedar Hill Street  
 Marlboro, MA 01752  
 (508) 460-7600

=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7245 REVET Account No: E2008  
 Client Sample: 01-005 BH, INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Soil Date Run: 12/08/93  
 Method: 8080 PCB Dilution Factor: 1.1  
 =====

Analyst: D.A.D'ANJOU Date: 1/5/94  
 D.A.D'ANJOU, Ph.D.

QC Check: E Taylor / 69 Date: 1/5/94

CAS Number	Compound	EPA Method Detection Limit for this sample*	RESULTS**
12674-11-2	Aroclor-1016	36.3	ND
11104-28-2	Aroclor-1221	73.7 R	ND
11141-16-5	Aroclor-1232	36.3 E	ND
53469-21-9	Aroclor-1242	36.3 V	ND
12672-29-6	Aroclor-1248	36.3 E	ND
11097-69-1	Aroclor-1254	36.3 T	ND
11096-82-5	Aroclor-1260	36.3	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 6.7

Amount of sample extracted- 30.15 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	106	60 - 150
Decachlorobiphenyl	106	60 - 150

## = Advisory Limits Only

Notes:

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=====
Client:      OPTECH                Contact:      JOHN MORRIS
Revet Sample No.: 7240            REVET Account No: E2008
Client Sample: 01-012 BH, INT 2   Location / PO: WORCESTER ANG / P.N. 1315-113
Date Sampled: 11/17/93           Date Received: 11/17/93
Matrix:      Soil                 Date Run:     12/07/93 ***
Method:      8080 PCB             Dilution Factor: 1.1
  
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Analyst: Donald A. D'Anjou Date: 1/13/94  
 D.A.D'ANJOU, Ph.D.

QC Check: E Taylor Date: 1/13/94

CAS Number	Compound	EPA Method Detection Limit for this sample*	ug/kg	RESULTS**
12674-11-2	Aroclor-1016		36.3	ND
11104-28-2	Aroclor-1221	R	73.7	ND
11141-16-5	Aroclor-1232	E	36.3	ND
53469-21-9	Aroclor-1242	V	36.3	ND
12672-29-6	Aroclor-1248	E	36.3	ND
11097-69-1	Aroclor-1254	T	36.3	ND
11096-82-5	Aroclor-1260		36.3	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 9.7

Amount of sample extracted- 30.08 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	82	60 - 150
Decachlorobiphenyl	164+	60 - 150

## = Advisory Limits Only

Notes: +=High results due to co-elution problems observed for this compound.

\*\*\* Sample extremely dirty, multiple clean-ups and runs necessary.

Final analysis date 1/8/94.

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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7242 REVET Account No: E2008  
 Client Sample: 01-013 BH, INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Soil Date Run: 12/07/93 \*\*\*  
 Method: 8080 PCB Dilution Factor: 1.2

Analyst: Donald A. Anjou Date: 1/13/94  
 D.A.D'ANJOU, Ph.D.

QC Check: E Taylor Date: 1/13/94

CAS Number	Compound	EPA Method Detection Limit for this sample*	RESULTS**
		ug/kg	
12674-11-2	Aroclor-1016	39.6	ND
11104-28-2	Aroclor-1221	80.4	R ND
11141-16-5	Aroclor-1232	39.6	E ND
53469-21-9	Aroclor-1242	39.6	V ND
12672-29-6	Aroclor-1248	39.6	E ND
11097-69-1	Aroclor-1254	39.6	T ND
11096-82-5	Aroclor-1260	39.6	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 13.6

Amount of sample extracted- 30.04 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	95	60 - 150
Decachlorobiphenyl	122	60 - 150

## = Advisory Limits Only

Notes:\*\*\*Sample extremely dirty, multiple clean-ups and runs necessary.  
 Final analysis date = 1/8/94.

=====

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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7246 REVET Account No: E2008  
 Client Sample: 01-005 BH, INT 2 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93.  
 Matrix: Soil Date Run: 12/07/93\* \*\*  
 Method: 8080 PCB Dilution Factor: 1.2

Analyst: Donald A. Anjou Date: 1/13/94  
 D.A.D'ANJOU, Ph.D.

QC Check: E Taylor Date: 1/13/94

CAS Number	Compound	EPA Method	Detection Limit for this sample*	RESULTS**
12674-11-2	Aroclor-1016		39.6	ND
11104-28-2	Aroclor-1221	R	80.4	ND
11141-16-5	Aroclor-1232	E	39.6	ND
53469-21-9	Aroclor-1242	V	39.6	ND
12672-29-6	Aroclor-1248	E	39.6	ND
11097-69-1	Aroclor-1254	T	39.6	ND
11096-82-5	Aroclor-1260		39.6	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 19

Amount of sample extracted- 30.06 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	102	60 - 150
Decachlorobiphenyl	264+	60 - 150

## = Advisory Limits Only

Notes: +=High results due to co-elution problems observed for this compound.

\*\* \* Sample extremely dirty, multiple clean-ups and runs necessary.

Final analysis date 1/8/94.

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Page 1 of 1

=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7247 REVET Account No: E2008  
 Client Sample: 01-010 BH, INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Soil Date Run: 12/07/93 \*\*\*  
 Method: 8080 PCB Dilution Factor: 1.7  
 =====

Analyst: Donald A. Anjou Date: 1/13/94  
 D.A.D'ANJOU, Ph.D.

QC Check: E. Taylor Date: 1/13/94

CAS Number	Compound	EPA Method	Detection Limit for this sample*	RESULTS**
12674-11-2	Aroclor-1016		56.1 ug/kg	ND
11104-28-2	Aroclor-1221		113.9	ND
11141-16-5	Aroclor-1232	R	56.1	ND
53469-21-9	Aroclor-1242	E	56.1	ND
12672-29-6	Aroclor-1248	V	56.1	ND
11097-69-1	Aroclor-1254	E	56.1	ND
11096-82-5	Aroclor-1260	T	56.1	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 42.8

Amount of sample extracted- 30.36 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	100	60 - 150
Decachlorobiphenyl	86	60 - 150

## = Advisory Limits Only

Notes: \*\*\* Sample extremely dirty, multiple clean-ups and runs necessary.  
 Final analysis date = 1/11/94.

=====

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=====
Client:          OPTECH                Contact:         JOHN MORRIS
Revet Sample No.: 7248                REVET Account No: E2008
Client Sample:   01-008 BH, INT 1     Location / PO:  WORCESTER ANG / P.N. 1315-113
Date Sampled:    11/17/93             Date Received:   11/17/93
Matrix:          Soil                  Date Run:        12/07/93 ***
Method:          8080 PCB              Dilution Factor: 2.3
  
```

Analyst: Donald A. D'Anjou Date: 1/13/94  
 D.A.D'ANJOU, Ph.D.

QC Check: E. Taylor Date: 1/13/94

CAS Number	Compound	EPA Method	Detection Limit for this sample*	RESULTS**
12674-11-2	Aroclor-1016		75.9 ug/kg	ND
11104-28-2	Aroclor-1221	R	154.1	ND
11141-16-5	Aroclor-1232	E	75.9	ND
53469-21-9	Aroclor-1242	V	75.9	ND
12672-29-6	Aroclor-1248	E	75.9	ND
11097-69-1	Aroclor-1254	T	75.9	ND
11096-82-5	Aroclor-1260		75.9	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 57.2

Amount of sample extracted- 30.11 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	93	60 - 150
Decachlorobiphenyl	110	60 - 150

## = Advisory Limits Only

Notes: \*\*\* Sample extremely dirty, multiple clean-ups and runs necessary.  
 Final analysis date = 1/11/94.

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=====
Client:          OPTECH                Contact:        JOHN MORRIS
Revet Sample No.: 7249                REVET Account No: E2008
Client Sample:   01-004 BH, INT 1     Location / PO:  WORCESTER ANG / P.N. 1315-113
Date Sampled:   11/17/93              Date Received:  11/17/93
Matrix:         Soil                   Date Run:       12/07/93* **
Method:         8080 PCB                Dilution Factor: 1.1
=====
  
```

Analyst: *D.A.D'Anjou* Date: *1/13/94*  
 D.A.D'ANJOU, Ph.D.

QC Check: *S. Taylor* Date: *1/13/94*

CAS Number	Compound	EPA Method	Detection Limit for this sample*	RESULTS**
			ug/kg	
12674-11-2	Aroclor-1016		36.3	ND
11104-28-2	Aroclor-1221		73.7	R ND
11141-16-5	Aroclor-1232		36.3	E ND
53469-21-9	Aroclor-1242		36.3	V ND
12672-29-6	Aroclor-1248		36.3	E ND
11097-69-1	Aroclor-1254		36.3	T ND
11096-82-5	Aroclor-1260		36.3	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 10.7

Amount of sample extracted- 30.04 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	94	60 - 150
Decachlorobiphenyl	176+	60 - 150

## = Advisory Limits Only

Notes: +=High results due to co-elution problems observed for this compound.

\*\*\* Sample extremely dirty, multiple clean-ups and runs necessary.

Final analysis date 1/8/94.



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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7250 REVET Account No: E2008  
 Client Sample: 01-004 BH, INT 2 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/17/93 Date Received: 11/17/93  
 Matrix: Soil Date Run: 12/07/93\*\*\*  
 Method: 8080 PCB Dilution Factor: 1.3  
 =====

Analyst: *Donald A. Anjou* Date: *1/13/94*  
 D.A.D./ANJOU, Ph.D.

QC Check: *E. Taylor* Date: *1/13/94*

CAS Number	Compound	EPA Method Detection Limit for this sample*	RESULTS**
12674-11-2	Aroclor-1016	42.9 ug/kg	ND
11104-28-2	Aroclor-1221	87.1 R	ND
11141-16-5	Aroclor-1232	42.9 E	ND
53469-21-9	Aroclor-1242	42.9 V	ND
12672-29-6	Aroclor-1248	42.9 E	ND
11097-69-1	Aroclor-1254	42.9 T	ND
11096-82-5	Aroclor-1260	42.9	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 21.1

Amount of sample extracted- 30.22 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	97	60 - 150
Decachlorobiphenyl	321+	60 - 150

## = Advisory Limits Only

Notes: +=High results due to co-elution problems observed for this compound.  
 \*\*\* Sample extremely dirty, multiple clean-ups and runs necessary.  
 Final analysis date 1/8/94.

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REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.  
181 Cedar Hill Street  
Marlboro, MA 01782  
DEP Certification # MA082  
Telephone (508) 460-7600  
Facsimile (508) 460-7777

Client: Optech

Contact: Mark Escobar

Revet Account Number: E2014 Date Received: 11/18/93

PESTICIDE ANALYSIS

This data package contains the following:

Revet ID	Client ID
7335	01-015 BH, INT 1
7335MS	01-015 BH, INT 1
7335MSD	01-015 BH, INT 1
7336	01-015 BH, DUP
7337	01-011 BH, INT 1
7338	01-011 BH, DUP
7339	01-009 BH, INT 1
7340	01-007 BH, INT 1
7340MS	01-007 BH, INT 1
7340MSD	01-007 BH, INT 1
7341	01-007 BH, DUP
7342	01-007 BH, INT 2
BLANK.2014.1	LABORATORY BLANK 11/29

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=====
Client:          OPTECH                Contact:        JOHN MORRIS
Revet Sample No.: 7335                REVET Account No: E2014
Client Sample:   01-015 BH, INT 1     Location / PO:  WORCESTER ANG / P.N. 1315-113
Date Sampled:    11/18/93             Date Received:  11/18/93
Matrix:          Soil                  Date Run:       12/10/93
Method:          8080 PCB              Dilution Factor: 1.2
  
```

Analyst: *Donald A. Illgen* Date: *12/25/93*  
 D.A.D'ANJOU, Ph.D.

QC Check: *[Signature]* Date: *12/25/93*

CAS Number	Compound	EPA Method Detection Limit for this sample*	RESULTS**
12674-11-2	Aroclor-1016	39.6	ND
11104-28-2	Aroclor-1221	80.4	R ND
11141-16-5	Aroclor-1232	39.6	E ND
53469-21-9	Aroclor-1242	39.6	V ND
12672-29-6	Aroclor-1248	39.6	E ND
11097-69-1	Aroclor-1254	39.6	T ND
11096-82-5	Aroclor-1260	39.6	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 14.3

Amount of sample extracted- 30.03 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	110	60 - 150
Decachlorobiphenyl	472++	60 - 150

## = Advisory Limits Only

Notes: ++=High results due to co-elution problems observed for this compound.  
 Sample contains high concentrations of non-target compounds.

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Page 1 of 1

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 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7337 REVET Account No: E2014  
 Client Sample: 01-011 BH, INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/18/93 Date Received: 11/18/93  
 Matrix: Soil Date Run: 12/10/93  
 Method: 8080 PCB Dilution Factor: 1.3  
 =====

Analyst: *D.A.D. Anjou* Date: 12/28/93  
 D.A.D. ANJOU, Ph.D.

QC Check: *E. T. Smith* Date: 12/28/93

CAS Number	Compound	EPA Method Detection Limit for this sample*	RESULTS**
12674-11-2	Aroclor-1016	42.9 ug/kg	ND
11104-28-2	Aroclor-1221	87.1 R	ND
11141-16-5	Aroclor-1232	42.9 E	ND
53469-21-9	Aroclor-1242	42.9 V	ND
12672-29-6	Aroclor-1248	42.9 E	ND
11097-69-1	Aroclor-1254	42.9 T	ND
11096-82-5	Aroclor-1260	42.9	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 21.7

Amount of sample extracted- 30.28 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	92	60 - 150
Decachlorobiphenyl	336++	60 - 150

## = Advisory Limits Only

Notes: ++=High results due to co-elution problems observed for this compound.  
 Sample contains high concentrations of non-target compounds.

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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7339 REVET Account No: E2014  
 Client Sample: 01-009 BH, INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/18/93 Date Received: 11/18/93  
 Matrix: Soil Date Run: 12/10/93  
 Method: 8080 PCB Dilution Factor: 1.2

Analyst: Donald A. Anjou Date: 12/18/93  
 D.A.D'ANJOU, Ph.D.

QC Check: E. Taylor Date: 12/28/93

CAS Number	Compound	EPA Method	Detection Limit for this sample*	RESULTS**
12674-11-2	Aroclor-1016		39.6	ND
11104-28-2	Aroclor-1221	R	80.4	ND
11141-16-5	Aroclor-1232	E	39.6	ND
53469-21-9	Aroclor-1242	V	39.6	ND
12672-29-6	Aroclor-1248	E	39.6	ND
11097-69-1	Aroclor-1254	T	39.6	ND
11096-82-5	Aroclor-1260		39.6	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 20

Amount of sample extracted- 30.45 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	110	60 - 150
Decachlorobiphenyl	208++	60 - 150

## = Advisory Limits Only

Notes: ++=High results due to co-elution problems observed for this compound.  
 Sample contains high concentrations of non-target compounds.

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 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7340 REVET Account No: E2014  
 Client Sample: 01-007 BH, INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/18/93 Date Received: 11/18/93  
 Matrix: Soil Date Run: 12/10/93  
 Method: 8080 PCB Dilution Factor: 1.1  
 =====

Analyst: Donald A. L'Anjou Date: 12/28/93  
 D.A.D'ANJOU, Ph.D.

QC Check: S Taylor Date: 12/28/93

CAS Number	Compound	EPA Method Detection Limit for this sample*	RESULTS**
12674-11-2	Aroclor-1016	36.3 ug/kg	ND
11104-28-2	Aroclor-1221	73.7	R ND
11141-16-5	Aroclor-1232	36.3	E ND
53469-21-9	Aroclor-1242	36.3	V ND
12672-29-6	Aroclor-1248	36.3	E ND
11097-69-1	Aroclor-1254	36.3	T ND
11096-82-5	Aroclor-1260	36.3	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 11

Amount of sample extracted- 30.16 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	110	60 - 150
Decachlorobiphenyl	104	60 - 150

## = Advisory Limits Only

Notes:

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=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7342 REVET Account No: E2014  
 Client Sample: 01-007 BH, INT 2 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/18/93 Date Received: 11/18/93  
 Matrix: Soil Date Run: 12/10/93  
 Method: 8080 PCB Dilution Factor: 1.1  
 =====

Analyst: Donald A. Anjou Date: 12/28/93  
 D.A.D'ANJOU, Ph.D.

QC Check: E Taylor Date: 12/28/93

CAS Number	Compound	EPA Method Detection Limit for this sample*	ug/kg	RESULTS**
12674-11-2	Aroclor-1016		36.3	ND
11104-28-2	Aroclor-1221	R	73.7	ND
11141-16-5	Aroclor-1232	E	36.3	ND
53469-21-9	Aroclor-1242	V	36.3	ND
12672-29-6	Aroclor-1248	E	36.3	ND
11097-69-1	Aroclor-1254	T	36.3	ND
11096-82-5	Aroclor-1260		36.3	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 12.5

Amount of sample extracted- 30.28 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	111	60 - 150
Decachlorobiphenyl	331++	60 - 150

## = Advisory Limits Only

Notes: +++=High results due to co-elution problems observed for this compound.  
 Sample contains high concentrations of non-target compounds.

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 15 Belmont Street  
 Worcester, MA 01605  
 (508) 753-3738

=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7145 REVE Account No: E1997  
 Client Sample: 01-001 RH INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/16/93 Date Received: 11/16/93  
 Matrix: Soil Date Run: 12/07/93  
 Method: 8080 PCB Dilution Factor: 1  
 =====

Analyst: *Donald D. Anjou* Date: *12/10/93*  
 D.A.D'ANJOU, Ph.D.

QC Check: *E Taylor* Date: *12/10/93*

CAS Number	Compound	EPA Method		RESULTS**
		Detection Limit	for this sample*	
		ug/kg		
12674-11-2	Aroclor-1016	33		ND
11104-28-2	Aroclor-1221	67	R	ND
11141-16-5	Aroclor-1232	33	E	ND
53469-21-9	Aroclor-1242	33	V	ND
12672-29-6	Aroclor-1248	33	E	ND
11097-69-1	Aroclor-1254	33	T	ND
11096-82-5	Aroclor-1260	33		ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 4.1

Amount of sample extracted- 30.08 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	98	60 - 150
Decachlorobiphenyl	103	60 - 150

## = Advisory Limits Only

Notes:

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 Worcester, MA 01605  
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Page 1 of 1

=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7146 REVET Account No: E1997  
 Client Sample: 01-002 BH INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/16/93 Date Received: 11/16/93  
 Matrix: Soil Date Run: 12/07/93  
 Method: 8080 PCB Dilution Factor: 1.1

Analyst: D.A.D'ANJOU Date: 12/10/93  
 D.A.D'ANJOU, Ph.D.

QC Check: E. Taylor Date: 12/10/93

CAS Number	Compound	EPA Method	Detection Limit for this sample*	RESULTS**
12674-11-2	Aroclor-1016		36.3 ug/kg	ND
11104-28-2	Aroclor-1221	R	73.7	ND
11141-16-5	Aroclor-1232	E	36.3	ND
53469-21-9	Aroclor-1242	V	36.3	ND
12672-29-6	Aroclor-1248	E	36.3	ND
11097-69-1	Aroclor-1254	T	36.3	ND
11096-82-5	Aroclor-1260		36.3	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 6.4

Amount of sample extracted- 30.23 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	94	60 - 150
Decachlorobiphenyl	96	60 - 150

## = Advisory Limits Only

Notes:

=====

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.  
 15 Belmont Street  
 Worcester, MA 01605  
 (508) 753-3738

Page 1 of 1

=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7147 REVET Account No: E1997  
 Client Sample: 01-003 BH INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/16/93 Date Received: 11/16/93  
 Matrix: Soil Date Run: 12/07/93  
 Method: 8080 PCB Dilution Factor: 1  
 =====

Analyst: *[Signature]* Date: 12/10/93  
 D.A.D'ANJOU, Ph.D.

QC Check: *[Signature]* Date: 12/10/93

CAS Number	Compound	EPA Method Detection Limit for this sample*	RESULTS**
12674-11-2	Aroclor-1016	33 ug/kg	ND
11104-28-2	Aroclor-1221	67 R	ND
11141-16-5	Aroclor-1232	33 E	ND
53469-21-9	Aroclor-1242	33 V	ND
12672-29-6	Aroclor-1248	33 E	ND
11097-69-1	Aroclor-1254	33 T	ND
11096-82-5	Aroclor-1260	33	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 5.6

Amount of sample extracted- 30.36 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	92	60 - 150
Decachlorobiphenyl	130	60 - 150

## = Advisory Limits Only

Notes:

=====

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 (508) 753-3738

=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7149 REVET Account No: E1997  
 Client Sample: 01-012 BH INT 1 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/16/93 Date Received: 11/16/93  
 Matrix: Soil Date Run: 12/07/93  
 Method: 8080 PCB Dilution Factor: 1.1

Analyst: *D.A.D'Anjou* Date: 12/10/93  
 D.A.D'ANJOU, Ph.D.

QC Check: *E. Taylor* Date: 12/10/93

CAS Number	Compound	EPA Method	Detection Limit for this sample*	RESULTS**
12674-11-2	Aroclor-1016		36.3	ND
11104-28-2	Aroclor-1221		73.7	R ND
11141-16-5	Aroclor-1232		36.3	E ND
53469-21-9	Aroclor-1242		36.3	V ND
12672-29-6	Aroclor-1248		36.3	E ND
11097-69-1	Aroclor-1254		36.3	T ND
11096-82-5	Aroclor-1260		36.3	ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 7.7

Amount of sample extracted- 30.14 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	92	60 - 150
Decachlorobiphenyl	176++	60 - 150

## = Advisory Limits Only

Notes: ++=High results due to co-elution problems observed for this compound.

=====

REVET ENVIRONMENTAL & ANALYTICAL LABORATORIES, INC.  
 15 Belmont Street  
 Worcester, MA 01605  
 (508) 753-3738

=====  
 Client: OPTECH Contact: JOHN MORRIS  
 Revet Sample No.: 7148 REVET Account No: E1997  
 Client Sample: 01-003 BH INT 2 Location / PO: WORCESTER ANG / P.N. 1315-113  
 Date Sampled: 11/16/93 Date Received: 11/16/93  
 Matrix: Soil Date Run: 12/07/93  
 Method: 8080 PCB Dilution Factor: 1.1  
 =====

Analyst: Donald A. Anjou Date: 12/10/93  
 D.A.D'ANJOU, Ph.D.

QC Check: E Taylor Date: 12/10/93

CAS Number	Compound	EPA Method		RESULTS**
		Detection Limit for this sample*		
		ug/kg		
12674-11-2	Aroclor-1016	36.3		ND
11104-28-2	Aroclor-1221	73.7	R	ND
11141-16-5	Aroclor-1232	36.3	E	ND
53469-21-9	Aroclor-1242	36.3	V	ND
12672-29-6	Aroclor-1248	36.3	E	ND
11097-69-1	Aroclor-1254	36.3	T	ND
11096-82-5	Aroclor-1260	36.3		ND

ND- Not Detected

\* The detection limits for this sample are based upon the standard limits multiplied by the dilution factor.

\*\*Data reported as dry weight Soil/sediment % moisture- 13.4

Amount of sample extracted- 30.24 g.

Compound	Surrogate % Recovery	Acceptable Soil Limit ##
Tetrachloro-m-xylene	97	60 - 150
Decachlorobiphenyl	110	60 - 150

## = Advisory Limits Only

Notes:

=====

**APPENDIX E**

**FIELD NOTES**

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# Revet Environmental & Analytical Laboratories

15 Belmont Street, Worcester, Massachusetts 01605  
 Phone: (508) 753-3738 • Fax: (508) 754-7056

Company Name

Opportunational  
 Technologies  
 Corporation

Project Number

1315-113

Company Address

4100 New Loop 410, Suite 230  
 San Antonio, TX 78229-4753

Phone: (710) 731-0000

Fax: (210) 731-0008

Project Name / Location

WORCESTER AIR NATIONAL GUARD STATION

Project Manager

JOHN MORRIS

Revet Acct. #

SITE MANAGER: EARL PARKER

# CHAIN OF CUSTODY RECORD

Sheet \_\_\_ of \_\_\_

Sampling Date	Time	Client Sample I.D.	Container Codes: P = Plastic V = Vial C = Cube G = Glass A = Amber Glass B = Bacteria Container O = Other	Containers (number / type)	Matrix / Source	Method Preserve (number of containers)					Solubles - FH	Sampling Date	Time	Analysis Requested (with method number)	MW = Monitoring Well L = Lake/Pond/Ocean R = River/Stream X1 = Other	RO = Runoff I = Influent S = Soil X2 = Other	W = Well DW = Drinking Water B = Bottom Sediment
						Umpres.	Ice	Nitric	Sulfuric	HCl							
11/16	1000	01-001 BH Int 1		2 BEAMS S.			✓							0740 2270 42.1 VCC, SVOC, PCB, TPH, PPM			
11/16	1120	01-002 BH Int 1		2 BEAMS S			✓							" " " " " "			
11/16	1315	01-003 BH Int 1		2 BEAMS S			✓							" " " " " "			
11/16	1430	01-003 BH Int 2		2 BEAMS S			✓							" " " " " "			
11/16	1515	01-012 BH Int 1		2 BEAMS S			✓							" " " " " "			
—	—	TRIP BEAK A		1 40ml WEA										" " " " " "			

Sampler's Signature	Affiliation	Date	Time	Number	Transfers Relinquished By	Transfers Accepted By	Date	Time
<i>Earl Parker</i>	SITE MANAGER	11/16/13	1700	1	<i>Earl Parker</i>	<i>Earl Parker</i>	11/16/13	17:25
				2				
				3				

Additional Comments:

Turn-Around-Time:  Normal  Rush  Due Date \_\_\_\_\_ (specify due date, surcharges may apply)

# Revet Environmental & Analytical Laboratories

15 Belmont Street, Worcester, Massachusetts 01605  
 Phone: (508) 753-3738 • Fax: (508) 754-7056

Company Name

OPERATIONAL

Project Number

1315-113

OPTTECH

TECHNOLOGIES CORPORATION

P.O. Number

Company Address

4100 NW Loop 410 Suite 230  
 San Antonio TX 78229-4253

Phone:

(210) 731-0000

Fax:

(210) 731-0008

Project Name / Location

WORCESTER AIR NATIONAL GUARD STATION

Project Manager

JOHN MORRIS

Revet Acct. #

SITE MANAGER EARL PARKER

Sampling Date	Time	Client Sample I.D.	Container Codes: P = Plastic V = Vial C = Cube G = Glass A = Amber Glass B = Bacera Container O = Other	Containers (number / type)	Matrix / Source	Method Preserve (number of containers)						Solubles - FH	MW - Monitoring Well L = Lake/Pond/Ocean R = River/Stream X1 = Other	RO = Runoff I = Inflow S = Soil	O = Outfall E = Effluent SG = Sludge X2 = Other	W = Well DW = Drinking Water B = Bottom Sediment	
						Unpres.	Ice	Nitric	Sulfuric	HCl	Other						
11/17/83	0810	01-012 BH, Int 2	2-Brass S.	2-Brass S.		✓							SW8240	8270	418.1	5020	
11/17/83	0840	Field Blank #1	6-Bottle Set	6-Bottle Set		✓		PPM TPH VOC									
11/17/83	0850	Equipment Blank #1	6-Bottle Set	6-Bottle Set		✓		PPM TPH VOC									
11/17/83	1000	01-014 BH, Int 1	2-Brass S.	2-Brass S.		✓											
11/17/83	1015	01-013 BH, Int 1	2-Brass S.	2-Brass S.		✓											
11/17/83	1035	01-006 BH, Int 1	2-Brass S.	2-Brass S.		✓											
11/17/83	1045	01-006 BH, Int 2	2-Brass S.	2-Brass S.		✓											
11/17/83	1110	01-005 BH, Int 1	2-Brass S.	2-Brass S.		✓											
11/17/83	1215	01-010 BH, Int 1	2-Brass S.	2-Brass S.		✓											
11/17/83	1240	01-005 BH, Int 2	2-Brass S.	2-Brass S.		✓											

Analysis Requested (with method number)

VOC, SVOC, TPH, PCB, PPM (B.M.M.)

Sampler's Signature

*Earl Parker*

Affiliation

Site Manager

Date

11/17/83

Number

1

Transfers Relinquished By

*Earl Parker*

Transfers Accepted By

*John Morris*

Date

11/17/83

Time

10 10

Additional Comments:

Turn-Around-Time:  Normal  Rush  Due Date

(specify due date, surcharges may apply)

# CHAIN OF CUSTODY RECORD

Sheet 1 of 2



# Revet Environmental & Analytical Laboratories

15 Belmont Street, Worcester, Massachusetts 01605  
 Phone: (508) 753-3738 • Fax: (508) 754-7056

Company Name: **OPTTECH**  
 Project Number: **1315-113**  
 P.O. Number: **MA**

Company Address:  
 4100 RAO Loop 410 Suite 230  
 San Antonio, Tx 78229-4753

Phone: (710) 731-0000  
 Fax: (710) 731-0008

# CHAIN OF CUSTODY RECORD

Sheet **1** of **2**

Project Name / Location:  
**Worcester Air National Guard Station**

Project Manager: **John Morris**  
 Site Manager: **EARR PRATER**  
 Revet Acct. #:

Sampling Date	Time	Client Sample I.D.	Container Codes:		Matrix / Source	Method Preserve (number of containers)				Soluble - FH	MW - Monitoring Well L - Lake/Pond/Ocean R - River/Stream X1 = Other	MATRIX / SOURCE CODES				Analysis Requested (with method number)
			P = Plastic C = Cube A = Amber Glass B = Bacteria Container O = Other	V = Vial G = Glass		Uprts.	Te	Nitric	Sulfuric			HCl	Other	RO = Runoff I = Influent S = Soil X2 = Other	O = Outfall E = Effluent SG = Sludge	
11/17/03	1145	01-008 BH Int 1	2	Glass S.		✓									SW8240 8270 418.1 8080 VOC SVOC TPH PCB PPM (B.M.M.B.)	
11/17/03	1320	01-004 BH Int 1	2	Glass S.		✓									" " " " " "	
11/17/03	1410	01-004 BH Int 2	2	Glass S.		✓									" " " " " "	
11/17/03	1420	Field Blank # 2	6	Bottle Set		✓	PPH	TPH	VOC						" " " " " "	
11/17/03	1430	Equipment Blank # 2	6	Bottle Set		✓	PPH	TPH	VOC						" " " " " "	
-	-	TRIP Blank B	40 ml	VOA		✓									Volatile Analysis	
-	-	TRIP Blank C	40 ml	VOA		✓									Volatile Analysis	

Samplers' Signature	Affiliation	Date	Time	Number	Transfers Relinquished By	Transfers Accepted By	Date	Time
<i>[Signature]</i>	Site Manager	11/17		1	<i>[Signature]</i>	<i>[Signature]</i>	11/17	13:10
				2				
				3				

Additional Comments:  
 (508) 460-7600 PHONE  
 (508) 460-7777 FAX

Turn-Around-Time:  Normal  Rush  Due Date \_\_\_\_\_ (specify due date, surcharges may apply)

# Revet Environmental & Analytical Laboratories

15 Belmont Street, Worcester, Massachusetts 01605  
 Phone: (508) 753-3738 • Fax: (508) 754-7056

Company Name: **OPTTECH**  
 Operational Technologies Corporation  
 Project Number: 1315-113  
 P.O. Number: [blank]  
 Phone: (210) 731-0000  
 Fax: (210) 731-0008  
 Company Address: 4100 N. Loop 410 Suite 230  
 San Antonio TX 78279-4753

# CHAIN OF CUSTODY RECORD

Sheet 1 of 2

Project Name / Location: **Worcester Air National Guard Station**  
 Project Manager: **John Manner Morris**  
 Site Manager: **Earl E Parker**  
 Revet Acct. #: [blank]

Sampling Date	Time	Client Sample I.D.	Containers (number / type)	Matrix / Source	Method Preserve (number of containers)					Solubles - FH	MHW - Monitoring Well L - Lake/Pond/Ocean R - River/Stream X1 - Other	RO - Runoff I - Influent S - Soil X2 - Other	O = Outfall E = Effluent SG = Sludge	W = Well DW = Drinking Water B = Bottom Sediment
					Unpres.	Ice	Nitric	Sulfuric	HCl					
11/18/93	0730	01-015 BH, Int 1	2 - Brass S		✓									
11/18/93	0945	01-015 BH, Field Duplicate	2 - Brass S		✓									
11/18/93	1000	01-015 BH, MS/MSD	2 - Brass S		✓									
11/18/93	1030	01-011 BH, Int 1	2 - Brass S		✓									
11/18/93	1050	01-011 BH, Field Duplicate	2 - Brass S		✓									
11/18/93	1100	01-009 BH, Int 1	2 - Brass S		✓									
11/18/93	1120	01-007 BH, Int 1	2 - Brass S		✓									
11/18/93	1130	01-007 BH, Field Duplicate	2 - Brass S		✓									
11/18/93	1145	01-007 BH, MS/MSD	2 - Brass S		✓									
11/18/93	1200	01-007 BH, Int 2	2 - Brass S		✓									

Number	Transfers Relinquished By	Transfers Accepted By	Date	Time
1	Earl E Parker	R. K. [Signature]	11/18/93	1:55
2				
3				

Turn-Around-Time:  Normal  Rush  Due Date: \_\_\_\_\_  
 (specify due date, surcharges may apply)

**Revet Environmental & Analytical Laboratories**  
 15 Belmont Street, Worcester, Massachusetts 01605  
 Phone: (508) 753-3738 • Fax: (508) 754-7056

Company Name: OPERATIONAL TECHNOLOGIES  
 Company Address: 4100 Lowell Loop #16, Suite 230  
 Lowell, MA 01850  
 Phone: (710) 731-0000  
 Fax: (710) 731-0008

**CHAIN OF CUSTODY RECORD**

Sheet 2 of 2

Project Name / Location: Worcester Air National Guard Station  
 Project Manager: John Morris  
 Sub Manager: Encl. Proker

Method Preserve (number of containers):  
 Unpres.    Ie    Nitric    Sulfuric    HCl    Other  
 500    200    200    200    200    200

Container Codes:  
 P = Plastic    V = Vial  
 C = Cube    G = Glass  
 A = Amber Glass  
 B = Bacteria Container  
 O = Other

Sampling	Date	Time	Client Sample I.D.	Containers (number / type)	Matrix / Source	Method Preserve (number of containers)	Soluble - FR
	11/18/93	1245	EQUIPMENT BUNK #3	6 - Bottle St		500 200	
	11/18/93	1300	FIELD BUNK #3	6 - Bottle St		500 200	
	-	-	TRIP BUNK D	40 ml VOA		200	

MATRIX / SOURCE CODES  
 MW = Monitoring Well    RO = Runoff    O = Outfall    W = Well    LF = Landfill  
 L = Lake/Pond/Ocean    I = Influent    E = Effluent    DW = Drinking Water  
 R = River/Stream    S = Soil    SG = Sludge    B = Bottom Sediment  
 X1 = Other    X2 = Other

Analysis Requested (with method number)	
Date	Time
5/20/94	8270
VOC	SVOC
	PCB
	TRIA
	418.1
	EDM / BMB

Sampler's Signature	Affiliation	Date	Time	Transfers Relinquished By	Transfers Accepted By	Date	Time
<i>Carol E. Proker</i>	SITE / Manager	11/18		<i>Carol E. Proker</i>	<i>R. Proker</i>	11/18	1300
Additional Comments:							
Turn-Around-Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush				Due Date: _____			

(Specify due date, surcharges may apply)

EARL PARKER

OPTTECH

4100 NWY LOOP #10

SUITE 230, SA TX

731-131-0000

WORCESTER ANGTS

1315-113

SUN	MON	TUE	WED	THU	FRI
<b>Fly in LA GUAR</b> Go to Roslyn	Pick up Supplies at Roslyn ANG'S Drive to <u>Worcester</u> Stake drill locations, Lab.	BEGIN Drilling 01-001 BH 01-002 BH 01-003 BH First Internal 01-012 BH	Drilling 01-012 BH Int 2 01-014 BH 01-013 BH 01-006 BH 01-005 BH 01-004 BH 01-010 BH FB & EB #1 FB & EB #2	Drilling 01-015 BH 01-011 BH 01-009 BH 01-007 BH 01-008 BH FB & EB #3	Move back to <u>New York.</u> Deposit Supplies at Roslyn Fly back to San Antonio
14	15	16	17	18	19

DAY 1 14 Nov 93

0830 ARRIVE at Airport.

0930 DEPART SA

1545 Arrive at LA Guardia Airport  
Go to Rental Agency for  
vehicles.

1900 Depart Rental Agency. Go  
to Roslyn.

2000 Arrive at Roslyn Claremont  
Hotel.



Evel E. [Signature]

11/14/93

11.5 hrs

Day 2 Mon 15 Nov 93

0630 DEPART HOTEL  
Go to Roslyn ANG6 for Supplies.

Meet w/ CPT Johnson and  
pick up supplies at Roslyn ANG6.

0730 RETURN to Hotel  
Check out and depart for  
Worcester.

1200 Arrive in Worcester. Drive  
by Worcester ANG6. Check  
into Hotel to check on  
supplies.

1330 Arrive back at Worcester ANG6.  
Meet LTC Bellino. Introduces  
John Richardson - Berms ANG6  
Pete McGinnis - Worcester ANG6  
Walk site. Look over drilling  
locations.

1400 Mark Zork from TDS (Drillers)

Arrives and meets w/ us.  
looks over site and checks  
California Split-Spoon sampler  
for compatibility. Says it  
looks fine.

During the site walk, power lines are  
above the back fence line. These  
lines will prevent the driller from  
setting up right along the fence.

The Power lines ARE NOT ACTIVE.

Two of the three fence line borings  
will be hand augered.

All borings are marked and Sgt  
Pete McGinnis has given conditional  
clearance for digging. No underground  
utilities or tanks were found or  
identified near bore holes.

1550 EP, JA and JB depart  
Sik. EP and JA go to  
REVERT Lab for meeting

DAY 3 TUESDAY Nov 16. 93

1610 EP and JA arrive at REUET Lab. Meet with Edward Taylor - Manager David Toupin - Lab Tech. - All parameters look fine. Receive Ice Chest w/ all sample bottles.

1700 Go to Store for D-I Water, Aluminum foil, and Baggies.

1820 Return to Hotel

1930 Begin to Prepare sample packets w/ labels, C-O-C, and teflon seals.

2150 Set up PID to familiarize with machine and charge battery.

2230 Finish Sampling plan.

0745 E.P. and J.B. Arrive at the Site. Begin to Set up on 01-001 BH where activities will begin.

0845 Drillers arrive at the Site. Walk driller through the site and identify all drilling locations. After inspection of the site. The driller will attempt to move the rig under the dead power lines to drill next to the fence.

Begins to move rig to 01-001 BH.

0910 Bill Hedberg Arrives from HAZWRAP. EP introduces to Optech group and briefs on the situation.

0915 All set up. Preparing to begin.

Earl Edwards 11/16/93 (14 hrs)



0915

SAFETY BRIEFING

SSO: Earl Parker OPTech

Independent Safety Officer: Joey Arriaga

Joe Byrd - OPTech

Pete Neusham - TDS

Scott Lombard - TDS

Bill Hedberg - HAZWRAP

Initial Safety Briefing

- Review Site History, Spill History
- Site Environment, Potential Hazards
- Safety considerations, Emergency Procedures. Authorized Driller to

Stop work if safety violation occurs.

WEATHER: Clear, Cool, Hi - low 60's  
Winds out of the East 5-10 mph.

0930

SET UP ON 01-001 BH

CALIBRATE PID (100 PPM Isobutylene)

BEGAN DRILLING 01-001 BH

0940

Interval 1

0.5 - 2.0' BUS

PID STP - 19

20

15

0.5 - 1.0' BUS

1.0' - 1.5' BUS

1.5' - 2.0' BUS

PID - Opening 0.5 PPM

Soil is Coarse to Medium Grained  
Quartz Sand w/ abundant rounded  
gravel.

PID Headspace 1.6 PPM

Bedrock at 2.0' BUS

Cannot take another interval  
at this location

1010 hrs. Move off 01-001 BH.

1040 hrs. Move to 01-002 BH

1100 begin drilling 01-002 BH

Bill Locker & NGRC / CEVE

ARRIVES on site. EP gives

briefing. 01-002 BH approved

AGAIN by Sgt McGinnis.

(1100)

1110 01-002 BH

Interval 1 0.5 - 2.0' BLS

SPT - 15

29

30

0.5 - 1.0

1.0' - 1.5'

1.5' - 2.0'

P10 opening: 0.6 PPM

Soil is coarse to medium grained sand and quartz. Abundant rounded to angular gravel. Abundant large blocks of granite.

Headspace: 1.2 PPM

01-002 BH

Interval 2 2.5 - 2.75' BLS

SPT = 31

50 2.0 - 2.5

2.5 - 2.75'

No recovery for analytical work

P10 - 0.5 spoon open

15 min headspace - 1.0 PPM

(1200)

1130 Complete Work at 01-002 BH

Moving to 01-003 BH

(1230)

1200

Shut down for lunch  
J.A goes to Lab for BTEX standard and Get GC from Hotel.

(1315)

1245 BEGIN to DRILL AGAIN AT

01-003 BH

Interval 1 0.5 - 1.5' BLS

SPT - 24

36

41

0.5 - 1.0' BLS

1.0' - 1.5' BLS

1.5' - 2.0' BLS

No recovery. Move 1' East

8 - 0.5 - 1.0' BLS

10 1.5 - 2.0' BLS

23 2.0' - 2.5' BLS

P10 on open 62.7 PPM

Background  $\approx$  60.0 from roofing work on Bldg 1.

Wind shifts so I recalibrate.

15 min headspace 5.5 PPM

(Background 4.6)

(1315)

1245 Surveyors Joe Tupper Arrives

At Site to visit. Gets briefing on survey work and gone.

Int 2 SPT  
 0 Int 2.0 - 3.5' BLS  
 29 - 2.0 - 2.5' BLS  
 27 2.5 - 3.0' BLS  
 42 3.0 - 3.5' BLS

Soil is coarse to fine sand. Mostly fine w/ some silt. Poorly sorted w/ few gravel particles. Re-calibrate PID No recovery for Headspace.

Int 3 SPT  
 52 3.5' - 5.0' BLS  
 54 3.5 - 4.0'  
 35 4.0 - 4.5'  
 35 4.5 - 5.0'

(1610) PID 1.5 PPM  
 1540 Drillers shutdown.  
 Move off hole. Remain over boring.  
 (1625) Drillers depart site

\* ALL TIMES ARE 30 MIN  
 SLOW \*

1640 Bill Caddens departs site.

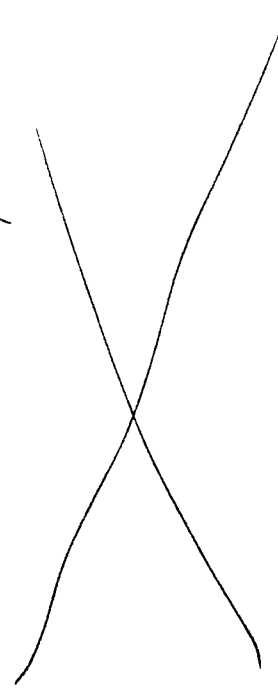
Breaking down Site.  
 EP prepares chain-of-custody for daily sampling.  
 1700 Pack up supplies. EP and JB depart site for REVET LABS.

1715 Arrive at LAB.  
 Turn in Samples.  
 Obtain additional Trip Blank and ice chest.

1740 Arrive back at hotel.

1930 Work on sampling plan for tomorrow (Nov 17)

2230 Finish for the day



S. C. P. 1. 11/16/92 (14ws)

01-003 BH

Interval 2

SPT	18	2.0' - 3.5' BLS
	24	2.0 - 2.5 BLS
	20	2.5 - 3.0 BLS
		3.0 - 3.5' BLS

PI0 - 4.2 PPM

Dark Brown medium to coarse sand w/ abundant Angular to subangular gravel. Some large Angular rocks. Recalibrating PI0 to 100 PPM Isobutylene

Interval 3

SPT	28	3.5' - 4.0' BLS	3.5' - 5.0' BLS
	31	4.0' - 4.5' BLS	
	43	4.5' - 5.0' BLS	
PI0	2.3 PPM		

No Recovery

Drilling to 7.0' BLS

Interval 4

SPT	15*	7.0' - 7.5' BLS	7.0' - 8.5' BLS
	-	7.5 - 8.0' BLS	
	-	8.0 - 8.5' BLS	

Spoon began to "bounce" from the hammer blows.

Penetrated .75' w/ Spoon

INTERVAL 2 for Analytical Analysis

7.0 - 7.75' BLS

PI0 17.5 PPM

Soil is medium sand, light brown to brown. finer sand w/ some silt. Smaller and fewer pebbles.

No fill material present. Slightly moist. Not enough for PI0 Headspace.

(1510)

1440 finished at 07-003 BH

Drillers could not penetrate with Augers. Successful at obtaining a sample prior to auger refusal. Moving to 01-0126H

(1530)

1500 BEGIN AT 01-012 BH

Interval 1

0.5' - 1.5' BLS

SPT	24	0.5' - 1.0'
	28	1.0' - 1.5'
	41	1.5' - 2.0'

PI0 - Opening : 3.5 PPM

WEDNESDAY DAY 4 Nov 17 93

0630 EJ and JB arrive at site.  
begin to set up.

0700 Drillers arrive at site.  
From Bill Hedberg (Hazard) arrives  
at site. J.A. goes to store  
for supplies.

0710 Safety Briefing  
EML Parker 550 } optech  
Joe Byrd  
Pete Newsham } TDS  
Scott Lombard  
Bill Hedberg

Weather Clear and Cool. Temp  $\approx 40^{\circ}\text{F}$   
Hi today mid 50's. Rain in  
the forecast for late afternoon.  
Winds out of the southwest at  
5 to 10 mph.

0720 Calibrate PID (100 ppm [subtle])

0730 Drillers begin in 01-012BH hole  
from yesterday. Will drill to bedrock

0735 Bedrock encountered at 7.5' BCS  
Will grout hole and move 2' towards  
fence and drill to 5.5' BCS for  
2nd Interval.

0945 Start drilling 01-012BH at  
next hole for 2nd interval.

0950 JA goes back to hole for Calibration  
for GC.

0800 begin Sampling 01-012BH Int 2  
5.5 - 7.0

STP 12 - 5.5 - 6.0' BCS

10 6.0 - 6.5' BCS

17 6.5 - 7.0' BCS

P10 on opening: 5.7 PPM

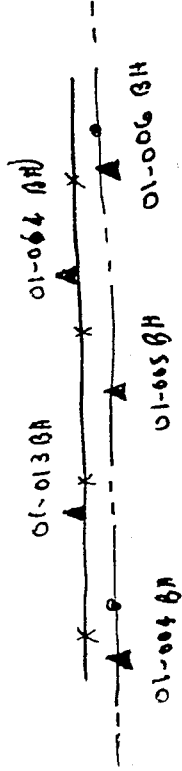
Soil is a brown fine to medium grained  
Sandy fill. few gravels, Angular to  
subrounded. Soils of the sample is black,  
moist color with slight odor.  
U.S.G.P.

0830 Drillers move to clean Augers  
Preparing for a Reusable and Field  
Blank. Field Blank #1, Equipment Blank #1.

0920 Drillers wait to get fuel for  
generator to steam clean Augers.  
JA and JB are preparing to  
get two hand auger samples.

0930 Drillers begin Steam Cleaning  
JA and JB move to hand auger  
two additional holes along the  
back fence line.

Two additional hand auger locations  
designated (01-013BH and 01-014BH)  
will be installed along the back  
fence line outside the ANGS boundary.  
Soil samples will be taken from .5  
to 1.5 BCS at each location.



Bill Ludger and Bill Hedberg depart S.F.  
for Barnes ANGS. will return  $\approx$  1500 hrs.

1000 JA and JB obtain 01-014BH  
at 0.5' - 1.5' BCS  
PID 1.5 PPM

Soil is a coarse sand with gravel  
and large angular cobbles.  
Mostly coarse sand, light brown.  
Hand augering difficult after 1.0' BCS  
due to gravel and cobble fill.

Head space 1.8 PPM  
1015 Obtain 01-013BH at  
0.5' - 1.5' BCS

PID 2.1 PPM

Soil is dark brown, coarse sand with  
gravel and large angular cobbles. Again,  
drilling with hand auger difficult after  
1.0' BCS due to gravel and cobbles.  
Head space 1.8 PPM

1030 Drillers begin at 01-006BH

1030 01-006 BH 0.5 - 2.0  
 SPT 28 - 0.5 - 1.0 BLS  
 31 1.0' - 1.5' BLS  
 39 1.5' - 2.0' BLS

Sig Rock in spoon. No recovery.  
 Drilling down to 2.0' to resample.

Gravel interval 2.0' - 4.0' BLS.  
 Moving to resample. Will drill  
 and sample at 4.0

Interval 1 4.0 - 5.5' BLS  
 SPT 4 - 4.0 - 4.5' BLS  
 16 4.5' - 5.0' BLS  
 21 5.0' - 5.5' BLS  
 PID 1.9 PPM

Soil is dark, moist and medium  
 sand with many large and broken  
 rock fragments. Angular bolder and  
 gravel particles.

Headspace: 2.2 PPM  
 Drilling to 7.0' to sample

1045  
 Interval 2 7.0' - 8.5' BLS  
 SPT - 8 - 7.0 - 7.5' BLS  
 16\* 7.5 - 8.0' BLS  
 - 8.0' - 8.5' BLS

\* Spoon began to bounce off the  
 bottom. Would not proceed after  
 the first 16 blows. 50 blows  
 to formal refusal.

PID - 8.0 PPM

Soil, fine to medium dark brown  
 sand. Bottom interval is  
 wet. Top interval is very  
 moist. Many small angular  
 gravel and small cobble fragments.

No soil recovery for field GC  
 analysis.

1100 Moving off 01-006 BH to  
 01-005 BH. JA and JB  
 moving to obtain hand augers  
 at 01-008 BH. Difficulty penetrating  
 11.0' 1 foot Enc. water.

Recalibrate PID (100 PPM [Substrate])  
Small from Roofing is blowing our  
way again today.

1110 BEGIN drilling at 01-005 BH

SPT 7 - 0.5 - 1.0' BLS  
14 1.0 - 1.5' BLS  
17 1.5 - 2.0' BLS

PID 2.3 PPM

Soil is light brown mud to coarse  
sand w/ gravel. Poorly sorted with  
fine sand and some gravel particles.

Headspace: 1.4 PPM

Interval 5.0' - 6.5'  
SPT 4 - 5.0' - 5.5'  
4 - 5.5' - 7.0' 6.0'  
7 - ~~7.0' - 8.5'~~  
6.0' - 7.5'

PID: 1.8 PPM

Large Root in sampler. Minimum  
recovery. No soil to analyze.

Interval not used for analysis  
Drilling to 7.0' BLS.

Encounter Gravel interval at 6.5' BLS.

Encountered Bedrock at 8.0' BLS.  
Will move over 2 feet and drill  
for second interval.

1210 Move over to drill to 6.0' BLS  
to obtain last sample.

1215 J.A. obtains 01-0108H hand  
Auger.  
PID 1.5 PPM

Very moist to wet soil. Very organic  
with roots and weed chips. Bedrock crops  
out all over. Soil is used to fine  
grained sand w/ abundant gravel and  
cobble. Very poorly sorted.

Headspace 1.3 PPM



1230 Drill Interval 2 at 01-005 BH.  
SPT - 3 - 6.0-6.5' BCS  
4 - 6.5-7.0' BCS  
SD\* - 7.0-7.5' BCS

Drill pounded last interval to  
formal refusal at 7.6' BCS. Brought  
Auger to bedrock. Bounced in hole  
at 50' SPT.

PI0 - 1.7 PPM

Soil is wet at bottom, very moist  
at top. Dark brown, medium sand  
with angular gravel and granite  
fragments.

Headspace: 2.7 PPM.

1240 Begin to grout 01-005 BH.

Moving to 01-004 BH

Starts to rain. Flow sample  
prep area into Bldg 2. (Shipl.)  
Recalibrate PID (100 PPM (Subtlelow))

1315 Begin to drill at 01-004 BH

1300 Interval 1 0.5-2.0' BCS

SPT - 16 - 0.5-1.0' BCS  
27 - 1.0-1.5' BCS  
29 - 1.5-2.0' BCS

PI0 - 3.1 PPM

Soil is moist and cohesive. Medium to  
fine sand with abundant angular gravel.

Headspace: 1.6 PPM

Interval 2 5.0-6.5' BCS

SPT - 10 - 5.0-5.5' BCS  
18 5.5-6.0' BCS  
14 6.0-6.5' BCS

PI0: 1.7 PPM

No Recovery. Will Drill to  
7.0 and drill third interval. Rock  
in the spoon. Gravel interval at  
4.5' BCS. During Augering to 5.0.

Interval 3 7.0-8.5' BCS  
Encountered bedrock at 7.5' BCS.

Spoon could not be driven.

Moving over 1 foot and drill to 5.0'

1400 Interval 2 for 01-004 BH  
5.0 - 6.5 (or bedrock)

SPT 5 5.0 - 5.5' BLS  
8\* 5.5 - 6.0' FLS  
- 6.0' - 6.5' BLS

\* Encountered bedrock - Then 50 SPT  
blows. PID - 1.3 RPM

Soil is moist, brown, slightly cohesive  
Medium to fine sand with wood  
fragments and some black fill. Medium  
gravel, some cobbles. voidspace 0.8 PPM

1420 Rain coming down harder.  
JA and JB take Field Blank #2.  
And Equipment Blank #2.

1430 Drillers complete drilling. Beginning  
to grout 01-004 BH.

Total Drilling  
65.5' Total depth drill  
1 hour Steam Clean Time.

1445 BEGIN SITE MAINTENANCE.

- Drillers Steam cleaning Aggs.  
- JA and JB are Arranging  
equipment.

1530 - Drillers Arranging drums in  
the storage area. Consolidating  
drums.

1550 Bill Coddar and Bill Hedberg return  
to site.

Drillers depart site. Will return  
in AM to complete cement  
work at site.

1630 EP finishes Chain of Custody and  
samples are loaded in the van.  
JA and JB inventory equipment.  
Rain lets up finally.

1640 EP and JB depart site for  
REUET LABS.

JA returns to hotel.

1700 Depart Cab for Hotel

13.5 hrs

EO S. J. 11/17/93

THURSDAY DAY 5 Nov 18, 93

14 0710 EP and JB arrive at site. Begin to set up clean and sample pump area for hand augers.

0730 Steve Bliss - TDS arrives and begins to cement coreholes.

0755 Bill Loader arrives at the site.

0810 Joe Tober and Everett arrive from Tupper Survey. Begin to set up for survey.

0830 U.A. Arrives at the site. Set up for hand augers

0835 Safety Briefing

Earl Parker

Joe Byrd

Jerry Arnsperger

Weather: Mostly Clear, winds SW,  
Temp. to 40s: High low 50s.

Preparing to finish sampling. J.B will hand auger off the station. J.A will clean and EP will prep and describe samples. Steve Bliss finishes and departs site. Begin sampling.

0930 Sample 01-015BH  
Int 0.0-1.0' BCS  
P10 = 1.5 PPM

Create sampling point 15 on fence line. Soil is sandy fill material. Many gravel.

Headspa: 1.0 PPM  
0945 Sample 01-015 BH Field Duplicate  
Int 0.0-1.0' BCS

P10 = 0.8 PPM

Field duplicate taken 1 inch from sample location at the same interval. Sandy fill material. Unable to proceed deeper.

~~Headspa: 2.8 PPM of No headspa taken~~

1010 Sample 01-015 BH MS/MSD

Int 0.0'-1.0' BCS

P10: 0.5 PPM

1015 Sample 01-011 BH

0.0 - 1.0' BLS

PID = 0.8 PPM

Headspace = 2.8 PPM

1040 Sample 01-011 BH

0.0 - 1.0' BLS FIELD DUPLICATE

PID = 2.5 PPM

Sandy fill material. Medium sand

with many gravel particles. Slope

is steep w/ many boulders exposed.

Could not penetrate below 1.0 for

2<sup>nd</sup> Interval at 01-011BH. Enc. Bedrock.

1100 Sample 01-009 BH Int 1.

0.0' - 1.0' BLS

PID: 0.2 PPM

Very moist to wet sandy soil. Water

at 6 inches BLS. No odor present.

1110 Sample 01-007 BH 0.0' - 1.0' BLS

PID: 0.5 PPM

Moved to 3 feet above bottom of

fill slope. Sandy, medium sand with

alot of gravel.

Headspace: 0.3 PPM

Bill Ladder Departs site. Gone for trip.

1130 Sample 01-007 BH 0.0' - 0.0' BLS

PID: 0.3 PPM FIELD DUPLICATE

1145 Sample 01-007 BH 0.0' - 1.0' BLS

PID: 0.3 PPM MS/MSD

1200 Sample 01-007 BH Interval 2

PID: 0.0 PPM 1.0' - 2.0' BLS

Sampled to the Bedrock at 2.0' BLS

1215 ~~of~~ Unable to proceed with

wand niger any further.

LAST HAND AUGER.

Headspace: 0.0 PPM

1215 Finished sampling, BEGINS to break

down decon and sample area.

Prepare to take Field Blank #3 and

Equipment Blank #3.

1245 JA and JB take Equipment Blank #3

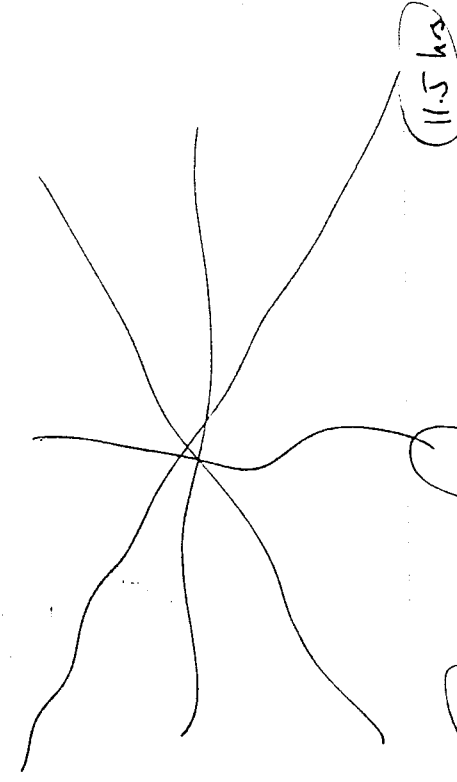
1300 JA and JB take FIELD Blank #3  
 EP begins to pack samples and prepare Chain of Custody.  
 JB does clean-up around the sites.  
 JA inventories and packs equipment  
 Surveyors complete work at the site. Depart Station.  
 1350 DEPART SITE <sup>9</sup> Finished w/ Field activities At Webster MUS.  
 E.P. and J.B and J.A. go to REWET to turn in samples.  
 1430 Return to Hotel  
 Prepare for HRS info and going to MADEP for information  
 1530 JA and JB go to Library for HRS population info.

EP goes to MADEP for info left by Mary Gardner.

1620 back at hotel.  
 Pack up rental equipment for Return.  
 J.A. must shoot remaining samples.

1730 E.P., J.A. and JB return to hotel library to obtain population info for HRS.

1830 Depart Library.  
 - Continue to box up rental equipment and pack up.



11.5 hrs  
 Earl E. Lantz 11/18/93

FRIDAY DAY 6 Nov 19, 1993

Soil Descriptions from GC Samples

01-001 BH 0.5'-2.0' BCS

Poorly sorted fill material. Mostly  
A medium to coarse sand with silt.  
Mostly brown silt (about 50% volume)  
Some clay particles present. Slightly  
cloudy after 5 minutes

01-002 BH 0.5'-2.0' BCS

Poorly sorted fill material. More  
grey with more silt. (about 10%).  
Mostly coarse to medium sand. Little  
clay sized particles. Clearing after  
5 minutes.

01-003 BH 0.5'-1.5' BCS

Poorly sorted coarse sand. Some  
fine sand with silt. Brown.  
Silt (10%) Some clay particles. Cloudy  
after 5 minutes.

01-003 BH 2.0'-3.5' BCS

Poorly sorted coarse sand. More  
gray and more silty. (20%).  
Very little clay particles.

01-012 BH 2.0-2.75' BCS

Poorly sorted coarse sand. Brown  
with silt (20%). Very little clay  
particles. Clearing after 3 minutes.

01-012 BH 0.5'-1.5' BCS

Medium to fine sand. Grey with  
abundant silt and clay. Mostly  
fine sand and silt. (50% silt)  
with abundant clay.

INTERVAL 3

Coarse sand, poorly sorted with  
silt. (20%). Clear after 2 min.  
Very very little clay.

01-004 Int 1

Coarse sand with some silt. Poorly  
sorted fill material.

01-005 Int 1

Coarse sand with silt.

01-005 Int 2

Grey fine sand and silt  
with abundant clay

01-006 BH

4.0' - 5.5' BCS

Brown poorly sorted coarse sand  
with silt (20%).

01-015 BH

0.0 - 1.0' BCS

Mostly med to fine sand with  
silt. Clay also abundant

01-011 BH

0.0 - 1.0' BCS

Mostly fine to med sand with  
abundant silt and clay.

01-009 BH

0.5 - 1.0' BCS

Medium sand. Silt and clay present.

01-007 BH

1.0' - 2.0' BCS

Medium sand. Silt and clay.

01-007 BH

0.0' - 1.0' BCS

Medium to coarse sand with  
some silt.

01-013 BH

0.5 - 1.5' BCS

Medium sand, some silt and  
clay.

01-014 BH

0.0 - 0.0' BCS

Very poorly sorted medium sand

01-012 BH

5.5 - 7.0'

Black to brown coarse sand with  
staining on glass. Petroleum odor  
in vial

01-010 BH

Int 1

Dark brown medium to fine sand  
with silt and clay.

JA departs Worcester 0730

EP and JB depnt Worcester 0900

Drive to LaGuardia Airport in New  
York to return to SA.

~~Earl Edwards 11/19/93~~

INVESTIGATION DERIVED WASTES  
Drum Inventory

8 Drums

- \* DECON WATER
- \* DECON WATER
- \* 01-003 BH
- \* 01-004 BH
- \* 01-002 BH
- \* 01-006 BH
- \* 01-001 BH
- 01-012 BH
- \* 01-005 BH

\* DRUM 01-002 BH is  
this labeled; 01-002BH is  
01-012 BH

\* DRUM 01-012 BH is  
this labeled; 01-012BH is  
01-002 BH



Lub (508) 753-3738



"Rite in the Rain"  
ALL-WEATHER WRITING PAPER ©

Name JERRY ARRIAGA

Address OPTECH

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Project Worcester ANG's  
1315-113

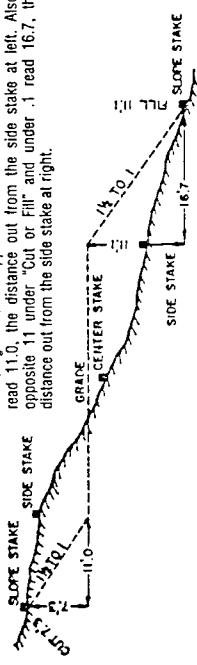
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**DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING**

Roadway of any Width. Side Slopes 1 1/2 to 1.  
In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut or Fill	Distance out from Side or Shoulder Stake										Cut or Fill
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40

CONTENTS

ENO.	REFERENCE	DATE
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SUNDAY / Nov 14 / 1993

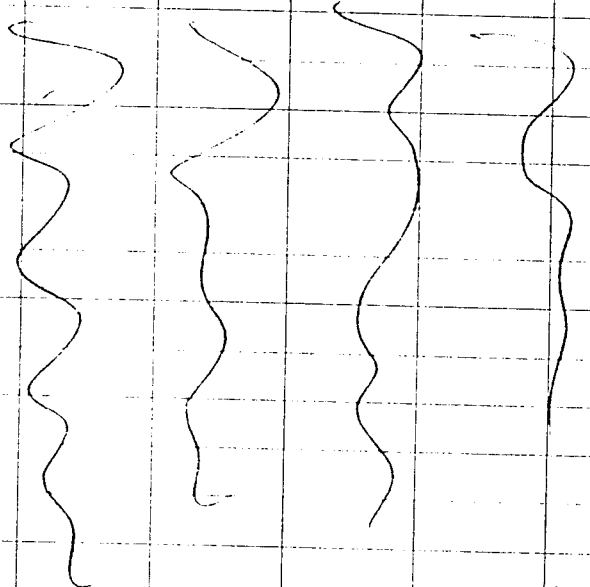
09:00 Arrive to Airport

09:30 Depart to New York

15:50 Arrive to New York.  
Went to Dollar Rent a Car  
waiting for van.

JA  
~~19:50~~

20:10 Arrive at Hotel.



JA

JA

JA

JA

110 hrs

MONDAY Nov 15 1993

06:30 Left Clairmont Hotel to  
Roslyn ANGIS to pickup  
box. Met with captain Jolsson.

07:40 Went back to Hotel to  
check out.

08:30 Left to Worcester

12:00 Arrive at Worcester,  
went to Base, and then  
to Hotel.

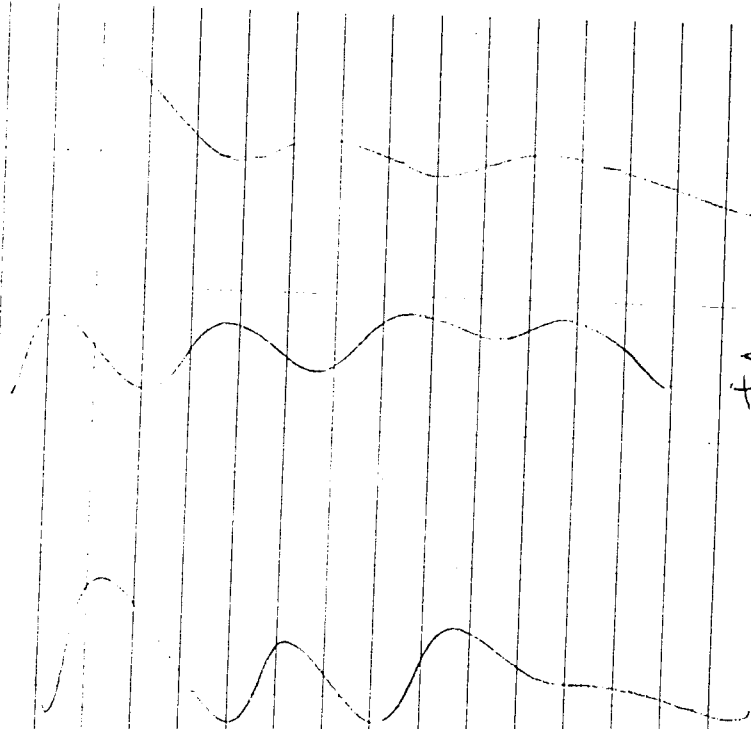
13:45 Arrive at Worcester ANGIS  
to stake out site. Met  
with Base personnel.

Site is surveyed for electrical  
cables, utilities, etc. The bearings  
location are marked on the pavement.

15:50 Leave for the Lab with EP

17:10 Leave to Supermarket to  
buy supplies

18:30 Arrive at Hotel



JA

JA

JA

14 hrs

TUESDAY / Nov 16 / 1993

07:30 Leave hotel for Post Tape JA  
08:30<sup>JA</sup> Arrive at Base (JA, EP, JB)  
are at the Base.

08:45 Drillers arrive at Site.  
Setting up Decon station

09:15 Bill Hebery from HAZWRAR  
arrives at the site.  
EP, JA, JB, BH and Drillers  
have safety briefing.

09:35 Begin drilling CI-CO1 BH Backhaul  
Bedrock at 2' BLS

10:40 Moving to CI-CO2 BH.

11:05 Begin drilling CI-CO2 BH  
waiting for ANGB to  
approve location of Boring

11:30 Borehole finished.

12:00 Leaving to Hotel to

Pick up GC.

12:30 Go to lab to pick up BTEX standard.

13:00 Arrives at the Base Start setting up GC. EP drilling 01-003 BIT.

14:30 Poring 01-003 BA finished moving to 01-012 BIT

15:35 Drilling shut down. Did not get ~~any~~ samples at 5ft deep.

16:35 Picking Dean Station.  
Picking up GC station

17:05 Leave Base.

17:30 Arrive at Hotel.

JA

21:00 Go ~~to~~ to parking lot to get soil samples from Van.

21:20 Preparing samples. Shooting GC sample 01-002BH (0.5-20) BLS

21:30 Preparing ~~at~~ <sup>JA</sup> Sampler collected to shooting in GC

Samples Shoot:

No evidence of contamination found

<sup>JA</sup> 23:30 Finished Shooting Samples

} } } }

11.5 hrs <sup>JA</sup> JA <sup>JA</sup> JA  
+ 2 hrs <sup>JA</sup> <sup>JA</sup>

Wednesday Nov 17 1993

07:30 Arrive at site. EP and  
 JIB set up decan station.  
 08:50 JIB have set up decan station.  
 09:20 JIB ready to start sampling hand  
 augers. Surveyors out at the site  
 locating all the boreholes.  
 10:00 JIB  
 10:30 JIB  
 11:30 JIB  
 12:15 JIB  
 13:00 JIB  
 14:15 JIB  
 14:45 JIB  
 16:40 JIB  
 21:40 JIB  
 23:30 JIB  
 11/18/93

Thursday / Nov 18 / 1993

08:45 Arrive at Site. EP and  
 JIB have set up decan station.  
 09:50 JIB  
 12:00 JIB  
 14:55 JIB  
 15:30 JIB  
 17:00 JIB  
 20:00 JIB  
 23:00 JIB  
 23:30 JIB

Friday / Nov 19 / 93

6:45 Checking out from hotel at  
Worcester.

7:00 Putting gas Ready to Leave  
to NY. Leave to NY. I  
talked to Earl I will leave  
early and will turn in the car.

11:00 Arrive at New York.  
Going to Drop the car  
to Dollar Rent a Car.

12:00 Arrive at Airport. Checking  
Bags

12:20 Departure has been delayed  
from 1:15 to 1:45

13:45 Landing New York

18:20 Arrive at San Antonio

19:00 Arrive at my house.

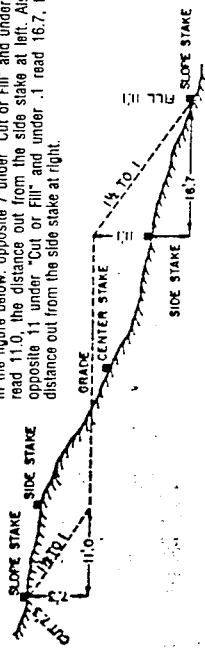
(11 hours)  
15 min

} | } | }

### DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut or Fill	Distance out from Side or Shoulder Stake										Cut or Fill
	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1.4	0
1	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.7	2.9	3.1	1
2	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4	8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4	6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9	7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4	8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9	9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4	10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9	11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4	12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9	13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4	14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9	15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4	16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9	17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4	18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9	19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4	20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9	21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4	22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9	23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4	24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9	25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4	26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9	27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4	28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9	29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4	30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9	31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4	32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9	33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4	34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9	35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4	36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9	37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4	38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9	39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4	40



Name Joe Byrd, Jr  
OPTech  
 Address 4100 NW Loop 410  
San Antonio, TX 78229  
 Phone (210) 731-0000  
 Project Worcester  
1315-113

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CONTENTS

PAGE NO.	REFERENCE	DATE

①

14 Nov 1993

Arrive LGA 4:50 pm  
 Drive to Roalyn  
 Wait 2 hrs at rental  
 car

15 Nov 1993

6:40 am leave hotel Go to  
 Roalyn AFB. Pick up  
 Box of Supplies.

7:30 am Return to hotel.  
 Breakfast. Pack

08:30 → 12:30

Drove to  
 Worcester

Lunch

13:15 → 16:00

Arrived Stacked Out Location  
 (cont)

Met with:

John Richardson - Barnes AP66S  
Pete Mc Harris - Substation Coord.  
Mark Zork - Duder w/ TDS

16:30

Witnessed Car/Pedestrian  
accident. Stayed at  
scene to give police an  
account of pedestrian's  
ignorance.

Carl & Jerry went to Lab.  
Met w/ John Carter

Tuesday 16 November 1953  
(3)

0737 Leave hotel for base

0747 Arrive @ base

Start sitting up (C)

01-001 BH

Safety Briefing - Carl Parker gave it  
Start Decompressing sleeves  
& equipment

1040 → 11:00 Waited for

Sgt. Mc Harris to  
OK site,

11:00 → 12:00 Decompressing

equipment as drilling  
was done

30 Eub's with was off

12:40 → 12:54 lunch

12:54 → 1615

Decompressing  
stuff

Stopped drilling →

16:15 → 17:12

Prepping up.  
Recharging 5000s for  
A. B. M. M. M.

Ticker samples of  
land.

17:30

Leave base  
Go to back end.  
Drop off the checks

17:12 →

17:40 Arrive base  
Halt

⑤  
Wednesday 17 Nov 1993

0630 On base. Begin setting  
up equipment & recording  
signals for the morning  
calling.

Card has safety meeting  
for US, Whittles, &  
Hiroshi.

visited on Dallas  
for Dean Cooper & Bob

Dallas 2 hand signals  
1 1/2 ft outside fence.

1015 started drilling again

Move Equip. above due to rain

12:42 - 12:54 LUNCH

12:54 -

Drill

15:45 - Release Drilling crew.

16:47 - Leave base Head to Lab to chop off samples

5:05 Left Lab. Headed back to Hotel

(7)

THURSDAY 18 November 1993

07:00 - Leave Hotel

07:19 - On Base. Begin setting up for hand auger holes.

Drilled hand auger (11) holes.

Completed sampling. Invented and packed all equipment. Polished area. Completely clean.

Go to Lab to drop off see chest of samples

14:15 Return to Hotel

Eat & Get cleaned up

15:15 <sup>+</sup> Go to Subway to get Census data →

16:30

16:48 → 17:30

Walked back over to  
the library to continue  
our research on  
population distributions

9

FRIDAY, ~~Thursday~~ 19 Nov 1993

0800 - Check Soil Samples  
0900 - Leave Hotel for  
Roslyn ANGLB

1530 - Get a Rental Car Place  
60 St LGA

1600 Get to LGA  
Flight delayed 1.5 hrs

110 (EST) Check in  
Hotel. Got bumped  
to Sat AM. to  
SA

Carl was in line first & got a seat  
on the 1120 flight. I was on  
standby w/ slim chances of  
boarding. Continental put me up  
in a Holiday Inn

17:30 → 19:00 Sitom Terrace  
1 1/2 hr weather delay.

Arrive in Houston @ 22:15

Find out at airport

22:40 that flight has  
been cancelled

Sat Nov 20 1993

07:47 Fly to SATX

08:48 Arrive in SATX

(11)

**APPENDIX F**

**HRS DATA PACKAGE**

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**PRELIMINARY ASSESSMENT (PA) SITE INSPECTION (SI)  
DATA REQUIREMENTS FOR FEDERAL FACILITY DOCKET SITES**

**Worcester ANG, Worcester, Massachusetts**

1. **Supply copies of all sampling data, on-site and off-site, including location map, detection limits (see definitions below), raw data sheets, QA/QC documents, date(s) sampled, analytical method(s) used, well or boring logs, and sampling technique(s).**

The following information can be found in the listed sections of the report: sampling data: Appendix D; location map: Figure 2.1; detection limits: Section 5.0; raw data sheets: Appendix F; QA/QC: Appendix C; dates sampled: Appendix D; analytical method(s) used: Section 5.0; well or boring logs: Appendix A; and sampling techniques: Section 5.0.

2. **Locate and identify on a map all known or suspected sources (see definition below). Supply all information about source(s) such as: dates of operation, use, or spillage; amounts of material deposited, stored, or spilled; dimensions of source(s); known or suspected hazardous substances (see definition below), etc.**

This information can be found in Section 2 of the report.

3. **Provide a description of all aquifers beneath the site, including description of overlying materials, depth first encountered, thickness, and composition.**

This information can be found in Section 3.3, 3.4, 3.5 and 5.2.2.2 of the report

4. **For each source, choose one description from Table 1 that describes the groundwater contaminant. Provide complete documentation (i.e., engineering diagrams, photographs [originals]) as to why the source meets that description and not any other in the Table.**

The best description from Table 1 is:

No evidence of hazardous migration from source area, a liner, and: (a) None of the following present: (1) maintained engineered cover, (2) functioning and maintained run-on control system and runoff management system, or (3) functioning leachate collection and removal system immediately above liner. For documentation see Section 5 in the report.

5. **Provide the location of all drinking water wells in all aquifers beneath the site in a 4-mile radius from the site (property boundary) by HRS distance ring and locate the wells within a one-mile radius on a 7.5-minute topographic map. Provide information on depth of well(s), screening interval(s), depth of aquifer(s) encountered, population served for multiple wells (i.e., municipal system), provide**

**4the number of wells, location of all wells (regardless of 4-mile limit), average annual pumpage of each well (regardless of 4-mile limit), and total population served by system. Include information on all standby wells.**

The only wells within a 4-mile radius from the site are Coal Mine Brook Well (located on Plantation Street close to North Lake Ave, East side of town near Lake Quinsigamond) and Home Farm Well (located in the town of Shrewsbury. This well is being evaluated for future use.) Both wells have been out of operation for more than 20 years. The City of Worcester relies on reservoirs for water. (Source: Department of Public Works)

- 6. Provide information and location (on 7.5-minute topographic map) of wells within 4 miles that are used to irrigate five or more acres of commercial food or forage crops, or watering of commercial livestock, or ingredient in commercial food preparation, or supply for aquaculture, or supply for a major or designated water recreation area, excluding drinking water use.**

None of the private wells are used for the above purposes, however, a list of wells along with the location of each has been provided. (Source: Department of Public Health and Code Enforcement)

- 7. Provide average number of persons per residence for county (or counties) that site is located in per the U.S. Census Bureau.**

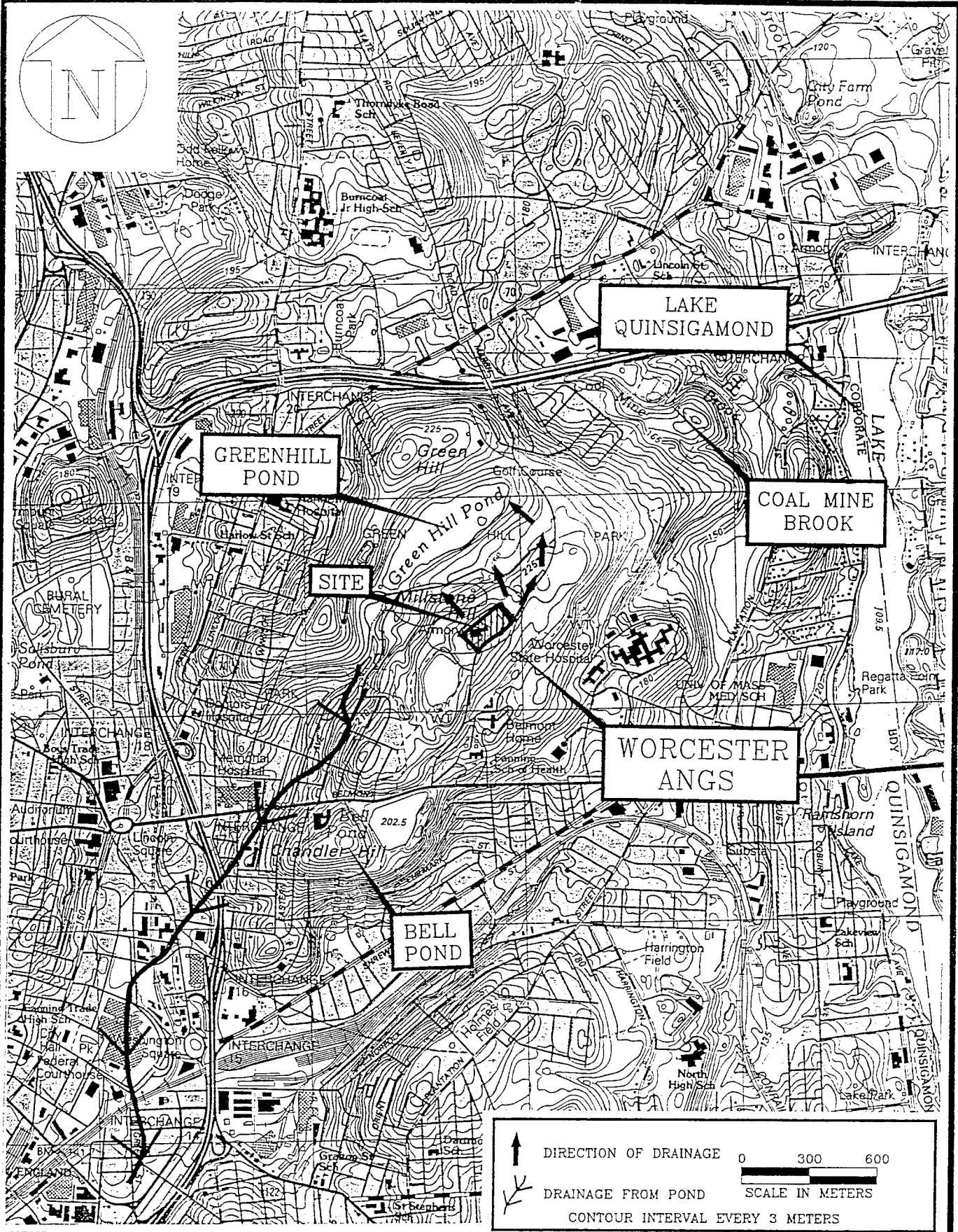
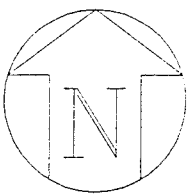
The average number of persons per residence for county is as follows: 1 person households: 61,640; 2 person households: 81,543; 3 person households: 46,688; 4 person households: 43,296; 5 person households: 18,834; 6 person households: 5,575; 7 or more person households: 2,382. (Source: Massachusetts Institute for Social and Economic Research: 1990 Census)

- 8. Identify and locate all surface water bodies within two miles of site, marking off the drainage routed (shown on 7.5-minute topographic map) from each source to applicable surface water bodies. Provide the average annual cubic feet per second flow for each surface water body within 15 miles downriver or radius from the point of probable entry into surface water. For lakes, provide information on inflow and outflow.**

The bodies of water that lie within two miles of the site are Green Hill Pond, Bell Pond and Coal Mine Brook which feeds into Lake Quinsigamond. Figure F shows the drainage route. The average annual cubic feet per second flow has not been calculated for Coal Mine Brook since it is intermittent. (Source: Public Works)

- 9. For each source, choose one description from Table 2 that describes the surface water containment. Provide complete documentation (i.e., engineering diagrams, photographs [originals]) as to why the source meets that description and not any other in the Table.**

NO.	ADDRESS	CAJ	NAME	PHONE	WELLS	DATA SAMP	DATE CONF
1	143 Southwest Cutoff	SMB	Consumer Auto Sales	791-6601	1	02/16/89	//
2	479 SW Cutoff	SMB	Teleprime	793-9730	1	02/09/89	//
3	442 SW Cutoff	SMB	Mack Sales & Service	753-1403	1	01/05/88	//
4	422 SW Cutoff	SMB	M.J. Rudnick Inc.	791-5561	1	02/09/89	//
5	19 SW Cutoff	SMB	Doug Russel Marine	791-4917	1	01/30/89	//
6	379 SW Cutoff	SMB	Howard Glass	753-8146	1	02/09/89	//
7	333 SW Cutoff	SMB	Miller Fence Co.	753-8581	1	02/09/89	//
8	11 SW Cutoff	SMB	USA Marine	791-7116	1	01/30/89	//
9	1 New Bond Street	LGB	Norton Co.	795-5000	4	//	02/09/89
10	Lincoln Street	LGB	State Mutual		1	//	01/24/89
11	200 Airport Drive	RES	William Ence	757-2059	2	02/16/89	//
12	25 Bird Street	RES	Richard & Kathleen Belcufine		1	//	01/16/89
13	4 Brandt Lane	RES	Richard Brandt	791-5194	1	02/10/89	//
14	2 Brandt Lane	RES	Ferris Salem	755-6494	1	02/10/89	//
15	38 Joppa Road	RES	Dana Lewis	791-5517	1	//	02/10/89
16	16 Hyatt Street	RES	Geraldine George		1	10/03/86	//
17	35 Strasberg Road	RES	Helen Garbauskas	752-0103	1	12/29/88	//
18	97 Brigham road	RES	Thomas Courtney		1	02/10/88	//
19	116 Brigham Road	RES	Walter & Nina Pearson	756-3898	1	//	//
20	123 Brigham Road	RES	Mary J. Mataka		1	02/10/88	//
21	126 Brigham Road	RES	Erato Noleshis	755-0397	1	01/18/89	//
22	130 Brigham Road	RES	Jean Hopkins	754-1549	1	01/18/89	//
23	131 Brigham Road	RES	Fredrick Borghesi	753-3869	1	01/18/89	//
24	143 Brigham Road	RES	Gerald Evelyn Bissgnnette	752-7003	1	01/18/89	//
25	60 Carter Road	RES	Joseph & Deborah Zawielski	798-8638	1	12/28/88	//
26	65 Carter Road	RES	Donald & Maryann Shea	798-3323	1	//	01/18/89
27	37 Brewer Street	RES	Earl & Patsy Brown	754-5158	1	01/19/89	//
28	44 Brewer Street	RES	David & Judith Laliberte	754-9152	1	01/19/89	//
29	48 Brewer Street	RES	Philip Hollyer	757-2984	1	01/24/89	//
30	61 Brewer Street	RES	Richard Hill		1	//	01/24/89
31	84 Swan Avenue	RES	Edward & Carol Hodgerney	755-0762	1	01/19/89	//
32	194 Swan Avenue	RES	Kevin & Cynthia Paguette		1	//	01/24/89
33	214 Swan Avenue	RES	Jon & Kathryn Frykberg	755-0777	1	01/24/89	//
34	30 Passway #6	RES	Gale Creamer		1	12/01/89	//
35	452 SW Cutoff (a)	RES	Anthony Kowszik	554-5661	1	01/05/88	//
36	452 SW Cutoff (b)	RES	Anthony Koswzik Jr.	799-6046	1	01/05/88	//
37	1254 West Boylston St.	RES	Pat & Mark Cappellucci	853-4262	1	03/03/89	//
38	55 Millbrook Street	LGB	Worcester Cold Storage	753-7513	1	03/24/89	//
39	100 Airport Drive	RES	Stephen Chiauroli	752-0031	1	02/14/89	//
40	34 Barrows (Holden)	RES	Audrey Simes	753-3793	1	03/01/89	//
41	Charles Monahan	RES	362 Salisbury Street		0	05/18/89	//
42	Gerald Bergeron	RES	665 Grove Street		1	//	//
43	Worad	SMB	299 Brooks Street		0	08/ /91	//



SOURCE: USGS 7.5 MIN. QUAD WORCESTER NORTH, 1983.

DRAFT  
FIGURE F

DRAINAGE

WATER DRAINAGE MAP  
Worcester Air National Guard Station  
Massachusetts Air National Guard  
Worcester, Massachusetts

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CORPORATION

JULY 1994

The best description from Table 2 is as follows:

No evidence of hazardous substance migration from source areas and: (a) Neither of the following present: (1) maintained engineered cover, or (2) functioning and maintained run-on control system and runoff management system.

**10. Provide the number of acres in each drainage basin.**

The total number of acres in each drainage basin are as follows: 441 for Coal Mine Brook and 20.84 square meters for Lake Quinsigamond. Greenhill Pond and Bell Pond have not been identified as basins or subbasins, therefore, the number of acres has not been calculated. (Source: Public Works)

**11. From Table 3, choose the predominant soil group (surface soil) which comprises the largest total area within each drainage area.**

The predominant soil group is: medium-textured soils with moderate infiltration rates.

**12. Provide the two-year, 24-hour rainfall.**

The two year, 24-hour rainfall was 3.16" which occurred on September 27, 1993. (Source: Climatology Department at Worcester Airport)

**13. From Table 4, choose the floodplain category of each source (supply FEMA floodplain map) and determine if each source meets the criteria from Table 5 (engineer's certification).**

Since the site is located in a hill, the best floodplain description would be in the "none of the above" category (I.E., it will never flood.)(Source: Public Health and Code Enforcement Zoning Department)

**14. Provide the location of all drinking water intakes within 15 downstream miles (rivers) or 15-mile radius (lakes, bays, etc.). Provide information on population served. For multiple intakes (i.e., municipal system), provide information on the number of intakes, location of all intakes (regardless of 15-mile limit), and total population served by system. Include information on all standby intakes.**

There are no drinking water intakes within 15 miles downstream or 15-mile radius in a lake. (Source: Public Works)

**15. Provide information and location of intakes within 15 miles downriver (radius in lake or bay) that are used to irrigate five or more acres of commercial food or forage crops, or watering of commercial livestock, or ingredient in commercial food preparation, or supply for aquaculture, or supply for a major or designated water recreation area, excluding drinking water use.**

There are no intakes within 15 miles downriver or 15-mile radius that are used for the above purposes. (Source: Public Works)

16. **Provide any surface water body 15 miles downriver (radius in lakes or bay) used for drinking water.**

This question does not apply since surface water 15 miles downriver is not used for the above purposes. (Source: Public Works)

17. **Provide the average human food chain production (pounds per year) for each surface water body 15 miles downriver or 15-mile radius in lake.**

The average human food chain production has not been calculated for each surface water body 15 miles downriver. (Source: Public Works)

18. **Within a 4-mile radius from the site and 15 miles downriver, or radius in lake, identify all sensitive environments that exist. Provide original documentation (USF&W, Natural Heritage Database, State agencies, NOAA, etc.), multiple sensitive environments within a sensitive environment.**

No sensitive environments exist within a 4-mile radius from the site. (Source: U.S. Fish & Wildlife)

19. **What is the linear frontage of all wetlands 15 miles downriver or 15-mile radius in lake?**

This question does not apply since there are no rivers nearby or lakes with designated wetlands. (Source: U.S. Department of the Interior Fish and Wildlife Service Wetlands Map)

20. **Provide the location and number of persons residing, working, attending school, or day care within 200 feet. This includes both the Air and Army Guard.**

The total number of people working within 200 feet are 63. During Unit Training Assembly (UTA), the total is 433. (Source: RI Report)

21. **Identify all terrestrial sensitive environments that exist on-site. Provide original documentation (USF&W, Natural Heritage Database, State agencies, NOAA, etc.) and locate each on a 7.5-minute topographic map. Note that there could be multiple sensitive environments within a sensitive environment.**

No terrestrial sensitive environments exist on-site. (Source: U.S. Fish & Wildlife)

22. **For each source, choose one description from Table 8 that describes the accessibility to a human population. Provide complete documentation (i.e., engineering diagrams, photographs [originals]) as to why the source meets that description and not any other in the Table.**

The best description is: Accessible, with no public recreation use.

**23. Provide the total number of people in following distance rings from source(s)?**

The approximate population for each ring is as follows:

- 0 - 1/4 mile = 150.5
- 1/4 - 1/2 mile = 1079.59
- 1/2 - 1 mile = 13,388.41
- 1 - 2 miles = 46,369.89
- 2 - 3 miles = 63,785.35
- 3 - 4 miles = 36,738.85

**Use 1990 Census data and/or actual house counts. Document how calculated.**

(Source: Department of Commerce, Economics and Statistics Administration Bureau of the Census 1990 CPH-3-341)

**24. For each source, choose one description from Table 9 that describes the gaseous containment. Provide complete documentation (i.e., engineering diagrams, photographs [originals]), as to why the source meets that description and not any other in the Table. From Table 10, choose the appropriate description of each source type. For each source, choose one description from Table 11 that describes that particulate containment. Provide complete documentation (i.e., engineering diagrams, photographs [originals]) as to why the source meets that description and not any other in the Table.**

Table 9: None of the gas containment descriptions apply for this site.

Table 10: The source type is: Other types of sources, not elsewhere specified. (Vehicle and aerospace ground equipment maintenance shop.)

Table 11: None of the particulate containment descriptions apply.

**25. Provide the location and area (in acres) of all wetlands within 4 miles of the site.**

The approximate total area of wetlands is 278 acres. Wetlands consist mostly of Palustrine, scrub-shrub and emergent. As stated in question #19, these wetlands are not found along rivers or lakes. (Source: U.S. Department of the Interior Fish and Wildlife Service Wetlands Map)

**26. Contact EPA Regional Office immediately if any radionuclides are present or suspected at site and supply all radiological information known to date.**

This question does not apply since there are no radionuclides present or suspected near the site.

**27. For all of the above information, use primary data source and supply two copies or specify where copies may be obtained.**

**28. Provide any removals or remedial actions taken place at site.**

In 1993, as part of an Air National Guard program, all the underground storage tanks (UST) at the station were removed. A total of 11 UST ranging in capacity from 150 to 12,000 gallons were removed. See Section 2.2.3 and Figure 2.3 for more information.

**29. If information relevant to a question already has been provided to the EPA, your answer may precisely cite the previous submittal by title, date, page, and paragraph number rather than resubmitting the information. To assist in your efforts, also enclosed is a copy of EPA's draft Preliminary Assessment Guidance.**



Table 1

All Sources (Except Surface Impoundments, Land Treatment, Containers, and Tanks)

Evidence of hazardous substance migration from source area (i.e., source area includes source and any associated containment structures).

No liner.

No evidence of hazardous substance migration from source area, a liner, and:

- (a) None of the following present: (1) maintained engineered cover, (2) functioning and maintained run-on control system and runoff management system, or (3) functioning leachate collection and removal system immediately above liner.
- (b) Any one of the three items in (a) present.
- (c) Any two of the items in (a) present.
- (d) All three items in (a) present plus a functioning groundwater monitoring system.
- (e) All items in (d) present plus no bulk or non-containerized liquids nor materials containing free liquids deposited in source area.

No evidence of hazardous substance migration from source area, double liner with functioning leachate collection and removal system above and between liners, functioning groundwater monitoring system, and:

- (f) Only one of the following deficiencies present in containment: (1) bulk or noncontainerized liquids or materials containing free liquids deposited in source area, or (2) no or nonfunctioning or nonmaintained run-on control system and runoff management system, or (3) no or nonmaintained engineered cover.
- (g) None of the deficiencies in (f) present.

Source area inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate is generated, liquid or materials containing free liquids not deposited in source area, and functioning and maintained run-on control present.

Surface Impoundment

Evidence of hazardous substance migration from surface impoundment.

No liner.

Free liquids present with either no diking, unsound diking, or diking that is not regularly inspected and maintained.

No evidence of hazardous substance migration from surface impoundment, free liquids present, sound diking that is regularly inspected and maintained, adequate freeboard, and:

- (a) Liner.
- (b) Liner with functioning leachate collection and removal system below liner, and functioning groundwater monitoring system.
- (c) Double liner with functioning leachate collection and removal system between liners, and functioning groundwater monitoring system.

No evidence of hazardous substance migration from surface impoundment and all free liquids eliminated at closure (either by removal of liquids or solidification of remaining wastes and waste residues).

Land Treatment

Evidence of hazardous substance migration from land treatment zone.

No functioning, maintained, run-on control and runoff management system.

No evidence of hazardous substance migration from land treatment zone and:

- (a) Functioning and maintained run-on control and runoff management system.
- (b) Functioning and maintained run-on control and runoff management system, and vegetative cover established over entire land treatment area.
- (c) Land treatment area maintained in compliance with 40 CFR 264.280.

## Containers

All containers buried.

Evidence of hazardous substance migration from container area (i.e., container area includes containers and any associated containment structures).

No liner (or no essentially impervious base) under container area.

No diking (or no similar structure) surrounding container area.

Diking surrounding container area unsound or not regularly inspected and maintained.

No evidence of hazardous substance migration from container area, container area surrounded by sound diking that is regularly inspected and maintained, and:

- (a) Liner (or essentially impervious base) under container area.
- (b) Essentially impervious base under container area with liquids collection and removal system.
- (c) Containment system includes essentially impervious base, liquids collection system, sufficient contain 10 percent of volume of all containers, and functioning and maintained run-on control; plus functioning groundwater monitoring system, and spilled or leaked hazardous substances and accumulated precipitation removed in timely manner to prevent overflow of collection system, at least weekly inspection of containers, hazardous substances in leaking or deteriorating containers transferred to containers in good condition, and containers sealed except when waste is added or removed.
- (d) Free liquids present containment system has sufficient capacity to hold total volume of all containers and to provide adequate freeboard, single liner under container area with functioning leachate collection and removal system below liner, and functioning groundwater monitoring system.
- (e) Same as (d) except: double liner under container area with functioning leachate collection and removal system between liners.

Containers inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate would be generated from any unsealed or ruptured containers, liquids or materials containing free liquids not deposited in any container, and functioning and maintained runoff control present.

No evidence of hazardous substance migration from container area, containers leaking, and all free liquids eliminated at closure (either by removal of liquid or solidification of remaining wastes and waste residues).

## Tank

Belowground tank.

Evidence of hazardous substance migration from tank area (i.e., tank area includes tank, ancillary equipment such as piping, and any associated containment structures).

Tank and ancillary equipment not provided with secondary containment, (e.g., liner under tank area, vault system, double wall).

No diking (or no similar structure) surrounding tank and ancillary equipment

Diking surrounding tank and ancillary equipment unsound or not regularly inspected and maintained.

No evidence of hazardous substance migration from tank area, tank and ancillary equipment surrounded by sound diking that is regularly inspected and maintained, and:

- (a) Tank and ancillary equipment provided with secondary containment.
- (b) Tank and ancillary equipment provided with secondary containment with leak detection and collection system.
- (c) Tank and ancillary equipment provided with secondary containment system that detects and collects spilled or leaked hazardous substances and accumulated precipitation and has sufficient capacity to contain 110 percent of volume of largest tank within containment area, spilled or leaked hazardous substances and accumulated precipitation removed in timely manner, at least weekly inspection of tank and secondary containment system, all leaking or unfit-for-use tank systems promptly responded to, and functioning groundwater monitoring system.
- (d) Containment system has sufficient capacity to hold volume of all tanks within tank containment area and to provide adequate freeboard, single liner under that containment area with functioning

leachate collection and removal system below liner, and functioning groundwater monitoring system.

- (e) Same as (d) except double liner under tank containment area with functioning leachate collection and removal system between liners.

Tank is aboveground, and inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate would be generated from any material released from tank, liquids or materials containing free liquids not deposited in any tank, and functioning and maintained run-on control present.

Table 2

All Sources (Except Surface Impoundments, Land Treatment, Containers, and Tanks)

Evidence of hazardous substance migration from source area (i.e., source area includes source and any associated containment structures).

No evidence of hazardous substance migration from source areas and:

- (a) Neither of the following present: (1) maintained engineered cover, or (2) functioning and maintained run-on control system and runoff management system.
- (b) Any one of the two items in (a) present.
- (c) Any two of the following present: (1) maintained engineered cover, or (2) functioning and maintained run-on control system and runoff management system, or (3) liner with functioning leachate collection and removal system immediately above liner.
- (d) All items in (c) present.
- (e) All items in (c) present, plus no bulk or non-containerized liquids nor materials containing free liquids deposited in source area.

No evidence of hazardous substance migration from source area, double liner with functioning leachate collection and removal system above and between liners, and:

- (f) Only one of the following deficiencies present in containment: (1) bulk or noncontainerized liquids or materials containing free liquids deposited in source area, or (2) no or nonfunctioning or nonmaintained run-on control system and runoff management system, or (3) no or nonmaintained engineered cover.
- (g) None of the deficiencies in (f) present.

Source area inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate is generated, liquids or materials containing free liquids not deposited in source area, and functioning and maintained run-on control present.

Surface Impoundment

Evidence of hazardous substance migration from surface impoundment.

Free liquids present with either no diking, unsound diking, or diking that is not regularly inspected and maintained.

No evidence of hazardous substance migration from surface impoundment, free liquids present, sound diking that is regularly inspected and maintained, adequate freeboard, and:

- (a) No liner.
- (b) Liner.
- (c) Liner with functioning leachate collection and removal system below liner.
- (d) Double liner with functioning leachate collection and removal system between liners.

No evidence of hazardous substance migration from surface impoundment and all free liquids eliminated at closure (either by removal of liquids or solidification of remaining wastes and waste residues).

Land Treatment

Evidence of hazardous substance migration from land treatment zone.

No functioning and maintained run-on control and runoff management system.

No evidence of hazardous substance migration from land treatment zone and:

- (a) Functioning and maintained and maintained run-on control and runoff management system.
- (b) Functioning and maintained run-on control and runoff management system, and vegetative cover established over entire land treatment area.
- (c) Land treatment area maintained in compliance with 40 CFR 264.280.

#### Containers

All containers buried.

Evidence of hazardous substance migration from container area (i.e., container area includes containers and any associated containment structures).

No diking (or no similar structure) surrounding container area.

Diking surrounding container area unsound or not regularly inspected and maintained.

No evidence of hazardous substance migration from container area and container area surrounded by sound diking that is regularly inspected and maintained.

No evidence of hazardous substance migration from container area, container area surrounded by sound diking that is regularly inspected and maintained, and:

- (a) Essentially impervious base under container area with liquids collection and removal system.
- (b) Containment system includes essentially impervious base, liquids collection system, sufficient capacity to contain 10 percent of volume of all containers, and functioning and maintained run-on control; and spilled or leaked hazardous substances and accumulated precipitation removed in timely manner to prevent overflow of collection system, at least weekly inspection of containers, hazardous substances in leaking or deteriorating containers transferred to containers in good condition, and containers sealed except when waste is added or removed.
- (c) Free liquids present containment system has sufficient capacity to hold total volume of all containers and to provide adequate freeboard, and single liner under container area with functioning leachate collection and removal system below liner.
- (d) Same as (c) except: double liner under container area with functioning leachate collection and removal system between liners. Containers inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate would be generated from any unsealed or ruptured containers, liquids or materials containing free liquids not deposited in any container, and functioning and maintained run-on control present.

No evidence of hazardous substance migration from container area, containers leaking, and all free liquids eliminated at closure (either by removal of liquids or solidification of remaining wastes and waste residues).

#### Tank

Belowground tank.

Evidence of hazardous substance migration from tank area (i.e., tank area includes tank, ancillary equipment such as piping, and any associated containment structures).

No diking (or no similar structure) surrounding tank and ancillary equipment.

Diking surrounding tank and ancillary equipment unsound or not regularly inspected and maintained.

No evidence of hazardous substance migration from tank area and tank and ancillary equipment surrounded by sound diking that is regularly inspected and maintained.

No evidence of hazardous substance migration from tank area, tank and ancillary equipment surrounded by sound diking that is regularly inspected and maintained, and:

- (a) Tank and ancillary equipment provided with secondary containment (e.g., liner under tank area, vault system, double wall) with leak detection and collection system.
- (b) Tank and ancillary equipment provided with secondary containment system that detects and collects spilled or leaked hazardous substances and accumulated precipitation and has sufficient capacity to contain 110 percent of volume of largest tank within containment area, spilled or leaked hazardous substances and accumulated precipitation removed in a timely manner, at least

- weekly inspection of tank and secondary containment system, and all leaking or unfit-for-use tank systems promptly responded to.
- (c) Containment system has sufficient capacity to hold total volume of all tanks within the tank containment area and to provide adequate freeboard, and single liner under tank containment area with functioning leachate collection and removal system below liner.
  - (d) Same as (c) except double liner under tank containment area with functioning leachate collection and removal system between liners.

Tank is aboveground, and inside or under maintained intact structure that provides protection from precipitation so that neither runoff nor leachate would be generated from any material released from tank, liquids or materials containing free liquids not deposited in any tank, and functioning and maintained run-on control present.

Table 3  
Surface Soil Description

Coarse-textured soils with high infiltration rates (for example, sands, loamy sands).  
 Medium-textured soils with moderate infiltration rates (for example, sandy loams, loams).  
 Moderately fine-textured soils with low infiltration rates (for example, silty loams, silts, sandy clay loams).  
 Fine-textured soils with very low infiltration rates (for example, clays, sandy clays, silty clay loams, clay loams, silty clays); or impermeable surfaces (for example, pavement).

Table 4  
Floodplain Categories

Source floods annually.  
 Source in 10-year floodplain.  
 Source in 100-year floodplain.  
 Source in 500-year floodplain.  
 None of the above.

Table 5  
Flood Containment

Documentation that containment at the source is designed, constructed, operated, and maintained to prevent a washout of hazardous substances by the flood being evaluated (see floodplain category).

Table 6  
Sensitive Environments

Critical habitat<sup>a</sup> for Federal designated endangered or threatened species.  
 Marine Sanctuary.  
 National Park.  
 Designated Federal Wilderness Area.  
 Areas identified under Coastal Zone Management Act<sup>b</sup>.  
 Sensitive areas identified under National Estuary Program<sup>c</sup> or Near Coastal Waters Program<sup>d</sup>.  
 Critical areas identified under the Clean Lakes Program<sup>e</sup>.  
 National Monument<sup>f</sup>.  
 National Seashore Recreational Area.  
 National Lakeshore Recreational Area.  
 Habitat known to be used by Federal designated or proposed endangered or threatened species.  
 National Preserve.

National or State Wildlife Refuge.  
 Unit of Coastal Barrier Resources System.  
 Coastal Barrier (undeveloped).  
 Federal land designated for protection of natural ecosystems.  
 Administratively Proposed Federal Wilderness Area.  
 Spawning areas critical<sup>e</sup> for the maintenance of fish/shellfish species within river, lake, or coastal tidal waters.  
 Migratory pathways and feeding areas critical for maintenance of anadromous fish species within river reaches or areas in lakes or coastal tidal waters in which the fish spend extended periods of time.  
 Terrestrial areas utilized for breeding by large or dense aggregations of animals<sup>h</sup>.  
 National river reach designated as Recreational.  
 Habitat known to be used by State designated endangered or threatened species.  
 Habitat known to be used by species under review as to its Federal endangered or threatened status.  
 Coastal Barrier (partially developed).  
 Federal designated Scenic or Wild River.  
 State land designated for wildlife or game management.  
 State designated Scenic or Wild River.  
 State designated Natural Areas.  
 Particular areas, relatively small in size, important to maintenance of unique biotic communities.  
 State designated areas for protection or maintenance of aquatic life<sup>i</sup>.

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<sup>a</sup>Critical habitat as defined in 50 CFR 424.02.

<sup>b</sup>Areas identified in State Coastal Zone Management plans as requiring protection because of ecological value.

<sup>c</sup>National Estuary Program study areas (Subareas within subareas) identified in Comprehensive Conservation and Management Plans as requiring protection because they support critical life stages of key estuarine species (Section 320 of Clean Water Act, as amended).

<sup>d</sup>Near Coastal Waters as defined in Sections 104(b)(3), 304(1), 319, and 320 of Clean Water Act, as amended.

<sup>e</sup>Clean Lakes Program critical areas (subareas within lakes, or in some cases entire small lakes) identified by State Clean Lake Plans as critical habitats (Section 314 of Clean Water Act, as amended).

<sup>f</sup>Use only for air migration pathway.

<sup>g</sup>Limit to areas described as being used for intense or concentrated spawning by a given species.

<sup>h</sup>For the air migration pathway, limit to terrestrial vertebrate species. For the surface water migration pathway, limit to terrestrial vertebrate species aquatic or semiaquatic foraging habits.

<sup>i</sup>Areas designated under Section 305(a) of Clean Water Act, as amended.

Table 7  
 Terrestrial Sensitive Environments

Terrestrial critical habitat<sup>a</sup> for Federal designated endangered or threatened species.  
 National Park.  
 Designated Federal Wilderness Area.  
 National Monument.  
 Terrestrial habitat known to be used by Federal designated or proposed threatened or endangered species.  
 National Preserve (terrestrial).  
 National or State Terrestrial Wildlife Refuge.  
 Federal land designated for protection of natural ecosystems.  
 Administratively proposed Federal Wilderness Area.  
 Terrestrial areas utilized for breeding by large or dense aggregations of animals<sup>b</sup>.  
 Terrestrial habitat known to be used by State designated endangered or threatened species.  
 Terrestrial habitat known to be used by species under review as to its Federal designated endangered or threatened status.  
 State lands designated for wildlife or game management.  
 State designated Natural Areas.  
 Particular area, relatively small in size, important to maintenance of unique biotic communities.

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<sup>a</sup>Critical habitat as defined in 50 CFR 42.

<sup>b</sup>Limit to vertebrate species.

Table 8  
Area of Observed Contamination

Designated recreational area.  
Regularly used for public recreation (for example, fishing, hiking, softball).  
Accessible and unique recreational area (for example, vacant lots in urban area).  
Moderately accessible (may have some access improvements – for example, gravel road), with some public recreation use.  
Slightly accessible (for example, extremely rural area with no road improvement), with some public recreation use.  
Accessible, with no public recreation use.  
Surrounded by maintained fence or combination of maintained fence and natural barriers.  
Physically inaccessible to public, with no evidence of public recreation use.

Table 9  
Gas Containment Description

All situations except those specifically listed below.  
Evidence of biogas release.  
Active fire within source.  
Gas collection/treatment system functioning, regularly inspected, maintained, and completely covering source.  
Source substantially surrounded by engineering windbreak and no other containment specifically described in this table applies.  
Source covered with essentially impermeable, regularly inspected, maintained cover.  
Uncontaminated soil cover > 3 feet:  
    Source substantially vegetated with little exposed soil.  
    Source lightly vegetated with much exposed soil.  
    Source substantially devoid of vegetation.  
Uncontaminated soil cover  $\geq 1$  foot and  $\leq 3$  feet:  
    Source heavily vegetated with essentially no exposed soil.  
    Cover soil resistant to gas migration<sup>a</sup>.  
    Cover soil type not resistant to gas migration<sup>a</sup> or unknown.  
    Source substantially vegetated with little exposed soil and cover soil type resistant to gas migration<sup>a</sup>.  
    Other.  
Uncontaminated soil cover < 1 foot:  
    Source heavily vegetated with essentially no exposed soil and cover soil type resistant to gas migration<sup>a</sup>.  
    Other.  
Totally or partially enclosed within structurally intact building and no other containment specifically described in this table applies.  
Source consists solely of intact, sealed containers:  
    Totally protected from weather by regularly inspected, maintained cover.  
    Other.

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<sup>a</sup>Consider moist fine-grained and saturated coarse-grained soils resistant to gas migration; consider all other soils nonresistant.

Table 10  
Source Type

Active fire area.  
Burn pit.  
Containers or tanks (buried/belowground):  
    Evidence of biogas release.  
    No evidence of biogas release.

Containers or tanks, not elsewhere specified.  
Contaminated soil (excluding land treatment).  
Landfarm/land treatment.

Landfill:

Evidence of biogas release.  
No evidence of biogas release.

Pile:

Tailings pile.  
Scrap metal or junk pile.  
Trash pile.  
Chemical waste pile.  
Other waste piles.

Surface impoundments (buried/backfilled):

Evidence of biogas release.  
No evidence of biogas release.

Surface impoundment (not buried/backfilled):

Dry.  
Other.

Other types of sources, not elsewhere specified.

Table 11  
Particulate Containment Description

All situations except those specifically listed below.

Source contains only particulate hazardous substances totally covered by liquids.

Source substantially surrounded by engineered windbreak and no other containment specifically described in this table applies.

Source covered with essentially impermeable, regularly inspected, maintained cover.

Uncontaminated soil cover >3 feet:

Source substantially vegetated with little or no exposed soil.  
Source lightly vegetated with much exposed soil.  
Source substantially devoid of vegetation.

Uncontaminated soil cover  $\geq 1$  foot and  $\leq 3$  feet:

Source heavily vegetated with essentially no exposed soil:  
Cover soil type resistant to gas migration<sup>a</sup>.  
Cover soil type not resistant to gas migration<sup>a</sup>.  
Source substantially vegetated with little exposed soil and cover soil type resistant to gas migration<sup>a</sup>.  
Other.

Uncontaminated soil cover <1 foot:

Source heavily vegetated with essentially no exposed soil and cover soil type resistant to gas migration<sup>a</sup>.  
Other.

Totally or partially enclosed within structurally intact building and no other containment specifically described in this table applies.

Source consists solely of containers:

All containers contain only liquids.  
All containers intact, sealed, and totally protected from weather by regularly inspected, maintained cover.  
All containers intact and sealed.  
Other.

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<sup>a</sup>Consider moist fine-grained and saturated coarse-grained soils resistant to gas migration; consider all other soils nonresistant.



**APPENDIX G**

**COMMONWEALTH OF MASSACHUSETTS  
APPLICABLE OR RELEVANT AND APPROPRIATE  
REQUIREMENTS**

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## APPENDIX G

### COMMONWEALTH OF MASSACHUSETTS APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS

Subpart C of the Massachusetts Contingency Plan (MCP) (40.0300) establishes the guidelines to follow for the notification of releases and threats of releases of oil and hazardous materials in the State. When a release of oil/hazardous materials takes place, the MADEP should be notified within two hours, 72 hours, or 120 days, according to the nature of the release.

Releases which require notification within 120 days are described in 310 CMR 40.0315, and have to meet one or more of the following criteria:

1. A release to the environment indicated by the measurement of one or more hazardous materials in soil or groundwater in an amount equal to or greater than the applicable Reportable Concentration described in 310 CMR 40.0360 through 40.0369 and listed at 40.1600;
2. A release to the environment indicated by the measurement of oil in soil in an amount equal to or greater than the applicable Reportable Concentration described in 310 CMR 40.0360 through 40.0369 and listed at 40.1600, where the total contiguous volume of the oil contaminated soil is equal to or greater than two cubic yards; or
3. A release to the environment indicated by the measurement of oil in groundwater in an amount equal to or greater than the applicable Reportable Concentration described in 310 CMR 40.0360 through 40.0369 and listed at 40.01600.

Releases which require notification within two and 72 hours are described in 310 CMR 10.03(12) and (13). These requirements do not apply to the 212 EIS, Worcester ANGS, based on the nature of the contaminants and the environmental conditions of the site. Therefore, soil Reportable Concentrations listed in 310 CMR (40.1600) were used as the guidelines to be followed for maximum contaminant levels for this SI.

For the purpose of soil categorization, the potential for exposure is described by a qualitative analysis of the accessibility of the soil in combination with the information about the site activities and uses. Soils are classified as either category S-1, S-2, or S-3 according to 310

CMR 40.0933. These categories were used in conjunction with 310 CMR 40.1600 to establish the Reportable Concentrations of chemicals in the soil.

According to 310 CMR 40.0933(5), category S-1, soil shall be classified as category S-1 if either:

1. The soil of concern is accessible, pursuant to 310 CMR 40.0933(4)(c)1, and either:
  - a. The soil is currently used for growing fruits or vegetables for human consumption, or if it is reasonably foreseeable that the soil may be put to such use; or
  - b. A child's frequency or intensity of use is considered to be high pursuant to 310 CMR 40.0933(4)(b) and (c); or
  - c. An adult's frequency and intensity of use are both considered to be high pursuant to 310 CMR 40.0933(4)(b) and (c); or
2. The soil is potentially accessible, pursuant to 310 CMR 40.0922(4)(c)2, and a child's frequency and intensity of use are both considered to be high pursuant to 310 CMR 40.0933(4)(b) and (c).

According to 310 CMR 40.0933(4)(c), accessibility of the soil to potential receptors shall be characterized as either "accessible," "potentially accessible," or "isolated" using the following criteria:

1. Soil shall be characterized as "accessible" if it is located less than 3 feet below the surface, and the surface is not completely covered by pavement. For buildings having earthen floors, the floor shall be considered as the soil surface.
2. Soil shall be characterized as "potentially accessible" if it is located at a depth of 3 to 15 feet below the surface (with or without pavement), or if the soil is located less than 3 feet from the surface in an area completely paved.
3. Soil shall be characterized as "isolated" if it is located at a depth greater than 15 feet below the surface, or if the soil is covered completely by a building or other

permanent structure which does not have earthen floors, regardless of depth. Soil located at a depth greater than 3 feet below the earthen floor of a building or other permanent structure shall also be characterized as "isolated."

According to 310 CMR 40.0933(4)(a), frequency of use shall indicate how often a receptor makes use of, or has access to, the disposal site and the surrounding environment. Frequency of use shall be described as either "High," "Low" or "Not Present," using the following criteria:

1. Children's frequency of use shall be characterized as high if:
  - a. Any children reside, attend school or attend day care at the disposal site or in the surrounding environment; or
  - b. Large numbers of children visit the disposal site or the surrounding environment, regardless of any one child's frequency of visitation.
2. Adults' frequency of use shall be characterized as high when they reside at the disposal site or in the surrounding environment, or when they work at the disposal site or in the surrounding environment on a continuing basis (i.e., full days or shifts of eight or more hours per day on a continuing basis).
3. Children's or adults' frequency of use shall be characterized as low when they are present at the disposal site, but only as infrequent visitors; or when workers are present at the disposal site for only short periods of time (i.e., less than two hours per day on a continuing basis, or for full days or shifts on a sporadic basis).
4. It shall be presumed that children may be present at the disposal site or in the surrounding environment unless it can be demonstrated that access by children age 15 and younger is specifically restricted or that such children are highly unlikely to be present, in which case children may be considered to be "Not Present." Disposal sites which are residential properties shall presume the presence of children unless there is clear and convincing evidence to the contrary.
5. The frequency of use for activities not described above shall be characterized in the documentation of the Risk Characterization as either high or low.

According to 310 CMR 40.0933(4)(b), intensity of use shall describe the nature of the site activities and uses which could potentially result in exposure to the receptor. Intensity of use shall be described as either "High" or "Low," using the following criteria:

1. Site activities and uses which have the potential to disturb soil and thus result in either direct contact with the soil itself or inhalation of soil derived dust shall be characterized as "High" intensity use. Examples of such activities include, without limitation, gardening, digging, and recreational sports.
2. Passive activities which do not disturb the soil, such as walking, shopping, and bird-watching shall be characterized as "Low" intensity use.
3. The intensity of use for each identified site activity and use shall be characterized in the documentation of the Risk Characterization as either high or low with appropriate justification.

According to 310 CMR 40.093(6), soil shall be classified as category S-2 if either:

1. The soil is accessible, pursuant to 310 CMR 40.0933(4)(c)1, and:
  - a. A child's frequency and intensity of use are both considered to be low pursuant to 310 CMR 40.0933(4)(b) and (c); or
  - b. Children are not present at the disposal site and either (but not both) the adults' frequency or intensity of use is considered to be high, pursuant to 310 CMR 40.0933(4)(b) and (c); or
2. The soil is potentially accessible, pursuant to 310 CMR 40.0933(4)(c)2, and:
  - a. Either (but not both) a child's frequency or intensity of use is considered to be high pursuant to 310 CMR 40.0933(4)(b) and (c); or
  - b. Children are not present at the disposal site and an adult's frequency and intensity of use are both considered to be high pursuant to 310 CMR 40.0933(4)(b) and (c).

The environmental conditions at the site can be described as follows:

The "accessibility" to the site can be categorized as "accessible," due to the fact the soil is located less than 3 feet below the surface, and the surface is not completely covered by pavement. The "frequency of use" of the site can be categorized as high, because people work at the site or in the surrounding environment on a continuing basis. "Intensity of use" at the site can be categorized as low, because passive activities which do not disturb the soil, such as walking, are performed at the site. Therefore, the soil at the site will be categorized as S-2 for the purpose of this investigation.

Soils at the Station have been classified as category S-2 according to 310 CMR 40.0933(6)(a), which establishes that: soils shall be classified as category S-2 if children are not present at the disposal site and either (but not both) the adults' frequency or intensity of use is considered to be high, pursuant to 310 CMR 40.0933(4)(b) and (c).

Table 3 of 310 CMR 40.0975(6)(b) establishes reportable concentrations for contaminants in soil based on both soil category S-2 standards and a groundwater classification. For the purpose of this investigation, groundwater at the Station has been classified as GW-1. A groundwater investigation was not within the scope of this SI; therefore, GW-1 was used because it provided the most stringent reportable cleanup standards.

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**APPENDIX H**

**INVESTIGATION DERIVED WASTE DISPOSITION**

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## INVESTIGATION DERIVED WASTE DISPOSITION

During the SI, a certain amount of waste material (drill cuttings and decontamination water) were produced as a result of investigation activities. Soil cuttings from each drilling location and all decontamination water were drummed in steel, plastic-lined 55-gallon DOT Drums. A total of eight drums were produced, six containing soil cuttings and two containing decontamination water. There were no miscellaneous derived wastes (PPE and visqueen sheeting) which came in contact with soils having PID readings in excess of 100 ppm; therefore, all PPE was discarded in the general refuse container after the conclusion of field work. All drums were properly marked to indicate their contents, the collection date, contractor's name and phone number, and borehole ID numbers, with the exception of two incorrectly marked drums. Guidance for the final disposition of drummed materials is provided in this appendix.

### Drums Containing Soil

A total of six drums containing soil cuttings were produced during the SI. Soil cuttings from the two background boreholes were combined together since they were drilled to 2 feet BLS and were not anticipated to be contaminated. The shallow boreholes north of the fence line did not produce cuttings due to the shallow nature of the bedrock. Table H.1 lists the drilling locations for which drums have been marked "Soil," the recommended disposition of those drums, and the rationale for each recommendation.

**Table H.1**  
**Recommended Disposition of Soil Drums**  
**101st ACS, Worcester ANGS, Worcester, Massachusetts**

Drilling Location ID Number	Recommended Disposition	Rationale
01-001BH and 01-012BH*	Soil should be disposed through DRMO.	Arsenic was detected at concentrations above Reportable Concentrations.
01-002BH <sup>b</sup>	Soil should be disposed through DRMO.	TPH was detected at concentrations above Reportable Concentrations.
01-003BH	Soil should be disposed through DRMO.	VOCs and metals were detected at concentrations above Reportable Concentrations.
01-004BH	Soil should be disposed through DRMO.	Arsenic was detected at a concentration above Reportable Concentrations.
01-005BH	Soil should be disposed through DRMO.	VOCs and metals were detected at concentrations above Reportable Concentrations.

Drilling Location ID Number	Recommended Disposition	Rationale
01-006BH	Soil should be disposed through DRMO.	Metals were detected at concentrations above Reportable Concentrations.

<sup>a</sup>Drum incorrectly labeled. Drum contains cuttings from borehole 01-001BH and 01-002BH.

<sup>b</sup>Drum incorrectly labeled. Drum contains cuttings from borehole 01-012BH.

DRMO – Defense Reutilization and Marketing Office.

TPH – Total Petroleum Hydrocarbons.

VOCs – Volatile Organic Compounds.

The drum labeled "01-001BH and 01-012BH" was incorrectly labeled. That drum contains the cuttings from 01-001BH and 01-002BH, while the drum labeled "01-002BH" contains cuttings from 01-012BH.

### Drums Containing Non-Potable Water

Decontamination water was drummed separately. Table H.2 lists the two drums marked "Decontamination Water," the recommended disposition of those drums, and the rationale for each recommendation.

**Table H.2**  
**Recommended Disposition of Non-Potable Water Drums**  
**101st ACS, Worcester ANGS, Worcester, Massachusetts**

Monitoring Well ID Number	Recommended Disposition	Rationale
Decontamination Water	Water should be analyzed for SVOCs, metals, and TPH.	SVOCs, metals and TPH were detected above Reportable Concentrations.
Decontamination Water	Water should be analyzed for SVOCs, metals, and TPH.	SVOCs, metals and TPH were detected above Reportable Concentrations.

TPH – Total Petroleum Hydrocarbons.

SVOCs – Semivolatile Organic Compounds.