

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65 NY: 11148

CERTIFICATE OF ANALYSIS

Client: ERM-New England Laboratory Job Number: L9908140  
Address: 399 Boylston Street Invoice Number: 30802  
6th Floor  
Boston, MA 02116 Date Received: 07-OCT-99  
Attn: John McTigue Date Reported: 26-OCT-00  
Project Number: 143.48 Delivery Method: Alpha  
Site: RAYTHEON

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ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9908140-01	T-1-1 (0-6")	WAYLAND
L9908140-02	T-1-4 (0-6")	WAYLAND
L9908140-03	T-2-6 (0-6")	WAYLAND
L9908140-04	T-2-A (0-6")	WAYLAND
L9908140-05	T-2-7 (0-6")	WAYLAND

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

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Authorized by: \_\_\_\_\_

Scott McLean - Laboratory Director

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L9908140-01 Date Collected: 07-OCT-1999  
 T-1-1 (0-6") Date Received: 07-OCT-1999  
 Sample Matrix: SOIL Date Reported: 26-OCT-00  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 1-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	89.	%	0.10	30	2540G		19-Oct ST
Sulfide, Acid Volatile	ND	umol es/gm	0.056	36	-		18-Oct DD
Simultaneously Acid Extractable Metals				36	-		18-Oct 20-Oct MD
Antimony, Simul. Extractable	ND	umol es/gm	0.022				
Bismuth, Simul. Extractable	ND	umol es/gm	0.044				
Cadmium, Simul. Extractable	ND	umol es/gm	0.002				
Chromium, Simul. Extractable	0.067	umol es/gm	0.004				
Copper, Simul. Extractable	0.252	umol es/gm	0.004				
Lead, Simul. Extractable	0.069	umol es/gm	0.022				
Mercury, Simul. Extractable	ND	umol es/gm	0.0001				
Nickel, Simul. Extractable	0.021	umol es/gm	0.011				
Zinc, Simul. Extractable	0.245	umol es/gm	0.004				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L9908140-02 Date Collected: 07-OCT-1999  
 T-1-4 (0-6") Date Received : 07-OCT-1999  
 Sample Matrix: SOIL Date Reported : 26-OCT-00  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 1-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	56.	%	0.10	30	2540G	19-Oct	ST
Sulfide, Acid Volatile	ND	umol es/gm	0.089	36	-	18-Oct	DD
Simultaneously Acid Extractable Metals				36	-	18-Oct	20-Oct MD
Antimony, Simul. Extractable	0.037	umol es/gm	0.035				
Bismuth, Simul. Extractable	ND	umol es/gm	0.071				
Cadmium, Simul. Extractable	0.006	umol es/gm	0.003				
Chromium, Simul. Extractable	17.6	umol es/gm	0.007				
Copper, Simul. Extractable	6.77	umol es/gm	0.007				
Lead, Simul. Extractable	2.65	umol es/gm	0.035				
Mercury, Simul. Extractable	0.0007	umol es/gm	0.0001				
Nickel, Simul. Extractable	1.33	umol es/gm	0.017				
Zinc, Simul. Extractable	0.678	umol es/gm	0.007				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L9908140-03 Date Collected: 07-OCT-1999  
 T-2-6 (0-6") Date Received : 07-OCT-1999  
 Sample Matrix: SOIL Date Reported : 26-OCT-00  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 1-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	62.	%	0.10	30	2540G		19-Oct ST
Sulfide, Acid Volatile	ND	umol es/gm	0.080	36	-		18-Oct DD
Simultaneously Acid Extractable Metals				36	-		18-Oct 20-Oct MD
Antimony, Simul. Extractable	ND	umol es/gm	0.032				
Bismuth, Simul. Extractable	ND	umol es/gm	0.064				
Cadmium, Simul. Extractable	0.015	umol es/gm	0.003				
Chromium, Simul. Extractable	0.718	umol es/gm	0.006				
Copper, Simul. Extractable	3.75	umol es/gm	0.006				
Lead, Simul. Extractable	0.816	umol es/gm	0.032				
Mercury, Simul. Extractable	0.0002	umol es/gm	0.0001				
Nickel, Simul. Extractable	0.082	umol es/gm	0.016				
Zinc, Simul. Extractable	1.48	umol es/gm	0.006				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L9908140-04	Date Collected: 06-OCT-1999
Sample Matrix: T-2-A (0-6") SOIL	Date Received : 07-OCT-1999
Condition of Sample: Satisfactory	Date Reported : 26-OCT-00
Number & Type of Containers: 1-Glass	Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	29.	%	0.10	30	2540G	19-Oct	ST
Sulfide, Acid Volatile	ND	umol es/gm	0.172	36	-	18-Oct	DD
Simultaneously Acid Extractable Metals				36	-	18-Oct	20-Oct MD
Antimony, Simul. Extractable	ND	umol es/gm	0.069				
Bismuth, Simul. Extractable	ND	umol es/gm	0.138				
Cadmium, Simul. Extractable	0.039	umol es/gm	0.006				
Chromium, Simul. Extractable	22.9	umol es/gm	0.013				
Copper, Simul. Extractable	35.7	umol es/gm	0.013				
Lead, Simul. Extractable	3.42	umol es/gm	0.069				
Mercury, Simul. Extractable	0.0046	umol es/gm	0.0003				
Nickel, Simul. Extractable	0.254	umol es/gm	0.034				
Zinc, Simul. Extractable	2.26	umol es/gm	0.013				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L9908140-05	Date Collected: 06-OCT-1999
Sample Matrix: T-2-7 (0-6")	Date Received : 07-OCT-1999
Sample Matrix: SOIL	Date Reported : 26-OCT-00
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Glass	

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	24.	%	0.10	30	2540G	19-Oct	ST
Sulfide, Acid Volatile	ND	umol es/gm	0.208	36	-	18-Oct	DD
Simultaneously Acid Extractable Metals				36	-	18-Oct	20-Oct MD
Antimony, Simul. Extractable	0.098	umol es/gm	0.083				
Bismuth, Simul. Extractable	ND	umol es/gm	0.167				
Cadmium, Simul. Extractable	0.086	umol es/gm	0.008				
Chromium, Simul. Extractable	48.0	umol es/gm	0.016				
Copper, Simul. Extractable	129.	umol es/gm	0.016				
Lead, Simul. Extractable	4.70	umol es/gm	0.083				
Mercury, Simul. Extractable	0.0007	umol es/gm	0.0004				
Nickel, Simul. Extractable	0.129	umol es/gm	0.041				
Zinc, Simul. Extractable	2.21	umol es/gm	0.016				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L9908140

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Parameter	Value 1	Value 2	RPD	Units
Solids, Total for sample(s) 01-05 (L9908140-01, WG41803)				
Solids, Total	89.	89.	0	%

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ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L9908140

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Parameter	% Recovery
Sulfide, Acid Volatile LCS for sample(s) 01-05 (WG41746)	
Sulfide, Acid Volatile	83

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ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L9908140

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 01-05							
Sulfide, Acid Volatile	ND	umoles/gm	0.050	36	-	18-Oct	DD

ALPHA ANALYTICAL LABORATORIES  
ADDENDUM I

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REFERENCES

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
36. Draft Analytical Method for Determination of Acid Volatile Sulfide and Selected Simultaneously Extractable Metals in Sediment. PB93-155901, 1991.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.

METHOD Method number by which analysis was performed.

ID Initials of the analyst.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at its own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

Eight Walkup Drive Westborough, MA 01581  
 PH: 508.898.9220 FAX: 508.898.9193 www.alphalab.com

No 001527

Sheet 1 of \_\_\_\_\_

Date Rec'd in Lab: 10/7 Date Due: 10/21

Client Name: ERM  
 Client Address: 399 Boylston St., 6<sup>th</sup> Fl.  
Boston, MA 02116  
 Phone #: (617) 267-6377 FAX #: (617) 267-6477

Project Name: Rathenon -  
 Project Location: Weyland  
 Project #: 143.48  
 Project Manager: John McTigue

Report To: John McTigue  
 Bill To: ERM  
 PO#: 143.48

- Standard TAT
- RUSH TAT \_\_\_\_\_ ( \* DAYS)
- FAX Results
- State Forms
- Smart Report -

**Comments** (Please note specific method, detection limit or reporting requirements.)  
Referto Alpha B115 - Reused  
see Ellen or Scott  
or call John McTigue

**ANALYSIS REQUEST**

ALPHA Lab #	Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	PCBs 8082	PAMS 8270	EPH Standard	ICP METALS LSK	TOC	AUS/SEM	VPM				
	T-1-B (0-6")			11:15			✓	✓	✓	✓	✓						
	T-1-B (12-18")			11:19			✓	✓	✓	✓	✓						
8140.1	T-1-1 (0-6")			11:20			✓	✓	✓	✓	✓	✓					
	T-1-1 (12-18")			11:20			✓	✓	✓	✓	✓	✓					
2	T-1-4 (0-6")			11:05			✓	✓	✓	✓	✓	✓					
	T-1-4 (12-18")			11:05			✓	✓	✓	✓	✓	✓					
	T-1-6 (0-6")			11:00			✓	✓	✓	✓	✓	✓					
	T-2-D (0-6")			7:50			✓	✓	✓	✓	✓	✓					
	T-2-D (12-18")			7:52			✓	✓	✓	✓	✓	✓					
3	T-2-6 (0-6")			9:15			✓	✓	✓	✓	✓	✓	✓				

Transfers Accepted By:	Date	Time
<u>[Signature]</u>	<u>10/19/99</u>	<u>3:15</u>
<u>[Signature]</u>	<u>10/19/99</u>	<u>11:02</u>
<u>[Signature]</u>		
<u>[Signature]</u>		

All samples submitted are subject to Alpha's standard Terms and Conditions.  
 \* See Reverse side for Matrix, Container, and Preservative Codes.

# of Containers:	
Container Type: *	<u>6</u>
Preservative: *	<u>A</u>

# ALPHA Analytical Laboratories, Inc.

Eight Walkup Drive Westborough, MA 01581  
 PH: 508.898.9220 FAX: 508.898.9193 www.alphalab.com

## CHAIN OF CUSTODY

No 001528

Sheet 2 of \_\_\_\_\_

9908140

Date Rec'd in Lab: 10/7

Date Due: 10/21

Client Name: ERM  
 Client Address: 399 Boylston St., 6<sup>th</sup> Flr  
Boston, MA 02116  
 Phone #: (617) 267-8377 FAX #: 267-6447

Project Name: Raytheon -  
 Project Location: Wayland  
 Project #: 143.48  
 Project Manager: John McTigue

Report To: John McTigue  
 Bill To: ERM  
 PO#: 143.48

- Standard TAT
- RUSH TAT \_\_\_\_\_  
(# DAYS)
- FAX Results
- State Forms
- Smart Report

Comments (Please note specific method, detection limit or reporting requirements.)

### ANALYSIS REQUEST

ALPHA Lab #	Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	PCBs 8082	PAHs 8270	OPM Deluxe	TUC	<del>AVS</del> AVS/SEM	VPM	ICP Metals	
8140, 4	T-2-A (0-6")			8:10			✓	✓	✓	✓	✓	✓	✓	
	T-2-A (12-18")			8:15			✓	✓	✓	✓	✓	✓	✓	
	T-2-A (18")			8:17			✓	✓	✓	✓	✓	✓	✓	
	T-2-8 (0-6")			8:30			✓	✓	✓	✓	✓	✓	✓	
	T-2-8 (12-18")			8:30			✓	✓	✓	✓	✓	✓	✓	
	T-2-8 (18")			8:35			✓	✓	✓	✓	✓	✓	✓	
5	T-2-7 (0-6")	sediment	10/6/99	8:53	RBC	N	✓	✓	✓	✓	✓	✓	✓	
	T-2-7 (12-18")			8:57			✓	✓	✓	✓	✓	✓	✓	✓
	T-2-7 (18")			9:00			✓	✓	✓	✓	✓	✓	✓	✓

Transfers Accepted By:	Date	Time
<i>[Signature]</i>	10/14/99	17:20
<i>[Signature]</i>	10/19/99	17:02
Transfers Relinquished By:		
<i>[Signature]</i>		
<i>[Signature]</i>		

All samples submitted are subject to Alpha's standard Terms and Conditions.  
 \* See Reverse side for Matrix, Container, and Preservative Codes.

# of Containers: \_\_\_\_\_  
 Container Type: \* G  
 Preservative: \* A

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220

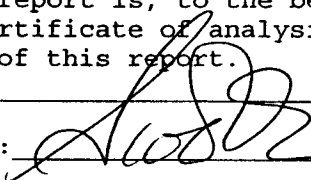
MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

CERTIFICATE OF ANALYSIS

Client: ERM-New England Laboratory Job Number: L9908768  
Address: 399 Boylston Street Invoice Number: 31296  
6th Floor Date Received: 29-OCT-99  
Boston, MA 02116 Date Reported: 08-NOV-99  
Attn: John McTigue Delivery Method: Alpha  
Project Number: 143.48  
Site: RAYTHEON

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9908768-01	T-3-5 PLANT	WAYLAND, MA
L9908768-02	T-3-8 PLANT	WAYLAND, MA
L9908768-03	T-5-2 PLANT	WAYLAND, MA
L9908768-04	T-9-5 PLANT	WAYLAND, MA
L9908768-05	T-7-1 PLANT	WAYLAND, MA
L9908768-06	T-2-11 (0-6")	WAYLAND, MA
L9908768-07	T-2-G (0-6")	WAYLAND, MA
L9908768-08	T-3-A (0-6")	WAYLAND, MA
L9908768-09	T-1-C (0-6")	WAYLAND, MA
L9908768-10	T-3-C (0-6")	WAYLAND, MA
L9908768-11	T-5-F (0-6")	WAYLAND, MA
L9908768-12	T-5-D (0-6")	WAYLAND, MA
L9908768-13	T-5-11 (0-6")	WAYLAND, MA
L9908768-14	T-7-B (0-6")	WAYLAND, MA
L9908768-15	T-7-13 (0-6")	WAYLAND, MA
L9908768-16	T-8-F (0-6")	WAYLAND, MA

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: 

Scott McLean - Laboratory Director

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908768-01  
T-3-5 PLANT

Date Collected: 28-OCT-1999  
Date Received : 29-OCT-1999  
Date Reported : 08-NOV-99

Sample Matrix: SOIL

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 3-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES	
						PREP	ANALYSIS
Solids, Total	56.	%	0.10	30	2540G		01-Nov
Chromium, Hexavalent	ND	mg/kg	0.89	1	7196A		02-Nov
Total Metals					1	3051	
Aluminum, Total	11000	mg/kg	7.1	1	6010B	01-Nov	02-Nov
Antimony, Total	6.4	mg/kg	3.6	1	6010B	01-Nov	02-Nov
Arsenic, Total	9.5	mg/kg	0.71	1	6010B	01-Nov	02-Nov
Barium, Total	85.	mg/kg	0.71	1	6010B	01-Nov	02-Nov
Beryllium, Total	0.77	mg/kg	0.36	1	6010B	01-Nov	02-Nov
Cadmium, Total	2.2	mg/kg	0.71	1	6010B	01-Nov	02-Nov
Calcium, Total	1500	mg/kg	36.	1	6010B	01-Nov	02-Nov
Chromium, Total	1300	mg/kg	0.71	1	6010B	01-Nov	02-Nov
Cobalt, Total	5.5	mg/kg	1.4	1	6010B	01-Nov	02-Nov
Copper, Total	1200	mg/kg	0.71	1	6010B	01-Nov	02-Nov
Iron, Total	14000	mg/kg	3.6	1	6010B	01-Nov	02-Nov
Lead, Total	180	mg/kg	3.6	1	6010B	01-Nov	02-Nov
Magnesium, Total	3200	mg/kg	7.1	1	6010B	01-Nov	02-Nov
Manganese, Total	230	mg/kg	0.71	1	6010B	01-Nov	02-Nov
Mercury, Total	0.95	mg/kg	0.08	1	7471A	03-Nov	04-Nov
Nickel, Total	16.	mg/kg	1.8	1	6010B	01-Nov	02-Nov
Potassium, Total	850	mg/kg	180	1	6010B	01-Nov	02-Nov
Selenium, Total	ND	mg/kg	1.4	1	6010B	01-Nov	02-Nov
Silver, Total	76.	mg/kg	0.71	1	6010B	01-Nov	02-Nov
Sodium, Total	110	mg/kg	36.	1	6010B	01-Nov	02-Nov
Thallium, Total	ND	mg/kg	1.4	1	6010B	01-Nov	02-Nov
Tin, Total	ND	mg/kg	3.6	1	6010B	01-Nov	02-Nov
Vanadium, Total	59.	mg/kg	0.71	1	6010B	01-Nov	02-Nov
Zinc, Total	150	mg/kg	3.6	1	6010B	01-Nov	02-Nov
PAH by GC/MS SIM 8270M					1	8270C-M	02-Nov 05-Nov
Acenaphthene	ND	ug/kg	36.				
2-Chloronaphthalene	ND	ug/kg	36.				
Fluoranthene	320	ug/kg	36.				
Naphthalene	ND	ug/kg	36.				
Benzo(a)anthracene	120	ug/kg	36.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908768-01  
T-3-5 PLANT

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	02-Nov 05-Nov	MK
Benzo(a,e)pyrene	170	ug/kg	36.				
Benzo(b)fluoranthene	290	ug/kg	36.				
Benzo(k)fluoranthene	250	ug/kg	36.				
Chrysene	280	ug/kg	36.				
Acenaphthylene	ND	ug/kg	36.				
Anthracene	ND	ug/kg	36.				
Benzo(ghi)perylene	190	ug/kg	36.				
Fluorene	ND	ug/kg	36.				
Phenanthrene	140	ug/kg	36.				
Dibenzo(a,h)anthracene	57.	ug/kg	36.				
Indeno(1,2,3-cd)Pyrene	200	ug/kg	36.				
Pyrene	270	ug/kg	36.				
1-Methylnaphthalene	ND	ug/kg	36.				
2-Methylnaphthalene	ND	ug/kg	36.				
Perylene	ND	ug/kg	36.				
Biphenyl	ND	ug/kg	36.				
Surrogate Recovery							
Nitrobenzene-d5	51.0	%					
2-Fluorobiphenyl	58.0	%					
4-Terphenyl-d14	56.0	%					
Polychlorinated Biphenyls				1	8082	01-Nov 03-Nov	PB
Aroclor 1221	ND	ug/kg	466.				
Aroclor 1232	ND	ug/kg	466.				
Aroclor 1242/1016	ND	ug/kg	466.				
Aroclor 1248	ND	ug/kg	466.				
Aroclor 1254	ND	ug/kg	466.				
Aroclor 1260	728.	ug/kg	466.				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	82.0	%					
Decachlorobiphenyl	72.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908768-02  
 T-3-8 PLANT  
 Sample Matrix: SOIL  
 Condition of Sample: Satisfactory  
 Number & Type of Containers: 3-Glass

Date Collected: 28-OCT-1999  
 Date Received : 29-OCT-1999  
 Date Reported : 08-NOV-99  
 Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES	
						PREP	ANALYSIS
Solids, Total	15.	%	0.10	30	2540G	01-Nov	
Chromium, Hexavalent	ND	mg/kg	6.7	1	7196A	02-Nov	
Total Metals				1	3051		
Aluminum, Total	8400	mg/kg	26.	1	6010B	01-Nov	02-Nov
Antimony, Total	43.	mg/kg	13.	1	6010B	01-Nov	02-Nov
Arsenic, Total	84.	mg/kg	2.6	1	6010B	01-Nov	02-Nov
Barium, Total	350	mg/kg	2.6	1	6010B	01-Nov	02-Nov
Beryllium, Total	ND	mg/kg	1.3	1	6010B	01-Nov	02-Nov
Cadmium, Total	7.1	mg/kg	2.6	1	6010B	01-Nov	02-Nov
Calcium, Total	11000	mg/kg	130	1	6010B	01-Nov	02-Nov
Chromium, Total	9600	mg/kg	2.6	1	6010B	01-Nov	02-Nov
Cobalt, Total	ND	mg/kg	5.3	1	6010B	01-Nov	02-Nov
Copper, Total	6200	mg/kg	2.6	1	6010B	01-Nov	02-Nov
Iron, Total	57000	mg/kg	13.	1	6010B	01-Nov	02-Nov
Lead, Total	1300	mg/kg	13.	1	6010B	01-Nov	02-Nov
Magnesium, Total	3500	mg/kg	26.	1	6010B	01-Nov	02-Nov
Manganese, Total	870	mg/kg	2.6	1	6010B	01-Nov	02-Nov
Mercury, Total	8.7	mg/kg	0.20	1	7471A	03-Nov	04-Nov
Nickel, Total	30.	mg/kg	6.6	1	6010B	01-Nov	02-Nov
Potassium, Total	ND	mg/kg	660	1	6010B	01-Nov	02-Nov
Selenium, Total	ND	mg/kg	5.3	1	6010B	01-Nov	02-Nov
Silver, Total	340	mg/kg	2.6	1	6010B	01-Nov	02-Nov
Sodium, Total	560	mg/kg	130	1	6010B	01-Nov	02-Nov
Thallium, Total	ND	mg/kg	5.3	1	6010B	01-Nov	02-Nov
Tin, Total	150	mg/kg	13.	1	6010B	01-Nov	02-Nov
Vanadium, Total	150	mg/kg	2.6	1	6010B	01-Nov	02-Nov
Zinc, Total	370	mg/kg	13.	1	6010B	01-Nov	02-Nov
PAH by GC/MS SIM 8270M				1	8270C-M	02-Nov	05-Nov
Acenaphthene	150	ug/kg	130				
2-Chloronaphthalene	ND	ug/kg	130				
Fluoranthene	3300	ug/kg	130				
Naphthalene	ND	ug/kg	130				
Benzo(a)anthracene	1400	ug/kg	130				

Comments: Complete list of References and Glossary of Terms found in Addendum I



ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908768-02  
T-3-8 PLANT

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	02-Nov 05-Nov	MK
Benzo (a, e) pyrene	2200	ug/kg	130				
Benzo (b) fluoranthene	2400	ug/kg	130				
Benzo (k) fluoranthene	2200	ug/kg	130				
Chrysene	2500	ug/kg	130				
Acenaphthylene	140	ug/kg	130				
Anthracene	930	ug/kg	130				
Benzo (ghi) perylene	2500	ug/kg	130				
Fluorene	130	ug/kg	130				
Phenanthrene	1800	ug/kg	130				
Dibenzo (a, h) anthracene	620	ug/kg	130				
Indeno (1, 2, 3-cd) Pyrene	2400	ug/kg	130				
Pyrene	2800	ug/kg	130				
1-Methylnaphthalene	ND	ug/kg	130				
2-Methylnaphthalene	ND	ug/kg	130				
Perylene	460	ug/kg	130				
Biphenyl	ND	ug/kg	130				
Surrogate Recovery							
Nitrobenzene-d5	53.0	%					
2-Fluorobiphenyl	63.0	%					
4-Terphenyl-d14	61.0	%					
Polychlorinated Biphenyls				1	8082	01-Nov 03-Nov	PB
Aroclor 1221	ND	ug/kg	1670				
Aroclor 1232	ND	ug/kg	1670				
Aroclor 1242/1016	ND	ug/kg	1670				
Aroclor 1248	ND	ug/kg	1670				
Aroclor 1254	ND	ug/kg	1670				
Aroclor 1260	3580	ug/kg	1670				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	55.0	%					
Decachlorobiphenyl	46.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908768-03

Date Collected: 28-OCT-1999

T-5-2 PLANT

Date Received : 29-OCT-1999

Sample Matrix: SOIL

Date Reported : 08-NOV-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 3-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		
						PREP	ANALYSIS	
Solids, Total	22.	%	0.10	30	2540G		01-Nov	J
Chromium, Hexavalent	ND	mg/kg	5.7	1	7196A		02-Nov	J
Total Metals				1	3051			
Aluminum, Total	9300	mg/kg	18.	1	6010B	01-Nov	02-Nov	P
Antimony, Total	24.	mg/kg	9.0	1	6010B	01-Nov	02-Nov	TT
Arsenic, Total	23.	mg/kg	1.8	1	6010B	01-Nov	02-Nov	TT
Barium, Total	240	mg/kg	1.8	1	6010B	01-Nov	02-Nov	T
Beryllium, Total	ND	mg/kg	0.90	1	6010B	01-Nov	02-Nov	T
Cadmium, Total	7.7	mg/kg	1.8	1	6010B	01-Nov	02-Nov	TT
Calcium, Total	3300	mg/kg	90.	1	6010B	01-Nov	02-Nov	P
Chromium, Total	5200	mg/kg	1.8	1	6010B	01-Nov	02-Nov	T
Cobalt, Total	5.5	mg/kg	3.6	1	6010B	01-Nov	02-Nov	T
Copper, Total	3900	mg/kg	1.8	1	6010B	01-Nov	02-Nov	TT
Iron, Total	19000	mg/kg	9.0	1	6010B	01-Nov	02-Nov	P
Lead, Total	640	mg/kg	9.0	1	6010B	01-Nov	02-Nov	T
Magnesium, Total	3100	mg/kg	18.	1	6010B	01-Nov	02-Nov	LP
Manganese, Total	340	mg/kg	1.8	1	6010B	01-Nov	02-Nov	LP
Mercury, Total	2.8	mg/kg	0.09	1	7471A	03-Nov	04-Nov	M
Nickel, Total	26.	mg/kg	4.5	1	6010B	01-Nov	02-Nov	T
Potassium, Total	960	mg/kg	450	1	6010B	01-Nov	02-Nov	LP
Selenium, Total	ND	mg/kg	3.6	1	6010B	01-Nov	02-Nov	TT
Silver, Total	120	mg/kg	1.8	1	6010B	01-Nov	02-Nov	T
Sodium, Total	340	mg/kg	90.	1	6010B	01-Nov	02-Nov	T
Thallium, Total	ND	mg/kg	3.6	1	6010B	01-Nov	02-Nov	TT
Tin, Total	52.	mg/kg	9.0	1	6010B	01-Nov	02-Nov	P
Vanadium, Total	88.	mg/kg	1.8	1	6010B	01-Nov	02-Nov	T
Zinc, Total	400	mg/kg	9.0	1	6010B	01-Nov	02-Nov	TT
PAH by GC/MS SIM 8270M				1	8270C-M	01-Nov	06-Nov	K
Acenaphthene	840	ug/kg	91.					
2-Chloronaphthalene	ND	ug/kg	91.					
Fluoranthene	22000	ug/kg	91.					
Naphthalene	210	ug/kg	91.					
Benzo(a)anthracene	8400	ug/kg	91.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908768-03  
T-5-2 PLANT

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	01-Nov 06-Nov	MK
Benzo (a, e) pyrene	9500	ug/kg	91.				
Benzo (b) fluoranthene	12000	ug/kg	91.				
Benzo (k) fluoranthene	10000	ug/kg	91.				
Chrysene	13000	ug/kg	91.				
Acenaphthylene	140	ug/kg	91.				
Anthracene	2400	ug/kg	91.				
Benzo (ghi) perylene	7200	ug/kg	91.				
Fluorene	890	ug/kg	91.				
Phenanthrene	12000	ug/kg	91.				
Dibenzo (a, h) anthracene	2100	ug/kg	91.				
Indeno (1, 2, 3-cd) Pyrene	7600	ug/kg	91.				
Pyrene	17000	ug/kg	91.				
1-Methylnaphthalene	ND	ug/kg	91.				
2-Methylnaphthalene	ND	ug/kg	91.				
Perylene	1900	ug/kg	91.				
Biphenyl	ND	ug/kg	91.				
Surrogate Recovery							
Nitrobenzene-d5	37.0	%					
2-Fluorobiphenyl	37.0	%					
4-Terphenyl-d14	33.0	%					
Polychlorinated Biphenyls				1	8082	01-Nov 03-Nov	PB
Aroclor 1221	ND	ug/kg	1120				
Aroclor 1232	ND	ug/kg	1120				
Aroclor 1242/1016	ND	ug/kg	1120				
Aroclor 1248	ND	ug/kg	1120				
Aroclor 1254	ND	ug/kg	1120				
Aroclor 1260	13600	ug/kg	1120				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	60.0	%					
Decachlorobiphenyl	50.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908768-04

Date Collected: 28-OCT-1999

T-9-5 PLANT

Date Received : 29-OCT-1999

Sample Matrix:

SOIL

Date Reported : 08-NOV-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 3-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID	
						PREP	ANALYSIS		
Solids, Total	18.	%	0.10	30	2540G		01-Nov		
Chromium, Hexavalent	ND	mg/kg	14.	1	7196A		02-Nov		
Total Metals					1	3051			
Aluminum, Total	5500	mg/kg	22.	1	6010B	01-Nov	02-Nov	I	
Antimony, Total	ND	mg/kg	11.	1	6010B	01-Nov	02-Nov		
Arsenic, Total	7.7	mg/kg	2.2	1	6010B	01-Nov	02-Nov	TT	
Barium, Total	67.	mg/kg	2.2	1	6010B	01-Nov	02-Nov	TT	
Beryllium, Total	ND	mg/kg	1.1	1	6010B	01-Nov	02-Nov	TT	
Cadmium, Total	3.4	mg/kg	2.2	1	6010B	01-Nov	02-Nov	TT	
Calcium, Total	4400	mg/kg	110	1	6010B	01-Nov	02-Nov	LP	
Chromium, Total	140	mg/kg	2.2	1	6010B	01-Nov	02-Nov		
Cobalt, Total	5.8	mg/kg	4.4	1	6010B	01-Nov	02-Nov		
Copper, Total	280	mg/kg	2.2	1	6010B	01-Nov	02-Nov	TT	
Iron, Total	7300	mg/kg	11.	1	6010B	01-Nov	02-Nov	LP	
Lead, Total	220	mg/kg	11.	1	6010B	01-Nov	02-Nov		
Magnesium, Total	1100	mg/kg	22.	1	6010B	01-Nov	02-Nov	I	
Manganese, Total	270	mg/kg	2.2	1	6010B	01-Nov	02-Nov	LP	
Mercury, Total	1.2	mg/kg	0.11	1	7471A	03-Nov	04-Nov	DM	
Nickel, Total	18.	mg/kg	5.5	1	6010B	01-Nov	02-Nov	I	
Potassium, Total	ND	mg/kg	550	1	6010B	01-Nov	02-Nov	LP	
Selenium, Total	ND	mg/kg	4.4	1	6010B	01-Nov	02-Nov	TT	
Silver, Total	9.9	mg/kg	2.2	1	6010B	01-Nov	02-Nov	TT	
Sodium, Total	380	mg/kg	110	1	6010B	01-Nov	02-Nov	I	
Thallium, Total	ND	mg/kg	4.4	1	6010B	01-Nov	02-Nov	TT	
Tin, Total	ND	mg/kg	11.	1	6010B	01-Nov	02-Nov	LP	
Vanadium, Total	42.	mg/kg	2.2	1	6010B	01-Nov	02-Nov		
Zinc, Total	140	mg/kg	11.	1	6010B	01-Nov	02-Nov	TT	
PAH by GC/MS SIM 8270M					1	8270C-M	01-Nov	05-Nov	MK
Acenaphthene	ND	ug/kg	110						
2-Chloronaphthalene	ND	ug/kg	110						
Fluoranthene	770	ug/kg	110						
Naphthalene	ND	ug/kg	110						
Benzo(a)anthracene	250	ug/kg	110						

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9908768-04  
T-9-5 PLANT

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	01-Nov 05-Nov	MK
Benzo (a, e) pyrene	390	ug/kg	110				
Benzo (b) fluoranthene	700	ug/kg	110				
Benzo (k) fluoranthene	490	ug/kg	110				
Chrysene	610	ug/kg	110				
Acenaphthylene	ND	ug/kg	110				
Anthracene	ND	ug/kg	110				
Benzo (ghi) perylene	380	ug/kg	110				
Fluorene	ND	ug/kg	110				
Phenanthrene	300	ug/kg	110				
Dibenzo (a, h) anthracene	ND	ug/kg	110				
Indeno (1, 2, 3-cd) Pyrene	390	ug/kg	110				
Pyrene	690	ug/kg	110				
1-Methylnaphthalene	ND	ug/kg	110				
2-Methylnaphthalene	ND	ug/kg	110				
Perylene	ND	ug/kg	110				
Biphenyl	ND	ug/kg	110				
Surrogate Recovery							
Nitrobenzene-d5	46.0	%					
2-Fluorobiphenyl	35.0	%					
4-Terphenyl-d14	32.0	%					
Polychlorinated Biphenyls				1	8082	01-Nov 05-Nov	PB
Aroclor 1221	ND	ug/kg	694.				
Aroclor 1232	ND	ug/kg	694.				
Aroclor 1242/1016	ND	ug/kg	694.				
Aroclor 1248	ND	ug/kg	694.				
Aroclor 1254	ND	ug/kg	694.				
Aroclor 1260	1210	ug/kg	694.				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	48.0	%					
Decachlorobiphenyl	51.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908768-05

Date Collected: 28-OCT-1999

T-7-1 PLANT

Date Received : 29-OCT-1999

Sample Matrix: SOIL

Date Reported : 08-NOV-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 3-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES	
						PREP	ANALYSIS
Solids, Total	20.	%	0.10	30	2540G		01-Nov
Chromium, Hexavalent	ND	mg/kg	12.	1	7196A		02-Nov
Total Metals				1	3051		
Aluminum, Total	9900	mg/kg	20.	1	6010B	01-Nov	02-Nov
Antimony, Total	ND	mg/kg	9.8	1	6010B	01-Nov	02-Nov
Arsenic, Total	12.	mg/kg	2.0	1	6010B	01-Nov	02-Nov
Barium, Total	140	mg/kg	2.0	1	6010B	01-Nov	02-Nov
Beryllium, Total	ND	mg/kg	0.98	1	6010B	01-Nov	02-Nov
Cadmium, Total	2.3	mg/kg	2.0	1	6010B	01-Nov	02-Nov
Calcium, Total	2000	mg/kg	98.	1	6010B	01-Nov	02-Nov
Chromium, Total	1300	mg/kg	2.0	1	6010B	01-Nov	02-Nov
Cobalt, Total	4.4	mg/kg	3.9	1	6010B	01-Nov	02-Nov
Copper, Total	3000	mg/kg	2.0	1	6010B	01-Nov	02-Nov
Iron, Total	14000	mg/kg	9.8	1	6010B	01-Nov	02-Nov
Lead, Total	640	mg/kg	9.8	1	6010B	01-Nov	02-Nov
Magnesium, Total	3100	mg/kg	20.	1	6010B	01-Nov	02-Nov
Manganese, Total	180	mg/kg	2.0	1	6010B	01-Nov	02-Nov
Mercury, Total	2.8	mg/kg	0.10	1	7471A	03-Nov	04-Nov
Nickel, Total	20.	mg/kg	4.9	1	6010B	01-Nov	02-Nov
Potassium, Total	620	mg/kg	490	1	6010B	01-Nov	02-Nov
Selenium, Total	ND	mg/kg	3.9	1	6010B	01-Nov	02-Nov
Silver, Total	270	mg/kg	2.0	1	6010B	01-Nov	02-Nov
Sodium, Total	320	mg/kg	98.	1	6010B	01-Nov	02-Nov
Thallium, Total	ND	mg/kg	3.9	1	6010B	01-Nov	02-Nov
Tin, Total	12.	mg/kg	9.8	1	6010B	01-Nov	02-Nov
Vanadium, Total	87.	mg/kg	2.0	1	6010B	01-Nov	02-Nov
Zinc, Total	140	mg/kg	9.8	1	6010B	01-Nov	02-Nov
PAH by GC/MS SIM 8270M				1	8270C-M	01-Nov	06-Nov
Acenaphthene	120	ug/kg	100				
2-Chloronaphthalene	ND	ug/kg	100				
Fluoranthene	7900	ug/kg	100				
Naphthalene	ND	ug/kg	100				
Benzo(a)anthracene	3000	ug/kg	100				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9908768-05  
T-7-1 PLANT

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	01-Nov 06-Nov	MK
Benzo (a, e) pyrene	4600	ug/kg	100				
Benzo (b) fluoranthene	7600	ug/kg	100				
Benzo (k) fluoranthene	5400	ug/kg	100				
Chrysene	6300	ug/kg	100				
Acenaphthylene	ND	ug/kg	100				
Anthracene	400	ug/kg	100				
Benzo (ghi) perylene	4600	ug/kg	100				
Fluorene	110	ug/kg	100				
Phenanthrene	2700	ug/kg	100				
Dibenzo (a, h) anthracene	1200	ug/kg	100				
Indeno (1, 2, 3-cd) Pyrene	4800	ug/kg	100				
Pyrene	6500	ug/kg	100				
1-Methylnaphthalene	ND	ug/kg	100				
2-Methylnaphthalene	ND	ug/kg	100				
Perylene	840	ug/kg	100				
Biphenyl	ND	ug/kg	100				
Surrogate Recovery							
Nitrobenzene-d5	35.0	%					
2-Fluorobiphenyl	33.0	%					
4-Terphenyl-d14	37.0	%					
Polychlorinated Biphenyls				1	8082	01-Nov 03-Nov	PB
Aroclor 1221	ND	ug/kg	1250				
Aroclor 1232	ND	ug/kg	1250				
Aroclor 1242/1016	ND	ug/kg	1250				
Aroclor 1248	ND	ug/kg	1250				
Aroclor 1254	ND	ug/kg	1250				
Aroclor 1260	7900	ug/kg	1250				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	64.0	%					
Decachlorobiphenyl	59.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908768-06  
T-2-11 (0-6")  
Sample Matrix: SOIL

Date Collected: 29-OCT-1999  
Date Received : 29-OCT-1999  
Date Reported : 08-NOV-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Solids, Total	85.	%	0.10	30	2540G		01-Nov	
PAH by GC/MS SIM 8270M				1	8270C-M		01-Nov 06-Nov	MK
Acenaphthene	86.	ug/kg	47.					
2-Chloronaphthalene	ND	ug/kg	47.					
Fluoranthene	7000	ug/kg	47.					
Naphthalene	ND	ug/kg	47.					
Benzo (a) anthracene	2400	ug/kg	47.					
Benzo (a, e) pyrene	3100	ug/kg	47.					
Benzo (b) fluoranthene	3800	ug/kg	47.					
Benzo (k) fluoranthene	3400	ug/kg	47.					
Chrysene	3900	ug/kg	47.					
Acenaphthylene	ND	ug/kg	47.					
Anthracene	420	ug/kg	47.					
Benzo (ghi) perylene	2600	ug/kg	47.					
Fluorene	120	ug/kg	47.					
Phenanthrene	3000	ug/kg	47.					
Dibenzo (a, h) anthracene	710	ug/kg	47.					
Indeno (1, 2, 3-cd) Pyrene	2600	ug/kg	47.					
Pyrene	5400	ug/kg	47.					
1-Methylnaphthalene	ND	ug/kg	47.					
2-Methylnaphthalene	ND	ug/kg	47.					
Perylene	650	ug/kg	47.					
Biphenyl	ND	ug/kg	47.					
Surrogate Recovery								
Nitrobenzene-d5	43.0	%						
2-Fluorobiphenyl	60.0	%						
4-Terphenyl-d14	64.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9908768-06  
T-2-11 (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
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Extractable Petroleum Hydrocarbons				46	98-1	01-Nov 04-Nov	HL
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Quality Control Information

Condition of sample received:	Satisfactory	
Sample temperature upon receipt:	Received on Ice	
Sample extraction method:	Extracted Per the Method	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO

Please note to subtract the method blank from the stated result.  
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.  
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.

C9-C18 Aliphatics	ND	mg/kg	58.8
C19-C36 Aliphatics	162.	mg/kg	58.8
C11-C22 Aromatics	131.	mg/kg	58.8

Surrogate Recovery

Chloro-Octadecane	88.0	%
o-Terphenyl	105.	%
2-Fluorobiphenyl	88.0	%
2-Bromonaphthalene	59.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908768-07  
 T-2-G (0-6")  
 Sample Matrix: SOIL  
 Condition of Sample: Satisfactory  
 Number & Type of Containers: 3-Glass

Date Collected: 29-OCT-1999  
 Date Received : 29-OCT-1999  
 Date Reported : 08-NOV-99  
 Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		
						PREP	ANALYSIS	
Solids, Total	92.	%	0.10	30	2540G		01-Nov	J
Chromium, Hexavalent	ND	mg/kg	0.54	1	7196A		02-Nov	J
Total Metals				1	3051			
Aluminum, Total	3500	mg/kg	4.3	1	6010B	01-Nov	02-Nov	P
Antimony, Total	ND	mg/kg	2.1	1	6010B	01-Nov	02-Nov	TT
Arsenic, Total	3.3	mg/kg	0.43	1	6010B	01-Nov	02-Nov	TT
Barium, Total	19.	mg/kg	0.43	1	6010B	01-Nov	02-Nov	F
Beryllium, Total	0.29	mg/kg	0.21	1	6010B	01-Nov	02-Nov	F
Cadmium, Total	0.217	mg/kg	0.215	1	6010B	01-Nov	02-Nov	TT
Calcium, Total	1200	mg/kg	21.	1	6010B	01-Nov	02-Nov	LP
Chromium, Total	7.4	mg/kg	0.43	1	6010B	01-Nov	02-Nov	F
Cobalt, Total	2.9	mg/kg	0.86	1	6010B	01-Nov	02-Nov	T
Copper, Total	12.	mg/kg	0.43	1	6010B	01-Nov	02-Nov	TT
Iron, Total	5800	mg/kg	2.1	1	6010B	01-Nov	02-Nov	P
Lead, Total	12.	mg/kg	2.1	1	6010B	01-Nov	02-Nov	F
Magnesium, Total	1500	mg/kg	4.3	1	6010B	01-Nov	02-Nov	LP
Manganese, Total	100	mg/kg	0.43	1	6010B	01-Nov	02-Nov	LP
Mercury, Total	ND	mg/kg	0.05	1	7471A	03-Nov	04-Nov	M
Nickel, Total	6.4	mg/kg	1.1	1	6010B	01-Nov	02-Nov	F
Potassium, Total	520	mg/kg	110	1	6010B	01-Nov	02-Nov	LP
Selenium, Total	ND	mg/kg	0.86	1	6010B	01-Nov	02-Nov	TT
Silver, Total	ND	mg/kg	0.215	1	6010B	01-Nov	02-Nov	F
Sodium, Total	34.	mg/kg	21.	1	6010B	01-Nov	02-Nov	P
Thallium, Total	ND	mg/kg	0.86	1	6010B	01-Nov	02-Nov	TT
Tin, Total	ND	mg/kg	4.3	1	6010B	01-Nov	03-Nov	P
Vanadium, Total	10.	mg/kg	0.43	1	6010B	01-Nov	02-Nov	F
Zinc, Total	27.	mg/kg	2.1	1	6010B	01-Nov	02-Nov	TT
PAH by GC/MS SIM 8270M				1	8270C-M	01-Nov	05-Nov	K
Acenaphthene	ND	ug/kg	22.					
2-Chloronaphthalene	ND	ug/kg	22.					
Fluoranthene	77.	ug/kg	22.					
Naphthalene	ND	ug/kg	22.					
Benzo(a)anthracene	32.	ug/kg	22.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908768-07  
T-2-G (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	01-Nov 05-Nov	MK
Benzo (a, e) pyrene	32.	ug/kg	22.				
Benzo (b) fluoranthene	47.	ug/kg	22.				
Benzo (k) fluoranthene	41.	ug/kg	22.				
Chrysene	50.	ug/kg	22.				
Acenaphthylene	ND	ug/kg	22.				
Anthracene	ND	ug/kg	22.				
Benzo (ghi) perylene	25.	ug/kg	22.				
Fluorene	ND	ug/kg	22.				
Phenanthrene	28.	ug/kg	22.				
Dibenzo (a, h) anthracene	ND	ug/kg	22.				
Indeno (1, 2, 3-cd) Pyrene	26.	ug/kg	22.				
Pyrene	69.	ug/kg	22.				
1-Methylnaphthalene	ND	ug/kg	22.				
2-Methylnaphthalene	ND	ug/kg	22.				
Perylene	ND	ug/kg	22.				
Biphenyl	ND	ug/kg	22.				
Surrogate Recovery							
Nitrobenzene-d5	68.0	%					
2-Fluorobiphenyl	81.0	%					
4-Terphenyl-d14	70.0	%					
Polychlorinated Biphenyls				1	8082	01-Nov 03-Nov	PI
Aroclor 1221	ND	ug/kg	272.				
Aroclor 1232	ND	ug/kg	272.				
Aroclor 1242/1016	ND	ug/kg	272.				
Aroclor 1248	ND	ug/kg	272.				
Aroclor 1254	ND	ug/kg	272.				
Aroclor 1260	ND	ug/kg	272.				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	67.0	%					
Decachlorobiphenyl	66.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9908768-07  
T-2-G (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
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Extractable Petroleum Hydrocarbons				46	98-1	01-Nov 04-Nov	F
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Quality Control Information

Condition of sample received:	Satisfactory	
Sample temperature upon receipt:	Received on Ice	
Sample extraction method:	Extracted Per the Method	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
Please note to subtract the method blank from the stated result.		
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.		
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.		

C9-C18 Aliphatics	ND	mg/kg	10.9
C19-C36 Aliphatics	ND	mg/kg	10.9
C11-C22 Aromatics	13.7	mg/kg	10.9

Surrogate Recovery

Chloro-Octadecane	75.0	%
o-Terphenyl	84.0	%
2-Fluorobiphenyl	95.0	%
2-Bromonaphthalene	64.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908768-08  
T-3-A (0-6")  
Sample Matrix: SOIL

Date Collected: 29-OCT-1999  
Date Received : 29-OCT-1999  
Date Reported : 08-NOV-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 3-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Solids, Total	27.	%	0.10	30	2540G		01-Nov	JT
Chromium, Hexavalent	ND	mg/kg	9.2	1	7196A		02-Nov	JT
<b>Total Metals</b>					1	3051		
Aluminum, Total	6200	mg/kg	15.	1	6010B		01-Nov 02-Nov	LP
Antimony, Total	ND	mg/kg	7.3	1	6010B		01-Nov 02-Nov	TT
Arsenic, Total	51.	mg/kg	1.5	1	6010B		01-Nov 02-Nov	TT
Barium, Total	53.	mg/kg	1.5	1	6010B		01-Nov 02-Nov	TT
Beryllium, Total	ND	mg/kg	0.73	1	6010B		01-Nov 02-Nov	TT
Cadmium, Total	2.4	mg/kg	1.5	1	6010B		01-Nov 02-Nov	TT
Calcium, Total	3300	mg/kg	73.	1	6010B		01-Nov 02-Nov	LP
Chromium, Total	710	mg/kg	1.5	1	6010B		01-Nov 02-Nov	TT
Cobalt, Total	4.7	mg/kg	2.9	1	6010B		01-Nov 02-Nov	TT
Copper, Total	920	mg/kg	1.5	1	6010B		01-Nov 02-Nov	TT
Iron, Total	9300	mg/kg	7.3	1	6010B		01-Nov 02-Nov	LP
Lead, Total	160	mg/kg	7.3	1	6010B		01-Nov 02-Nov	TT
Magnesium, Total	2000	mg/kg	15.	1	6010B		01-Nov 02-Nov	LP
Manganese, Total	350	mg/kg	1.5	1	6010B		01-Nov 02-Nov	LP
Mercury, Total	0.70	mg/kg	0.18	1	7471A		03-Nov 04-Nov	DM
Nickel, Total	14.	mg/kg	3.7	1	6010B		01-Nov 02-Nov	TT
Potassium, Total	530	mg/kg	370	1	6010B		01-Nov 02-Nov	LP
Selenium, Total	ND	mg/kg	2.9	1	6010B		01-Nov 02-Nov	TT
Silver, Total	61.	mg/kg	1.5	1	6010B		01-Nov 02-Nov	TT
Sodium, Total	260	mg/kg	73.	1	6010B		01-Nov 02-Nov	LP
Thallium, Total	ND	mg/kg	2.9	1	6010B		01-Nov 02-Nov	TT
Tin, Total	ND	mg/kg	7.3	1	6010B		01-Nov 02-Nov	LP
Vanadium, Total	53.	mg/kg	1.5	1	6010B		01-Nov 02-Nov	TT
Zinc, Total	140	mg/kg	7.3	1	6010B		01-Nov 02-Nov	TT
<b>PAH by GC/MS SIM 8270M</b>					1	8270C-M	01-Nov 05-Nov	MK
Acenaphthene	ND	ug/kg	74.					
2-Chloronaphthalene	ND	ug/kg	74.					
Fluoranthene	680	ug/kg	74.					
Naphthalene	ND	ug/kg	74.					
Benzo(a)anthracene	230	ug/kg	74.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9908768-08  
T-3-A (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
PAH by GC/MS SIM 8270M continued				1	8270C-M	01-Nov 05-Nov
Benzo (a, e) pyrene	370	ug/kg	74.			
Benzo (b) fluoranthene	740	ug/kg	74.			
Benzo (k) fluoranthene	530	ug/kg	74.			
Chrysene	630	ug/kg	74.			
Acenaphthylene	ND	ug/kg	74.			
Anthracene	ND	ug/kg	74.			
Benzo (ghi) perylene	400	ug/kg	74.			
Fluorene	ND	ug/kg	74.			
Phenanthrene	250	ug/kg	74.			
Dibenzo (a, h) anthracene	110	ug/kg	74.			
Indeno (1, 2, 3-cd) Pyrene	420	ug/kg	74.			
Pyrene	570	ug/kg	74.			
1-Methylnaphthalene	ND	ug/kg	74.			
2-Methylnaphthalene	ND	ug/kg	74.			
Perylene	ND	ug/kg	74.			
Biphenyl	ND	ug/kg	74.			
Surrogate Recovery						
Nitrobenzene-d5	79.0	%				
2-Fluorobiphenyl	85.0	%				
4-Terphenyl-d14	84.0	%				
Polychlorinated Biphenyls				1	8082	01-Nov 03-Nov
Aroclor 1221	ND	ug/kg	926.			PB
Aroclor 1232	ND	ug/kg	926.			
Aroclor 1242/1016	ND	ug/kg	926.			
Aroclor 1248	ND	ug/kg	926.			
Aroclor 1254	ND	ug/kg	926.			
Aroclor 1260	ND	ug/kg	926.			
Surrogate Recovery						
2,4,5,6-Tetrachloro-m-xylene	68.0	%				
Decachlorobiphenyl	48.0	%				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9908768-08  
T-3-A (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
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Extractable Petroleum Hydrocarbons				46	98-1	01-Nov 04-Nov	HL
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Quality Control Information

Condition of sample received:	Satisfactory	
Sample temperature upon receipt:	Received on Ice	
Sample extraction method:	Extracted Per the Method	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
Please note to subtract the method blank from the stated result.		
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.		
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.		

C9-C18 Aliphatics	43.9	mg/kg	37.0
C19-C36 Aliphatics	156.	mg/kg	37.0
C11-C22 Aromatics	65.4	mg/kg	37.0

Surrogate Recovery

Chloro-Octadecane	64.0	%
o-Terphenyl	61.0	%
2-Fluorobiphenyl	88.0	%
2-Bromonaphthalene	56.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908768-09  
 T-1-C (0-6")  
 Sample Matrix: SOIL

Date Collected: 29-OCT-1999  
 Date Received : 29-OCT-1999  
 Date Reported : 08-NOV-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES	
						PREP	ANALYSIS
Solids, Total	84.	%	0.10	30	2540G		01-Nov
PAH by GC/MS SIM 8270M				1	8270C-M		01-Nov 05-Nov MK
Acenaphthene	44.	ug/kg	24.				
2-Chloronaphthalene	ND	ug/kg	24.				
Fluoranthene	13000	ug/kg	24.				
Naphthalene	35.	ug/kg	24.				
Benzo(a)anthracene	7800	ug/kg	24.				
Benzo(a,e)pyrene	5000	ug/kg	24.				
Benzo(b)fluoranthene	7500	ug/kg	24.				
Benzo(k)fluoranthene	6500	ug/kg	24.				
Chrysene	8600	ug/kg	24.				
Acenaphthylene	1200	ug/kg	24.				
Anthracene	1000	ug/kg	24.				
Benzo(ghi)perylene	2600	ug/kg	24.				
Fluorene	29.	ug/kg	24.				
Phenanthrene	340	ug/kg	24.				
Dibenzo(a,h)anthracene	1300	ug/kg	24.				
Indeno(1,2,3-cd)Pyrene	3400	ug/kg	24.				
Pyrene	13000	ug/kg	24.				
1-Methylnaphthalene	ND	ug/kg	24.				
2-Methylnaphthalene	ND	ug/kg	24.				
Perylene	980	ug/kg	24.				
Biphenyl	ND	ug/kg	24.				
Surrogate Recovery							
Nitrobenzene-d5	50.0	%					
2-Fluorobiphenyl	60.0	%					
4-Terphenyl-d14	61.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9908768-09  
T-1-C (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Extractable Petroleum Hydrocarbons				46	98-1	01-Nov 04-Nov	HL

Quality Control Information

Condition of sample received: Satisfactory  
 Sample temperature upon receipt: Received on Ice  
 Sample extraction method: Extracted Per the Method  
 Were all QA/QC procedures REQUIRED by the method followed? YES  
 Were all performance/acceptance standards for the required procedures achieved? YES  
 Were significant modifications made to the method as specified in Sect 11.3? NO  
 Please note to subtract the method blank from the stated result.  
 The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.  
 The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.

C9-C18 Aliphatics	ND	mg/kg	47.6
C19-C36 Aliphatics	ND	mg/kg	47.6
C11-C22 Aromatics	202.	mg/kg	47.6

Surrogate Recovery

Chloro-Octadecane	88.0	%
o-Terphenyl	120.	%
2-Fluorobiphenyl	98.0	%
2-Bromonaphthalene	71.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908768-10  
T-3-C (0-6")  
Sample Matrix: SOIL

Date Collected: 29-OCT-1999  
Date Received : 29-OCT-1999  
Date Reported : 08-NOV-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 3-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES	
						PREP	ANALYSIS
Solids, Total	90.	%	0.10	30	2540G	01-Nov	J
Chromium, Hexavalent	ND	mg/kg	8.9	1	7196A	03-Nov	J
Total Metals				1	3051		
Aluminum, Total	3000	mg/kg	4.4	1	6010B	01-Nov 02-Nov	P
Antimony, Total	ND	mg/kg	2.2	1	6010B	01-Nov 02-Nov	TT
Arsenic, Total	2.7	mg/kg	0.44	1	6010B	01-Nov 02-Nov	TT
Barium, Total	15.	mg/kg	0.44	1	6010B	01-Nov 02-Nov	J
Beryllium, Total	0.27	mg/kg	0.22	1	6010B	01-Nov 02-Nov	J
Cadmium, Total	ND	mg/kg	0.220	1	6010B	01-Nov 02-Nov	TT
Calcium, Total	830	mg/kg	22.	1	6010B	01-Nov 02-Nov	LP
Chromium, Total	12.	mg/kg	0.44	1	6010B	01-Nov 02-Nov	J
Cobalt, Total	2.8	mg/kg	0.88	1	6010B	01-Nov 02-Nov	J
Copper, Total	14.	mg/kg	0.44	1	6010B	01-Nov 02-Nov	TT
Iron, Total	5200	mg/kg	2.2	1	6010B	01-Nov 02-Nov	P
Lead, Total	11.	mg/kg	2.2	1	6010B	01-Nov 02-Nov	J
Magnesium, Total	1300	mg/kg	4.4	1	6010B	01-Nov 02-Nov	LP
Manganese, Total	110	mg/kg	0.44	1	6010B	01-Nov 02-Nov	LP
Mercury, Total	ND	mg/kg	0.05	1	7471A	03-Nov 04-Nov	M
Nickel, Total	5.3	mg/kg	1.1	1	6010B	01-Nov 02-Nov	J
Potassium, Total	490	mg/kg	110	1	6010B	01-Nov 02-Nov	LP
Selenium, Total	ND	mg/kg	0.88	1	6010B	01-Nov 02-Nov	TT
Silver, Total	ND	mg/kg	0.220	1	6010B	01-Nov 02-Nov	J
Sodium, Total	29.	mg/kg	22.	1	6010B	01-Nov 02-Nov	P
Thallium, Total	ND	mg/kg	0.88	1	6010B	01-Nov 02-Nov	TT
Tin, Total	ND	mg/kg	4.4	1	6010B	01-Nov 03-Nov	P
Vanadium, Total	9.7	mg/kg	0.44	1	6010B	01-Nov 02-Nov	
Zinc, Total	21.	mg/kg	2.2	1	6010B	01-Nov 02-Nov	
PAH by GC/MS SIM 8270M				1	8270C-M	01-Nov 05-Nov	
Acenaphthene	ND	ug/kg	22.				
2-Chloronaphthalene	ND	ug/kg	22.				
Fluoranthene	270	ug/kg	22.				
Naphthalene	ND	ug/kg	22.				
Benzo(a)anthracene	99.	ug/kg	22.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9908768-10  
T-3-C (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	II
PAH by GC/MS SIM 8270M continued				1	8270C-M	01-Nov 05-Nov	MI
Benzo(a,e)pyrene	130	ug/kg	22.				
Benzo(b)fluoranthene	210	ug/kg	22.				
Benzo(k)fluoranthene	170	ug/kg	22.				
Chrysene	190	ug/kg	22.				
Acenaphthylene	ND	ug/kg	22.				
Anthracene	ND	ug/kg	22.				
Benzo(ghi)perylene	120	ug/kg	22.				
Fluorene	ND	ug/kg	22.				
Phenanthrene	85.	ug/kg	22.				
Dibenzo(a,h)anthracene	37.	ug/kg	22.				
Indeno(1,2,3-cd)Pyrene	120	ug/kg	22.				
Pyrene	230	ug/kg	22.				
1-Methylnaphthalene	ND	ug/kg	22.				
2-Methylnaphthalene	ND	ug/kg	22.				
Perylene	24.	ug/kg	22.				
Biphenyl	ND	ug/kg	22.				
Surrogate Recovery							
Nitrobenzene-d5	75.0	%					
2-Fluorobiphenyl	95.0	%					
4-Terphenyl-d14	98.0	%					
Polychlorinated Biphenyls				1	8082	01-Nov 03-Nov	PB
Aroclor 1221	ND	ug/kg	278.				
Aroclor 1232	ND	ug/kg	278.				
Aroclor 1242/1016	ND	ug/kg	278.				
Aroclor 1248	ND	ug/kg	278.				
Aroclor 1254	ND	ug/kg	278.				
Aroclor 1260	ND	ug/kg	278.				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	78.0	%					
Decachlorobiphenyl	75.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9908768-10  
T-3-C (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
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Extractable Petroleum Hydrocarbons				46	98-1	01-Nov 04-Nov 17	J
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**Quality Control Information**

Condition of sample received:	Satisfactory	
Sample temperature upon receipt:	Received on Ice	
Sample extraction method:	Extracted Per the Method	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
Please note to subtract the method blank from the stated result.		
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.		
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.		

C9-C18 Aliphatics	ND	mg/kg	11.1
C19-C36 Aliphatics	17.3	mg/kg	11.1
C11-C22 Aromatics	21.6	mg/kg	11.1

**Surrogate Recovery**

Chloro-Octadecane	69.0	%
o-Terphenyl	89.0	%
2-Fluorobiphenyl	96.0	%
2-Bromonaphthalene	83.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908768-11 Date Collected: 29-OCT-1999  
 T-5-F (0-6") Date Received : 29-OCT-1999  
 Sample Matrix: SOIL Date Reported : 08-NOV-99  
 Condition of Sample: Satisfactory Field Prep: None

Number & Type of Containers: 3-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Solids, Total	27.	%	0.10	30	2540G		01-Nov	JT
Chromium, Hexavalent	ND	mg/kg	150	1	7196A		03-Nov	JT
Total Metals				1	3051			
Aluminum, Total	7700	mg/kg	15.	1	6010B	01-Nov	02-Nov	LP
Antimony, Total	ND	mg/kg	7.3	1	6010B	01-Nov	02-Nov	TT
Arsenic, Total	14.	mg/kg	1.5	1	6010B	01-Nov	02-Nov	TT
Barium, Total	52.	mg/kg	1.5	1	6010B	01-Nov	02-Nov	TT
Beryllium, Total	0.92	mg/kg	0.73	1	6010B	01-Nov	02-Nov	TT
Cadmium, Total	4.8	mg/kg	1.5	1	6010B	01-Nov	02-Nov	TT
Calcium, Total	3600	mg/kg	73.	1	6010B	01-Nov	02-Nov	LP
Chromium, Total	48.	mg/kg	1.5	1	6010B	01-Nov	02-Nov	TT
Cobalt, Total	3.2	mg/kg	2.9	1	6010B	01-Nov	02-Nov	TT
Copper, Total	81.	mg/kg	1.5	1	6010B	01-Nov	02-Nov	TT
Iron, Total	3700	mg/kg	7.3	1	6010B	01-Nov	02-Nov	LP
Lead, Total	58.	mg/kg	7.3	1	6010B	01-Nov	02-Nov	TT
Magnesium, Total	730	mg/kg	15.	1	6010B	01-Nov	02-Nov	LP
Manganese, Total	130	mg/kg	1.5	1	6010B	01-Nov	02-Nov	LP
Mercury, Total	0.30	mg/kg	0.07	1	7471A	03-Nov	04-Nov	DM
Nickel, Total	13.	mg/kg	3.6	1	6010B	01-Nov	02-Nov	TT
Potassium, Total	ND	mg/kg	360	1	6010B	01-Nov	02-Nov	LP
Selenium, Total	ND	mg/kg	2.9	1	6010B	01-Nov	02-Nov	TT
Silver, Total	3.2	mg/kg	1.5	1	6010B	01-Nov	02-Nov	TT
Sodium, Total	200	mg/kg	73.	1	6010B	01-Nov	02-Nov	LP
Thallium, Total	ND	mg/kg	2.9	1	6010B	01-Nov	02-Nov	TT
Tin, Total	ND	mg/kg	7.3	1	6010B	01-Nov	02-Nov	LP
Vanadium, Total	20.	mg/kg	1.5	1	6010B	01-Nov	02-Nov	TT
Zinc, Total	180	mg/kg	7.3	1	6010B	01-Nov	02-Nov	TT
PAH by GC/MS SIM 8270M				1	8270C-M	01-Nov	06-Nov	MK
Acenaphthene	ND	ug/kg	74.					
2-Chloronaphthalene	ND	ug/kg	74.					
Fluoranthene	ND	ug/kg	74.					
Naphthalene	ND	ug/kg	74.					
Benzo(a)anthracene	ND	ug/kg	74.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908768-11  
T-5-F (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
PAH by GC/MS SIM 8270M continued				1	8270C-M	01-Nov 06-Nov 1
Benzo(a,e)pyrene	ND	ug/kg	74.			
Benzo(b)fluoranthene	ND	ug/kg	74.			
Benzo(k)fluoranthene	ND	ug/kg	74.			
Chrysene	ND	ug/kg	74.			
Acenaphthylene	ND	ug/kg	74.			
Anthracene	ND	ug/kg	74.			
Benzo(ghi)perylene	ND	ug/kg	74.			
Fluorene	ND	ug/kg	74.			
Phenanthrene	ND	ug/kg	74.			
Dibenzo(a,h)anthracene	ND	ug/kg	74.			
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	74.			
Pyrene	ND	ug/kg	74.			
1-Methylnaphthalene	ND	ug/kg	74.			
2-Methylnaphthalene	ND	ug/kg	74.			
Perylene	ND	ug/kg	74.			
Biphenyl	ND	ug/kg	74.			
Surrogate Recovery						
Nitrobenzene-d5	47.0	%				
2-Fluorobiphenyl	49.0	%				
4-Terphenyl-d14	50.0	%				
Polychlorinated Biphenyls				1	8082	01-Nov 03-Nov 1
Aroclor 1221	ND	ug/kg	926.			
Aroclor 1232	ND	ug/kg	926.			
Aroclor 1242/1016	ND	ug/kg	926.			
Aroclor 1248	ND	ug/kg	926.			
Aroclor 1254	ND	ug/kg	926.			
Aroclor 1260	ND	ug/kg	926.			
Surrogate Recovery						
2,4,5,6-Tetrachloro-m-xylene	58.0	%				
Decachlorobiphenyl	55.0	%				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9908768-11  
T-5-F (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
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Extractable Petroleum Hydrocarbons				46	98-1	01-Nov 04-Nov	HL
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Quality Control Information

Condition of sample received:	Satisfactory	
Sample temperature upon receipt:	Received on Ice	
Sample extraction method:	Extracted Per the Method	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
Please note to subtract the method blank from the stated result.		
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.		
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.		

C9-C18 Aliphatics	ND	mg/kg	37.0
C19-C36 Aliphatics	39.4	mg/kg	37.0
C11-C22 Aromatics	50.5	mg/kg	37.0

Surrogate Recovery

Chloro-Octadecane	57.0	%	
o-Terphenyl	68.0	%	
2-Fluorobiphenyl	88.0	%	
2-Bromonaphthalene	67.0	%	

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908768-12  
T-5-D (0-6")  
Sample Matrix: SOIL

Date Collected: 29-OCT-1999  
Date Received : 29-OCT-1999  
Date Reported : 08-NOV-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 3-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES	
						PREP	ANALYSIS
Solids, Total	22.	%	0.10	30	2540G		01-Nov
Chromium, Hexavalent	ND	mg/kg	180	1	7196A		03-Nov
Total Metals				1	3051		
Aluminum, Total	8600	mg/kg	18.	1	6010B	01-Nov	02-Nov
Antimony, Total	ND	mg/kg	9.0	1	6010B	01-Nov	02-Nov
Arsenic, Total	37.	mg/kg	1.8	1	6010B	01-Nov	02-Nov
Barium, Total	100	mg/kg	1.8	1	6010B	01-Nov	02-Nov
Beryllium, Total	ND	mg/kg	0.90	1	6010B	01-Nov	02-Nov
Cadmium, Total	3.2	mg/kg	1.8	1	6010B	01-Nov	02-Nov
Calcium, Total	4900	mg/kg	90.	1	6010B	01-Nov	02-Nov
Chromium, Total	580	mg/kg	1.8	1	6010B	01-Nov	02-Nov
Cobalt, Total	6.9	mg/kg	3.6	1	6010B	01-Nov	02-Nov
Copper, Total	780	mg/kg	1.8	1	6010B	01-Nov	02-Nov
Iron, Total	11000	mg/kg	9.0	1	6010B	01-Nov	02-Nov
Lead, Total	180	mg/kg	9.0	1	6010B	01-Nov	02-Nov
Magnesium, Total	2500	mg/kg	18.	1	6010B	01-Nov	02-Nov
Manganese, Total	220	mg/kg	1.8	1	6010B	01-Nov	02-Nov
Mercury, Total	1.6	mg/kg	0.09	1	7471A	03-Nov	04-Nov
Nickel, Total	22.	mg/kg	4.5	1	6010B	01-Nov	02-Nov
Potassium, Total	500	mg/kg	450	1	6010B	01-Nov	02-Nov
Selenium, Total	ND	mg/kg	3.6	1	6010B	01-Nov	02-Nov
Silver, Total	49.	mg/kg	1.8	1	6010B	01-Nov	02-Nov
Sodium, Total	270	mg/kg	90.	1	6010B	01-Nov	02-Nov
Thallium, Total	ND	mg/kg	3.6	1	6010B	01-Nov	02-Nov
Tin, Total	ND	mg/kg	9.0	1	6010B	01-Nov	02-Nov
Vanadium, Total	68.	mg/kg	1.8	1	6010B	01-Nov	02-Nov
Zinc, Total	150	mg/kg	9.0	1	6010B	01-Nov	02-Nov
PAH by GC/MS SIM 8270M				1	8270C-M	01-Nov	06-Nov
Acenaphthene	ND	ug/kg	91.				
2-Chloronaphthalene	ND	ug/kg	91.				
Fluoranthene	480	ug/kg	91.				
Naphthalene	ND	ug/kg	91.				
Benzo(a)anthracene	160	ug/kg	91.				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9908768-12  
T-5-D (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	01-Nov 06-Nov	MK
Benzo(a,e)pyrene	280	ug/kg	91.				
Benzo(b)fluoranthene	560	ug/kg	91.				
Benzo(k)fluoranthene	360	ug/kg	91.				
Chrysene	420	ug/kg	91.				
Acenaphthylene	ND	ug/kg	91.				
Anthracene	ND	ug/kg	91.				
Benzo(ghi)perylene	300	ug/kg	91.				
Fluorene	ND	ug/kg	91.				
Phenanthrene	180	ug/kg	91.				
Dibenzo(a,h)anthracene	ND	ug/kg	91.				
Indeno(1,2,3-cd)Pyrene	310	ug/kg	91.				
Pyrene	400	ug/kg	91.				
1-Methylnaphthalene	ND	ug/kg	91.				
2-Methylnaphthalene	ND	ug/kg	91.				
Perylene	ND	ug/kg	91.				
Biphenyl	ND	ug/kg	91.				
Surrogate Recovery							
Nitrobenzene-d5	45.0	%					
2-Fluorobiphenyl	48.0	%					
4-Terphenyl-d14	50.0	%					
Polychlorinated Biphenyls				1	8082	01-Nov 05-Nov	PB
Aroclor 1221	ND	ug/kg	568.				
Aroclor 1232	ND	ug/kg	568.				
Aroclor 1242/1016	ND	ug/kg	568.				
Aroclor 1248	ND	ug/kg	568.				
Aroclor 1254	ND	ug/kg	568.				
Aroclor 1260	ND	ug/kg	568.				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	60.0	%					
Decachlorobiphenyl	56.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908768-12  
T-5-D (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Extractable Petroleum Hydrocarbons				46	98-1	01-Nov 02-Nov

Quality Control Information

Condition of sample received: Satisfactory  
 Sample temperature upon receipt: Received on Ice  
 Sample extraction method: Extracted Per the Method  
 Were all QA/QC procedures REQUIRED by the method followed? YES  
 Were all performance/acceptance standards for the required procedures achieved? YES  
 Were significant modifications made to the method as specified in Sect 11.3? NO  
 Please note to subtract the method blank from the stated result.  
 The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.  
 The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.

C9-C18 Aliphatics	ND	mg/kg	45.4
C19-C36 Aliphatics	ND	mg/kg	45.4
C11-C22 Aromatics	50.7	mg/kg	45.4

Surrogate Recovery

Chloro-Octadecane	68.0	%
o-Terphenyl	73.0	%
2-Fluorobiphenyl	106.	%
2-Bromonaphthalene	76.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908768-13  
 T-5-11 (0-6")  
 Sample Matrix: SOIL  
 Condition of Sample: Satisfactory  
 Number & Type of Containers: 3-Glass

Date Collected: 29-OCT-1999  
 Date Received : 29-OCT-1999  
 Date Reported : 08-NOV-99  
 Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Solids, Total	24.	%	0.10	30	2540G		01-Nov	JT
Chromium, Hexavalent	ND	mg/kg	33.	1	7196A		03-Nov	JT
Total Metals				1	3051			
Aluminum, Total	7600	mg/kg	16.	1	6010B		01-Nov 02-Nov	LP
Antimony, Total	ND	mg/kg	8.2	1	6010B		01-Nov 02-Nov	TT
Arsenic, Total	11.	mg/kg	1.6	1	6010B		01-Nov 02-Nov	TT
Barium, Total	39.	mg/kg	1.6	1	6010B		01-Nov 02-Nov	TT
Beryllium, Total	ND	mg/kg	0.82	1	6010B		01-Nov 02-Nov	TT
Cadmium, Total	1.03	mg/kg	0.823	1	6010B		01-Nov 02-Nov	TT
Calcium, Total	2200	mg/kg	82.	1	6010B		01-Nov 02-Nov	LP
Chromium, Total	490	mg/kg	1.6	1	6010B		01-Nov 02-Nov	TT
Cobalt, Total	4.3	mg/kg	3.3	1	6010B		01-Nov 02-Nov	TT
Copper, Total	380	mg/kg	1.6	1	6010B		01-Nov 02-Nov	TT
Iron, Total	12000	mg/kg	8.2	1	6010B		01-Nov 02-Nov	LP
Lead, Total	500	mg/kg	8.2	1	6010B		01-Nov 02-Nov	TT
Magnesium, Total	2900	mg/kg	16.	1	6010B		01-Nov 02-Nov	LP
Manganese, Total	150	mg/kg	1.6	1	6010B		01-Nov 02-Nov	LP
Mercury, Total	0.38	mg/kg	0.08	1	7471A		03-Nov 04-Nov	DM
Nickel, Total	16.	mg/kg	4.1	1	6010B		01-Nov 02-Nov	TT
Potassium, Total	520	mg/kg	410	1	6010B		01-Nov 02-Nov	LP
Selenium, Total	ND	mg/kg	3.3	1	6010B		01-Nov 02-Nov	TT
Silver, Total	5.9	mg/kg	1.6	1	6010B		01-Nov 02-Nov	TT
Sodium, Total	120	mg/kg	82.	1	6010B		01-Nov 02-Nov	LP
Thallium, Total	ND	mg/kg	3.3	1	6010B		01-Nov 02-Nov	TT
Tin, Total	ND	mg/kg	8.2	1	6010B		01-Nov 02-Nov	LP
Vanadium, Total	46.	mg/kg	1.6	1	6010B		01-Nov 02-Nov	TT
Zinc, Total	92.	mg/kg	8.2	1	6010B		01-Nov 02-Nov	TT
PAH by GC/MS SIM 8270M				1	8270C-M		01-Nov 05-Nov	MK
Acenaphthene	140	ug/kg	83.					
2-Chloronaphthalene	ND	ug/kg	83.					
Fluoranthene	15000	ug/kg	83.					
Naphthalene	ND	ug/kg	83.					
Benzo(a)anthracene	6700	ug/kg	83.					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908768-13  
T-5-11 (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
PAH by GC/MS SIM 8270M continued				1	8270C-M	01-Nov	05-Nov	177
Benzo(a,e)pyrene	8700	ug/kg	83.					
Benzo(b)fluoranthene	9500	ug/kg	83.					
Benzo(k)fluoranthene	7300	ug/kg	83.					
Chrysene	9000	ug/kg	83.					
Acenaphthylene	100	ug/kg	83.					
Anthracene	1400	ug/kg	83.					
Benzo(ghi)perylene	6200	ug/kg	83.					
Fluorene	250	ug/kg	83.					
Phenanthrene	6000	ug/kg	83.					
Dibenzo(a,h)anthracene	1700	ug/kg	83.					
Indeno(1,2,3-cd)Pyrene	6500	ug/kg	83.					
Pyrene	12000	ug/kg	83.					
1-Methylnaphthalene	ND	ug/kg	83.					
2-Methylnaphthalene	ND	ug/kg	83.					
Perylene	1800	ug/kg	83.					
Biphenyl	ND	ug/kg	83.					
Surrogate Recovery								
Nitrobenzene-d5	35.0	%						
2-Fluorobiphenyl	34.0	%						
4-Terphenyl-d14	43.0	%						
Polychlorinated Biphenyls				1	8082	01-Nov	05-Nov	178
Aroclor 1221	ND	ug/kg	520.					
Aroclor 1232	ND	ug/kg	520.					
Aroclor 1242/1016	ND	ug/kg	520.					
Aroclor 1248	ND	ug/kg	520.					
Aroclor 1254	ND	ug/kg	520.					
Aroclor 1260	ND	ug/kg	520.					
Surrogate Recovery								
2,4,5,6-Tetrachloro-m-xylene	60.0	%						
Decachlorobiphenyl	63.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908768-13  
T-5-11 (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
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Extractable Petroleum Hydrocarbons				46	98-1	01-Nov 02-Nov	HL
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Quality Control Information

Condition of sample received:	Satisfactory	
Sample temperature upon receipt:	Received on Ice	
Sample extraction method:	Extracted Per the Method	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
Please note to subtract the method blank from the stated result.		
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.		
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.		

C9-C18 Aliphatics	83.2	mg/kg	41.7
C19-C36 Aliphatics	376.	mg/kg	41.7
C11-C22 Aromatics	626.	mg/kg	41.7

Surrogate Recovery

Chloro-Octadecane	75.0	%
o-Terphenyl	108.	%
2-Fluorobiphenyl	107.	%
2-Bromonaphthalene	90.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908768-14  
T-7-B (0-6")  
Sample Matrix: SOIL

Date Collected: 29-OCT-1999  
Date Received : 29-OCT-1999  
Date Reported : 08-NOV-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 3-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES	
						PREP	ANALYSIS
Solids, Total	21.	%	0.10	30	2540G		01-Nov
Chromium, Hexavalent	230	mg/kg	95.	1	7196A		03-Nov
Total Metals				1	3051		
Aluminum, Total	8600	mg/kg	19.	1	6010B	01-Nov	02-Nov
Antimony, Total	ND	mg/kg	9.4	1	6010B	01-Nov	02-Nov
Arsenic, Total	20.	mg/kg	1.9	1	6010B	01-Nov	02-Nov
Barium, Total	82.	mg/kg	1.9	1	6010B	01-Nov	02-Nov
Beryllium, Total	1.0	mg/kg	0.94	1	6010B	01-Nov	02-Nov
Cadmium, Total	5.9	mg/kg	1.9	1	6010B	01-Nov	02-Nov
Calcium, Total	3800	mg/kg	94.	1	6010B	01-Nov	02-Nov
Chromium, Total	920	mg/kg	1.9	1	6010B	01-Nov	02-Nov
Cobalt, Total	4.2	mg/kg	3.8	1	6010B	01-Nov	02-Nov
Copper, Total	1200	mg/kg	1.9	1	6010B	01-Nov	02-Nov
Iron, Total	5400	mg/kg	9.4	1	6010B	01-Nov	02-Nov
Lead, Total	180	mg/kg	9.4	1	6010B	01-Nov	02-Nov
Magnesium, Total	960	mg/kg	19.	1	6010B	01-Nov	02-Nov
Manganese, Total	190	mg/kg	1.9	1	6010B	01-Nov	02-Nov
Mercury, Total	1.3	mg/kg	0.09	1	7471A	03-Nov	04-Nov
Nickel, Total	19.	mg/kg	4.7	1	6010B	01-Nov	02-Nov
Potassium, Total	ND	mg/kg	470	1	6010B	01-Nov	02-Nov
Selenium, Total	ND	mg/kg	3.8	1	6010B	01-Nov	02-Nov
Silver, Total	57.	mg/kg	1.9	1	6010B	01-Nov	02-Nov
Sodium, Total	340	mg/kg	94.	1	6010B	01-Nov	02-Nov
Thallium, Total	ND	mg/kg	3.8	1	6010B	01-Nov	02-Nov
Tin, Total	15.	mg/kg	9.4	1	6010B	01-Nov	02-Nov
Vanadium, Total	41.	mg/kg	1.9	1	6010B	01-Nov	02-Nov
Zinc, Total	250	mg/kg	9.4	1	6010B	01-Nov	02-Nov
PAH by GC/MS SIM 8270M				1	8270C-M	01-Nov	05-Nov
Acenaphthene	ND	ug/kg	95.				
2-Chloronaphthalene	ND	ug/kg	95.				
Fluoranthene	1600	ug/kg	95.				
Naphthalene	ND	ug/kg	95.				
Benzo(a)anthracene	600	ug/kg	95.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9908768-14  
T-7-B (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	01-Nov 05-Nov	MK
Benzo(a,e)pyrene	900	ug/kg	95.				
Benzo(b)fluoranthene	1400	ug/kg	95.				
Benzo(k)fluoranthene	1200	ug/kg	95.				
Chrysene	1300	ug/kg	95.				
Acenaphthylene	ND	ug/kg	95.				
Anthracene	ND	ug/kg	95.				
Benzo(ghi)perylene	900	ug/kg	95.				
Fluorene	ND	ug/kg	95.				
Phenanthrene	600	ug/kg	95.				
Dibenzo(a,h)anthracene	290	ug/kg	95.				
Indeno(1,2,3-cd)Pyrene	920	ug/kg	95.				
Pyrene	1300	ug/kg	95.				
1-Methylnaphthalene	ND	ug/kg	95.				
2-Methylnaphthalene	ND	ug/kg	95.				
Perylene	160	ug/kg	95.				
Biphenyl	ND	ug/kg	95.				
Surrogate Recovery							
Nitrobenzene-d5	41.0	%					
2-Fluorobiphenyl	40.0	%					
4-Terphenyl-d14	41.0	%					
Polychlorinated Biphenyls				1	8082	01-Nov 03-Nov	PB
Aroclor 1221	ND	ug/kg	1190				
Aroclor 1232	ND	ug/kg	1190				
Aroclor 1242/1016	ND	ug/kg	1190				
Aroclor 1248	ND	ug/kg	1190				
Aroclor 1254	ND	ug/kg	1190				
Aroclor 1260	2410	ug/kg	1190				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	ND	%	1190				
Decachlorobiphenyl	53.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9908768-14  
T-7-B (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
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Extractable Petroleum Hydrocarbons				46	98-1	02-Nov 04-Nov
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Quality Control Information

Condition of sample received:	Satisfactory	
Sample temperature upon receipt:	Received on Ice	
Sample extraction method:	Extracted Per the Method	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
Please note to subtract the method blank from the stated result.		
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.		
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.		

C9-C18 Aliphatics	85.9	mg/kg	47.6
C19-C36 Aliphatics	159.	mg/kg	47.6
C11-C22 Aromatics	61.5	mg/kg	47.6

Surrogate Recovery

Chloro-Octadecane	63.0	%
o-Terphenyl	81.0	%
2-Fluorobiphenyl	95.0	%
2-Bromonaphthalene	73.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908768-15  
T-7-13 (0-6")  
Sample Matrix: SOIL

Date Collected: 29-OCT-1999  
Date Received : 29-OCT-1999  
Date Reported : 08-NOV-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 3-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	38.	%	0.10	30	2540G	01-Nov	JT
Chromium, Hexavalent	ND	mg/kg	100	1	7196A	03-Nov	JT
Total Metals				1	3051		
Aluminum, Total	9000	mg/kg	10.	1	6010B	01-Nov 02-Nov	LP
Antimony, Total	ND	mg/kg	5.2	1	6010B	01-Nov 02-Nov	TT
Arsenic, Total	5.1	mg/kg	1.0	1	6010B	01-Nov 02-Nov	TT
Barium, Total	35.	mg/kg	1.0	1	6010B	01-Nov 02-Nov	TT
Beryllium, Total	1.1	mg/kg	0.52	1	6010B	01-Nov 02-Nov	TT
Cadmium, Total	0.810	mg/kg	0.522	1	6010B	01-Nov 02-Nov	TT
Calcium, Total	2400	mg/kg	52.	1	6010B	01-Nov 02-Nov	LP
Chromium, Total	26.	mg/kg	1.0	1	6010B	01-Nov 02-Nov	TT
Cobalt, Total	2.5	mg/kg	2.1	1	6010B	01-Nov 02-Nov	TT
Copper, Total	30.	mg/kg	1.0	1	6010B	01-Nov 02-Nov	TT
Iron, Total	4200	mg/kg	5.2	1	6010B	01-Nov 02-Nov	LP
Lead, Total	82.	mg/kg	5.2	1	6010B	01-Nov 02-Nov	TT
Magnesium, Total	820	mg/kg	10.	1	6010B	01-Nov 02-Nov	LP
Manganese, Total	49.	mg/kg	1.0	1	6010B	01-Nov 02-Nov	LP
Mercury, Total	ND	mg/kg	0.13	1	7471A	03-Nov 04-Nov	DM
Nickel, Total	6.9	mg/kg	2.6	1	6010B	01-Nov 02-Nov	TT
Potassium, Total	ND	mg/kg	260	1	6010B	01-Nov 02-Nov	LP
Selenium, Total	ND	mg/kg	2.1	1	6010B	01-Nov 02-Nov	TT
Silver, Total	ND	mg/kg	0.522	1	6010B	01-Nov 02-Nov	TT
Sodium, Total	150	mg/kg	52.	1	6010B	01-Nov 02-Nov	LP
Thallium, Total	ND	mg/kg	2.1	1	6010B	01-Nov 02-Nov	TT
Tin, Total	ND	mg/kg	5.2	1	6010B	01-Nov 02-Nov	LP
Vanadium, Total	14.	mg/kg	1.0	1	6010B	01-Nov 02-Nov	TT
Zinc, Total	33.	mg/kg	5.2	1	6010B	01-Nov 02-Nov	TT
PAH by GC/MS SIM 8270M				1	8270C-M	01-Nov 05-Nov	MK
Acenaphthene	ND	ug/kg	53.				
2-Chloronaphthalene	ND	ug/kg	53.				
Fluoranthene	95.	ug/kg	53.				
Naphthalene	ND	ug/kg	53.				
Benzo (a) anthracene	ND	ug/kg	53.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9908768-15  
T-7-13 (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
PAH by GC/MS SIM 8270M continued				1	8270C-M	01-Nov	05-Nov	MK
Benzo (a, e) pyrene	55.	ug/kg	53.					
Benzo (b) fluoranthene	73.	ug/kg	53.					
Benzo (k) fluoranthene	72.	ug/kg	53.					
Chrysene	72.	ug/kg	53.					
Acenaphthylene	ND	ug/kg	53.					
Anthracene	ND	ug/kg	53.					
Benzo (ghi) perylene	ND	ug/kg	53.					
Fluorene	ND	ug/kg	53.					
Phenanthrene	ND	ug/kg	53.					
Dibenzo (a, h) anthracene	ND	ug/kg	53.					
Indeno (1, 2, 3-cd) Pyrene	ND	ug/kg	53.					
Pyrene	91.	ug/kg	53.					
1-Methylnaphthalene	ND	ug/kg	53.					
2-Methylnaphthalene	ND	ug/kg	53.					
Perylene	ND	ug/kg	53.					
Biphenyl	ND	ug/kg	53.					
Surrogate Recovery								
Nitrobenzene-d5	53.0	%						
2-Fluorobiphenyl	60.0	%						
4-Terphenyl-d14	59.0	%						
Polychlorinated Biphenyls				1	8082	01-Nov	03-Nov	M
Aroclor 1221	ND	ug/kg	658.					
Aroclor 1232	ND	ug/kg	658.					
Aroclor 1242/1016	ND	ug/kg	658.					
Aroclor 1248	ND	ug/kg	658.					
Aroclor 1254	ND	ug/kg	658.					
Aroclor 1260	ND	ug/kg	658.					
Surrogate Recovery								
2,4,5,6-Tetrachloro-m-xylene	71.0	%						
Decachlorobiphenyl	51.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908768-15  
T-7-13 (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Extractable Petroleum Hydrocarbons				46	98-1	01-Nov 02-Nov	HL

Quality Control Information

Condition of sample received:	Satisfactory	
Sample temperature upon receipt:	Received on Ice	
Sample extraction method:	Extracted Per the Method	
Were all QA/QC procedures REQUIRED by the method followed?		YES
Were all performance/acceptance standards for the required procedures achieved?		YES
Were significant modifications made to the method as specified in Sect 11.3?		NO
Please note to subtract the method blank from the stated result.		
The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.		
The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.		

C9-C18 Aliphatics	ND	mg/kg	26.3
C19-C36 Aliphatics	ND	mg/kg	26.3
C11-C22 Aromatics	ND	mg/kg	26.3

Surrogate Recovery

Chloro-Octadecane	58.0	%
o-Terphenyl	58.0	%
2-Fluorobiphenyl	93.0	%
2-Bromonaphthalene	66.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9908768-16  
 T-8-F (0-6")  
 Sample Matrix: SOIL

Date Collected: 29-OCT-1999  
 Date Received : 29-OCT-1999  
 Date Reported : 08-NOV-99

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES	
						PREP	ANALYSIS
Solids, Total	21.	%	0.10	30	2540G		01-Nov
Chromium, Hexavalent	ND	mg/kg	190	1	7196A		03-Nov
Total Metals				1	3051		
Aluminum, Total	8700	mg/kg	19.	1	6010B	01-Nov	02-Nov
Antimony, Total	ND	mg/kg	9.4	1	6010B	01-Nov	02-Nov
Arsenic, Total	8.9	mg/kg	1.9	1	6010B	01-Nov	02-Nov
Barium, Total	100	mg/kg	1.9	1	6010B	01-Nov	02-Nov
Beryllium, Total	1.1	mg/kg	0.94	1	6010B	01-Nov	02-Nov
Cadmium, Total	5.8	mg/kg	1.9	1	6010B	01-Nov	02-Nov
Calcium, Total	4100	mg/kg	94.	1	6010B	01-Nov	02-Nov
Chromium, Total	99.	mg/kg	1.9	1	6010B	01-Nov	02-Nov
Cobalt, Total	6.0	mg/kg	3.7	1	6010B	01-Nov	02-Nov
Copper, Total	160	mg/kg	1.9	1	6010B	01-Nov	02-Nov
Iron, Total	6400	mg/kg	9.4	1	6010B	01-Nov	02-Nov
Lead, Total	170	mg/kg	9.4	1	6010B	01-Nov	02-Nov
Magnesium, Total	980	mg/kg	19.	1	6010B	01-Nov	02-Nov
Manganese, Total	310	mg/kg	1.9	1	6010B	01-Nov	02-Nov
Mercury, Total	2.3	mg/kg	0.09	1	7471A	03-Nov	04-Nov
Nickel, Total	21.	mg/kg	4.7	1	6010B	01-Nov	02-Nov
Potassium, Total	ND	mg/kg	470	1	6010B	01-Nov	02-Nov
Selenium, Total	ND	mg/kg	3.7	1	6010B	01-Nov	02-Nov
Silver, Total	5.8	mg/kg	1.9	1	6010B	01-Nov	02-Nov
Sodium, Total	410	mg/kg	94.	1	6010B	01-Nov	02-Nov
Thallium, Total	ND	mg/kg	3.7	1	6010B	01-Nov	02-Nov
Tin, Total	ND	mg/kg	9.4	1	6010B	01-Nov	02-Nov
Vanadium, Total	28.	mg/kg	1.9	1	6010B	01-Nov	02-Nov
Zinc, Total	160	mg/kg	9.4	1	6010B	01-Nov	02-Nov
Polychlorinated Biphenyls				1	8082		01-Nov 05-Nov
Aroclor 1221	ND	ug/kg	596.				
Aroclor 1232	ND	ug/kg	596.				
Aroclor 1242/1016	ND	ug/kg	596.				
Aroclor 1248	ND	ug/kg	596.				
Aroclor 1254	1200	ug/kg	596.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9908768-16  
 T-8-F (0-6")

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	01-Nov 05-Nov	PB
Aroclor 1260	ND	ug/kg	596.				
Surrogate Recovery							
2,4,5,6-Tetrachloro-m-xylene	55.0	%					
Decachlorobiphenyl	49.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS**

Laboratory Job Number: L9908768

Parameter	Value 1	Value 2	RPD	Units
<b>Total Metals for sample(s) 01-05,07-08,10</b>				
Aluminum, Total	3500	3400	3	mg/kg
Antimony, Total	ND	ND	NC	mg/kg
Arsenic, Total	3.3	3.3	0	mg/kg
Barium, Total	19.	19.	0	mg/kg
Beryllium, Total	0.29	0.29	0	mg/kg
Cadmium, Total	0.217	0.218	0	mg/kg
Calcium, Total	1200	1100	9	mg/kg
Chromium, Total	7.4	7.2	3	mg/kg
Cobalt, Total	2.9	2.9	0	mg/kg
Copper, Total	12.	11.	9	mg/kg
Iron, Total	5800	5400	7	mg/kg
Lead, Total	12.	12.	0	mg/kg
Magnesium, Total	1500	1400	7	mg/kg
Manganese, Total	100	100	0	mg/kg
Nickel, Total	6.4	6.3	2	mg/kg
Potassium, Total	520	500	4	mg/kg
Selenium, Total	ND	ND	NC	mg/kg
Silver, Total	ND	ND	NC	mg/kg
Sodium, Total	34.	34.	0	mg/kg
Thallium, Total	ND	ND	NC	mg/kg
Tin, Total	ND	ND	NC	mg/kg
Vanadium, Total	10.	10.	0	mg/kg
Zinc, Total	27.	27.	0	mg/kg
<b>Total Metals for sample(s) 11-16</b>				
Aluminum, Total	7700	7700	0	mg/kg
Antimony, Total	ND	ND	NC	mg/kg
Arsenic, Total	14.	12.	15	mg/kg
Barium, Total	52.	51.	2	mg/kg
Beryllium, Total	0.92	0.92	0	mg/kg
Cadmium, Total	4.8	4.3	11	mg/kg
Calcium, Total	3600	3600	0	mg/kg
Chromium, Total	48.	48.	0	mg/kg
Cobalt, Total	3.2	3.1	3	mg/kg
Copper, Total	81.	84.	4	mg/kg
Iron, Total	3700	3700	0	mg/kg
Lead, Total	58.	59.	2	mg/kg
Magnesium, Total	730	730	0	mg/kg
Manganese, Total	130	130	0	mg/kg
Nickel, Total	13.	13.	0	mg/kg
Potassium, Total	ND	ND	NC	mg/kg
Selenium, Total	ND	ND	NC	mg/kg
Silver, Total	3.2	2.9	10	mg/kg
Sodium, Total	200	200	0	mg/kg
Thallium, Total	ND	ND	NC	mg/kg
Tin, Total	ND	ND	NC	mg/kg
Vanadium, Total	20.	20.	0	mg/kg
Zinc, Total	180	180	0	mg/kg

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS**

Laboratory Job Number: L9908768

Continued

Parameter	Value 1	Value 2	RPD	Units
Total Metals for sample(s) 01,07-08,10,15				
Mercury, Total	ND	ND	NC	mg/kg
Total Metals for sample(s) 02-05,11-14,16				
Mercury, Total	0.30	0.30	0	mg/kg
Polychlorinated Biphenyls for sample(s) 01-05,07-08,10-16				
Aroclor 1221	ND	ND	NC	ug/kg
Aroclor 1232	ND	ND	NC	ug/kg
Aroclor 1242/1016	ND	ND	NC	ug/kg
Aroclor 1248	ND	ND	NC	ug/kg
Aroclor 1254	ND	ND	NC	ug/kg
Aroclor 1260	ND	ND	NC	ug/kg
Surrogate Recovery				
2,4,5,6-Tetrachloro-m-xylene	67.0	96.0	36	%
Decachlorobiphenyl	66.0	79.0	18	%
Extractable Petroleum Hydrocarbons for sample(s) 12-13,15				
C9-C18 Aliphatics	ND	ND	NC	mg/kg
C19-C36 Aliphatics	ND	ND	NC	mg/kg
C11-C22 Aromatics	ND	ND	NC	mg/kg
Surrogate Recovery				
Chloro-Octadecane	79.0	81.0	3	%
o-Terphenyl	80.0	86.0	7	%
2-Fluorobiphenyl	99.0	95.0	4	%
2-Bromonaphthalene	83.0	63.0	27	%
Extractable Petroleum Hydrocarbons for sample(s) 14				
C9-C18 Aliphatics	ND	ND	NC	mg/kg
C19-C36 Aliphatics	ND	ND	NC	mg/kg
C11-C22 Aromatics	ND	ND	NC	mg/kg
C11-C22 Aromatics, Adjusted	ND	ND	NC	mg/kg
Naphthalene	ND	ND	NC	mg/kg
2-Methylnaphthalene	ND	ND	NC	mg/kg
Acenaphthalene	ND	ND	NC	mg/kg
Acenaphthene	ND	ND	NC	mg/kg
Fluorene	ND	ND	NC	mg/kg
Phenanthrene	ND	ND	NC	mg/kg
Anthracene	ND	ND	NC	mg/kg
Fluoranthene	ND	ND	NC	mg/kg
Pyrene	ND	ND	NC	mg/kg
Benzo(a)anthracene	ND	ND	NC	mg/kg
Chrysene	ND	ND	NC	mg/kg
Benzo(b)fluoranthene	ND	ND	NC	mg/kg
Benzo(k)fluoranthene	ND	ND	NC	mg/kg
Benzo(a)pyrene	ND	ND	NC	mg/kg
Indeno(1,2,3-cd)Pyrene	ND	ND	NC	mg/kg

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L9908768

Continued

Parameter	Value 1	Value 2	RPD	Units
Extractable Petroleum Hydrocarbons for sample(s) 14				
Dibenzo (a, h) anthracene	ND	ND	NC	mg/kg
Benzo (ghi) perylene	ND	ND	NC	mg/kg
Surrogate Recovery				
Chloro-Octadecane	68.0	57.0	18	%
o-Terphenyl	79.0	62.0	24	%
2-Fluorobiphenyl	92.0	78.0	16	%
2-Bromonaphthalene	54.0	36.0	40	%
Extractable Petroleum Hydrocarbons for sample(s) 06-11				
C9-C18 Aliphatics	ND	ND	NC	mg/kg
C19-C36 Aliphatics	ND	ND	NC	mg/kg
C11-C22 Aromatics	13.0	13.8	6	mg/kg
Surrogate Recovery				
Chloro-Octadecane	87.0	82.0	6	%
o-Terphenyl	95.0	93.0	2	%
2-Fluorobiphenyl	114.	110.	4	%
2-Bromonaphthalene	76.0	76.0	0	%



**ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES**

Laboratory Job Number: L9908768

Parameter	% Recovery
Chromium, Hexavalent LCS for sample(s) 01-05,07-08	
Chromium, Hexavalent	88
Chromium, Hexavalent LCS for sample(s) 10-16	
Chromium, Hexavalent	101
Total Metals LCS for sample(s) 01-05,07-08,10	
Aluminum, Total	100
Antimony, Total	92
Arsenic, Total	93
Barium, Total	97
Beryllium, Total	100
Cadmium, Total	91
Calcium, Total	91
Chromium, Total	96
Cobalt, Total	97
Copper, Total	100
Iron, Total	68
Lead, Total	94
Magnesium, Total	90
Manganese, Total	110
Nickel, Total	94
Potassium, Total	90
Selenium, Total	95
Silver, Total	65
Sodium, Total	95
Thallium, Total	110
Tin, Total	95
Vanadium, Total	99
Zinc, Total	97
Total Metals LCS for sample(s) 11-16	
Aluminum, Total	100
Antimony, Total	92
Arsenic, Total	91
Barium, Total	98
Beryllium, Total	100
Cadmium, Total	90
Calcium, Total	99
Chromium, Total	98
Cobalt, Total	96
Copper, Total	100
Iron, Total	68
Lead, Total	92
Magnesium, Total	96
Manganese, Total	110
Nickel, Total	93
Potassium, Total	85
Selenium, Total	89

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L9908768

Continued

Parameter	% Recovery
Total Metals LCS for sample(s) 11-16	
Silver, Total	60
Sodium, Total	96
Thallium, Total	98
Tin, Total	98
Vanadium, Total	99
Zinc, Total	96
Total Metals LCS for sample(s) 01,07-08,10,15	
Mercury, Total	98
Total Metals LCS for sample(s) 02-05,11-14,16	
Mercury, Total	92
PAH by GC/MS SIM 8270M LCS for sample(s) 03-15	
Acenaphthene	95
Surrogate Recovery	
Nitrobenzene-d5	70
2-Fluorobiphenyl	76
4-Terphenyl-d14	80
PAH by GC/MS SIM 8270M LCS for sample(s) 01-02	
Acenaphthene	74
Pyrene	73
Surrogate Recovery	
Nitrobenzene-d5	52
2-Fluorobiphenyl	61
4-Terphenyl-d14	62
Polychlorinated Biphenyls LCS for sample(s) 01-05,07-08,10-16	
Aroclor 1242/1016	92
Aroclor 1260	82
Surrogate Recovery	
2,4,5,6-Tetrachloro-m-xylene	88
Decachlorobiphenyl	79
Extractable Petroleum Hydrocarbons LCS for sample(s) 12-13,15	
Naphthalene	92
Acenaphthene	101
Anthracene	96
Pyrene	91
Chrysene	85
Nonane (C9)	78
Tetradecane (C14)	117
Nonadecane (C19)	99
Eicosane (C20)	119

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L9908768

Continued

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Parameter	% Recovery
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Extractable Petroleum Hydrocarbons LCS for sample(s) 12-13,15

Octacosane (C28)	107
Surrogate Recovery	
Chloro-Octadecane	81
o-Terphenyl	91
2-Fluorobiphenyl	101
2-Bromonaphthalene	80

Extractable Petroleum Hydrocarbons LCS for sample(s) 14

Naphthalene	81
Acenaphthene	94
Anthracene	95
Pyrene	90
Chrysene	89
Nonane (C9)	57
Tetradecane (C14)	97
Nonadecane (C19)	90
Eicosane (C20)	98
Octacosane (C28)	78
Surrogate Recovery	
Chloro-Octadecane	82
o-Terphenyl	95
2-Fluorobiphenyl	100
2-Bromonaphthalene	57

Extractable Petroleum Hydrocarbons LCS for sample(s) 06-11

Naphthalene	86
Acenaphthene	105
Anthracene	105
Pyrene	107
Chrysene	83
Nonane (C9)	43
Tetradecane (C14)	119
Nonadecane (C19)	115
Eicosane (C20)	122
Octacosane (C28)	91
Surrogate Recovery	
Chloro-Octadecane	94
o-Terphenyl	107
2-Fluorobiphenyl	119
2-Bromonaphthalene	82

Total Metals SPIKE for sample(s) 01-05,07-08,10

Arsenic, Total	74
Barium, Total	96
Beryllium, Total	100

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ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L9908768

Continued

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Parameter	% Recovery
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Total Metals SPIKE for sample(s) 01-05,07-08,10

Cadmium, Total	93
Calcium, Total	110
Chromium, Total	100
Cobalt, Total	96
Copper, Total	110
Lead, Total	89
Magnesium, Total	110
Manganese, Total	91
Nickel, Total	89
Potassium, Total	100
Selenium, Total	96
Silver, Total	77
Sodium, Total	93
Thallium, Total	120
Tin, Total	61
Vanadium, Total	100
Zinc, Total	95

Total Metals SPIKE for sample(s) 11-16

Arsenic, Total	97
Barium, Total	95
Beryllium, Total	110
Cadmium, Total	85
Calcium, Total	89
Cobalt, Total	94
Copper, Total	67
Lead, Total	87
Magnesium, Total	84
Manganese, Total	89
Nickel, Total	87
Potassium, Total	89
Selenium, Total	100
Sodium, Total	96
Thallium, Total	100
Vanadium, Total	91
Zinc, Total	100

Total Metals SPIKE for sample(s) 01,07-08,10,15

Mercury, Total	80
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Total Metals SPIKE for sample(s) 02-05,11-14,16

Mercury, Total	113
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ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L9908768

Parameter	MS %	MSD %	RPD
PAH by GC/MS SIM 8270M for sample(s) 03-15			
Acenaphthene	110	84	27
Pyrene	110	86	24
PAH by GC/MS SIM 8270M for sample(s) 01-02			
Acenaphthene	78	90	14
Pyrene	77	94	20

**ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L9908768

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES	
						PREP	ANALYSIS
Blank Analysis for sample(s) 01-05,07-08							
Chromium, Hexavalent	ND	mg/kg	0.50	1	7196A	02-Nov	TT
Blank Analysis for sample(s) 10-16							
Chromium, Hexavalent	ND	mg/kg	8.0	1	7196A	03-Nov	
Blank Analysis for sample(s) 01-05,07-08,10							
Total Metals				1	3051		
Aluminum, Total	ND	mg/kg	4.0	1	6010B	01-Nov	02-Nov
Antimony, Total	ND	mg/kg	2.0	1	6010B	01-Nov	02-Nov
Arsenic, Total	ND	mg/kg	0.40	1	6010B	01-Nov	02-Nov
Barium, Total	ND	mg/kg	0.40	1	6010B	01-Nov	02-Nov
Beryllium, Total	ND	mg/kg	0.20	1	6010B	01-Nov	02-Nov
Cadmium, Total	ND	mg/kg	0.200	1	6010B	01-Nov	02-Nov
Calcium, Total	ND	mg/kg	20.	1	6010B	01-Nov	02-Nov
Chromium, Total	ND	mg/kg	0.40	1	6010B	01-Nov	02-Nov
Cobalt, Total	ND	mg/kg	0.80	1	6010B	01-Nov	02-Nov
Copper, Total	ND	mg/kg	0.40	1	6010B	01-Nov	02-Nov
Iron, Total	ND	mg/kg	2.0	1	6010B	01-Nov	02-Nov
Lead, Total	ND	mg/kg	2.0	1	6010B	01-Nov	02-Nov
Magnesium, Total	ND	mg/kg	4.0	1	6010B	01-Nov	02-Nov
Manganese, Total	ND	mg/kg	0.40	1	6010B	01-Nov	02-Nov
Nickel, Total	ND	mg/kg	1.0	1	6010B	01-Nov	02-Nov
Potassium, Total	ND	mg/kg	100	1	6010B	01-Nov	02-Nov
Selenium, Total	ND	mg/kg	0.80	1	6010B	01-Nov	02-Nov
Silver, Total	ND	mg/kg	0.200	1	6010B	01-Nov	02-Nov
Sodium, Total	ND	mg/kg	20.	1	6010B	01-Nov	02-Nov
Thallium, Total	ND	mg/kg	0.80	1	6010B	01-Nov	02-Nov
Tin, Total	ND	mg/kg	2.0	1	6010B	01-Nov	02-Nov
Vanadium, Total	ND	mg/kg	0.40	1	6010B	01-Nov	02-Nov
Zinc, Total	ND	mg/kg	2.0	1	6010B	01-Nov	02-Nov
Blank Analysis for sample(s) 11-16							
Total Metals				1	3051		
Aluminum, Total	ND	mg/kg	4.0	1	6010B	01-Nov	02-Nov
Antimony, Total	ND	mg/kg	2.0	1	6010B	01-Nov	02-Nov
Arsenic, Total	ND	mg/kg	0.40	1	6010B	01-Nov	02-Nov
Barium, Total	ND	mg/kg	0.40	1	6010B	01-Nov	02-Nov
Beryllium, Total	ND	mg/kg	0.20	1	6010B	01-Nov	02-Nov
Cadmium, Total	ND	mg/kg	0.200	1	6010B	01-Nov	02-Nov
Calcium, Total	ND	mg/kg	20.	1	6010B	01-Nov	02-Nov
Chromium, Total	ND	mg/kg	0.40	1	6010B	01-Nov	02-Nov
Cobalt, Total	ND	mg/kg	0.80	1	6010B	01-Nov	02-Nov
Copper, Total	ND	mg/kg	0.40	1	6010B	01-Nov	02-Nov
Iron, Total	ND	mg/kg	2.0	1	6010B	01-Nov	02-Nov

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L9908768

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 11-16							
Total Metals				1	3051		
Lead, Total	ND	mg/kg	2.0	1	6010B	01-Nov 02-Nov	TT
Magnesium, Total	ND	mg/kg	4.0	1	6010B	01-Nov 02-Nov	LP
Manganese, Total	ND	mg/kg	0.40	1	6010B	01-Nov 02-Nov	LP
Nickel, Total	ND	mg/kg	1.0	1	6010B	01-Nov 02-Nov	TT
Potassium, Total	ND	mg/kg	100	1	6010B	01-Nov 02-Nov	LP
Selenium, Total	ND	mg/kg	0.80	1	6010B	01-Nov 02-Nov	TT
Silver, Total	ND	mg/kg	0.200	1	6010B	01-Nov 02-Nov	TT
Sodium, Total	ND	mg/kg	20.	1	6010B	01-Nov 02-Nov	LP
Thallium, Total	ND	mg/kg	0.80	1	6010B	01-Nov 02-Nov	TT
Tin, Total	ND	mg/kg	2.0	1	6010B	01-Nov 02-Nov	LP
Vanadium, Total	ND	mg/kg	0.40	1	6010B	01-Nov 02-Nov	TT
Zinc, Total	ND	mg/kg	2.0	1	6010B	01-Nov 02-Nov	TT
Blank Analysis for sample(s) 01,07-08,10,15							
Total Metals							
Mercury, Total	ND	mg/kg	0.25	1	7471A		DM
Blank Analysis for sample(s) 03-15							
PAH by GC/MS SIM 8270M				1	8270C-M	01-Nov 03-Nov	MK
Acenaphthene	ND	ug/kg	20.				
2-Chloronaphthalene	ND	ug/kg	20.				
Fluoranthene	ND	ug/kg	20.				
Naphthalene	ND	ug/kg	20.				
Benzo(a)anthracene	ND	ug/kg	20.				
Benzo(a,e)pyrene	ND	ug/kg	20.				
Benzo(b)fluoranthene	ND	ug/kg	20.				
Benzo(k)fluoranthene	ND	ug/kg	20.				
Chrysene	ND	ug/kg	20.				
Acenaphthylene	ND	ug/kg	20.				
Anthracene	ND	ug/kg	20.				
Benzo(ghi)perylene	ND	ug/kg	20.				
Fluorene	ND	ug/kg	20.				
Phenanthrene	ND	ug/kg	20.				
Dibenzo(a,h)anthracene	ND	ug/kg	20.				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	20.				
Pyrene	ND	ug/kg	20.				
1-Methylnaphthalene	ND	ug/kg	20.				
2-Methylnaphthalene	ND	ug/kg	20.				
Perylene	ND	ug/kg	20.				
Biphenyl	ND	ug/kg	20.				
Surrogate Recovery							
Nitrobenzene-d5	90.0	%					
2-Fluorobiphenyl	94.0	%					

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L9908768

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		
						PREP	ANALYSIS	
Blank Analysis for sample(s) 03-15								
PAH by GC/MS SIM 8270M continued				1	8270C-M	01-Nov	03-Nov	MK
4-Terphenyl-d14	98.0	%						
Blank Analysis for sample(s) 01-02								
PAH by GC/MS SIM 8270M				1	8270C-M	02-Nov	05-Nov	MK
Acenaphthene	ND	ug/kg	20.					
2-Chloronaphthalene	ND	ug/kg	20.					
Fluoranthene	ND	ug/kg	20.					
Naphthalene	ND	ug/kg	20.					
Benzo (a) anthracene	ND	ug/kg	20.					
Benzo (a, e) pyrene	ND	ug/kg	20.					
Benzo (b) fluoranthene	ND	ug/kg	20.					
Benzo (k) fluoranthene	ND	ug/kg	20.					
Chrysene	ND	ug/kg	20.					
Acenaphthylene	ND	ug/kg	20.					
Anthracene	ND	ug/kg	20.					
Benzo (ghi) perylene	ND	ug/kg	20.					
Fluorene	ND	ug/kg	20.					
Phenanthrene	ND	ug/kg	20.					
Dibenzo (a, h) anthracene	ND	ug/kg	20.					
Indeno (1, 2, 3-cd) Pyrene	ND	ug/kg	20.					
Pyrene	ND	ug/kg	20.					
1-Methylnaphthalene	ND	ug/kg	20.					
2-Methylnaphthalene	ND	ug/kg	20.					
Perylene	ND	ug/kg	20.					
Biphenyl	ND	ug/kg	20.					
Surrogate Recovery								
Nitrobenzene-d5	62.0	%						
2-Fluorobiphenyl	70.0	%						
4-Terphenyl-d14	72.0	%						
Blank Analysis for sample(s) 01-05, 07-08, 10-16								
Polychlorinated Biphenyls				1	8082	01-Nov	02-Nov	PB
Aroclor 1221	ND	ug/kg	250.					
Aroclor 1232	ND	ug/kg	250.					
Aroclor 1242/1016	ND	ug/kg	250.					
Aroclor 1248	ND	ug/kg	250.					
Aroclor 1254	ND	ug/kg	250.					
Aroclor 1260	ND	ug/kg	250.					
Surrogate Recovery								
2, 4, 5, 6-Tetrachloro-m-xylene	72.0	%						
Decachlorobiphenyl	73.0	%						



**ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L9908768

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 12-13,15							
Extractable Petroleum Hydrocarbons				46	98-1	01-Nov 01-Nov	HL
C9-C18 Aliphatics	ND	mg/kg	10.0				
C19-C36 Aliphatics	ND	mg/kg	10.0				
C11-C22 Aromatics	11.7	mg/kg	10.0				
C11-C22 Aromatics, Adjusted	11.7	mg/kg	10.0				
Naphthalene	ND	mg/kg	0.500				
2-Methylnaphthalene	ND	mg/kg	0.500				
Acenaphthalene	ND	mg/kg	0.500				
Acenaphthene	ND	mg/kg	0.500				
Fluorene	ND	mg/kg	0.500				
Phenanthrene	ND	mg/kg	0.500				
Anthracene	ND	mg/kg	0.500				
Fluoranthene	ND	mg/kg	0.500				
Pyrene	ND	mg/kg	0.500				
Benzo (a) anthracene	ND	mg/kg	0.500				
Chrysene	ND	mg/kg	0.500				
Benzo (b) fluoranthene	ND	mg/kg	0.500				
Benzo (k) fluoranthene	ND	mg/kg	0.500				
Benzo (a) pyrene	ND	mg/kg	0.500				
Indeno (1,2,3-cd) Pyrene	ND	mg/kg	0.500				
Dibenzo (a,h) anthracene	ND	mg/kg	0.500				
Benzo (ghi) perylene	ND	mg/kg	0.500				
Surrogate Recovery							
Chloro-Octadecane	81.0	%					
o-Terphenyl	88.0	%					
2-Fluorobiphenyl	105.	%					
2-Bromonaphthalene	87.0	%					
Blank Analysis for sample(s) 06-11							
Extractable Petroleum Hydrocarbons				46	98-1	01-Nov 04-Nov	HL
C9-C18 Aliphatics	ND	mg/kg	10.0				
C19-C36 Aliphatics	ND	mg/kg	10.0				
C11-C22 Aromatics	12.5	mg/kg	10.0				
Surrogate Recovery							
Chloro-Octadecane	102.	%					
o-Terphenyl	104.	%					
2-Fluorobiphenyl	112.	%					
2-Bromonaphthalene	65.0	%					
Blank Analysis for sample(s) 14							
Extractable Petroleum Hydrocarbons				46	98-1	02-Nov 02-Nov	HL
C9-C18 Aliphatics	ND	mg/kg	10.0				
C19-C36 Aliphatics	ND	mg/kg	10.0				
C11-C22 Aromatics	ND	mg/kg	10.0				

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L9908768

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS
Blank Analysis for sample(s) 14						
Extractable Petroleum Hydrocarbons continued				46	98-1	02-Nov 02-Nov
C11-C22 Aromatics, Adjusted	ND	mg/kg	10.0			
Naphthalene	ND	mg/kg	0.500			
2-Methylnaphthalene	ND	mg/kg	0.500			
Acenaphthalene	ND	mg/kg	0.500			
Acenaphthene	ND	mg/kg	0.500			
Fluorene	ND	mg/kg	0.500			
Phenanthrene	ND	mg/kg	0.500			
Anthracene	ND	mg/kg	0.500			
Fluoranthene	ND	mg/kg	0.500			
Pyrene	ND	mg/kg	0.500			
Benzo (a) anthracene	ND	mg/kg	0.500			
Chrysene	ND	mg/kg	0.500			
Benzo (b) fluoranthene	ND	mg/kg	0.500			
Benzo (k) fluoranthene	ND	mg/kg	0.500			
Benzo (a) pyrene	ND	mg/kg	0.500			
Indeno (1, 2, 3-cd) Pyrene	ND	mg/kg	0.500			
Dibenzo (a, h) anthracene	ND	mg/kg	0.500			
Benzo (ghi) perylene	ND	mg/kg	0.500			
 Surrogate Recovery						
Chloro-Octadecane	84.0	%				
o-Terphenyl	91.0	%				
2-Fluorobiphenyl	92.0	%				
2-Bromonaphthalene	62.0	%				

**ALPHA ANALYTICAL LABORATORIES**  
**ADDENDUM I**

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**REFERENCES**

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.
30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
46. Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), Massachusetts Department of Environmental Protection, (MADEP-EPH-98-1), January 1998.

**GLOSSARY OF TERMS AND SYMBOLS**

REF Reference number in which test method may be found.

METHOD Method number by which analysis was performed.

ID Initials of the analyst.

**LIMITATION OF LIABILITIES**

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

# ALPHA Analytical Laboratories, Inc.

Eight Walkup Drive Westborough, MA 01581  
 PH: 508.898.9220 FAX: 508.898.9193 www.alphalab.com

## CHAIN OF CUSTODY

No 001860

Sheet 1 of 2

Date Rec'd in Lab: 10/29

Client Name: ERM  
 Client Address: 399 Boylston St., 6<sup>th</sup> Floor  
Boston, MA 02116  
 Phone #: (617) 267-8377 FAX #: (617) 267-6447

Project Name: Raytheon-  
 Project Location: Wayland  
 Project #: 143.48  
 Project Manager: John McTigue

Report To: John McTigue  
 Bill To: Same  
 PO#: 143.48

- Standard TAT
- RUSH TAT \_\_\_\_\_ (\* DAYS)
- FAX Results
- State Forms
- Smart Report

**Comments** (Please note specific method, detection limit or reporting requirements.)

1 week turn.  
 Analysis per Alpha Bid - See  
 Scott or John McTigue  
 split w/8769

**ANALYSIS REQUEST**

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	ANALYSIS REQUEST		
						PCB - Method 8082	PAHs - 8270	Total Metals + List #
T-3-5 Plant	← SEDIMENT →	← 10/28/99 →		← Woodlot →	← N/A →	✓	✓	✓
T-3-8 Plant						✓	✓	✓
T-5-2 Plant						✓	✓	✓
T-9-5 Plant						✓	✓	✓
T-7-1 Plant						✓	✓	✓

Transfers Accepted By:	Date	Time
<i>[Signature]</i>	10/29/99	4:35
<i>[Signature]</i>	10/29/99	1:05

All samples submitted are subject to Alpha's standard Terms and Conditions.

\* See Reverse side for Matrix, Container, and Preservative Codes.

# of Containers:	4	4	4
Container Type: *	A	A	A
Preservative:	A	A	

# ALPHA Analytical Laboratories, Inc.

Eight Walkup Drive Westborough, MA 01581  
 PH: 508.898.9220 FAX: 508.898.9193 www.alphalab.com

## CHAIN OF CUSTODY

No 001861

Sheet 2 of 2

Date Rec'd in Lab: 10/29

Client Name: ERM  
 Client Address: 399 Boylston St., 6<sup>th</sup> Floor  
Boston MA 02116  
 Phone #: (617) 267-8377 FAX #: (617) 267-6447

Project Name: Roytneon -  
 Project Location: Wayland  
 Project #: 143.48  
 Project Manager: John McTigue

Report To: John McTigue  
 Bill To: Same  
 PO#: 143.48

- Standard TAT
- RUSH TAT (\* DAYS)
- FAX Results
- State Forms
- Smart Report

Comments (Please note specific method, detection limit or reporting requirements.)

1 week turn  
Analysis per Alpha Bid

### ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	PCB	8082- AND 8270	PAHs	8270	EPH	TOC
T-2-11 (0-6")	SEDIMENT	10/29/99	14:15	LRA	NA	✓	✓	✓	✓	✓	✓
T-2-G (0-6")			14:05			✓	✓	✓	✓	✓	✓
T-3-A (0-6")			14:25			✓	✓	✓	✓	✓	✓
T-1-C (0-6")			14:00			✓	✓	✓	✓	✓	✓
T-3-C (0-6")						✓	✓	✓	✓	✓	
T-5-F (0-6")						✓	✓	✓	✓	✓	
T-5-D (0-6")						✓	✓	✓	✓	✓	
T-5-11 (0-6")						✓	✓	✓	✓	✓	
T-7-B (0-6")						✓	✓	✓	✓	✓	
T-7-13 (0-6")						✓	✓	✓	✓	✓	
T-8-F (0-6")						✓	✓	✓	✓	✓	

All samples submitted are subject to Alpha's standard Terms and Conditions.

\* See Reverse side for Matrix, Container, and Preservative Codes.

Form No.: 01-01

# of Containers:	9	10	10	9
Container Type: *	4			
Preservative: *	A			

Transfers Relinquished By:	Transfers Accepted By:	Date	Time
<u>Rachel B. Cheneau</u>	<u>[Signature]</u>	<u>10/29</u>	<u>4:19</u>
<u>[Signature]</u>	<u>[Signature]</u>	<u>10/29/99</u>	<u>1805</u>