

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: ERM-New England **Laboratory Job Number:** L0301967
Address: 399 Boylston Street
6th Floor
Boston, MA 02116 **Date Received:** 05-MAR-2003
Attn: Ms. Rachel Leary **Date Reported:** 12-MAR-2003
Project Number: 1922-01-04 **Delivery Method:** Alpha
Site: RAYTHEON

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0301967-01	WS-22 (6-12")	WAYLAND, MA
L0301967-02	WS-31 (6-12")	WAYLAND, MA
L0301967-03	WS-26 (6-12")	WAYLAND, MA
L0301967-04	WS-29 (0-24")	WAYLAND, MA
L0301967-05	WS-25 (0-24")	WAYLAND, MA
L0301967-06	WS-21 (6-12")	WAYLAND, MA
L0301967-07	WS-16 (6-15")	WAYLAND, MA
L0301967-08	WS-32 (6-12")	WAYLAND, MA
L0301967-09	WS-17 (6-12")	WAYLAND, MA
L0301967-10	WS-6 (6-12")	WAYLAND, MA
L0301967-11	WS-10 (6-12")	WAYLAND, MA
L0301967-12	WS-10 (18-24")	WAYLAND, MA
L0301967-13	WS-9 (6-12")	WAYLAND, MA
L0301967-14	WS-30 (0-24")	WAYLAND, MA

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those 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

Scott McLean - Technical Director
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0301967

Alpha Report L0301967:

Report Submission

The samples submitted for the analysis of Dioxins were subcontracted to an outside laboratory. A separate report from the subcontractor will be issued as soon as the data becomes available.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0301967-01 Date Collected: 05-MAR-2003 12:30
WS-22 (6-12") Date Received : 05-MAR-2003
Sample Matrix: SOIL Date Reported : 12-MAR-2003
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	32.	%	0.10	30 2540G		0306 12:35	NL
Total Organic Carbon	6.41	%	0.031	13		0310 16:30	DD

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0301967-02
Sample Matrix: WS-31 (6-12")
SOIL
Condition of Sample: Satisfactory
Number & Type of Containers: 1-Amber

Date Collected: 05-MAR-2003 11:10
Date Received : 05-MAR-2003
Date Reported : 12-MAR-2003
Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ID ANAL
Solids, Total	35.	%	0.10	30 2540G	0306	12:35 NL
Total Organic Carbon	5.63	%	0.028	13	0310	16:30 DD

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0301967-03 Date Collected: 05-MAR-2003 10:42
 WS-26 (6-12") Date Received : 05-MAR-2003
Sample Matrix: SOIL Date Reported : 12-MAR-2003
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	31.	%	0.10	30 2540G		0306 12:35	NL
Total Organic Carbon	9.68	%	0.032	13		0310 16:30	DD

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

**ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0301967-04 WS-29 (0-24") Sample Matrix: SOIL Condition of Sample: Satisfactory Number & Type of Containers: 1-Amber	Date Collected: 05-MAR-2003 13:20 Date Received : 05-MAR-2003 Date Reported : 12-MAR-2003 Field Prep: None
--	---

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Solids, Total	24.	%	0.10	30 2540G	0306 12:35	NL
Total Organic Carbon	12.8	%	0.041	13	0311 14:30	DD

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0301967-05 Date Collected: 05-MAR-2003 12:05
WS-25 (0-24") Date Received : 05-MAR-2003
Sample Matrix: SOIL Date Reported : 12-MAR-2003
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	27.	%	0.10	30 2540G		0306 12:35	NL
Total Organic Carbon	12.3	%	0.037	13		0311 14:30	DD

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number:	L0301967-06	Date Collected:	05-MAR-2003 11:40
	WS-21 (6-12")	Date Received :	05-MAR-2003
Sample Matrix:	SOIL	Date Reported :	12-MAR-2003
Condition of Sample:	Satisfactory	Field Prep:	None
Number & Type of Containers:	1-Amber		

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	28.	%	0.10	30 2540G		0306 12:35	NL
Total Organic Carbon	10.8	%	0.035	13		0311 14:30	DD

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0301967-07 Date Collected: 05-MAR-2003 11:25
 WS-16 (6-15") Date Received : 05-MAR-2003
 Sample Matrix: SOIL Date Reported : 12-MAR-2003
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	26.	%	0.10	30 2540G			0306 12:35 NL
Total Organic Carbon	9.81	%	0.038	13			0311 14:30 DD
Polychlorinated Biphenyls				1 8082	0306 15:50	0311 21:07	AK
Aroclor 1221	ND	ug/kg	962.				
Aroclor 1232	ND	ug/kg	962.				
Aroclor 1242/1016	ND	ug/kg	962.				
Aroclor 1248	ND	ug/kg	962.				
Aroclor 1254	ND	ug/kg	962.				
Aroclor 1260	ND	ug/kg	962.				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	90.0	%	30-150				
Decachlorobiphenyl	74.0	%	30-150				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0301967-08 Date Collected: 05-MAR-2003 12:43
WS-32 (6-12") Date Received : 05-MAR-2003
Sample Matrix: SOIL Date Reported : 12-MAR-2003
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	34.	%	0.10	30 2540G		0306 12:35	NL
Total Organic Carbon	3.65	%	0.029	13		0311 14:30	DD

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0301967-10 Date Collected: 05-MAR-2003 12:15
WS-6 (6-12") Date Received : 05-MAR-2003
Sample Matrix: SOIL Date Reported : 12-MAR-2003
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	32.	%	0.10	30 2540G		0306 12:35	NL
Total Organic Carbon	5.38	%	0.031	13		0311 14:30	DD

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0301967-11 Date Collected: 05-MAR-2003 10:15
WS-10 (6-12") Date Received : 05-MAR-2003
Sample Matrix: SOIL Date Reported : 12-MAR-2003
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	26.	%	0.10	30 2540G		0306 12:35	NL
Total Organic Carbon	13.5	%	0.038	13		0311 14:30	DD

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0301967-12
Date Collected: 05-MAR-2003 10:15
WS-10 (18-24")
Date Received : 05-MAR-2003
Sample Matrix: SOIL
Date Reported : 12-MAR-2003
Condition of Sample: Satisfactory
Field Prep: None
Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	29.	%	0.10	30 2540G		0306 12:35	NL
Total Organic Carbon	9.14	%	0.034	13		0311 14:30	DD

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0301967-13 Date Collected: 05-MAR-2003 10:25
 WS-9 (6-12") Date Received : 05-MAR-2003
 Sample Matrix: SOIL Date Reported : 12-MAR-2003
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	22.	%	0.10	30 2540G			0306 12:35 NL
Total Organic Carbon	12.4	%	0.045	13			0311 14:30 DD

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0301967-14 Date Collected: 05-MAR-2003 11:48
WS-30 (0-24") Date Received : 05-MAR-2003
Sample Matrix: SOIL Date Reported : 12-MAR-2003
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 2-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	30.	%	0.10	30 2540G	0306	12:35	NL
Total Organic Carbon	7.60	%	0.033	13	0311	14:30	DD
Polychlorinated Biphenyls				1 8082	0306	15:50	0311 20:34 AK
Aroclor 1221	ND	ug/kg	833.				
Aroclor 1232	ND	ug/kg	833.				
Aroclor 1242/1016	ND	ug/kg	833.				
Aroclor 1248	ND	ug/kg	833.				
Aroclor 1254	ND	ug/kg	833.				
Aroclor 1260	ND	ug/kg	833.				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	90.0	%	30-150				
Decachlorobiphenyl	73.0	%	30-150				

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

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0301967

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Solids, Total for sample(s) 01-14 (L0301967-01, WG134715)					
Solids, Total	32.	32.	%	0	
Total Organic Carbon for sample(s) 01-03 (L0301967-01, WG134932)					
Total Organic Carbon	6.41	6.88	%	7	
Total Organic Carbon for sample(s) 04-14 (L0301967-04, WG135024)					
Total Organic Carbon	12.8	12.7	%	1	
Polychlorinated Biphenyls for sample(s) 07,14 (L0301967-14, WG134752)					
Aroclor 1221	ND	ND	ug/kg	NC	50
Aroclor 1232	ND	ND	ug/kg	NC	50
Aroclor 1242/1016	ND	ND	ug/kg	NC	50
Aroclor 1248	ND	ND	ug/kg	NC	50
Aroclor 1254	ND	ND	ug/kg	NC	50
Aroclor 1260	ND	ND	ug/kg	NC	50
Surrogate(s)	Recovery				QC Criteria
2,4,5,6-Tetrachloro-m-xylene	90.0	91.0	%	1	30-150
Decachlorobiphenyl	73.0	73.0	%	0	30-150

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0301967

Parameter	% Recovery	QC Criteria
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Total Organic Carbon LCS for sample(s) 01-03 (WG134932)

Total Organic Carbon 101

Total Organic Carbon LCS for sample(s) 04-14 (WG135024)

Total Organic Carbon 101

Polychlorinated Biphenyls LCS for sample(s) 07,14 (WG134752)

Aroclor 1242/1016 90 40-140

Aroclor 1260 93 40-140

Surrogate(s)

2,4,5,6-Tetrachloro-m-xylene 89 30-150

Decachlorobiphenyl 72 30-150

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0301967

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-03 (WG134932-2)							
Total Organic Carbon	ND	%	0.010	13		0310 16:30	DD
Blank Analysis for sample(s) 04-14 (WG135024-2)							
Total Organic Carbon	ND	%	0.010	13		0311 14:30	DD
Blank Analysis for sample(s) 07,14 (WG134752-1)							
Polychlorinated Biphenyls				1 8082		0306 15:50	0311 18:54 AK
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(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	89.0	%	30-150				
Decachlorobiphenyl	69.0	%	30-150				

**ALPHA ANALYTICAL LABORATORIES
ADDENDUM I**

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.
13. Determination of Total Organic Carbon in Sediment. U.S. EPA, Region II. July 27, 1988.
30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

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.
ND Not detected in comparison to the reported detection limit.

Please note that all solid samples are reported on dry weight basis unless noted otherwise.

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.

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MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: ERM-New England **Laboratory Job Number:** L0302026
Address: 399 Boylston Street
6th Floor
Boston, MA 02116 **Date Received:** 06-MAR-2003
Attn: Ms. Rachel Leary **Date Reported:** 18-MAR-2003
Project Number: 1922-01-04 **Delivery Method:** Alpha
Site: RAYTHEON

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0302026-01	WS-36 (6-16")	WAYLAND, MA
L0302026-02	WS-19 (6-18")	WAYLAND, MA
L0302026-03	WS-4 (6-18")	WAYLAND, MA
L0302026-04	WS-5 (6-18")	WAYLAND, MA
L0302026-05	WS-5 (18-24")	WAYLAND, MA
L0302026-06	WS-22 (18-24")	WAYLAND, MA
L0302026-07	WS-23 (6-12")	WAYLAND, MA
L0302026-08	WS-24 (6-18")	WAYLAND, MA
L0302026-09	WS-12 (6-12")	WAYLAND, MA
L0302026-10	WS-12 (18-24")	WAYLAND, MA
L0302026-11	WS-20 (6-12")	WAYLAND, MA
L0302026-12	WS-18 (6-12")	WAYLAND, MA
L0302026-13	WS-28 (0-24")	WAYLAND, MA
L0302026-14	WS-27 (6-12")	WAYLAND, MA
L0302026-15	WS-14 (6-12")	WAYLAND, MA
L0302026-16	WS-4 (18-24")	WAYLAND, MA
L0302026-17	WS-7 (6-15")	WAYLAND, MA
L0302026-18	WS-7 (18-24")	WAYLAND, MA
L0302026-19	WS-2 (6-15")	WAYLAND, MA
L0302026-20	WS-2 (18-24")	WAYLAND, MA
L0302026-21	WS-1 (6-12")	WAYLAND, MA
L0302026-22	WS-15 (6-12")	WAYLAND, MA
L0302026-23	WS-11 (18-24")	WAYLAND, MA
L0302026-24	WS-13 (6-18")	WAYLAND, MA

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those 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

Scott McLean - Technical Director
This document electronically signed

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0302026
Date Reported: 18-MAR-2003

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0302026-25	FIELD BLANK-1	WAYLAND, MA
L0302026-26	FIELD BLANK-2	WAYLAND, MA

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0302026

Alpha Report L0302026:

Report Submission

This report replaces the report issued March 17, 2003. The results for the analysis of PCB's have been amended.

The analysis of Dioxins was subcontracted to an outside laboratory. The results will be issued as a separate report from the subcontractor.

Polychlorinated Biphenyls

Alpha Sample L0302026-03 was re-analyzed on dilution in order to quantitate the sample within the range of the calibration. The results are reported as greater than values for any compound that exceeded the calibration on the initial analysis. The re-analyses were performed only for those compounds which exceeded the range of the calibration.

Polynuclear Aromatic Hydrocarbons

The matrix spike duplicate percent recoveries associated with Alpha Samples L0302026-01, -02, -04, -08 and -24 are below the acceptance criteria for the method due to a poor soxhlet extraction. This is believed to be an isolated incident and not indicative of the other samples in the batch. This is shown by the acceptable surrogate recoveries in the samples, as well as in the matrix spike. These low recoveries are resulting in high RPDS between the MS/MSD.

Total Metals

The matrix spike percent recoveries for the analyses of Aluminum, Copper, Iron and Manganese associated with Alpha Samples L0302026-01, -02, -04, 08 and -24 are invalid because the sample concentration is greater than four times the spike amount added.

The matrix spike percent recovery for the analysis of Sodium associated with Alpha Samples L0302026-25 and -26 is invalid because the sample concentration is greater than four times the spike amount added.

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302026-01 WS-36 (6-16") Sample Matrix: SOIL Condition of Sample: Satisfactory Number & Type of Containers: 3-Amber	Date Collected: 05-MAR-2003 15:55 Date Received : 06-MAR-2003 Date Reported : 18-MAR-2003 Field Prep: None
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	76.	%	0.10	30 2540G		0307 16:50	NL
Total Organic Carbon	0.434	%	0.013	13		0313 14:00	DD
Chromium, Hexavalent	ND	mg/kg	1.0	1 7196A		0312 21:00	JT
Total Metals				1 3051			
Aluminum, Total	8700	mg/kg	6.7	1 6010B	0312 14:15	0313 09:01	RW
Antimony, Total	ND	mg/kg	0.67	1 6010B	0312 14:15	0313 08:19	RW
Arsenic, Total	6.3	mg/kg	0.13	1 6010B	0312 14:15	0313 08:19	RW
Barium, Total	29.	mg/kg	0.13	1 6010B	0312 14:15	0313 08:19	RW
Beryllium, Total	0.11	mg/kg	0.06	1 6010B	0312 14:15	0313 08:19	RW
Cadmium, Total	0.11	mg/kg	0.06	1 6010B	0312 14:15	0313 08:19	RW
Calcium, Total	1200	mg/kg	1.3	1 6010B	0312 14:15	0313 08:19	RW
Chromium, Total	14.	mg/kg	0.13	1 6010B	0312 14:15	0313 08:19	RW
Cobalt, Total	3.9	mg/kg	0.27	1 6010B	0312 14:15	0313 08:19	RW
Copper, Total	6.8	mg/kg	0.13	1 6010B	0312 14:15	0313 08:19	RW
Iron, Total	9600	mg/kg	3.4	1 6010B	0312 14:15	0313 09:01	RW
Lead, Total	4.4	mg/kg	0.67	1 6010B	0312 14:15	0313 08:19	RW
Magnesium, Total	2400	mg/kg	1.3	1 6010B	0312 14:15	0313 08:19	RW
Manganese, Total	83.	mg/kg	0.13	1 6010B	0312 14:15	0313 08:19	RW
Mercury, Total	0.01	mg/kg	0.00	1 7471A	0312 13:05	0313 11:52	DM
Nickel, Total	8.1	mg/kg	0.34	1 6010B	0312 14:15	0313 08:19	RW
Potassium, Total	370	mg/kg	34.	1 6010B	0312 14:15	0313 08:19	RW
Selenium, Total	ND	mg/kg	1.3	1 6010B	0312 14:15	0313 08:19	RW
Silver, Total	ND	mg/kg	0.13	1 6010B	0312 14:15	0313 08:19	RW
Sodium, Total	110	mg/kg	27.	1 6010B	0312 14:15	0313 08:19	RW
Thallium, Total	ND	mg/kg	0.27	1 6010B	0312 14:15	0313 08:19	RW
Vanadium, Total	15.	mg/kg	0.13	1 6010B	0312 14:15	0313 08:19	RW
Zinc, Total	13.	mg/kg	0.67	1 6010B	0312 14:15	0313 08:19	RW
PAH by GC/MS SIM 8270M				1 8270C-M	0307 15:20	0312 03:47	HL
Acenaphthene	ND	ug/kg	26.				
2-Chloronaphthalene	ND	ug/kg	26.				
Fluoranthene	ND	ug/kg	26.				
Naphthalene	ND	ug/kg	26.				
Benzo(a)anthracene	ND	ug/kg	26.				
Benzo(a)pyrene	ND	ug/kg	26.				

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0302026-01
WS-36 (6-16")

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0307 15:20	0312 03:47 HL
Benzo(b)fluoranthene	ND	ug/kg	26.				
Benzo(k)fluoranthene	ND	ug/kg	26.				
Chrysene	ND	ug/kg	26.				
Acenaphthylene	ND	ug/kg	26.				
Anthracene	ND	ug/kg	26.				
Benzo(ghi)perylene	ND	ug/kg	26.				
Fluorene	ND	ug/kg	26.				
Phenanthrene	ND	ug/kg	26.				
Dibenzo(a,h)anthracene	ND	ug/kg	26.				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	26.				
Pyrene	ND	ug/kg	26.				
1-Methylnaphthalene	ND	ug/kg	26.				
2-Methylnaphthalene	ND	ug/kg	26.				
Perylene	ND	ug/kg	26.				
Biphenyl	ND	ug/kg	26.				
Benzo(e)Pyrene	ND	ug/kg	26.				
Surrogate(s)	Recovery			QC Criteria			
Nitrobenzene-d5	68.0	%		23-120			
2-Fluorobiphenyl	64.0	%		30-120			
4-Terphenyl-d14	79.0	%		18-120			
Polychlorinated Biphenyls				1	8082	0311 17:30	0313 19:30 AK
Aroclor 1221	ND	ug/kg	25.3				
Aroclor 1232	ND	ug/kg	25.3				
Aroclor 1242/1016	ND	ug/kg	25.3				
Aroclor 1248	ND	ug/kg	25.3				
Aroclor 1254	ND	ug/kg	25.3				
Aroclor 1260	ND	ug/kg	25.3				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	92.0	%		30-150			
Decachlorobiphenyl	73.0	%		30-150			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302026-02	Date Collected: 05-MAR-2003 14:53
WS-19 (6-18")	Date Received : 06-MAR-2003
Sample Matrix: SOIL	Date Reported : 18-MAR-2003
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 3-Amber	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	59.	%	0.10	30 2540G	0307 16:50		NL
Total Organic Carbon	2.27	%	0.016	13	0313 14:00		DD
Chromium, Hexavalent	ND	mg/kg	1.4	1 7196A	0312 21:00		JT
Total Metals				1 3051			
Aluminum, Total	8100	mg/kg	7.3	1 6010B	0312 14:15	0313 09:05	RW
Antimony, Total	ND	mg/kg	0.73	1 6010B	0312 14:15	0313 08:23	RW
Arsenic, Total	5.6	mg/kg	0.15	1 6010B	0312 14:15	0313 08:23	RW
Barium, Total	18.	mg/kg	0.15	1 6010B	0312 14:15	0313 08:23	RW
Beryllium, Total	0.92	mg/kg	0.07	1 6010B	0312 14:15	0313 08:23	RW
Cadmium, Total	0.52	mg/kg	0.07	1 6010B	0312 14:15	0313 08:23	RW
Calcium, Total	640	mg/kg	1.5	1 6010B	0312 14:15	0313 08:23	RW
Chromium, Total	13.	mg/kg	0.15	1 6010B	0312 14:15	0313 08:23	RW
Cobalt, Total	2.0	mg/kg	0.29	1 6010B	0312 14:15	0313 08:23	RW
Copper, Total	21.	mg/kg	0.15	1 6010B	0312 14:15	0313 08:23	RW
Iron, Total	4700	mg/kg	3.6	1 6010B	0312 14:15	0313 09:05	RW
Lead, Total	11.	mg/kg	0.73	1 6010B	0312 14:15	0313 08:23	RW
Magnesium, Total	840	mg/kg	1.5	1 6010B	0312 14:15	0313 08:23	RW
Manganese, Total	44.	mg/kg	0.15	1 6010B	0312 14:15	0313 08:23	RW
Mercury, Total	0.03	mg/kg	0.01	1 7471A	0312 13:05	0313 11:52	DM
Nickel, Total	5.8	mg/kg	0.36	1 6010B	0312 14:15	0313 08:23	RW
Potassium, Total	96.	mg/kg	36.	1 6010B	0312 14:15	0313 08:23	RW
Selenium, Total	ND	mg/kg	1.5	1 6010B	0312 14:15	0313 08:23	RW
Silver, Total	0.15	mg/kg	0.15	1 6010B	0312 14:15	0313 08:23	RW
Sodium, Total	110	mg/kg	29.	1 6010B	0312 14:15	0313 08:23	RW
Thallium, Total	ND	mg/kg	0.29	1 6010B	0312 14:15	0313 08:23	RW
Vanadium, Total	12.	mg/kg	0.15	1 6010B	0312 14:15	0313 08:23	RW
Zinc, Total	31.	mg/kg	0.73	1 6010B	0312 14:15	0313 08:23	RW
PAH by GC/MS SIM 8270M				1 8270C-M	0307 15:20	0312 04:36	HL
Acenaphthene	ND	ug/kg	34.				
2-Chloronaphthalene	ND	ug/kg	34.				
Fluoranthene	ND	ug/kg	34.				
Naphthalene	ND	ug/kg	34.				
Benzo(a)anthracene	ND	ug/kg	34.				
Benzo(a)pyrene	ND	ug/kg	34.				

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0302026-02
WS-19 (6-18")

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0307 15:20	0312 04:36 HL
Benzo(b)fluoranthene	ND	ug/kg	34.				
Benzo(k)fluoranthene	ND	ug/kg	34.				
Chrysene	ND	ug/kg	34.				
Acenaphthylene	ND	ug/kg	34.				
Anthracene	ND	ug/kg	34.				
Benzo(ghi)perylene	ND	ug/kg	34.				
Fluorene	ND	ug/kg	34.				
Phenanthrene	ND	ug/kg	34.				
Dibenzo(a,h)anthracene	ND	ug/kg	34.				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	34.				
Pyrene	ND	ug/kg	34.				
1-Methylnaphthalene	ND	ug/kg	34.				
2-Methylnaphthalene	ND	ug/kg	34.				
Perylene	ND	ug/kg	34.				
Biphenyl	ND	ug/kg	34.				
Benzo(e)Pyrene	ND	ug/kg	34.				
Surrogate(s)	Recovery			QC Criteria			
Nitrobenzene-d5	61.0	%		23-120			
2-Fluorobiphenyl	75.0	%		30-120			
4-Terphenyl-d14	88.0	%		18-120			
Polychlorinated Biphenyls				1	8082	0311 17:30	0313 19:58 AK
Aroclor 1221	ND	ug/kg	27.3				
Aroclor 1232	ND	ug/kg	27.3				
Aroclor 1242/1016	ND	ug/kg	27.3				
Aroclor 1248	ND	ug/kg	27.3				
Aroclor 1254	ND	ug/kg	27.3				
Aroclor 1260	ND	ug/kg	27.3				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	80.0	%		30-150			
Decachlorobiphenyl	65.0	%		30-150			

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302026-03	Date Collected: 05-MAR-2003 15:25
Sample Matrix: WS-4 (6-18")	Date Received : 06-MAR-2003
Sample Matrix: SOIL	Date Reported : 18-MAR-2003
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Amber	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	78.	%	0.10	30 2540G		0307 16:50	NL
Total Organic Carbon	0.872	%	0.012	13		0313 14:00	DD
Polychlorinated Biphenyls				1 8082	0311 17:30	0313 20:26	AK
Aroclor 1221	ND	ug/kg	25.6				
Aroclor 1232	ND	ug/kg	25.6				
Aroclor 1242/1016	ND	ug/kg	25.6				
Aroclor 1248	ND	ug/kg	25.6				
Aroclor 1254	ND	ug/kg	25.6				
Aroclor 1260	>500	ug/kg	25.6				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	70.0	%	30-150				
Decachlorobiphenyl	64.0	%	30-150				
Polychlorinated Biphenyls				1 8082	0311 17:30	0314 08:34	AK
Aroclor 1260	724.	ug/kg	256.				

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302026-04
 WS-5 (6-18")
 Sample Matrix: SOIL

Date Collected: 05-MAR-2003 15:05
 Date Received : 06-MAR-2003
 Date Reported : 18-MAR-2003

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 3-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	65.	%	0.10	30 2540G		0307 16:50	NL
Total Organic Carbon	1.66	%	0.015	13		0313 14:00	DD
Chromium, Hexavalent	ND	mg/kg	1.2	1 7196A		0312 21:00	JT
Total Metals				1 3051			
Aluminum, Total	7000	mg/kg	1.4	1 6010B	0312 14:15	0313 08:44	RW
Antimony, Total	ND	mg/kg	0.72	1 6010B	0312 14:15	0313 08:44	RW
Arsenic, Total	9.5	mg/kg	0.14	1 6010B	0312 14:15	0313 08:44	RW
Barium, Total	26.	mg/kg	0.14	1 6010B	0312 14:15	0313 08:44	RW
Beryllium, Total	0.32	mg/kg	0.07	1 6010B	0312 14:15	0313 08:44	RW
Cadmium, Total	0.14	mg/kg	0.07	1 6010B	0312 14:15	0313 08:44	RW
Calcium, Total	850	mg/kg	1.4	1 6010B	0312 14:15	0313 08:44	RW
Chromium, Total	21.	mg/kg	0.14	1 6010B	0312 14:15	0313 08:44	RW
Cobalt, Total	2.2	mg/kg	0.29	1 6010B	0312 14:15	0313 08:44	RW
Copper, Total	13.	mg/kg	0.14	1 6010B	0312 14:15	0313 08:44	RW
Iron, Total	5900	mg/kg	0.72	1 6010B	0312 14:15	0313 08:44	RW
Lead, Total	12.	mg/kg	0.72	1 6010B	0312 14:15	0313 08:44	RW
Magnesium, Total	840	mg/kg	1.4	1 6010B	0312 14:15	0313 08:44	RW
Manganese, Total	72.	mg/kg	0.14	1 6010B	0312 14:15	0313 08:44	RW
Mercury, Total	0.04	mg/kg	0.01	1 7471A	0312 13:05	0313 11:52	DM
Nickel, Total	4.7	mg/kg	0.36	1 6010B	0312 14:15	0313 08:44	RW
Potassium, Total	150	mg/kg	36.	1 6010B	0312 14:15	0313 08:44	RW
Selenium, Total	ND	mg/kg	1.4	1 6010B	0312 14:15	0313 08:44	RW
Silver, Total	0.29	mg/kg	0.14	1 6010B	0312 14:15	0313 08:44	RW
Sodium, Total	82.	mg/kg	29.	1 6010B	0312 14:15	0313 08:44	RW
Thallium, Total	ND	mg/kg	0.29	1 6010B	0312 14:15	0313 08:44	RW
Vanadium, Total	11.	mg/kg	0.14	1 6010B	0312 14:15	0313 08:44	RW
Zinc, Total	8.2	mg/kg	0.72	1 6010B	0312 14:15	0313 08:44	RW
PAH by GC/MS SIM 8270M				1 8270C-M	0307 15:20	0312 05:25	HL
Acenaphthene	ND	ug/kg	31.				
2-Chloronaphthalene	ND	ug/kg	31.				
Fluoranthene	ND	ug/kg	31.				
Naphthalene	ND	ug/kg	31.				
Benzo(a)anthracene	ND	ug/kg	31.				
Benzo(a)pyrene	ND	ug/kg	31.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0302026-04
 WS-5 (6-18")

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0307 15:20	0312 05:25 HL
Benzo(b)fluoranthene	ND	ug/kg	31.				
Benzo(k)fluoranthene	ND	ug/kg	31.				
Chrysene	ND	ug/kg	31.				
Acenaphthylene	ND	ug/kg	31.				
Anthracene	ND	ug/kg	31.				
Benzo(ghi)perylene	ND	ug/kg	31.				
Fluorene	ND	ug/kg	31.				
Phenanthrene	ND	ug/kg	31.				
Dibenzo(a,h)anthracene	ND	ug/kg	31.				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	31.				
Pyrene	31.	ug/kg	31.				
1-Methylnaphthalene	ND	ug/kg	31.				
2-Methylnaphthalene	ND	ug/kg	31.				
Perylene	ND	ug/kg	31.				
Biphenyl	ND	ug/kg	31.				
Benzo(e)Pyrene	ND	ug/kg	31.				
Surrogate(s)	Recovery			QC Criteria			
Nitrobenzene-d5	71.0	%		23-120			
2-Fluorobiphenyl	78.0	%		30-120			
4-Terphenyl-d14	75.0	%		18-120			
Polychlorinated Biphenyls				1	8082	0311 17:30	0313 20:55 AK
Aroclor 1221	ND	ug/kg	27.5				
Aroclor 1232	ND	ug/kg	27.5				
Aroclor 1242/1016	ND	ug/kg	27.5				
Aroclor 1248	ND	ug/kg	27.5				
Aroclor 1254	ND	ug/kg	27.5				
Aroclor 1260	37.3	ug/kg	27.5				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	78.0	%		30-150			
Decachlorobiphenyl	58.0	%		30-150			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302026-05 **Date Collected:** 05-MAR-2003 15:05
 WS-5 (18-24") **Date Received :** 06-MAR-2003
Sample Matrix: SOIL **Date Reported :** 18-MAR-2003
Condition of Sample: Satisfactory **Field Prep:** None
Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	82.	%	0.10	30 2540G		0307 16:50	NL
Total Organic Carbon	0.158	%	0.012	13		0313 14:00	DD

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302026-06	Date Collected: 05-MAR-2003 12:35
WS-22 (18-24")	Date Received : 06-MAR-2003
Sample Matrix: SOIL	Date Reported : 18-MAR-2003
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Amber	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Solids, Total	28.	%	0.10	30 2540G		0307 16:50 NL
Total Organic Carbon	8.82	%	0.035	13		0313 14:00 DD

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302026-07	Date Collected: 05-MAR-2003 13:05
WS-23 (6-12")	Date Received : 06-MAR-2003
Sample Matrix: SOIL	Date Reported : 18-MAR-2003
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Amber	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Solids, Total	33.	%	0.10	30 2540G		0307 16:50 NL
Total Organic Carbon	5.88	%	0.030	13		0313 14:00 DD

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302026-08	Date Collected: 05-MAR-2003 14:10
WS-24 (6-18")	Date Received : 06-MAR-2003
Sample Matrix: SOIL	Date Reported : 18-MAR-2003
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 3-Amber	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	81.	%	0.10	30 2540G		0307 16:50	NL
Total Organic Carbon	0.086	%	0.012	13		0313 14:00	DD
Chromium, Hexavalent	ND	mg/kg	0.99	1 7196A		0312 21:00	JT
Total Metals				1 3051			
Aluminum, Total	3300	mg/kg	1.3	1 6010B	0312 14:15	0313 08:48	RW
Antimony, Total	ND	mg/kg	0.66	1 6010B	0312 14:15	0313 08:48	RW
Arsenic, Total	2.7	mg/kg	0.13	1 6010B	0312 14:15	0313 08:48	RW
Barium, Total	12.	mg/kg	0.13	1 6010B	0312 14:15	0313 08:48	RW
Beryllium, Total	ND	mg/kg	0.06	1 6010B	0312 14:15	0313 08:48	RW
Cadmium, Total	ND	mg/kg	0.06	1 6010B	0312 14:15	0313 08:48	RW
Calcium, Total	330	mg/kg	1.3	1 6010B	0312 14:15	0313 08:48	RW
Chromium, Total	5.3	mg/kg	0.13	1 6010B	0312 14:15	0313 08:48	RW
Cobalt, Total	2.1	mg/kg	0.27	1 6010B	0312 14:15	0313 08:48	RW
Copper, Total	3.9	mg/kg	0.13	1 6010B	0312 14:15	0313 08:48	RW
Iron, Total	3600	mg/kg	0.66	1 6010B	0312 14:15	0313 08:48	RW
Lead, Total	1.8	mg/kg	0.66	1 6010B	0312 14:15	0313 08:48	RW
Magnesium, Total	840	mg/kg	1.3	1 6010B	0312 14:15	0313 08:48	RW
Manganese, Total	30.	mg/kg	0.13	1 6010B	0312 14:15	0313 08:48	RW
Mercury, Total	ND	mg/kg	0.01	1 7471A	0312 13:05	0313 11:52	DM
Nickel, Total	4.9	mg/kg	0.33	1 6010B	0312 14:15	0313 08:48	RW
Potassium, Total	310	mg/kg	33.	1 6010B	0312 14:15	0313 08:48	RW
Selenium, Total	ND	mg/kg	1.3	1 6010B	0312 14:15	0313 08:48	RW
Silver, Total	ND	mg/kg	0.13	1 6010B	0312 14:15	0313 08:48	RW
Sodium, Total	ND	mg/kg	27.	1 6010B	0312 14:15	0313 08:48	RW
Thallium, Total	ND	mg/kg	0.27	1 6010B	0312 14:15	0313 08:48	RW
Vanadium, Total	5.5	mg/kg	0.13	1 6010B	0312 14:15	0313 08:48	RW
Zinc, Total	7.3	mg/kg	0.66	1 6010B	0312 14:15	0313 08:48	RW
PAH by GC/MS SIM 8270M				1 8270C-M	0307 15:20	0312 06:14	HL
Acenaphthene	ND	ug/kg	25.				
2-Chloronaphthalene	ND	ug/kg	25.				
Fluoranthene	ND	ug/kg	25.				
Naphthalene	ND	ug/kg	25.				
Benzo(a)anthracene	ND	ug/kg	25.				
Benzo(a)pyrene	ND	ug/kg	25.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0302026-08
 WS-24 (6-18")

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0307 15:20	0312 06:14 HL
Benzo(b)fluoranthene	ND	ug/kg	25.				
Benzo(k)fluoranthene	ND	ug/kg	25.				
Chrysene	ND	ug/kg	25.				
Acenaphthylene	ND	ug/kg	25.				
Anthracene	ND	ug/kg	25.				
Benzo(ghi)perylene	ND	ug/kg	25.				
Fluorene	ND	ug/kg	25.				
Phenanthrene	ND	ug/kg	25.				
Dibenzo(a,h)anthracene	ND	ug/kg	25.				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	25.				
Pyrene	ND	ug/kg	25.				
1-Methylnaphthalene	ND	ug/kg	25.				
2-Methylnaphthalene	ND	ug/kg	25.				
Perylene	ND	ug/kg	25.				
Biphenyl	ND	ug/kg	25.				
Benzo(e)Pyrene	ND	ug/kg	25.				
Surrogate(s)	Recovery						QC Criteria
Nitrobenzene-d5	84.0	%					23-120
2-Fluorobiphenyl	79.0	%					30-120
4-Terphenyl-d14	86.0	%					18-120
Polychlorinated Biphenyls				1	8082	0311 17:30	0313 21:23 AK
Aroclor 1221	ND	ug/kg	24.7				
Aroclor 1232	ND	ug/kg	24.7				
Aroclor 1242/1016	ND	ug/kg	24.7				
Aroclor 1248	ND	ug/kg	24.7				
Aroclor 1254	ND	ug/kg	24.7				
Aroclor 1260	ND	ug/kg	24.7				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	79.0	%					30-150
Decachlorobiphenyl	70.0	%					30-150

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302026-09	Date Collected: 05-MAR-2003 14:55
WS-12 (6-12")	Date Received : 06-MAR-2003
Sample Matrix: SOIL	Date Reported : 18-MAR-2003
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Amber	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Solids, Total	34.	%	0.10	30 2540G	0307 16:50	NL
Total Organic Carbon	10.6	%	0.029	13	0313 14:00	DD

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302026-10 Date Collected: 05-MAR-2003 14:55
WS-12 (18-24") Date Received : 06-MAR-2003
Sample Matrix: SOIL Date Reported : 18-MAR-2003
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	47.	%	0.10	30 2540G		0307 16:50	NL
Total Organic Carbon	3.47	%	0.021	13		0313 14:00	DD

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302026-11 Date Collected: 05-MAR-2003 14:45
WS-20 (6-12") Date Received : 06-MAR-2003
Sample Matrix: SOIL Date Reported : 18-MAR-2003
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	80.	%	0.10	30 2540G		0307 16:50	NL
Total Organic Carbon	0.325	%	0.012	13		0313 14:00	DD

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number:	L0302026-12	Date Collected:	05-MAR-2003 14:30
	WS-18 (6-12")	Date Received :	06-MAR-2003
Sample Matrix:	SOIL	Date Reported :	18-MAR-2003
Condition of Sample:	Satisfactory	Field Prep:	None
Number & Type of Containers:	1-Amber		

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	81.	%	0.10	30 2540G			0307 16:50 NL
Total Organic Carbon	0.395	%	0.012	13			0313 14:00 DD

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302026-13	Date Collected: 05-MAR-2003 12:20
WS-28 (0-24")	Date Received : 06-MAR-2003
Sample Matrix: SOIL	Date Reported : 18-MAR-2003
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Amber	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Solids, Total	32.	%	0.10	30 2540G		0307 16:50 NL
Total Organic Carbon	6.84	%	0.031	13		0313 14:00 DD

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302026-14 WS-27 (6-12") Sample Matrix: SOIL Condition of Sample: Satisfactory Number & Type of Containers: 1-Amber	Date Collected: 05-MAR-2003 13:25 Date Received : 06-MAR-2003 Date Reported : 18-MAR-2003 Field Prep: None
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Solids, Total	28.	%	0.10	30 2540G	0307 16:50	NL
Total Organic Carbon	10.3	%	0.035	13	0313 14:00	DD

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302026-15
Date Collected: 05-MAR-2003 14:50
WS-14 (6-12")
Date Received : 06-MAR-2003
Sample Matrix: SOIL
Date Reported : 18-MAR-2003
Condition of Sample: Satisfactory
Field Prep: None
Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
Solids, Total	53.	%	0.10	30 2540G	0307	16:50	NL
Total Organic Carbon	3.87	%	0.018	13	0313	14:00	DD

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302026-16	Date Collected: 05-MAR-2003 15:25
WS-4 (18-24")	Date Received : 06-MAR-2003
Sample Matrix: SOIL	Date Reported : 18-MAR-2003
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Amber	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Solids, Total	48.	%	0.10	30 2540G	0307 16:50	NL
Total Organic Carbon	6.31	%	0.020	13	0313 14:00	DD

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number:	L0302026-17	Date Collected:	05-MAR-2003 15:45
	WS-7 (6-15")	Date Received :	06-MAR-2003
Sample Matrix:	SOIL	Date Reported :	18-MAR-2003
Condition of Sample:	Satisfactory	Field Prep:	None
Number & Type of Containers:	2-Amber		

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	60.	%	0.10	30 2540G		0307 16:50	NL
Total Organic Carbon	1.98	%	0.016	13		0313 14:00	DD
Polychlorinated Biphenyls				1 8082		0314 16:00	0317 10:34 AK
Aroclor 1221	ND	ug/kg	26.0				
Aroclor 1232	ND	ug/kg	26.0				
Aroclor 1242/1016	ND	ug/kg	26.0				
Aroclor 1248	ND	ug/kg	26.0				
Aroclor 1254	ND	ug/kg	26.0				
Aroclor 1260	83.0	ug/kg	26.0				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	77.0	%	30-150				
Decachlorobiphenyl	67.0	%	30-150				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302026-18 Date Collected: 05-MAR-2003 15:45
WS-7 (18-24") Date Received : 06-MAR-2003
Sample Matrix: SOIL Date Reported : 18-MAR-2003
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	59.	%	0.10	30 2540G		0307 16:50	NL
Total Organic Carbon	2.42	%	0.016	13		0313 14:00	DD

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302026-19 Date Collected: 05-MAR-2003 15:50
 WS-2 (6-15") Date Received : 06-MAR-2003
 Sample Matrix: SOIL Date Reported : 18-MAR-2003
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	73.	%	0.10	30 2540G		0307 16:50	NL
Total Organic Carbon	0.534	%	0.013	13		0313 14:00	DD
Polychlorinated Biphenyls				1 8082		0311 17:30 0313 22:19	AK
Aroclor 1221	ND	ug/kg	25.4				
Aroclor 1232	ND	ug/kg	25.4				
Aroclor 1242/1016	ND	ug/kg	25.4				
Aroclor 1248	ND	ug/kg	25.4				
Aroclor 1254	ND	ug/kg	25.4				
Aroclor 1260	ND	ug/kg	25.4				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	73.0	%	30-150				
Decachlorobiphenyl	60.0	%	30-150				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302026-20
Date Collected: 05-MAR-2003 15:50
WS-2 (18-24")
Date Received : 06-MAR-2003
Sample Matrix: SOIL
Date Reported : 18-MAR-2003
Condition of Sample: Satisfactory
Field Prep: None
Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	35.	%	0.10	30 2540G		0307 16:50	NL
Total Organic Carbon	9.83	%	0.028	13		0313 14:00	DD

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302026-21 Date Collected: 05-MAR-2003 15:01
 WS-1 (6-12") Date Received : 06-MAR-2003
Sample Matrix: SOIL Date Reported : 18-MAR-2003

Condition of Sample: Satisfactory Field Prep: None

Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	74.	%	0.10	30 2540G			0307 17:15 NL
Total Organic Carbon	0.135	%	0.013	13			0314 09:30 JC

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302026-23 Date Collected: 05-MAR-2003 15:35
WS-11 (18-24") Date Received : 06-MAR-2003
Sample Matrix: SOIL Date Reported : 18-MAR-2003
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	80.	%	0.10	30 2540G		0307 17:15	NL
Total Organic Carbon	0.087	%	0.012	13		0314 09:30	JC

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0302026-24
 WS-13 (6-18")

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0307 15:20	0312 07:03 HL
Benzo(b)fluoranthene	180	ug/kg	50.				
Benzo(k)fluoranthene	67.	ug/kg	50.				
Chrysene	87.	ug/kg	50.				
Acenaphthylene	ND	ug/kg	50.				
Anthracene	ND	ug/kg	50.				
Benzo(ghi)perylene	100	ug/kg	50.				
Fluorene	ND	ug/kg	50.				
Phenanthrene	ND	ug/kg	50.				
Dibenzo(a,h)anthracene	ND	ug/kg	50.				
Indeno(1,2,3-cd)Pyrene	95.	ug/kg	50.				
Pyrene	100	ug/kg	50.				
1-Methylnaphthalene	ND	ug/kg	50.				
2-Methylnaphthalene	ND	ug/kg	50.				
Perylene	ND	ug/kg	50.				
Biphenyl	ND	ug/kg	50.				
Benzo(e)Pyrene	110	ug/kg	50.				
Surrogate(s)	Recovery						QC Criteria
Nitrobenzene-d5	57.0	%					23-120
2-Fluorobiphenyl	71.0	%					30-120
4-Terphenyl-d14	75.0	%					18-120
Polychlorinated Biphenyls				1	8082	0311 17:30	0313 22:48 AK
Aroclor 1221	ND	ug/kg	34.7				
Aroclor 1232	ND	ug/kg	34.7				
Aroclor 1242/1016	ND	ug/kg	34.7				
Aroclor 1248	ND	ug/kg	34.7				
Aroclor 1254	ND	ug/kg	34.7				
Aroclor 1260	ND	ug/kg	34.7				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	65.0	%					30-150
Decachlorobiphenyl	51.0	%					30-150

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0302026-25
 FIELD BLANK-1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0311 11:45	0311 18:35 HL
Chrysene	ND	ug/l	0.20				
Acenaphthylene	ND	ug/l	0.20				
Anthracene	ND	ug/l	0.20				
Benzo(ghi)perylene	ND	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	ND	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20				
Pyrene	ND	ug/l	0.20				
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
Benzo(e)Pyrene	ND	ug/l	0.20				
Surrogate(s)	Recovery			QC Criteria			
Nitrobenzene-d5	47.0	%		23-120			
2-Fluorobiphenyl	50.0	%		43-120			
4-Terphenyl-d14	79.0	%		33-120			

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302026-26 Date Collected: 05-MAR-2003 16:10
FIELD BLANK-2 Date Received : 06-MAR-2003
Sample Matrix: WATER Date Reported : 18-MAR-2003
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 1-Amber,2-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Total Organic Carbon	ND	mg/l	0.50	1 9060		0307 13:16	DT
Chromium, Hexavalent	ND	mg/l	0.02	1 7196A	0306 21:50	0306 21:50	AJ
Total Metals				1 3015			
Aluminum, Total	ND	mg/l	0.10	1 6010B	0307 12:30	0310 11:13	RW
Antimony, Total	ND	mg/l	0.050	1 6010B	0307 12:30	0310 11:13	RW
Arsenic, Total	ND	mg/l	0.005	1 6010B	0307 12:30	0310 11:13	RW
Barium, Total	ND	mg/l	0.01	1 6010B	0307 12:30	0310 11:13	RW
Beryllium, Total	ND	mg/l	0.005	1 6010B	0307 12:30	0310 11:13	RW
Cadmium, Total	ND	mg/l	0.005	1 6010B	0307 12:30	0310 11:13	RW
Calcium, Total	ND	mg/l	0.10	1 6010B	0307 12:30	0310 11:13	RW
Chromium, Total	ND	mg/l	0.01	1 6010B	0307 12:30	0310 11:13	RW
Cobalt, Total	ND	mg/l	0.02	1 6010B	0307 12:30	0310 11:13	RW
Copper, Total	ND	mg/l	0.01	1 6010B	0307 12:30	0310 11:13	RW
Iron, Total	ND	mg/l	0.05	1 6010B	0307 12:30	0310 11:13	RW
Lead, Total	ND	mg/l	0.010	1 6010B	0307 12:30	0310 11:13	RW
Magnesium, Total	ND	mg/l	0.10	1 6010B	0307 12:30	0310 11:13	RW
Manganese, Total	ND	mg/l	0.01	1 6010B	0307 12:30	0310 11:13	RW
Mercury, Total	ND	mg/l	0.0005	1 7470A	0307 17:00	0310 10:55	DM
Nickel, Total	ND	mg/l	0.025	1 6010B	0307 12:30	0310 11:13	RW
Potassium, Total	ND	mg/l	2.5	1 6010B	0307 12:30	0310 11:13	RW
Selenium, Total	ND	mg/l	0.005	1 6010B	0307 12:30	0310 11:13	RW
Silver, Total	ND	mg/l	0.007	1 6010B	0307 12:30	0310 11:13	RW
Sodium, Total	ND	mg/l	2.0	1 6010B	0307 12:30	0310 11:13	RW
Thallium, Total	ND	mg/l	0.005	1 6010B	0307 12:30	0310 11:13	RW
Vanadium, Total	ND	mg/l	0.01	1 6010B	0307 12:30	0310 11:13	RW
Zinc, Total	ND	mg/l	0.05	1 6010B	0307 12:30	0310 11:13	RW
PAH by GC/MS SIM 8270M				1 8270C-M	0311 11:45	0311 19:23	HL
Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	ND	ug/l	0.20				
Naphthalene	1.7	ug/l	0.20				
Benzo(a)anthracene	ND	ug/l	0.20				
Benzo(a)pyrene	ND	ug/l	0.20				
Benzo(b)fluoranthene	ND	ug/l	0.20				
Benzo(k)fluoranthene	ND	ug/l	0.20				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0302026-26
 FIELD BLANK-2

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0311 11:45	0311 19:23 HL
Chrysene	ND	ug/l	0.20				
Acenaphthylene	ND	ug/l	0.20				
Anthracene	ND	ug/l	0.20				
Benzo(ghi)perylene	ND	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	ND	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20				
Pyrene	ND	ug/l	0.20				
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
Benzo(e)Pyrene	ND	ug/l	0.20				
Surrogate(s)	Recovery			QC Criteria			
Nitrobenzene-d5	59.0	%		23-120			
2-Fluorobiphenyl	61.0	%		43-120			
4-Terphenyl-d14	76.0	%		33-120			

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

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

Laboratory Job Number: L0302026

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Solids, Total for sample(s) 01-20 (L0302026-01, WG134833)					
Solids, Total	76.	76.	%	0	
Solids, Total for sample(s) 21-24 (L0302013-01, WG134834)					
Solids, Total	85.	85.	%	0	
Total Organic Carbon for sample(s) 25-26 (L0302026-26, WG134846)					
Total Organic Carbon	ND	ND	mg/l	NC	
Total Organic Carbon for sample(s) 01-20 (L0302026-06, WG135260)					
Total Organic Carbon	8.82	9.14	%	4	
Chromium, Hexavalent for sample(s) 25-26 (L0302026-25, WG134771)					
Chromium, Hexavalent	ND	ND	mg/l	NC	
Chromium, Hexavalent for sample(s) 01-02,04,08,24 (L0302026-04, WG135041)					
Chromium, Hexavalent	ND	ND	mg/kg	NC	
Total Metals for sample(s) 25-26 (L0302030-01, WG134887)					
Aluminum, Total	ND	ND	mg/l	NC	20
Arsenic, Total	0.010	0.011	mg/l	9	20
Calcium, Total	78.	81.	mg/l	4	20
Copper, Total	ND	ND	mg/l	NC	20
Iron, Total	58.	60.	mg/l	3	20
Lead, Total	ND	ND	mg/l	NC	20
Magnesium, Total	17.	18.	mg/l	6	20
Manganese, Total	2.8	2.9	mg/l	4	20
Potassium, Total	11.	12.	mg/l	9	20
Silver, Total	ND	ND	mg/l	NC	20
Zinc, Total	ND	ND	mg/l	NC	20
Total Metals for sample(s) 01-02,04,08,24 (L0302151-01, WG135182)					
Arsenic, Total	7.2	7.3	mg/kg	1	35
Barium, Total	47.	44.	mg/kg	7	35
Cadmium, Total	ND	ND	mg/kg	NC	35
Chromium, Total	14.	13.	mg/kg	7	35
Lead, Total	130	130	mg/kg	0	35
Selenium, Total	ND	ND	mg/kg	NC	35
Silver, Total	ND	ND	mg/kg	NC	35
Total Metals for sample(s) 25-26 (L0301932-02, WG134842)					
Mercury, Total	ND	ND	mg/l	NC	35
Total Metals for sample(s) 01-02,04,08,24 (L0302026-01, WG135108)					
Mercury, Total	0.01	ND	mg/kg	NC	45

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0302026

Continued

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Polychlorinated Biphenyls for sample(s) 01-04,08,19,24 (L0302026-08, WG135296)					
Aroclor 1221	ND	ND	ug/kg	NC	50
Aroclor 1232	ND	ND	ug/kg	NC	50
Aroclor 1242/1016	ND	ND	ug/kg	NC	50
Aroclor 1248	ND	ND	ug/kg	NC	50
Aroclor 1254	ND	ND	ug/kg	NC	50
Aroclor 1260	ND	ND	ug/kg	NC	50
Surrogate(s)	Recovery				QC Criteria
2,4,5,6-Tetrachloro-m-xylene	79.0	82.0	%	4	30-150
Decachlorobiphenyl	70.0	72.0	%	3	30-150
Polychlorinated Biphenyls for sample(s) 17 (L0302026-17, WG135447)					
Aroclor 1221	ND	ND	ug/kg	NC	50
Aroclor 1232	ND	ND	ug/kg	NC	50
Aroclor 1242/1016	ND	ND	ug/kg	NC	50
Aroclor 1248	ND	ND	ug/kg	NC	50
Aroclor 1254	ND	ND	ug/kg	NC	50
Aroclor 1260	83.0	85.6	ug/kg	3	50
Surrogate(s)	Recovery				QC Criteria
2,4,5,6-Tetrachloro-m-xylene	77.0	73.0	%	5	30-150
Decachlorobiphenyl	67.0	64.0	%	5	30-150

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

Laboratory Job Number: L0302026

Parameter	% Recovery	QC Criteria
Total Organic Carbon LCS for sample(s) 25-26 (WG134846)		
Total Organic Carbon	98	
Total Organic Carbon LCS for sample(s) 01-20 (WG135260)		
Total Organic Carbon	106	
Total Organic Carbon LCS for sample(s) 21-24 (WG135428)		
Total Organic Carbon	99	
Chromium, Hexavalent LCS for sample(s) 25-26 (WG134771)		
Chromium, Hexavalent	98	
Chromium, Hexavalent LCS for sample(s) 01-02,04,08,24 (WG135041)		
Chromium, Hexavalent	98	
Total Metals LCS for sample(s) 25-26 (WG134887)		
Aluminum, Total	110	75-125
Antimony, Total	103	75-125
Arsenic, Total	105	75-125
Barium, Total	105	75-125
Beryllium, Total	103	75-125
Cadmium, Total	111	75-125
Calcium, Total	100	75-125
Chromium, Total	105	75-125
Cobalt, Total	104	75-125
Copper, Total	104	75-125
Iron, Total	100	75-125
Lead, Total	107	75-125
Magnesium, Total	110	75-125
Manganese, Total	104	75-125
Nickel, Total	101	75-125
Potassium, Total	100	75-125
Selenium, Total	107	75-125
Silver, Total	93	75-125
Sodium, Total	120	75-125
Thallium, Total	105	75-125
Vanadium, Total	104	75-125
Zinc, Total	104	75-125
Total Metals LCS for sample(s) 01-02,04,08,24 (WG135182)		
Aluminum, Total	106	70-140
Antimony, Total	96	70-140
Arsenic, Total	106	70-140
Barium, Total	98	70-140
Beryllium, Total	96	70-140
Cadmium, Total	100	70-140
Calcium, Total	101	70-140
Chromium, Total	96	70-140
Cobalt, Total	96	70-140

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0302026

Continued

Parameter	% Recovery	QC Criteria
Total Metals LCS for sample(s) 01-02,04,08,24 (WG135182)		
Copper, Total	98	70-140
Iron, Total	98	70-140
Lead, Total	104	70-140
Magnesium, Total	106	70-140
Manganese, Total	96	70-140
Nickel, Total	91	70-140
Potassium, Total	84	70-140
Selenium, Total	106	70-140
Silver, Total	93	70-140
Sodium, Total	96	70-140
Thallium, Total	102	70-140
Vanadium, Total	96	70-140
Zinc, Total	96	70-140
Total Metals LCS for sample(s) 25-26 (WG134842)		
Mercury, Total	105	70-130
Total Metals LCS for sample(s) 01-02,04,08,24 (WG135108)		
Mercury, Total	107	60-140
PAH by GC/MS SIM 8270M LCS for sample(s) 01-02,04,08,24 (WG135440)		
Acenaphthene	81	31-137
2-Chloronaphthalene	83	
Fluoranthene	100	
Anthracene	81	
Pyrene	110	35-142
Surrogate(s)		
Nitrobenzene-d5	106	23-120
2-Fluorobiphenyl	89	30-120
4-Terphenyl-d14	94	18-120
PAH by GC/MS SIM 8270M LCS for sample(s) 25-26 (WG135441)		
Acenaphthene	73	46-118
2-Chloronaphthalene	65	
Fluoranthene	97	
Anthracene	72	
Pyrene	97	26-127
Surrogate(s)		
Nitrobenzene-d5	72	23-120
2-Fluorobiphenyl	64	43-120
4-Terphenyl-d14	78	33-120
PAH by GC/MS SIM 8270M LCS for sample(s) 25-26 (WG135441)		
Acenaphthene	73	46-118
2-Chloronaphthalene	66	
Fluoranthene	92	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0302026

Continued

Parameter	% Recovery	QC Criteria
PAH by GC/MS SIM 8270M LCS for sample(s) 25-26 (WG135441)		
Anthracene	73	
Pyrene	92	26-127
Surrogate(s)		
Nitrobenzene-d5	65	23-120
2-Fluorobiphenyl	65	43-120
4-Terphenyl-d14	75	33-120
Polychlorinated Biphenyls LCS for sample(s) 01-04,08,19,24 (WG135296)		
Aroclor 1242/1016	79	40-140
Aroclor 1260	81	40-140
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	75	30-150
Decachlorobiphenyl	72	30-150
Polychlorinated Biphenyls LCS for sample(s) 17 (WG135447)		
Aroclor 1242/1016	82	40-140
Aroclor 1260	88	40-140
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	86	30-150
Decachlorobiphenyl	81	30-150
Chromium, Hexavalent SPIKE for sample(s) 25-26 (L0302026-25, WG134771)		
Chromium, Hexavalent	96	
Chromium, Hexavalent SPIKE for sample(s) 01-02,04,08,24 (L0302026-08, WG135041)		
Chromium, Hexavalent	91	
Total Metals SPIKE for sample(s) 25-26 (L0302030-02, WG134887)		
Aluminum, Total	115	75-125
Antimony, Total	101	75-125
Arsenic, Total	101	75-125
Barium, Total	105	75-125
Beryllium, Total	100	75-125
Cadmium, Total	106	75-125
Calcium, Total	90	75-125
Chromium, Total	100	75-125
Cobalt, Total	100	75-125
Copper, Total	104	75-125
Iron, Total	100	75-125
Lead, Total	103	75-125
Magnesium, Total	110	75-125
Manganese, Total	100	75-125
Nickel, Total	96	75-125
Potassium, Total	96	75-125
Selenium, Total	102	75-125

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0302026

Continued

Parameter	% Recovery	QC Criteria
Total Metals SPIKE for sample(s) 25-26 (L0302030-02, WG134887)		
Silver, Total	103	75-125
Sodium, Total	70	75-125
Thallium, Total	100	75-125
Vanadium, Total	104	75-125
Zinc, Total	98	75-125
Total Metals SPIKE for sample(s) 01-02,04,08,24 (L0302151-02, WG135182)		
Aluminum, Total	0	70-140
Antimony, Total	84	70-140
Arsenic, Total	95	70-140
Barium, Total	95	70-140
Beryllium, Total	102	70-140
Cadmium, Total	97	70-140
Calcium, Total	116	70-140
Chromium, Total	93	70-140
Cobalt, Total	93	70-140
Copper, Total	511	70-140
Iron, Total	0	70-140
Lead, Total	100	70-140
Magnesium, Total	116	70-140
Manganese, Total	46	70-140
Nickel, Total	88	70-140
Potassium, Total	116	70-140
Selenium, Total	95	70-140
Silver, Total	101	70-140
Sodium, Total	128	70-140
Thallium, Total	72	70-140
Vanadium, Total	93	70-140
Zinc, Total	93	70-140
Total Metals SPIKE for sample(s) 25-26 (L0301932-03, WG134842)		
Mercury, Total	114	70-130
Total Metals SPIKE for sample(s) 01-02,04,08,24 (L0302026-02, WG135108)		
Mercury, Total	100	60-140

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0302026

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
PAH by GC/MS SIM 8270M for sample(s) 01-02,04,08,24 (L0302026-08, WG135440)					
Acenaphthene	74	18	122	50	31-137
2-Chloronaphthalene	75	19	119	50	
Fluoranthene	97	23	123	50	
Anthracene	74	17	125	50	
Pyrene	110	24	128	50	35-142
Surrogate(s)					
Nitrobenzene-d5	84	20	123		23-120
2-Fluorobiphenyl	77	20	118		30-120
4-Terphenyl-d14	89	19	130		18-120

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0302026

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 25-26 (WG134846-1)							
Total Organic Carbon	ND	mg/l	0.50	1 9060		0307 13:16	DT
Blank Analysis for sample(s) 01-20 (WG135260-2)							
Total Organic Carbon	ND	%	0.010	13		0313 14:00	DD
Blank Analysis for sample(s) 21-24 (WG135428-1)							
Total Organic Carbon	ND	%	0.010	13		0314 09:30	JC
Blank Analysis for sample(s) 25-26 (WG134771-1)							
Chromium, Hexavalent	ND	mg/l	0.02	1 7196A		0306 21:50	0306 21:50 AJ
Blank Analysis for sample(s) 01-02,04,08,24 (WG135041-1)							
Chromium, Hexavalent	ND	mg/kg	0.80	1 7196A		0312 21:00	JT
Blank Analysis for sample(s) 25-26 (WG134887-3)							
Total Metals				1 3015			
Aluminum, Total	ND	mg/l	0.10	1 6010B		0307 12:30	0310 10:59 RW
Antimony, Total	ND	mg/l	0.050	1 6010B		0307 12:30	0310 10:59 RW
Arsenic, Total	ND	mg/l	0.005	1 6010B		0307 12:30	0310 10:59 RW
Barium, Total	ND	mg/l	0.01	1 6010B		0307 12:30	0310 10:59 RW
Beryllium, Total	ND	mg/l	0.005	1 6010B		0307 12:30	0310 10:59 RW
Cadmium, Total	ND	mg/l	0.005	1 6010B		0307 12:30	0310 10:59 RW
Calcium, Total	ND	mg/l	0.10	1 6010B		0307 12:30	0310 10:59 RW
Chromium, Total	ND	mg/l	0.01	1 6010B		0307 12:30	0310 10:59 RW
Cobalt, Total	ND	mg/l	0.02	1 6010B		0307 12:30	0310 10:59 RW
Copper, Total	ND	mg/l	0.01	1 6010B		0307 12:30	0310 10:59 RW
Iron, Total	ND	mg/l	0.05	1 6010B		0307 12:30	0310 10:59 RW
Lead, Total	ND	mg/l	0.010	1 6010B		0307 12:30	0310 10:59 RW
Magnesium, Total	ND	mg/l	0.10	1 6010B		0307 12:30	0310 10:59 RW
Manganese, Total	ND	mg/l	0.01	1 6010B		0307 12:30	0310 10:59 RW
Nickel, Total	ND	mg/l	0.025	1 6010B		0307 12:30	0310 10:59 RW
Potassium, Total	ND	mg/l	2.5	1 6010B		0307 12:30	0310 10:59 RW
Selenium, Total	ND	mg/l	0.005	1 6010B		0307 12:30	0310 10:59 RW
Silver, Total	ND	mg/l	0.007	1 6010B		0307 12:30	0310 10:59 RW
Sodium, Total	ND	mg/l	2.0	1 6010B		0307 12:30	0310 10:59 RW
Thallium, Total	ND	mg/l	0.005	1 6010B		0307 12:30	0310 10:59 RW
Vanadium, Total	ND	mg/l	0.01	1 6010B		0307 12:30	0310 10:59 RW
Zinc, Total	ND	mg/l	0.05	1 6010B		0307 12:30	0310 10:59 RW

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0302026

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-02,04,08,24 (WG135182-3)							
Total Metals				1	3051		
Aluminum, Total	ND	mg/kg	4.0	1	6010B	0312 14:15	0313 07:45 RW
Antimony, Total	ND	mg/kg	2.0	1	6010B	0312 14:15	0313 07:45 RW
Arsenic, Total	ND	mg/kg	0.40	1	6010B	0312 14:15	0313 07:45 RW
Barium, Total	ND	mg/kg	0.40	1	6010B	0312 14:15	0313 07:45 RW
Beryllium, Total	ND	mg/kg	0.20	1	6010B	0312 14:15	0313 07:45 RW
Cadmium, Total	ND	mg/kg	0.20	1	6010B	0312 14:15	0313 07:45 RW
Calcium, Total	ND	mg/kg	4.0	1	6010B	0312 14:15	0313 07:45 RW
Chromium, Total	ND	mg/kg	0.40	1	6010B	0312 14:15	0313 07:45 RW
Cobalt, Total	ND	mg/kg	0.80	1	6010B	0312 14:15	0313 07:45 RW
Copper, Total	ND	mg/kg	0.40	1	6010B	0312 14:15	0313 07:45 RW
Iron, Total	ND	mg/kg	2.0	1	6010B	0312 14:15	0313 07:45 RW
Lead, Total	ND	mg/kg	2.0	1	6010B	0312 14:15	0313 07:45 RW
Magnesium, Total	ND	mg/kg	4.0	1	6010B	0312 14:15	0313 07:45 RW
Manganese, Total	ND	mg/kg	0.40	1	6010B	0312 14:15	0313 07:45 RW
Nickel, Total	ND	mg/kg	1.0	1	6010B	0312 14:15	0313 07:45 RW
Potassium, Total	ND	mg/kg	100	1	6010B	0312 14:15	0313 07:45 RW
Selenium, Total	ND	mg/kg	0.80	1	6010B	0312 14:15	0313 07:45 RW
Silver, Total	ND	mg/kg	0.40	1	6010B	0312 14:15	0313 07:45 RW
Sodium, Total	ND	mg/kg	80.	1	6010B	0312 14:15	0313 07:45 RW
Thallium, Total	ND	mg/kg	0.80	1	6010B	0312 14:15	0313 07:45 RW
Vanadium, Total	ND	mg/kg	0.40	1	6010B	0312 14:15	0313 07:45 RW
Zinc, Total	ND	mg/kg	2.0	1	6010B	0312 14:15	0313 07:45 RW
Blank Analysis for sample(s) 25-26 (WG134842-4)							
Total Metals							
Mercury, Total	ND	mg/l	0.0005	1	7470A	0307 17:00	0310 10:41 DM
Blank Analysis for sample(s) 01-02,04,08,24 (WG135108-4)							
Total Metals							
Mercury, Total	ND	mg/kg	0.03	1	7471A	0312 13:05	0313 11:52 DM
Blank Analysis for sample(s) 01-02,04,08,24 (WG135440-1)							
PAH by GC/MS SIM 8270M				1	8270C-M	0307 15:20	0312 00:30 HL
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)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.				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0302026

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-02,04,08,24 (WG135440-1)							
PAH by GC/MS SIM 8270M continued				1 8270C-M	0307 15:20	0312 00:30	HL
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.				
Benzo(e)Pyrene	ND	ug/kg	20.				
Surrogate(s)	Recovery			QC Criteria			
Nitrobenzene-d5	61.0	%		23-120			
2-Fluorobiphenyl	61.0	%		30-120			
4-Terphenyl-d14	89.0	%		18-120			
Blank Analysis for sample(s) 25-26 (WG135441-1)							
PAH by GC/MS SIM 8270M				1 8270C-M	0311 11:45	0311 16:10	HL
Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	ND	ug/l	0.20				
Naphthalene	ND	ug/l	0.20				
Benzo(a)anthracene	ND	ug/l	0.20				
Benzo(a)pyrene	ND	ug/l	0.20				
Benzo(b)fluoranthene	ND	ug/l	0.20				
Benzo(k)fluoranthene	ND	ug/l	0.20				
Chrysene	ND	ug/l	0.20				
Acenaphthylene	ND	ug/l	0.20				
Anthracene	ND	ug/l	0.20				
Benzo(ghi)perylene	ND	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	ND	ug/l	0.20				
Dibenzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20				
Pyrene	ND	ug/l	0.20				
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				
Perylene	ND	ug/l	0.20				
Biphenyl	ND	ug/l	0.20				
Benzo(e)Pyrene	ND	ug/l	0.20				
Surrogate(s)	Recovery			QC Criteria			
Nitrobenzene-d5	60.0	%		23-120			
2-Fluorobiphenyl	65.0	%		43-120			
4-Terphenyl-d14	81.0	%		33-120			

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0302026

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-04,08,19,24 (WG135296-1)							
Polychlorinated Biphenyls				1 8082	0311 17:30	0313 18:05	AK
Aroclor 1221	ND	ug/kg	25.0				
Aroclor 1232	ND	ug/kg	25.0				
Aroclor 1242/1016	ND	ug/kg	25.0				
Aroclor 1248	ND	ug/kg	25.0				
Aroclor 1254	ND	ug/kg	25.0				
Aroclor 1260	ND	ug/kg	25.0				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	73.0	%					30-150
Decachlorobiphenyl	70.0	%					30-150
Blank Analysis for sample(s) 17 (WG135447-1)							
Polychlorinated Biphenyls				1 8082	0314 16:00	0317 09:08	AK
Aroclor 1221	ND	ug/kg	25.0				
Aroclor 1232	ND	ug/kg	25.0				
Aroclor 1242/1016	ND	ug/kg	25.0				
Aroclor 1248	ND	ug/kg	25.0				
Aroclor 1254	ND	ug/kg	25.0				
Aroclor 1260	ND	ug/kg	25.0				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	83.0	%					30-150
Decachlorobiphenyl	79.0	%					30-150

**ALPHA ANALYTICAL LABORATORIES
ADDENDUM I**

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.
13. Determination of Total Organic Carbon in Sediment. U.S. EPA, Region II. July 27, 1988.
30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

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.
ND Not detected in comparison to the reported detection limit.

Please note that all solid samples are reported on dry weight basis unless noted otherwise.

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

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MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: ERM-New England **Laboratory Job Number:** L0302520
Address: 399 Boylston Street
6th Floor
Boston, MA 02116 **Date Received:** 20-MAR-2003
Attn: Ms. Rachel Leary **Date Reported:** 27-MAR-2003
Project Number: 000192201-04 **Delivery Method:** Client
Site: RAYTHEON

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0302520-01	WS-35 (6-12")	WAYLAND, MA
L0302520-02	WS-34 (6-12")	WAYLAND, MA
L0302520-03	WS-33 (6-12")	WAYLAND, MA
L0302520-04	WS-23 (6-12")	WAYLAND, MA
L0302520-05	WS-8 (6-12")	WAYLAND, MA
L0302520-06	WS-3 (6-12")	WAYLAND, MA
L0302520-07	DUP-1	WAYLAND, MA
L0302520-08	DUP-2	WAYLAND, MA

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those 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: James Todaro

James Todaro - Technical Director
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0302520

Total Metals

The MS % recovery for the analysis of Chromium is outside the in-house acceptance criteria for the method. A post analytical spike was performed with an acceptable recovery of 98%.

The MS % recovery for the analysis of Zinc is outside the in-house acceptance criteria for the method. A post analytical spike was performed with an acceptable recovery of 96%.

The MS % recoveries for the analyses of Aluminum, Iron, Magnesium and Manganese are invalid because the sample concentration is greater than four times the spike amount added.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302520-01 WS-35 (6-12") Sample Matrix: SOIL Condition of Sample: Satisfactory Number & Type of Containers: 1-Amber	Date Collected: 20-MAR-2003 14:00 Date Received : 20-MAR-2003 Date Reported : 27-MAR-2003 Field Prep: None
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PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Solids, Total	37.	%	0.10	30 2540G		0321 15:05 NL
Total Organic Carbon	6.32	%	0.027	13		0324 14:30 DD

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302520-03 Date Collected: 20-MAR-2003 14:40
 WS-33 (6-12") Date Received : 20-MAR-2003
Sample Matrix: SOIL Date Reported : 27-MAR-2003
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	36.	%	0.10	30 2540G		0321 15:05	NL
Total Organic Carbon	5.58	%	0.027	13		0324 14:30	DD

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302520-04 **Date Collected:** 20-MAR-2003 15:00
WS-23 (6-12") **Date Received :** 20-MAR-2003
Sample Matrix: SOIL **Date Reported :** 27-MAR-2003

Condition of Sample: Satisfactory **Field Prep:** None

Number & Type of Containers: 3-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	32.	%	0.10	30 2540G		0321 15:05	NL
Total Organic Carbon	10.9	%	0.031	13		0324 14:30	DD
Chromium, Hexavalent	ND	mg/kg	2.5	1 7196A		0321 23:00	JT
Total Metals				1 3051			
Aluminum, Total	8900	mg/kg	12.	1 6010B	0321 15:25	0324 10:16	RW
Antimony, Total	ND	mg/kg	6.2	1 6010B	0321 15:25	0324 10:16	RW
Arsenic, Total	11.	mg/kg	1.2	1 6010B	0321 15:25	0324 10:16	RW
Barium, Total	41.	mg/kg	1.2	1 6010B	0321 15:25	0324 10:16	RW
Beryllium, Total	1.1	mg/kg	0.62	1 6010B	0321 15:25	0324 10:16	RW
Cadmium, Total	2.2	mg/kg	1.2	1 6010B	0321 15:25	0324 10:16	RW
Calcium, Total	2800	mg/kg	12.	1 6010B	0321 15:25	0324 10:16	RW
Chromium, Total	110	mg/kg	1.2	1 6010B	0321 15:25	0324 10:16	RW
Cobalt, Total	2.6	mg/kg	2.5	1 6010B	0321 15:25	0324 10:16	RW
Copper, Total	170	mg/kg	1.2	1 6010B	0321 15:25	0324 10:16	RW
Iron, Total	4500	mg/kg	6.2	1 6010B	0321 15:25	0324 10:16	RW
Lead, Total	38.	mg/kg	6.2	1 6010B	0321 15:25	0324 10:16	RW
Magnesium, Total	410	mg/kg	12.	1 6010B	0321 15:25	0324 10:16	RW
Manganese, Total	81.	mg/kg	1.2	1 6010B	0321 15:25	0324 10:16	RW
Mercury, Total	ND	mg/kg	0.26	1 7471A	0325 15:20	0326 11:44	DM
Nickel, Total	11.	mg/kg	3.1	1 6010B	0321 15:25	0324 10:16	RW
Potassium, Total	ND	mg/kg	310	1 6010B	0321 15:25	0324 10:16	RW
Selenium, Total	ND	mg/kg	2.5	1 6010B	0321 15:25	0324 10:16	RW
Silver, Total	4.1	mg/kg	1.2	1 6010B	0321 15:25	0324 10:16	RW
Sodium, Total	310	mg/kg	250	1 6010B	0321 15:25	0324 10:16	RW
Thallium, Total	ND	mg/kg	1.2	1 6010B	0321 15:25	0324 10:16	RW
Vanadium, Total	19.	mg/kg	1.2	1 6010B	0321 15:25	0324 10:16	RW
Zinc, Total	94.	mg/kg	6.2	1 6010B	0321 15:25	0324 10:16	RW
PAH by GC/MS SIM 8270M				1 8270C-M	0321 12:10	0322 14:39	HL
Acenaphthene	99.	ug/kg	62.				
2-Chloronaphthalene	ND	ug/kg	62.				
Fluoranthene	1800	ug/kg	62.				
Naphthalene	ND	ug/kg	62.				
Benzo(a)anthracene	870	ug/kg	62.				
Benzo(a)pyrene	760	ug/kg	62.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0302520-04
 WS-23 (6-12")

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0321 12:10	0322 14:39 HL
Benzo(b)fluoranthene	1000	ug/kg	62.				
Benzo(k)fluoranthene	440	ug/kg	62.				
Chrysene	960	ug/kg	62.				
Acenaphthylene	ND	ug/kg	62.				
Anthracene	320	ug/kg	62.				
Benzo(ghi)perylene	480	ug/kg	62.				
Fluorene	110	ug/kg	62.				
Phenanthrene	1400	ug/kg	62.				
Dibenzo(a,h)anthracene	140	ug/kg	62.				
Indeno(1,2,3-cd)Pyrene	540	ug/kg	62.				
Pyrene	1600	ug/kg	62.				
1-Methylnaphthalene	ND	ug/kg	62.				
2-Methylnaphthalene	ND	ug/kg	62.				
Perylene	170	ug/kg	62.				
Biphenyl	ND	ug/kg	62.				
Benzo(e)Pyrene	520	ug/kg	62.				
Surrogate(s)	Recovery			QC Criteria			
Nitrobenzene-d5	50.0	%		23-120			
2-Fluorobiphenyl	61.0	%		30-120			
4-Terphenyl-d14	69.0	%		18-120			
Polychlorinated Biphenyls				1	8082	0321 18:57	0324 17:32 AK
Aroclor 1221	ND	ug/kg	391.				
Aroclor 1232	ND	ug/kg	391.				
Aroclor 1242/1016	ND	ug/kg	391.				
Aroclor 1248	ND	ug/kg	391.				
Aroclor 1254	ND	ug/kg	391.				
Aroclor 1260	ND	ug/kg	391.				
Surrogate(s)	Recovery			QC Criteria			
2,4,5,6-Tetrachloro-m-xylene	85.0	%		30-150			
Decachlorobiphenyl	85.0	%		30-150			

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302520-06 Date Collected: 20-MAR-2003 16:20
 WS-3 (6-12") Date Received : 20-MAR-2003
 Sample Matrix: SOIL Date Reported : 27-MAR-2003
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Amber

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	65.	%	0.10	30 2540G			0321 15:05 NL
Total Organic Carbon	1.02	%	0.015	13			0324 14:30 DD
Polychlorinated Biphenyls				1 8082			0321 18:57 0324 18:29 AK
Aroclor 1221	ND	ug/kg	192.				
Aroclor 1232	ND	ug/kg	192.				
Aroclor 1242/1016	ND	ug/kg	192.				
Aroclor 1248	ND	ug/kg	192.				
Aroclor 1254	ND	ug/kg	192.				
Aroclor 1260	520.	ug/kg	192.				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	92.0	%	30-150				
Decachlorobiphenyl	95.0	%	30-150				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number:	L0302520-07	Date Collected:	20-MAR-2003 00:00
	DUP-1	Date Received :	20-MAR-2003
Sample Matrix:	SOIL	Date Reported :	27-MAR-2003
Condition of Sample:	Satisfactory	Field Prep:	None
Number & Type of Containers:	3-Amber		

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	32.	%	0.10	30 2540G	0321	15:05	NL
Total Organic Carbon	11.2	%	0.031	13	0324	14:30	DD
Chromium, Hexavalent	ND	mg/kg	2.5	1 7196A	0321	23:00	JT
Total Metals				1 3051			
Aluminum, Total	8800	mg/kg	12.	1 6010B	0321	15:25	0324 10:21 RW
Antimony, Total	ND	mg/kg	6.2	1 6010B	0321	15:25	0324 10:21 RW
Arsenic, Total	9.7	mg/kg	1.2	1 6010B	0321	15:25	0324 10:21 RW
Barium, Total	41.	mg/kg	1.2	1 6010B	0321	15:25	0324 10:21 RW
Beryllium, Total	1.1	mg/kg	0.62	1 6010B	0321	15:25	0324 10:21 RW
Cadmium, Total	2.2	mg/kg	1.2	1 6010B	0321	15:25	0324 10:21 RW
Calcium, Total	2600	mg/kg	12.	1 6010B	0321	15:25	0324 10:21 RW
Chromium, Total	100	mg/kg	1.2	1 6010B	0321	15:25	0324 10:21 RW
Cobalt, Total	ND	mg/kg	2.5	1 6010B	0321	15:25	0324 10:21 RW
Copper, Total	160	mg/kg	1.2	1 6010B	0321	15:25	0324 10:21 RW
Iron, Total	4100	mg/kg	6.2	1 6010B	0321	15:25	0324 10:21 RW
Lead, Total	38.	mg/kg	6.2	1 6010B	0321	15:25	0324 10:21 RW
Magnesium, Total	400	mg/kg	12.	1 6010B	0321	15:25	0324 10:21 RW
Manganese, Total	79.	mg/kg	1.2	1 6010B	0321	15:25	0324 10:21 RW
Mercury, Total	ND	mg/kg	0.25	1 7471A	0325	15:20	0326 11:44 DM
Nickel, Total	11.	mg/kg	3.1	1 6010B	0321	15:25	0324 10:21 RW
Potassium, Total	ND	mg/kg	310	1 6010B	0321	15:25	0324 10:21 RW
Selenium, Total	ND	mg/kg	2.5	1 6010B	0321	15:25	0324 10:21 RW
Silver, Total	3.8	mg/kg	1.2	1 6010B	0321	15:25	0324 10:21 RW
Sodium, Total	290	mg/kg	250	1 6010B	0321	15:25	0324 10:21 RW
Thallium, Total	ND	mg/kg	1.2	1 6010B	0321	15:25	0324 10:21 RW
Vanadium, Total	18.	mg/kg	1.2	1 6010B	0321	15:25	0324 10:21 RW
Zinc, Total	100	mg/kg	6.2	1 6010B	0321	15:25	0324 10:21 RW
PAH by GC/MS SIM 8270M				1 8270C-M	0321	12:10	0322 15:35 HL
Acenaphthene	ND	ug/kg	62.				
2-Chloronaphthalene	ND	ug/kg	62.				
Fluoranthene	64.	ug/kg	62.				
Naphthalene	ND	ug/kg	62.				
Benzo(a)anthracene	ND	ug/kg	62.				
Benzo(a)pyrene	ND	ug/kg	62.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0302520-07
 DUP-1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
PAH by GC/MS SIM 8270M continued				1	8270C-M	0321 12:10	0322 15:35 HL
Benzo(b)fluoranthene	ND	ug/kg	62.				
Benzo(k)fluoranthene	ND	ug/kg	62.				
Chrysene	ND	ug/kg	62.				
Acenaphthylene	ND	ug/kg	62.				
Anthracene	ND	ug/kg	62.				
Benzo(ghi)perylene	ND	ug/kg	62.				
Fluorene	ND	ug/kg	62.				
Phenanthrene	ND	ug/kg	62.				
Dibenzo(a,h)anthracene	ND	ug/kg	62.				
Indeno(1,2,3-cd)Pyrene	ND	ug/kg	62.				
Pyrene	ND	ug/kg	62.				
1-Methylnaphthalene	ND	ug/kg	62.				
2-Methylnaphthalene	ND	ug/kg	62.				
Perylene	ND	ug/kg	62.				
Biphenyl	ND	ug/kg	62.				
Benzo(e)Pyrene	ND	ug/kg	62.				
Surrogate(s)	Recovery						QC Criteria
Nitrobenzene-d5	50.0	%					23-120
2-Fluorobiphenyl	58.0	%					30-120
4-Terphenyl-d14	61.0	%					18-120
Polychlorinated Biphenyls				1	8082	0321 18:57	0324 18:58 AK
Aroclor 1221	ND	ug/kg	391.				
Aroclor 1232	ND	ug/kg	391.				
Aroclor 1242/1016	ND	ug/kg	391.				
Aroclor 1248	ND	ug/kg	391.				
Aroclor 1254	ND	ug/kg	391.				
Aroclor 1260	ND	ug/kg	391.				
Surrogate(s)	Recovery						QC Criteria
2,4,5,6-Tetrachloro-m-xylene	95.0	%					30-150
Decachlorobiphenyl	96.0	%					30-150

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0302520-08	Date Collected: 20-MAR-2003 00:00
DUP-2	Date Received : 20-MAR-2003
Sample Matrix: SOIL	Date Reported : 27-MAR-2003
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Amber	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Solids, Total	31.	%	0.10	30 2540G			0321 15:05 NL
Total Organic Carbon	9.03	%	0.032	13			0324 14:30 DD
Polychlorinated Biphenyls				1 8082			0321 18:57 0324 19:27 AK
Aroclor 1221	ND	ug/kg	403.				
Aroclor 1232	ND	ug/kg	403.				
Aroclor 1242/1016	ND	ug/kg	403.				
Aroclor 1248	ND	ug/kg	403.				
Aroclor 1254	ND	ug/kg	403.				
Aroclor 1260	ND	ug/kg	403.				
Surrogate(s)	Recovery		QC Criteria				
2,4,5,6-Tetrachloro-m-xylene	103.	%	30-150				
Decachlorobiphenyl	97.0	%	30-150				

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0302520

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Solids, Total for sample(s) 01-08 (L0302520-01, WG135882)					
Solids, Total	37.	37.	%	0	
Total Organic Carbon for sample(s) 05 (L0302520-05, WG135923)					
Total Organic Carbon	11.7	11.5	%	2	
Total Organic Carbon for sample(s) 01-04,06-08 (L0302520-01, WG136043)					
Total Organic Carbon	6.32	6.22	%	2	
Chromium, Hexavalent for sample(s) 04,07 (L0302381-01, WG135886)					
Chromium, Hexavalent	ND	ND	mg/kg	NC	
Total Metals for sample(s) 04,07 (L0302516-01, WG135972)					
Arsenic, Total	3.2	3.0	mg/kg	6	35
Barium, Total	29.	27.	mg/kg	7	35
Cadmium, Total	ND	ND	mg/kg	NC	35
Chromium, Total	9.9	9.1	mg/kg	8	35
Lead, Total	14.	18.	mg/kg	25	35
Selenium, Total	ND	ND	mg/kg	NC	35
Silver, Total	ND	ND	mg/kg	NC	35
Total Metals for sample(s) 04,07 (L0302516-01, WG136114)					
Mercury, Total	ND	ND	mg/kg	NC	45
Polychlorinated Biphenyls for sample(s) 04-08 (L0302520-08, WG135915)					
Aroclor 1221	ND	ND	ug/kg	NC	50
Aroclor 1232	ND	ND	ug/kg	NC	50
Aroclor 1242/1016	ND	ND	ug/kg	NC	50
Aroclor 1248	ND	ND	ug/kg	NC	50
Aroclor 1254	ND	ND	ug/kg	NC	50
Aroclor 1260	ND	ND	ug/kg	NC	50
Surrogate(s)		Recovery			QC Criteria
2,4,5,6-Tetrachloro-m-xylene	103.	88.0	%	16	30-150
Decachlorobiphenyl	97.0	86.0	%	12	30-150

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

Laboratory Job Number: L0302520

Parameter	% Recovery	QC Criteria
Total Organic Carbon LCS for sample(s) 05 (WG135923)		
Total Organic Carbon	103	
Total Organic Carbon LCS for sample(s) 01-04,06-08 (WG136043)		
Total Organic Carbon	106	
Chromium, Hexavalent LCS for sample(s) 04,07 (WG135886)		
Chromium, Hexavalent	98	
Total Metals LCS for sample(s) 04,07 (WG135972)		
Aluminum, Total	105	70-140
Antimony, Total	101	70-140
Arsenic, Total	111	70-140
Barium, Total	101	70-140
Beryllium, Total	101	70-140
Cadmium, Total	104	70-140
Calcium, Total	96	70-140
Chromium, Total	99	70-140
Cobalt, Total	101	70-140
Copper, Total	101	70-140
Iron, Total	107	70-140
Lead, Total	108	70-140
Magnesium, Total	106	70-140
Manganese, Total	116	70-140
Nickel, Total	96	70-140
Potassium, Total	86	70-140
Selenium, Total	113	70-140
Silver, Total	101	70-140
Sodium, Total	111	70-140
Thallium, Total	109	70-140
Vanadium, Total	101	70-140
Zinc, Total	101	70-140
Total Metals LCS for sample(s) 04,07 (WG136114)		
Mercury, Total	100	60-140
PAH by GC/MS SIM 8270M LCS for sample(s) 04,07 (WG135900)		
Acenaphthene	72	31-137
2-Chloronaphthalene	64	
Fluoranthene	86	
Anthracene	75	
Pyrene	86	35-142
Surrogate(s)		
Nitrobenzene-d5	66	23-120
2-Fluorobiphenyl	66	30-120
4-Terphenyl-d14	75	18-120

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0302520

Continued

Parameter	% Recovery	QC Criteria
Polychlorinated Biphenyls LCS for sample(s) 04-08 (WG135915)		
Aroclor 1242/1016	86	40-140
Aroclor 1260	88	40-140
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	87	30-150
Decachlorobiphenyl	97	30-150
Chromium, Hexavalent SPIKE for sample(s) 04,07 (L0302381-02, WG135886)		
Chromium, Hexavalent	90	
Total Metals SPIKE for sample(s) 04,07 (L0302516-01, WG135972)		
Aluminum, Total	55	70-140
Antimony, Total	89	70-140
Arsenic, Total	94	70-140
Barium, Total	90	70-140
Beryllium, Total	93	70-140
Cadmium, Total	96	70-140
Chromium, Total	68	70-140
Cobalt, Total	86	70-140
Copper, Total	97	70-140
Iron, Total	0	70-140
Lead, Total	104	70-140
Magnesium, Total	44	70-140
Manganese, Total	0	70-140
Nickel, Total	80	70-140
Potassium, Total	95	70-140
Selenium, Total	102	70-140
Silver, Total	96	70-140
Sodium, Total	126	70-140
Thallium, Total	96	70-140
Vanadium, Total	84	70-140
Zinc, Total	58	70-140
Total Metals SPIKE for sample(s) 04,07 (L0302516-01, WG136114)		
Mercury, Total	140	60-140

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0302520

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
PAH by GC/MS SIM 8270M for sample(s) 04,07 (L0302516-01, WG135900)					
Acenaphthene	82	85	4	50	31-137
2-Chloronaphthalene	77	79	3	50	
Fluoranthene	78	86	10	50	
Anthracene	70	75	7	50	
Pyrene	80	86	7	50	35-142
Surrogate(s)					
Nitrobenzene-d5	85	70	19		23-120
2-Fluorobiphenyl	79	82	4		30-120
4-Terphenyl-d14	68	73	7		18-120

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0302520

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 05 (WG135923-2)							
Total Organic Carbon	ND	%	0.010	13		0321	12:00 JC
Blank Analysis for sample(s) 01-04,06-08 (WG136043-2)							
Total Organic Carbon	ND	%	0.010	13		0324	14:30 DD
Blank Analysis for sample(s) 04,07 (WG135886-1)							
Chromium, Hexavalent	ND	mg/kg	0.80	1 7196A		0321	23:00 JT
Blank Analysis for sample(s) 04,07 (WG135972-3)							
Total Metals				1 3051			
Aluminum, Total	ND	mg/kg	4.0	1 6010B	0321 15:25	0324	09:54 RW
Antimony, Total	ND	mg/kg	2.0	1 6010B	0321 15:25	0324	09:54 RW
Arsenic, Total	ND	mg/kg	0.40	1 6010B	0321 15:25	0324	09:54 RW
Barium, Total	ND	mg/kg	0.40	1 6010B	0321 15:25	0324	09:54 RW
Beryllium, Total	ND	mg/kg	0.20	1 6010B	0321 15:25	0324	09:54 RW
Cadmium, Total	ND	mg/kg	0.40	1 6010B	0321 15:25	0324	09:54 RW
Calcium, Total	ND	mg/kg	4.0	1 6010B	0321 15:25	0324	09:54 RW
Chromium, Total	ND	mg/kg	0.40	1 6010B	0321 15:25	0324	09:54 RW
Cobalt, Total	ND	mg/kg	0.80	1 6010B	0321 15:25	0324	09:54 RW
Copper, Total	ND	mg/kg	0.40	1 6010B	0321 15:25	0324	09:54 RW
Iron, Total	ND	mg/kg	2.0	1 6010B	0321 15:25	0324	09:54 RW
Lead, Total	ND	mg/kg	2.0	1 6010B	0321 15:25	0324	09:54 RW
Magnesium, Total	ND	mg/kg	4.0	1 6010B	0321 15:25	0324	09:54 RW
Manganese, Total	ND	mg/kg	0.40	1 6010B	0321 15:25	0324	09:54 RW
Nickel, Total	ND	mg/kg	1.0	1 6010B	0321 15:25	0324	09:54 RW
Potassium, Total	ND	mg/kg	100	1 6010B	0321 15:25	0324	09:54 RW
Selenium, Total	ND	mg/kg	0.80	1 6010B	0321 15:25	0324	09:54 RW
Silver, Total	ND	mg/kg	0.40	1 6010B	0321 15:25	0324	09:54 RW
Sodium, Total	ND	mg/kg	80.	1 6010B	0321 15:25	0324	09:54 RW
Thallium, Total	ND	mg/kg	0.40	1 6010B	0321 15:25	0324	09:54 RW
Vanadium, Total	ND	mg/kg	0.40	1 6010B	0321 15:25	0324	09:54 RW
Zinc, Total	ND	mg/kg	2.0	1 6010B	0321 15:25	0324	09:54 RW
Blank Analysis for sample(s) 04,07 (WG136114-4)							
Total Metals							
Mercury, Total	ND	mg/kg	0.08	1 7471A	0325 15:20	0326	11:44 DM
Blank Analysis for sample(s) 04,07 (WG135900-1)							
PAH by GC/MS SIM 8270M				1 8270C-M	0321 12:10	0322	10:10 HL
Acenaphthene	ND	ug/kg	20.				
2-Chloronaphthalene	ND	ug/kg	20.				
Fluoranthene	ND	ug/kg	20.				
Naphthalene	ND	ug/kg	20.				

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0302520

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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Blank Analysis for sample(s) 04,07 (WG135900-1)

PAH by GC/MS SIM 8270M continued	1	8270C-M			0321 12:10 0322 10:10	HL
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Benzo(a)anthracene	ND	ug/kg	20.			
Benzo(a)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.			
Benzo(e)Pyrene	ND	ug/kg	20.			

Surrogate(s)	Recovery	%	QC Criteria
Nitrobenzene-d5	58.0	%	23-120
2-Fluorobiphenyl	55.0	%	30-120
4-Terphenyl-d14	61.0	%	18-120

Blank Analysis for sample(s) 04-08 (WG135915-1)

Polychlorinated Biphenyls	1	8082			0321 18:57 0324 16:07	AK
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Aroclor 1221	ND	ug/kg	125.			
Aroclor 1232	ND	ug/kg	125.			
Aroclor 1242/1016	ND	ug/kg	125.			
Aroclor 1248	ND	ug/kg	125.			
Aroclor 1254	ND	ug/kg	125.			
Aroclor 1260	ND	ug/kg	125.			

Surrogate(s)	Recovery	%	QC Criteria
2,4,5,6-Tetrachloro-m-xylene	87.0	%	30-150
Decachlorobiphenyl	95.0	%	30-150

**ALPHA ANALYTICAL LABORATORIES
ADDENDUM I**

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.
13. Determination of Total Organic Carbon in Sediment. U.S. EPA, Region II. July 27, 1988.
30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

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.
ND Not detected in comparison to the reported detection limit.

Please note that all solid samples are reported on dry weight basis unless noted otherwise.

LIMITATION OF LIABILITIES

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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.