

Raytheon Company

Phase II Comprehensive Site
Assessment

Former Raytheon Facility

430 Boston Post Road

Wayland, Massachusetts

(Volume V – Appendix H Continued)

27 November 2001

143.51

Environmental Resources Management

399 Boylston Street, 6th Floor
Boston, Massachusetts 02116



Appendix H
Laboratory Analytical Reports Sediment
(Continued)

ALPHA ANALYTICAL LABORATORIES

Eight Wal kup 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: L0004054
Address: 399 Boylston Street Invoice Number: 37300
6th Floor
Boston, MA 02116 Date Received: 24-MAY-00
Attn: Rachel Chenail Date Reported: 02-JUN-00
Project Number: 143.51 Delivery Method: Alpha
Site: RAYTHEON WET

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0004054-01	T-14-7	WAYLAND
L0004054-02	T-14-C	WAYLAND
L0004054-03	T-14-6	WAYLAND
L0004054-04	T-13-8	WAYLAND
L0004054-05	T-12-5	WAYLAND
L0004054-06	T-10-8	WAYLAND
L0004054-07	T-5-12	WAYLAND
L0004054-08	T-10-7	WAYLAND
L0004054-09	T-9-6	WAYLAND
L0004054-10	T-10-9	WAYLAND
L0004054-11	T-2-F	WAYLAND
L0004054-12	T-3-11	WAYLAND
L0004054-13	T-9-7	WAYLAND
L0004054-14	T-10-11	WAYLAND
L0004054-15	T-3-13	WAYLAND
L0004054-16	T-9-14	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.

Authorized by: _____

Scott McLean - Laboratory Director

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0004054
Date Reported: 02-JUN-00

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0004054-17	T-7-12	WAYLAND
L0004054-18	T-12-11	WAYLAND
L0004054-19	T-12-8	WAYLAND
L0004054-20	T-12. 1-4	WAYLAND
L0004054-21	T-12-6	WAYLAND
L0004054-22	T-12-13	WAYLAND
L0004054-23	T-12-14	WAYLAND
L0004054-24	T-12-10	WAYLAND
L0004054-25	T-12-9	WAYLAND
L0004054-26	T-12-15	WAYLAND
L0004054-27	T-13-9	WAYLAND
L0004054-28	T-14-8	WAYLAND
L0004054-29	T-12. 1-6	WAYLAND
L0004054-30	T-13-7	WAYLAND
L0004054-31	T-15-2	WAYLAND
L0004054-32	T-10-12	WAYLAND
L0004054-33	T-12. 1-7	WAYLAND
L0004054-34	T-13-6	WAYLAND
L0004054-35	T-12. 1-1	WAYLAND
L0004054-36	T-9-13	WAYLAND

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0004054

Alpha Job L0004054:

QC Samples:

Please note the Antimony spike recovery on sample L0004054-27 is outside acceptance criteria. A post analytical spike was performed with acceptable results indicating sample digestion was complete.

The Spike Recoveries for Aluminum, Chromium, Copper, Iron, Lead, and Manganese are invalid because the sample concentrations were greater than 4 times the amount of spike added.

Detection Limits:

In most samples, the required detection limit for Acenaphthene and Fluorene were unattainable. This was because the sample had extremely low Total Solids. For sample L0004054-14 we were unable to achieve required detection limits for Acenaphthene, Fluorene, Anthracene, Acenaphthylene, and Di benzo (a,h) anthracene.

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0004054-01 Date Collected: 02-NOV-1999
 T-14-7 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	34.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	120	1	7196A	25-May	JT
Total Metals				1	3051		
Aluminum, Total	9700	mg/kg	12.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	5.8	1	6010B	25-May 26-May	TT
Arsenic, Total	11.	mg/kg	1.2	1	6010B	25-May 26-May	TT
Barium, Total	150	mg/kg	1.2	1	6010B	25-May 26-May	TT
Beryllium, Total	0.91	mg/kg	0.12	1	6010B	25-May 26-May	TT
Cadmium, Total	2.1	mg/kg	1.2	1	6010B	25-May 26-May	TT
Calcium, Total	3100	mg/kg	58.	1	6010B	25-May 26-May	LP
Chromium, Total	73.	mg/kg	1.2	1	6010B	25-May 26-May	TT
Cobalt, Total	13.	mg/kg	2.3	1	6010B	25-May 26-May	TT
Copper, Total	86.	mg/kg	1.2	1	6010B	25-May 26-May	TT
Iron, Total	12000	mg/kg	5.8	1	6010B	25-May 26-May	TT
Lead, Total	330	mg/kg	5.8	1	6010B	25-May 26-May	TT
Magnesium, Total	1900	mg/kg	12.	1	6010B	25-May 26-May	LP
Manganese, Total	1500	mg/kg	1.2	1	6010B	25-May 26-May	TT
Mercury, Total	2.4	mg/kg	0.74	1	7471A	30-May 31-May	DM
Nickel, Total	18.	mg/kg	2.9	1	6010B	25-May 26-May	TT
Potassium, Total	600	mg/kg	290	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	2.3	1	6010B	25-May 26-May	TT
Silver, Total	ND	mg/kg	1.2	1	6010B	25-May 26-May	TT
Sodium, Total	200	mg/kg	58.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	2.3	1	6010B	25-May 26-May	TT
Tin, Total	15.	mg/kg	5.8	1	6010B	25-May 26-May	LP
Vanadium, Total	40.	mg/kg	1.2	1	6010B	25-May 26-May	LP
Zinc, Total	120	mg/kg	5.8	1	6010B	25-May 26-May	TT
PAH by GC/MS SIM 8270M				1	8270C-M	31-May 01-Jun	MK
Acenaphthene	ND	ug/kg	20.				
2-Chloronaphthalene	ND	ug/kg	20.				
Fluoranthene	360	ug/kg	20.				
Naphthalene	ND	ug/kg	20.				
Benzo(a)anthracene	150	ug/kg	20.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-01
T-14-7

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	31-May 01-Jun	MK
Benzo(a)pyrene	190	ug/kg	20.				
Benzo(b)fluoranthene	190	ug/kg	20.				
Benzo(k)fluoranthene	190	ug/kg	20.				
Chrysene	240	ug/kg	20.				
Acenaphthylene	55.	ug/kg	20.				
Anthracene	34.	ug/kg	20.				
Benzo(ghi)perylene	140	ug/kg	20.				
Fluorene	ND	ug/kg	20.				
Phenanthrene	160	ug/kg	20.				
Di benzo(a, h)anthracene	37.	ug/kg	20.				
Indeno(1, 2, 3-cd)Pyrene	160	ug/kg	20.				
Pyrene	350	ug/kg	20.				
1-Methylnaphthalene	ND	ug/kg	20.				
2-Methylnaphthalene	ND	ug/kg	20.				
Perylene	42.	ug/kg	20.				
Biphenyl	ND	ug/kg	20.				
2, 6-Dimethylnaphthalene	ND	ug/kg	20.				
1-Methylphenanthrene	39.	ug/kg	20.				
Benzo(e)Pyrene	170	ug/kg	20.				
Surrogate Recovery							
Nitrobenzene-d5	75.0	%					
2-Fluorobiphenyl	53.0	%					
4-Terphenyl -d14	45.0	%					
Polychlorinated Biphenyls				1	8082	25-May 30-May	PB
Aroclor 1221	ND	ug/kg	735.				
Aroclor 1232	ND	ug/kg	735.				
Aroclor 1242/1016	ND	ug/kg	735.				
Aroclor 1248	ND	ug/kg	735.				
Aroclor 1254	1500	ug/kg	735.				
Aroclor 1260	ND	ug/kg	735.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	94.0	%					
Decachlorobiphenyl	74.0	%					

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: L0004054-02 Date Collected: 01-NOV-1999
T-14-C Date Received: 24-MAY-2000
Sample Matrix: SOIL Date Reported: 02-JUN-00
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	34.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	120	1	7196A	25-May	JT
Total Metals				1	3051		
Aluminum, Total	12000	mg/kg	12.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	5.8	1	6010B	25-May 26-May	TT
Arsenic, Total	17.	mg/kg	1.2	1	6010B	25-May 26-May	TT
Barium, Total	180	mg/kg	1.2	1	6010B	25-May 26-May	TT
Beryllium, Total	1.1	mg/kg	0.12	1	6010B	25-May 26-May	TT
Cadmium, Total	2.3	mg/kg	1.2	1	6010B	25-May 26-May	TT
Calcium, Total	1800	mg/kg	58.	1	6010B	25-May 26-May	LP
Chromium, Total	140	mg/kg	1.2	1	6010B	25-May 26-May	TT
Cobalt, Total	9.3	mg/kg	2.3	1	6010B	25-May 26-May	TT
Copper, Total	150	mg/kg	1.2	1	6010B	25-May 26-May	TT
Iron, Total	13000	mg/kg	5.8	1	6010B	25-May 26-May	TT
Lead, Total	500	mg/kg	5.8	1	6010B	25-May 26-May	TT
Magnesium, Total	2200	mg/kg	12.	1	6010B	25-May 26-May	LP
Manganese, Total	730	mg/kg	1.2	1	6010B	25-May 26-May	TT
Mercury, Total	4.4	mg/kg	0.74	1	7471A	30-May 31-May	DM
Nickel, Total	21.	mg/kg	2.9	1	6010B	25-May 26-May	TT
Potassium, Total	550	mg/kg	290	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	2.3	1	6010B	25-May 26-May	TT
Silver, Total	3.1	mg/kg	1.2	1	6010B	25-May 26-May	TT
Sodium, Total	220	mg/kg	58.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	2.3	1	6010B	25-May 26-May	TT
Tin, Total	18.	mg/kg	5.8	1	6010B	25-May 26-May	LP
Vanadium, Total	46.	mg/kg	1.2	1	6010B	25-May 26-May	LP
Zinc, Total	130	mg/kg	5.8	1	6010B	25-May 26-May	TT
PAH by GC/MS SIM 8270M				1	8270C-M	31-May 01-Jun	MK
Acenaphthene	ND	ug/kg	20.				
2-Chloronaphthalene	ND	ug/kg	20.				
Fluoranthene	380	ug/kg	20.				
Naphthalene	ND	ug/kg	20.				
Benzo(a)anthracene	170	ug/kg	20.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-02
T-14-C

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	31-May 01-Jun	MK
Benzo(a)pyrene	200	ug/kg	20.				
Benzo(b)fluoranthene	180	ug/kg	20.				
Benzo(k)fluoranthene	190	ug/kg	20.				
Chrysene	250	ug/kg	20.				
Acenaphthylene	59.	ug/kg	20.				
Anthracene	37.	ug/kg	20.				
Benzo(ghi)perylene	140	ug/kg	20.				
Fluorene	ND	ug/kg	20.				
Phenanthrene	180	ug/kg	20.				
Di benzo(a, h)anthracene	37.	ug/kg	20.				
Indeno(1, 2, 3-cd)Pyrene	150	ug/kg	20.				
Pyrene	370	ug/kg	20.				
1-Methylnaphthalene	ND	ug/kg	20.				
2-Methylnaphthalene	ND	ug/kg	20.				
Perylene	45.	ug/kg	20.				
Biphenyl	ND	ug/kg	20.				
2, 6-Dimethylnaphthalene	ND	ug/kg	20.				
1-Methylphenanthrene	48.	ug/kg	20.				
Benzo(e)Pyrene	160	ug/kg	20.				
Surrogate Recovery							
Nitrobenzene-d5	91.0	%					
2-Fluorobiphenyl	46.0	%					
4-Terphenyl -d14	44.0	%					
Polychlorinated Biphenyls				1	8082	25-May 30-May	PB
Aroclor 1221	ND	ug/kg	3680				
Aroclor 1232	ND	ug/kg	3680				
Aroclor 1242/1016	ND	ug/kg	3680				
Aroclor 1248	ND	ug/kg	3680				
Aroclor 1254	5700	ug/kg	3680				
Aroclor 1260	ND	ug/kg	3680				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	91.0	%					
Decachlorobiphenyl	82.0	%					

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: L0004054-03 Date Collected: 02-NOV-1999
 T-14-6 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	24.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	160	1	7196A	25-May	JT
Total Metals				1	3051		
Aluminum, Total	9900	mg/kg	16.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	8.2	1	6010B	25-May 26-May	TT
Arsenic, Total	11.	mg/kg	1.6	1	6010B	25-May 26-May	TT
Barium, Total	170	mg/kg	1.6	1	6010B	25-May 26-May	TT
Beryllium, Total	0.98	mg/kg	0.16	1	6010B	25-May 26-May	TT
Cadmium, Total	8.3	mg/kg	1.6	1	6010B	25-May 26-May	TT
Calcium, Total	3100	mg/kg	82.	1	6010B	25-May 26-May	LP
Chromium, Total	180	mg/kg	1.6	1	6010B	25-May 26-May	TT
Cobalt, Total	12.	mg/kg	3.3	1	6010B	25-May 26-May	TT
Copper, Total	330	mg/kg	1.6	1	6010B	25-May 26-May	TT
Iron, Total	8700	mg/kg	8.2	1	6010B	25-May 26-May	TT
Lead, Total	290	mg/kg	8.2	1	6010B	25-May 26-May	TT
Magnesium, Total	1700	mg/kg	16.	1	6010B	25-May 26-May	LP
Manganese, Total	510	mg/kg	1.6	1	6010B	25-May 26-May	TT
Mercury, Total	2.6	mg/kg	1.0	1	7471A	30-May 31-May	DM
Nickel, Total	27.	mg/kg	4.1	1	6010B	25-May 26-May	TT
Potassium, Total	ND	mg/kg	410	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	3.3	1	6010B	25-May 26-May	TT
Silver, Total	20.	mg/kg	1.6	1	6010B	25-May 26-May	TT
Sodium, Total	320	mg/kg	82.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	3.3	1	6010B	25-May 26-May	TT
Tin, Total	32.	mg/kg	8.2	1	6010B	25-May 26-May	LP
Vanadium, Total	30.	mg/kg	1.6	1	6010B	25-May 26-May	LP
Zinc, Total	220	mg/kg	8.2	1	6010B	25-May 26-May	TT
Polychlorinated Biphenyls				1	8082	26-May 31-May	PB
Aroclor 1221	ND	ug/kg	521.				
Aroclor 1232	ND	ug/kg	521.				
Aroclor 1242/1016	ND	ug/kg	521.				
Aroclor 1248	ND	ug/kg	521.				
Aroclor 1254	2790	ug/kg	521.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-03
T-14-6

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	26-May 31-May	PB
Aroclor 1260	ND	ug/kg	521.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	99.0	%					
Decachlorobiphenyl	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: L0004054-04 Date Collected: 02-NOV-1999
 T-13-8 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	28.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	140	1	7196A	25-May	JT
Total Metals				1	3051		
Aluminum, Total	8300	mg/kg	14.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	7.0	1	6010B	25-May 26-May	TT
Arsenic, Total	4.1	mg/kg	1.4	1	6010B	25-May 26-May	TT
Barium, Total	66.	mg/kg	1.4	1	6010B	25-May 26-May	TT
Beryllium, Total	0.73	mg/kg	0.14	1	6010B	25-May 26-May	TT
Cadmium, Total	2.2	mg/kg	1.4	1	6010B	25-May 26-May	TT
Calcium, Total	2700	mg/kg	70.	1	6010B	25-May 26-May	LP
Chromium, Total	59.	mg/kg	1.4	1	6010B	25-May 26-May	TT
Cobalt, Total	4.3	mg/kg	2.8	1	6010B	25-May 26-May	TT
Copper, Total	68.	mg/kg	1.4	1	6010B	25-May 26-May	TT
Iron, Total	6300	mg/kg	7.0	1	6010B	25-May 26-May	TT
Lead, Total	240	mg/kg	7.0	1	6010B	25-May 26-May	TT
Magnesium, Total	1300	mg/kg	14.	1	6010B	25-May 26-May	LP
Manganese, Total	420	mg/kg	1.4	1	6010B	25-May 26-May	TT
Mercury, Total	2.7	mg/kg	0.89	1	7471A	30-May 31-May	DM
Nickel, Total	14.	mg/kg	3.5	1	6010B	25-May 26-May	TT
Potassium, Total	380	mg/kg	350	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	2.8	1	6010B	25-May 26-May	TT
Silver, Total	ND	mg/kg	1.4	1	6010B	25-May 26-May	TT
Sodium, Total	250	mg/kg	70.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	2.8	1	6010B	25-May 26-May	TT
Tin, Total	8.8	mg/kg	7.0	1	6010B	25-May 30-May	LP
Vanadium, Total	25.	mg/kg	1.4	1	6010B	25-May 26-May	LP
Zinc, Total	89.	mg/kg	7.0	1	6010B	25-May 26-May	TT
Polychlorinated Biphenyls				1	8082	26-May 31-May	PB
Aroclor 1221	ND	ug/kg	446.				
Aroclor 1232	ND	ug/kg	446.				
Aroclor 1242/1016	ND	ug/kg	446.				
Aroclor 1248	ND	ug/kg	446.				
Aroclor 1254	3410	ug/kg	446.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-04
T-13-8

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	26-May 31-May	PB
Aroclor 1260	ND	ug/kg	446.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	102.	%					
Decachlorobiphenyl	77.0	%					

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: L0004054-05 Date Collected: 01-NOV-1999
 T-12-5 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	23.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	170	1	7196A	25-May	JT
Total Metals				1	3051		
Aluminum, Total	7500	mg/kg	17.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	8.6	1	6010B	25-May 26-May	TT
Arsenic, Total	7.0	mg/kg	1.7	1	6010B	25-May 26-May	TT
Barium, Total	86.	mg/kg	1.7	1	6010B	25-May 26-May	TT
Beryllium, Total	0.75	mg/kg	0.17	1	6010B	25-May 26-May	TT
Cadmium, Total	2.3	mg/kg	1.7	1	6010B	25-May 26-May	TT
Calcium, Total	2500	mg/kg	86.	1	6010B	25-May 26-May	LP
Chromium, Total	68.	mg/kg	1.7	1	6010B	25-May 26-May	TT
Cobalt, Total	5.9	mg/kg	3.4	1	6010B	25-May 26-May	TT
Copper, Total	120	mg/kg	1.7	1	6010B	25-May 26-May	TT
Iron, Total	5900	mg/kg	8.6	1	6010B	25-May 26-May	TT
Lead, Total	250	mg/kg	8.6	1	6010B	25-May 26-May	TT
Magnesium, Total	1100	mg/kg	17.	1	6010B	25-May 26-May	LP
Manganese, Total	560	mg/kg	1.7	1	6010B	25-May 26-May	TT
Mercury, Total	1.7	mg/kg	1.1	1	7471A	30-May 31-May	DM
Nickel, Total	15.	mg/kg	4.3	1	6010B	25-May 26-May	TT
Potassium, Total	ND	mg/kg	430	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	3.4	1	6010B	25-May 26-May	TT
Silver, Total	2.2	mg/kg	1.7	1	6010B	25-May 26-May	TT
Sodium, Total	280	mg/kg	86.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	3.4	1	6010B	25-May 26-May	TT
Tin, Total	11.	mg/kg	8.6	1	6010B	25-May 30-May	LP
Vanadium, Total	26.	mg/kg	1.7	1	6010B	25-May 26-May	LP
Zinc, Total	100	mg/kg	8.6	1	6010B	25-May 26-May	TT
Polychlorinated Biphenyls				1	8082	26-May 31-May	PB
Aroclor 1221	ND	ug/kg	543.				
Aroclor 1232	ND	ug/kg	543.				
Aroclor 1242/1016	ND	ug/kg	543.				
Aroclor 1248	ND	ug/kg	543.				
Aroclor 1254	3520	ug/kg	543.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-05
T-12-5

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	26-May 31-May	PB
Aroclor 1260	ND	ug/kg	543.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	101.	%					
Decachlorobiphenyl	81.0	%					

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: L0004054-06 Date Collected: 29-OCT-1999
 T-10-8 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	13.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	300	1	7196A	25-May	JT
Total Metals				1	3051		
Aluminum, Total	6900	mg/kg	30.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	15.	1	6010B	25-May 26-May	TT
Arsenic, Total	16.	mg/kg	3.0	1	6010B	25-May 26-May	TT
Barium, Total	99.	mg/kg	3.0	1	6010B	25-May 26-May	TT
Beryllium, Total	ND	mg/kg	0.31	1	6010B	25-May 26-May	TT
Cadmium, Total	4.5	mg/kg	3.0	1	6010B	25-May 26-May	TT
Calcium, Total	4900	mg/kg	150	1	6010B	25-May 26-May	LP
Chromium, Total	960	mg/kg	3.0	1	6010B	25-May 26-May	TT
Cobalt, Total	ND	mg/kg	6.1	1	6010B	25-May 26-May	TT
Copper, Total	1300	mg/kg	3.0	1	6010B	25-May 26-May	TT
Iron, Total	3800	mg/kg	15.	1	6010B	25-May 26-May	TT
Lead, Total	360	mg/kg	15.	1	6010B	25-May 26-May	TT
Magnesium, Total	1000	mg/kg	30.	1	6010B	25-May 26-May	LP
Manganese, Total	170	mg/kg	3.0	1	6010B	25-May 26-May	TT
Mercury, Total	1.9	mg/kg	1.9	1	7471A	30-May 31-May	DM
Nickel, Total	22.	mg/kg	7.6	1	6010B	25-May 26-May	TT
Potassium, Total	ND	mg/kg	760	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	6.1	1	6010B	25-May 26-May	TT
Silver, Total	48.	mg/kg	3.0	1	6010B	25-May 26-May	TT
Sodium, Total	360	mg/kg	150	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	6.1	1	6010B	25-May 26-May	TT
Tin, Total	110	mg/kg	15.	1	6010B	25-May 30-May	LP
Vanadium, Total	54.	mg/kg	3.0	1	6010B	25-May 26-May	LP
Zinc, Total	410	mg/kg	15.	1	6010B	25-May 26-May	TT
Polychlorinated Biphenyls				1	8082	26-May 31-May	PB
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.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-06
T-10-8

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	26-May 31-May	PB
Aroclor 1260	3110	ug/kg	962.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	96.0	%					
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: L0004054-07	Date Collected: 29-OCT-1999
	Date Received : 24-MAY-2000
Sample Matrix: T-5-12 SOIL	Date Reported : 02-JUN-00
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Amber	

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	30.	%	0.10	30	2540G		26-May LC
PAH by GC/MS SIM 8270M				1	8270C-M		31-May 01-Jun MK
Acenaphthene	ND	ug/kg	44.				
2-Chloronaphthalene	ND	ug/kg	44.				
Fluoranthene	200	ug/kg	44.				
Naphthalene	ND	ug/kg	44.				
Benzo(a)anthracene	91.	ug/kg	44.				
Benzo(a)pyrene	110	ug/kg	44.				
Benzo(b)fluoranthene	140	ug/kg	44.				
Benzo(k)fluoranthene	110	ug/kg	44.				
Chrysene	150	ug/kg	44.				
Acenaphthylene	ND	ug/kg	44.				
Anthracene	ND	ug/kg	44.				
Benzo(ghi)perylene	99.	ug/kg	44.				
Fluorene	ND	ug/kg	44.				
Phenanthrene	96.	ug/kg	44.				
Di benzo(a, h)anthracene	ND	ug/kg	44.				
Indeno(1, 2, 3-cd)Pyrene	110	ug/kg	44.				
Pyrene	200	ug/kg	44.				
1-Methylnaphthalene	ND	ug/kg	44.				
2-Methylnaphthalene	ND	ug/kg	44.				
Perylene	ND	ug/kg	44.				
Biphenyl	ND	ug/kg	44.				
2, 6-Dimethylnaphthalene	ND	ug/kg	44.				
1-Methylphenanthrene	ND	ug/kg	44.				
Benzo(e)Pyrene	120	ug/kg	44.				
Surrogate Recovery							
Nitrobenzene-d5	84.0	%					
2-Fluorobiphenyl	43.0	%					
4-Terphenyl -d14	41.0	%					

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: L0004054-08 Date Collected: 29-OCT-1999
 T-10-7 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	18.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	220	1	7196A	25-May	JT
Total Metals				1	3051		
Aluminum, Total	7000	mg/kg	22.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	11.	1	6010B	25-May 26-May	TT
Arsenic, Total	6.5	mg/kg	2.2	1	6010B	25-May 26-May	TT
Barium, Total	74.	mg/kg	2.2	1	6010B	25-May 26-May	TT
Beryllium, Total	ND	mg/kg	0.22	1	6010B	25-May 26-May	TT
Cadmium, Total	4.8	mg/kg	2.2	1	6010B	25-May 26-May	TT
Calcium, Total	4100	mg/kg	110	1	6010B	25-May 26-May	LP
Chromium, Total	310	mg/kg	2.2	1	6010B	25-May 26-May	TT
Cobalt, Total	ND	mg/kg	4.4	1	6010B	25-May 26-May	TT
Copper, Total	330	mg/kg	2.2	1	6010B	25-May 26-May	TT
Iron, Total	3400	mg/kg	11.	1	6010B	25-May 26-May	TT
Lead, Total	220	mg/kg	11.	1	6010B	25-May 26-May	TT
Magnesium, Total	820	mg/kg	22.	1	6010B	25-May 26-May	LP
Manganese, Total	150	mg/kg	2.2	1	6010B	25-May 26-May	TT
Mercury, Total	2.2	mg/kg	1.4	1	7471A	30-May 31-May	DM
Nickel, Total	18.	mg/kg	5.5	1	6010B	25-May 26-May	TT
Potassium, Total	ND	mg/kg	550	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	4.4	1	6010B	25-May 26-May	TT
Silver, Total	14.	mg/kg	2.2	1	6010B	25-May 26-May	TT
Sodium, Total	300	mg/kg	110	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	4.4	1	6010B	25-May 26-May	TT
Tin, Total	38.	mg/kg	11.	1	6010B	25-May 30-May	LP
Vanadium, Total	29.	mg/kg	2.2	1	6010B	25-May 26-May	LP
Zinc, Total	120	mg/kg	11.	1	6010B	25-May 26-May	TT
PAH by GC/MS SIM 8270M				1	8270C-M	31-May 01-Jun	MK
Acenaphthene	ND	ug/kg	37.				
2-Chloronaphthalene	ND	ug/kg	37.				
Fluoranthene	110	ug/kg	37.				
Naphthalene	ND	ug/kg	37.				
Benzo(a)anthracene	49.	ug/kg	37.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-08
T-10-7

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	31-May 01-Jun	MK
Benzo(a)pyrene	60.	ug/kg	37.				
Benzo(b)fluoranthene	73.	ug/kg	37.				
Benzo(k)fluoranthene	64.	ug/kg	37.				
Chrysene	94.	ug/kg	37.				
Acenaphthylene	ND	ug/kg	37.				
Anthracene	ND	ug/kg	37.				
Benzo(ghi)perylene	50.	ug/kg	37.				
Fluorene	ND	ug/kg	37.				
Phenanthrene	58.	ug/kg	37.				
Di benzo(a, h)anthracene	ND	ug/kg	37.				
Indeno(1, 2, 3-cd)Pyrene	57.	ug/kg	37.				
Pyrene	120	ug/kg	37.				
1-Methylnaphthalene	ND	ug/kg	37.				
2-Methylnaphthalene	ND	ug/kg	37.				
Perylene	60.	ug/kg	37.				
Biphenyl	ND	ug/kg	37.				
2, 6-Dimethylnaphthalene	ND	ug/kg	37.				
1-Methylphenanthrene	ND	ug/kg	37.				
Benzo(e)Pyrene	65.	ug/kg	37.				
Surrogate Recovery							
Nitrobenzene-d5	68.0	%					
2-Fluorobiphenyl	45.0	%					
4-Terphenyl -d14	39.0	%					
Polychlorinated Biphenyls				1	8082	25-May 30-May	PB
Aroclor 1221	ND	ug/kg	1390				
Aroclor 1232	ND	ug/kg	1390				
Aroclor 1242/1016	ND	ug/kg	1390				
Aroclor 1248	ND	ug/kg	1390				
Aroclor 1254	3370	ug/kg	1390				
Aroclor 1260	ND	ug/kg	1390				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	95.0	%					
Decachlorobiphenyl	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: L0004054-09 Date Collected: 29-OCT-1999
 T-9-6 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	20.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	200	1	7196A	25-May	JT
Total Metals				1	3051		
Aluminum, Total	6600	mg/kg	20.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	9.9	1	6010B	25-May 26-May	TT
Arsenic, Total	9.1	mg/kg	2.0	1	6010B	25-May 26-May	TT
Barium, Total	38.	mg/kg	2.0	1	6010B	25-May 26-May	TT
Beryllium, Total	ND	mg/kg	0.20	1	6010B	25-May 26-May	TT
Cadmium, Total	ND	mg/kg	2.0	1	6010B	25-May 26-May	TT
Calcium, Total	2800	mg/kg	99.	1	6010B	25-May 26-May	LP
Chromium, Total	91.	mg/kg	2.0	1	6010B	25-May 26-May	TT
Cobalt, Total	ND	mg/kg	4.0	1	6010B	25-May 26-May	TT
Copper, Total	190	mg/kg	2.0	1	6010B	25-May 26-May	TT
Iron, Total	4300	mg/kg	9.9	1	6010B	25-May 26-May	TT
Lead, Total	400	mg/kg	9.9	1	6010B	25-May 26-May	TT
Magnesium, Total	680	mg/kg	20.	1	6010B	25-May 26-May	LP
Manganese, Total	100	mg/kg	2.0	1	6010B	25-May 26-May	TT
Mercury, Total	1.8	mg/kg	1.2	1	7471A	30-May 31-May	DM
Nickel, Total	14.	mg/kg	4.9	1	6010B	25-May 26-May	TT
Potassium, Total	ND	mg/kg	490	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	4.0	1	6010B	25-May 26-May	TT
Silver, Total	4.7	mg/kg	2.0	1	6010B	25-May 26-May	TT
Sodium, Total	280	mg/kg	99.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	4.0	1	6010B	25-May 26-May	TT
Tin, Total	13.	mg/kg	9.9	1	6010B	25-May 30-May	LP
Vanadium, Total	31.	mg/kg	2.0	1	6010B	25-May 26-May	LP
Zinc, Total	72.	mg/kg	9.9	1	6010B	25-May 26-May	TT
PAH by GC/MS SIM 8270M				1	8270C-M	31-May 01-Jun	MK
Acenaphthene	ND	ug/kg	33.				
2-Chloronaphthalene	ND	ug/kg	33.				
Fluoranthene	180	ug/kg	33.				
Naphthalene	ND	ug/kg	33.				
Benzo(a)anthracene	79.	ug/kg	33.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-09
T-9-6

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	31-May 01-Jun	MK
Benzo(a)pyrene	95.	ug/kg	33.				
Benzo(b)fluoranthene	100	ug/kg	33.				
Benzo(k)fluoranthene	96.	ug/kg	33.				
Chrysene	130	ug/kg	33.				
Acenaphthylene	ND	ug/kg	33.				
Anthracene	ND	ug/kg	33.				
Benzo(ghi)perylene	72.	ug/kg	33.				
Fluorene	ND	ug/kg	33.				
Phenanthrene	97.	ug/kg	33.				
Di benzo(a, h)anthracene	ND	ug/kg	33.				
Indeno(1, 2, 3-cd)Pyrene	84.	ug/kg	33.				
Pyrene	180	ug/kg	33.				
1-Methylnaphthalene	ND	ug/kg	33.				
2-Methylnaphthalene	ND	ug/kg	33.				
Perylene	ND	ug/kg	33.				
Biphenyl	ND	ug/kg	33.				
2, 6-Dimethylnaphthalene	ND	ug/kg	33.				
1-Methylphenanthrene	ND	ug/kg	33.				
Benzo(e)Pyrene	87.	ug/kg	33.				
Surrogate Recovery							
Nitrobenzene-d5	79.0	%					
2-Fluorobiphenyl	54.0	%					
4-Terphenyl -d14	45.0	%					
Polychlorinated Biphenyls				1	8082	25-May 30-May	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	2520	ug/kg	1250				
Aroclor 1260	ND	ug/kg	1250				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	102.	%					
Decachlorobiphenyl	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: L0004054-10 Date Collected: 29-OCT-1999
T-10-9 Date Received: 24-MAY-2000
Sample Matrix: SOIL Date Reported: 02-JUN-00
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	14.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	280	1	7196A	25-May	JT
Total Metals				1	3051		
Aluminum, Total	7000	mg/kg	28.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	14.	1	6010B	25-May 26-May	TT
Arsenic, Total	12.	mg/kg	2.8	1	6010B	25-May 26-May	TT
Barium, Total	110	mg/kg	2.8	1	6010B	25-May 26-May	TT
Beryllium, Total	0.68	mg/kg	0.29	1	6010B	25-May 26-May	TT
Cadmium, Total	3.4	mg/kg	2.8	1	6010B	25-May 26-May	TT
Calcium, Total	5000	mg/kg	140	1	6010B	25-May 26-May	LP
Chromium, Total	970	mg/kg	2.8	1	6010B	25-May 26-May	TT
Cobalt, Total	ND	mg/kg	5.6	1	6010B	25-May 26-May	TT
Copper, Total	2200	mg/kg	2.8	1	6010B	25-May 26-May	TT
Iron, Total	4300	mg/kg	14.	1	6010B	25-May 26-May	TT
Lead, Total	280	mg/kg	14.	1	6010B	25-May 26-May	TT
Magnesium, Total	1200	mg/kg	28.	1	6010B	25-May 26-May	LP
Manganese, Total	220	mg/kg	2.8	1	6010B	25-May 26-May	TT
Mercury, Total	3.1	mg/kg	1.8	1	7471A	30-May 31-May	DM
Nickel, Total	23.	mg/kg	7.0	1	6010B	25-May 26-May	TT
Potassium, Total	ND	mg/kg	700	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	5.6	1	6010B	25-May 26-May	TT
Silver, Total	64.	mg/kg	2.8	1	6010B	25-May 26-May	TT
Sodium, Total	310	mg/kg	140	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	5.6	1	6010B	25-May 26-May	TT
Tin, Total	130	mg/kg	14.	1	6010B	25-May 30-May	LP
Vanadium, Total	64.	mg/kg	2.8	1	6010B	25-May 26-May	LP
Zinc, Total	240	mg/kg	14.	1	6010B	25-May 26-May	TT
Polychlorinated Biphenyls				1	8082	26-May 31-May	PB
Aroclor 1221	ND	ug/kg	893.				
Aroclor 1232	ND	ug/kg	893.				
Aroclor 1242/1016	ND	ug/kg	893.				
Aroclor 1248	ND	ug/kg	893.				
Aroclor 1254	2480	ug/kg	893.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-10
T-10-9

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	26-May 31-May	PB
Aroclor 1260	5980	ug/kg	893.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	100.	%					
Decachlorobiphenyl	74.0	%					

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: L0004054-11 Date Collected: 29-OCT-1999
 T-2-F Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	68.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	57.	1	7196A	25-May	JT
Total Metals				1	3051		
Aluminum, Total	4200	mg/kg	5.8	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	2.9	1	6010B	25-May 26-May	TT
Arsenic, Total	3.0	mg/kg	0.58	1	6010B	25-May 26-May	TT
Barium, Total	36.	mg/kg	0.58	1	6010B	25-May 26-May	TT
Beryllium, Total	0.37	mg/kg	0.06	1	6010B	25-May 26-May	TT
Cadmium, Total	ND	mg/kg	0.58	1	6010B	25-May 26-May	TT
Calcium, Total	3000	mg/kg	29.	1	6010B	25-May 26-May	LP
Chromium, Total	25.	mg/kg	0.58	1	6010B	25-May 26-May	TT
Cobalt, Total	4.6	mg/kg	1.2	1	6010B	25-May 26-May	TT
Copper, Total	46.	mg/kg	0.58	1	6010B	25-May 26-May	TT
Iron, Total	6600	mg/kg	2.9	1	6010B	25-May 26-May	TT
Lead, Total	34.	mg/kg	2.9	1	6010B	25-May 26-May	TT
Magnesium, Total	1800	mg/kg	5.8	1	6010B	25-May 26-May	LP
Manganese, Total	200	mg/kg	0.58	1	6010B	25-May 26-May	TT
Mercury, Total	ND	mg/kg	0.37	1	7471A	30-May 31-May	DM
Nickel, Total	11.	mg/kg	1.4	1	6010B	25-May 26-May	TT
Potassium, Total	500	mg/kg	140	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	1.2	1	6010B	25-May 26-May	TT
Silver, Total	1.3	mg/kg	0.58	1	6010B	25-May 26-May	TT
Sodium, Total	ND	mg/kg	29.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	1.2	1	6010B	25-May 26-May	TT
Tin, Total	ND	mg/kg	2.9	1	6010B	25-May 30-May	LP
Vanadium, Total	16.	mg/kg	0.58	1	6010B	25-May 26-May	LP
Zinc, Total	39.	mg/kg	2.9	1	6010B	25-May 26-May	TT
PAH by GC/MS SIM 8270M				1	8270C-M	31-May 01-Jun	MK
Acenaphthene	ND	ug/kg	20.				
2-Chloronaphthalene	ND	ug/kg	20.				
Fluoranthene	720	ug/kg	20.				
Naphthalene	ND	ug/kg	20.				
Benzo(a)anthracene	380	ug/kg	20.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-11
T-2-F

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	31-May 01-Jun	MK
Benzo(a)pyrene	370	ug/kg	20.				
Benzo(b)fluoranthene	430	ug/kg	20.				
Benzo(k)fluoranthene	430	ug/kg	20.				
Chrysene	460	ug/kg	20.				
Acenaphthylene	92.	ug/kg	20.				
Anthracene	63.	ug/kg	20.				
Benzo(ghi)perylene	250	ug/kg	20.				
Fluorene	ND	ug/kg	20.				
Phenanthrene	93.	ug/kg	20.				
Di benzo(a, h)anthracene	74.	ug/kg	20.				
Indeno(1, 2, 3-cd)Pyrene	320	ug/kg	20.				
Pyrene	700	ug/kg	20.				
1-Methylnaphthalene	ND	ug/kg	20.				
2-Methylnaphthalene	ND	ug/kg	20.				
Perylene	92.	ug/kg	20.				
Biphenyl	ND	ug/kg	20.				
2, 6-Dimethylnaphthalene	ND	ug/kg	20.				
1-Methylphenanthrene	23.	ug/kg	20.				
Benzo(e)Pyrene	340	ug/kg	20.				
Surrogate Recovery							
Nitrobenzene-d5	61.0	%					
2-Fluorobiphenyl	57.0	%					
4-Terphenyl -d14	60.0	%					
Polychlorinated Biphenyls				1	8082	25-May 30-May	PB
Aroclor 1221	ND	ug/kg	184.				
Aroclor 1232	ND	ug/kg	184.				
Aroclor 1242/1016	ND	ug/kg	184.				
Aroclor 1248	ND	ug/kg	184.				
Aroclor 1254	ND	ug/kg	184.				
Aroclor 1260	ND	ug/kg	184.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	96.0	%					
Decachlorobiphenyl	69.0	%					

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: L0004054-12 Date Collected: 29-OCT-1999
 T-3-11 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	37.	%	0.10	30	2540G		26-May LC
PAH by GC/MS SIM 8270M				1	8270C-M	31-May	02-Jun MK
Acenaphthene	ND	ug/kg	36.				
2-Chloronaphthalene	ND	ug/kg	36.				
Fluoranthene	1700	ug/kg	36.				
Naphthalene	ND	ug/kg	36.				
Benzo(a)anthracene	690	ug/kg	36.				
Benzo(a)pyrene	1100	ug/kg	36.				
Benzo(b)fluoranthene	1300	ug/kg	36.				
Benzo(k)fluoranthene	980	ug/kg	36.				
Chrysene	1200	ug/kg	36.				
Acenaphthylene	74.	ug/kg	36.				
Anthracene	100	ug/kg	36.				
Benzo(ghi)perylene	1000	ug/kg	36.				
Fluorene	ND	ug/kg	36.				
Phenanthrene	480	ug/kg	36.				
Di benzo(a, h)anthracene	200	ug/kg	36.				
Indeno(1, 2, 3-cd)Pyrene	1200	ug/kg	36.				
Pyrene	1400	ug/kg	36.				
1-Methylnaphthalene	ND	ug/kg	36.				
2-Methylnaphthalene	ND	ug/kg	36.				
Perylene	270	ug/kg	36.				
Biphenyl	ND	ug/kg	36.				
2, 6-Dimethylnaphthalene	ND	ug/kg	36.				
1-Methylphenanthrene	51.	ug/kg	36.				
Benzo(e)Pyrene	1100	ug/kg	36.				
Surrogate Recovery							
Nitrobenzene-d5	68.0	%					
2-Fluorobiphenyl	42.0	%					
4-Terphenyl -d14	47.0	%					

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: L0004054-13 Date Collected: 29-OCT-1999
 T-9-7 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	18.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	220	1	7196A	25-May	JT
Total Metals				1	3051		
Aluminum, Total	5400	mg/kg	22.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	11.	1	6010B	25-May 26-May	TT
Arsenic, Total	6.9	mg/kg	2.2	1	6010B	25-May 26-May	TT
Barium, Total	46.	mg/kg	2.2	1	6010B	25-May 26-May	TT
Beryllium, Total	0.64	mg/kg	0.22	1	6010B	25-May 26-May	TT
Cadmium, Total	4.0	mg/kg	2.2	1	6010B	25-May 26-May	TT
Calcium, Total	3900	mg/kg	110	1	6010B	25-May 26-May	LP
Chromium, Total	200	mg/kg	2.2	1	6010B	25-May 26-May	TT
Cobalt, Total	ND	mg/kg	4.4	1	6010B	25-May 26-May	TT
Copper, Total	250	mg/kg	2.2	1	6010B	25-May 26-May	TT
Iron, Total	4600	mg/kg	11.	1	6010B	25-May 26-May	TT
Lead, Total	180	mg/kg	11.	1	6010B	25-May 26-May	TT
Magnesium, Total	680	mg/kg	22.	1	6010B	25-May 26-May	LP
Manganese, Total	230	mg/kg	2.2	1	6010B	25-May 26-May	TT
Mercury, Total	1.7	mg/kg	1.4	1	7471A	30-May 31-May	DM
Nickel, Total	14.	mg/kg	5.5	1	6010B	25-May 26-May	TT
Potassium, Total	ND	mg/kg	550	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	4.4	1	6010B	25-May 26-May	TT
Silver, Total	7.7	mg/kg	2.2	1	6010B	25-May 26-May	TT
Sodium, Total	290	mg/kg	110	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	4.4	1	6010B	25-May 26-May	TT
Tin, Total	24.	mg/kg	11.	1	6010B	25-May 30-May	LP
Vanadium, Total	28.	mg/kg	2.2	1	6010B	25-May 26-May	LP
Zinc, Total	120	mg/kg	11.	1	6010B	25-May 26-May	TT
Polychlorinated Biphenyls				1	8082	26-May 01-Jun	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	1600	ug/kg	694.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-13
T-9-7

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	26-May 01-Jun	PB
Aroclor 1260	ND	ug/kg	694.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	98.0	%					
Decachlorobiphenyl	74.0	%					

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: L0004054-14 Date Collected: 29-OCT-1999
 T-10-11 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	14.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	280	1	7196A	26-May	JT
Total Metals				1	3051		
Aluminum, Total	6200	mg/kg	28.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	14.	1	6010B	25-May 26-May	TT
Arsenic, Total	13.	mg/kg	2.8	1	6010B	25-May 26-May	TT
Barium, Total	49.	mg/kg	2.8	1	6010B	25-May 26-May	TT
Beryllium, Total	0.54	mg/kg	0.28	1	6010B	25-May 26-May	TT
Cadmium, Total	3.4	mg/kg	2.8	1	6010B	25-May 26-May	TT
Calcium, Total	4100	mg/kg	140	1	6010B	25-May 26-May	LP
Chromium, Total	1100	mg/kg	2.8	1	6010B	25-May 26-May	TT
Cobalt, Total	ND	mg/kg	5.7	1	6010B	25-May 26-May	TT
Copper, Total	1100	mg/kg	2.8	1	6010B	25-May 26-May	TT
Iron, Total	5500	mg/kg	14.	1	6010B	25-May 26-May	TT
Lead, Total	350	mg/kg	14.	1	6010B	25-May 26-May	TT
Magnesium, Total	870	mg/kg	28.	1	6010B	25-May 26-May	LP
Manganese, Total	230	mg/kg	2.8	1	6010B	25-May 26-May	TT
Mercury, Total	4.8	mg/kg	1.8	1	7471A	30-May 31-May	DM
Nickel, Total	20.	mg/kg	7.1	1	6010B	25-May 26-May	TT
Potassium, Total	ND	mg/kg	710	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	5.7	1	6010B	25-May 26-May	TT
Silver, Total	39.	mg/kg	2.8	1	6010B	25-May 26-May	TT
Sodium, Total	340	mg/kg	140	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	5.7	1	6010B	25-May 26-May	TT
Tin, Total	130	mg/kg	14.	1	6010B	25-May 30-May	LP
Vanadium, Total	67.	mg/kg	2.8	1	6010B	25-May 26-May	LP
Zinc, Total	150	mg/kg	14.	1	6010B	25-May 26-May	TT
PAH by GC/MS SIM 8270M				1	8270C-M	31-May 01-Jun	MK
Acenaphthene	ND	ug/kg	95.				
2-Chloronaphthalene	ND	ug/kg	95.				
Fluoranthene	270	ug/kg	95.				
Naphthalene	ND	ug/kg	95.				
Benzo(a)anthracene	110	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: L0004054-14
T-10-11

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	31-May 01-Jun	MK
Benzo(a)pyrene	140	ug/kg	95.				
Benzo(b)fluoranthene	180	ug/kg	95.				
Benzo(k)fluoranthene	160	ug/kg	95.				
Chrysene	230	ug/kg	95.				
Acenaphthylene	ND	ug/kg	95.				
Anthracene	ND	ug/kg	95.				
Benzo(ghi)perylene	120	ug/kg	95.				
Fluorene	ND	ug/kg	95.				
Phenanthrene	150	ug/kg	95.				
Di benzo(a, h)anthracene	ND	ug/kg	95.				
Indeno(1, 2, 3-cd)Pyrene	140	ug/kg	95.				
Pyrene	280	ug/kg	95.				
1-Methylnaphthalene	ND	ug/kg	95.				
2-Methylnaphthalene	ND	ug/kg	95.				
Perylene	140	ug/kg	95.				
Biphenyl	ND	ug/kg	95.				
2, 6-Dimethylnaphthalene	ND	ug/kg	95.				
1-Methylphenanthrene	100	ug/kg	95.				
Benzo(e)Pyrene	170	ug/kg	95.				
Surrogate Recovery							
Nitrobenzene-d5	80.0	%					
2-Fluorobiphenyl	50.0	%					
4-Terphenyl -d14	45.0	%					
Polychlorinated Biphenyls				1	8082	25-May 30-May	PB
Aroclor 1221	ND	ug/kg	1780				
Aroclor 1232	ND	ug/kg	1780				
Aroclor 1242/1016	ND	ug/kg	1780				
Aroclor 1248	ND	ug/kg	1780				
Aroclor 1254	ND	ug/kg	1780				
Aroclor 1260	3870	ug/kg	1780				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	93.0	%					
Decachlorobiphenyl	65.0	%					

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: L0004054-15	Date Collected: 01-NOV-1999
	Date Received : 24-MAY-2000
Sample Matrix: T-3-13 SOIL	Date Reported : 02-JUN-00
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 1-Amber	

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	86.	%	0.10	30	2540G		26-May LC
PAH by GC/MS SIM 8270M				1	8270C-M		31-May 01-Jun MK
Acenaphthene	ND	ug/kg	7.8				
2-Chloronaphthalene	ND	ug/kg	7.8				
Fluoranthene	46.	ug/kg	7.8				
Naphthalene	ND	ug/kg	7.8				
Benzo(a)anthracene	19.	ug/kg	7.8				
Benzo(a)pyrene	21.	ug/kg	7.8				
Benzo(b)fluoranthene	21.	ug/kg	7.8				
Benzo(k)fluoranthene	20.	ug/kg	7.8				
Chrysene	26.	ug/kg	7.8				
Acenaphthylene	ND	ug/kg	7.8				
Anthracene	ND	ug/kg	7.8				
Benzo(ghi)perylene	16.	ug/kg	7.8				
Fluorene	ND	ug/kg	7.8				
Phenanthrene	22.	ug/kg	7.8				
Di benzo(a, h)anthracene	ND	ug/kg	7.8				
Indeno(1, 2, 3-cd)Pyrene	18.	ug/kg	7.8				
Pyrene	39.	ug/kg	7.8				
1-Methylnaphthalene	ND	ug/kg	7.8				
2-Methylnaphthalene	ND	ug/kg	7.8				
Perylene	ND	ug/kg	7.8				
Biphenyl	ND	ug/kg	7.8				
2,6-Dimethylnaphthalene	ND	ug/kg	7.8				
1-Methylphenanthrene	10.	ug/kg	7.8				
Benzo(e)Pyrene	18.	ug/kg	7.8				
Surrogate Recovery							
Nitrobenzene-d5	69.0	%					
2-Fluorobiphenyl	75.0	%					
4-Terphenyl -d14	82.0	%					

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: L0004054-16 Date Collected: 01-NOV-1999
 T-9-14 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	31.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	130	1	7196A	26-May	JT
Total Metals				1	3051		
Aluminum, Total	8100	mg/kg	13.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	6.4	1	6010B	25-May 26-May	TT
Arsenic, Total	5.0	mg/kg	1.3	1	6010B	25-May 26-May	TT
Barium, Total	45.	mg/kg	1.3	1	6010B	25-May 26-May	TT
Beryllium, Total	0.62	mg/kg	0.13	1	6010B	25-May 26-May	TT
Cadmium, Total	1.6	mg/kg	1.3	1	6010B	25-May 26-May	TT
Calcium, Total	2500	mg/kg	64.	1	6010B	25-May 26-May	LP
Chromium, Total	30.	mg/kg	1.3	1	6010B	25-May 26-May	TT
Cobalt, Total	4.9	mg/kg	2.5	1	6010B	25-May 26-May	TT
Copper, Total	32.	mg/kg	1.3	1	6010B	25-May 26-May	TT
Iron, Total	8300	mg/kg	6.4	1	6010B	25-May 26-May	TT
Lead, Total	160	mg/kg	6.4	1	6010B	25-May 26-May	TT
Magnesium, Total	990	mg/kg	13.	1	6010B	25-May 26-May	LP
Manganese, Total	580	mg/kg	1.3	1	6010B	25-May 26-May	TT
Mercury, Total	ND	mg/kg	0.81	1	7471A	30-May 31-May	DM
Nickel, Total	12.	mg/kg	3.2	1	6010B	25-May 26-May	TT
Potassium, Total	430	mg/kg	320	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	2.5	1	6010B	25-May 26-May	TT
Silver, Total	ND	mg/kg	1.3	1	6010B	25-May 26-May	TT
Sodium, Total	150	mg/kg	64.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	2.5	1	6010B	25-May 26-May	TT
Tin, Total	10.	mg/kg	6.4	1	6010B	25-May 30-May	LP
Vanadium, Total	22.	mg/kg	1.3	1	6010B	25-May 26-May	LP
Zinc, Total	68.	mg/kg	6.4	1	6010B	25-May 26-May	TT
PAH by GC/MS SIM 8270M				1	8270C-M	31-May 01-Jun	MK
Acenaphthene	ND	ug/kg	43.				
2-Chloronaphthalene	ND	ug/kg	43.				
Fluoranthene	450	ug/kg	43.				
Naphthalene	ND	ug/kg	43.				
Benzo(a)anthracene	180	ug/kg	43.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-16
T-9-14

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	31-May 01-Jun	MK
Benzo(a)pyrene	220	ug/kg	43.				
Benzo(b)fluoranthene	200	ug/kg	43.				
Benzo(k)fluoranthene	220	ug/kg	43.				
Chrysene	270	ug/kg	43.				
Acenaphthylene	ND	ug/kg	43.				
Anthracene	ND	ug/kg	43.				
Benzo(ghi)perylene	160	ug/kg	43.				
Fluorene	ND	ug/kg	43.				
Phenanthrene	220	ug/kg	43.				
Di benzo(a, h)anthracene	43.	ug/kg	43.				
Indeno(1, 2, 3-cd)Pyrene	190	ug/kg	43.				
Pyrene	410	ug/kg	43.				
1-Methylnaphthalene	ND	ug/kg	43.				
2-Methylnaphthalene	ND	ug/kg	43.				
Perylene	46.	ug/kg	43.				
Biphenyl	ND	ug/kg	43.				
2, 6-Dimethylnaphthalene	ND	ug/kg	43.				
1-Methylphenanthrene	44.	ug/kg	43.				
Benzo(e)Pyrene	190	ug/kg	43.				
Surrogate Recovery							
Nitrobenzene-d5	89.0	%					
2-Fluorobiphenyl	61.0	%					
4-Terphenyl -d14	51.0	%					
Polychlorinated Biphenyls				1	8082	25-May 30-May	PB
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 Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	97.0	%					
Decachlorobiphenyl	77.0	%					

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: L0004054-17 Date Collected: 01-NOV-1999
 T-7-12 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	21.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	180	1	7196A	26-May	JT
Total Metals				1	3051		
Aluminum, Total	15000	mg/kg	19.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	9.4	1	6010B	25-May 26-May	TT
Arsenic, Total	22.	mg/kg	1.9	1	6010B	25-May 26-May	TT
Barium, Total	95.	mg/kg	1.9	1	6010B	25-May 26-May	TT
Beryllium, Total	1.1	mg/kg	0.19	1	6010B	25-May 26-May	TT
Cadmium, Total	10.	mg/kg	1.9	1	6010B	25-May 26-May	TT
Calcium, Total	1800	mg/kg	94.	1	6010B	25-May 26-May	LP
Chromium, Total	860	mg/kg	1.9	1	6010B	25-May 26-May	TT
Cobalt, Total	7.2	mg/kg	3.8	1	6010B	25-May 26-May	TT
Copper, Total	1100	mg/kg	1.9	1	6010B	25-May 26-May	TT
Iron, Total	16000	mg/kg	9.4	1	6010B	25-May 26-May	TT
Lead, Total	450	mg/kg	9.4	1	6010B	25-May 26-May	TT
Magnesium, Total	3300	mg/kg	19.	1	6010B	25-May 26-May	LP
Manganese, Total	110	mg/kg	1.9	1	6010B	25-May 26-May	TT
Mercury, Total	ND	mg/kg	1.2	1	7471A	30-May 31-May	DM
Nickel, Total	28.	mg/kg	4.7	1	6010B	25-May 26-May	TT
Potassium, Total	810	mg/kg	470	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	3.8	1	6010B	25-May 26-May	TT
Silver, Total	20.	mg/kg	1.9	1	6010B	25-May 26-May	TT
Sodium, Total	250	mg/kg	94.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	3.8	1	6010B	25-May 26-May	TT
Tin, Total	65.	mg/kg	9.4	1	6010B	25-May 30-May	LP
Vanadium, Total	71.	mg/kg	1.9	1	6010B	25-May 26-May	LP
Zinc, Total	280	mg/kg	9.4	1	6010B	25-May 26-May	TT
PAH by GC/MS SIM 8270M				1	8270C-M	31-May 01-Jun	MK
Acenaphthene	ND	ug/kg	63.				
2-Chloronaphthalene	ND	ug/kg	63.				
Fluoranthene	1400	ug/kg	63.				
Naphthalene	ND	ug/kg	63.				
Benzo(a)anthracene	660	ug/kg	63.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-17
T-7-12

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	31-May 01-Jun	MK
Benzo(a)pyrene	1000	ug/kg	63.				
Benzo(b)fluoranthene	1400	ug/kg	63.				
Benzo(k)fluoranthene	1100	ug/kg	63.				
Chrysene	1300	ug/kg	63.				
Acenaphthylene	ND	ug/kg	63.				
Anthracene	92.	ug/kg	63.				
Benzo(ghi)perylene	1000	ug/kg	63.				
Fluorene	ND	ug/kg	63.				
Phenanthrene	410	ug/kg	63.				
Di benzo(a, h)anthracene	220	ug/kg	63.				
Indeno(1, 2, 3-cd)Pyrene	1200	ug/kg	63.				
Pyrene	1200	ug/kg	63.				
1-Methylnaphthalene	ND	ug/kg	63.				
2-Methylnaphthalene	ND	ug/kg	63.				
Perylene	250	ug/kg	63.				
Biphenyl	ND	ug/kg	63.				
2, 6-Dimethylnaphthalene	ND	ug/kg	63.				
1-Methylphenanthrene	ND	ug/kg	63.				
Benzo(e)Pyrene	1200	ug/kg	63.				
Surrogate Recovery							
Nitrobenzene-d5	70.0	%					
2-Fluorobiphenyl	39.0	%					
4-Terphenyl -d14	42.0	%					
Polychlorinated Biphenyls				1	8082	25-May 30-May	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	2230	ug/kg	1190				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	75.0	%					
Decachlorobiphenyl	60.0	%					

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: L0004054-18
 T-12-11
 Sample Matrix: SOIL
 Condition of Sample: Satisfactory
 Number & Type of Containers: 1-Amber

Date Collected: 01-NOV-1999
 Date Received: 24-MAY-2000
 Date Reported: 02-JUN-00
 Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	14.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	280	1	7196A	26-May	JT
Total Metals				1	3051		
Aluminum, Total	7100	mg/kg	28.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	14.	1	6010B	25-May 26-May	TT
Arsenic, Total	11.	mg/kg	2.8	1	6010B	25-May 26-May	TT
Barium, Total	67.	mg/kg	2.8	1	6010B	25-May 26-May	TT
Beryllium, Total	0.82	mg/kg	0.28	1	6010B	25-May 26-May	TT
Cadmium, Total	4.4	mg/kg	2.8	1	6010B	25-May 26-May	TT
Calcium, Total	4300	mg/kg	140	1	6010B	25-May 26-May	LP
Chromium, Total	170	mg/kg	2.8	1	6010B	25-May 26-May	TT
Cobalt, Total	ND	mg/kg	5.6	1	6010B	25-May 26-May	TT
Copper, Total	1100	mg/kg	2.8	1	6010B	25-May 26-May	TT
Iron, Total	8100	mg/kg	14.	1	6010B	25-May 26-May	TT
Lead, Total	200	mg/kg	14.	1	6010B	25-May 26-May	TT
Magnesium, Total	960	mg/kg	28.	1	6010B	25-May 26-May	LP
Manganese, Total	330	mg/kg	2.8	1	6010B	25-May 26-May	TT
Mercury, Total	ND	mg/kg	1.8	1	7471A	30-May 31-May	DM
Nickel, Total	20.	mg/kg	7.0	1	6010B	25-May 26-May	TT
Potassium, Total	ND	mg/kg	700	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	5.6	1	6010B	25-May 26-May	TT
Silver, Total	10.	mg/kg	2.8	1	6010B	25-May 26-May	TT
Sodium, Total	410	mg/kg	140	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	5.6	1	6010B	25-May 26-May	TT
Tin, Total	20.	mg/kg	14.	1	6010B	25-May 30-May	LP
Vanadium, Total	34.	mg/kg	2.8	1	6010B	25-May 26-May	LP
Zinc, Total	150	mg/kg	14.	1	6010B	25-May 26-May	TT
Polychlorinated Biphenyls				1	8082	26-May 01-Jun	PB
Aroclor 1221	ND	ug/kg	893.				
Aroclor 1232	ND	ug/kg	893.				
Aroclor 1242/1016	ND	ug/kg	893.				
Aroclor 1248	ND	ug/kg	893.				
Aroclor 1254	1090	ug/kg	893.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-18
T-12-11

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	26-May 01-Jun	PB
Aroclor 1260	ND	ug/kg	893.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	102.	%					
Decachlorobiphenyl	82.0	%					

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: L0004054-19 Date Collected: 01-NOV-1999
 T-12-8 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	19.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	210	1	7196A	26-May	JT
Total Metals				1	3051		
Aluminum, Total	9300	mg/kg	21.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	10.	1	6010B	25-May 26-May	TT
Arsenic, Total	12.	mg/kg	2.1	1	6010B	25-May 26-May	TT
Barium, Total	94.	mg/kg	2.1	1	6010B	25-May 26-May	TT
Beryllium, Total	0.91	mg/kg	0.21	1	6010B	25-May 26-May	TT
Cadmium, Total	4.8	mg/kg	2.1	1	6010B	25-May 26-May	TT
Calcium, Total	4300	mg/kg	100	1	6010B	25-May 26-May	LP
Chromium, Total	150	mg/kg	2.1	1	6010B	25-May 26-May	TT
Cobalt, Total	6.4	mg/kg	4.1	1	6010B	25-May 26-May	TT
Copper, Total	270	mg/kg	2.1	1	6010B	25-May 26-May	TT
Iron, Total	6300	mg/kg	10.	1	6010B	25-May 26-May	TT
Lead, Total	350	mg/kg	10.	1	6010B	25-May 26-May	TT
Magnesium, Total	1400	mg/kg	21.	1	6010B	25-May 26-May	LP
Manganese, Total	420	mg/kg	2.1	1	6010B	25-May 26-May	TT
Mercury, Total	4.3	mg/kg	1.3	1	7471A	30-May 31-May	DM
Nickel, Total	22.	mg/kg	5.2	1	6010B	25-May 26-May	TT
Potassium, Total	ND	mg/kg	520	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	4.1	1	6010B	25-May 26-May	TT
Silver, Total	5.6	mg/kg	2.1	1	6010B	25-May 26-May	TT
Sodium, Total	330	mg/kg	100	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	4.1	1	6010B	25-May 26-May	TT
Tin, Total	21.	mg/kg	10.	1	6010B	25-May 30-May	LP
Vanadium, Total	37.	mg/kg	2.1	1	6010B	25-May 26-May	LP
Zinc, Total	150	mg/kg	10.	1	6010B	25-May 26-May	TT
Polychlorinated Biphenyls				1	8082	26-May 01-Jun	PB
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	6560	ug/kg	658.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-19
T-12-8

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	26-May 01-Jun	PB
Aroclor 1260	ND	ug/kg	658.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	101.	%					
Decachlorobiphenyl	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: L0004054-20 Date Collected: 01-NOV-1999
 T-12.1-4 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	27.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	140	1	7196A	26-May	JT
Total Metals				1	3051		
Aluminum, Total	8600	mg/kg	15.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	7.3	1	6010B	25-May 26-May	TT
Arsenic, Total	8.7	mg/kg	1.5	1	6010B	25-May 26-May	TT
Barium, Total	84.	mg/kg	1.5	1	6010B	25-May 26-May	TT
Beryllium, Total	0.82	mg/kg	0.15	1	6010B	25-May 26-May	TT
Cadmium, Total	2.4	mg/kg	1.5	1	6010B	25-May 26-May	TT
Calcium, Total	2500	mg/kg	73.	1	6010B	25-May 26-May	LP
Chromium, Total	76.	mg/kg	1.5	1	6010B	25-May 26-May	TT
Cobalt, Total	6.7	mg/kg	2.9	1	6010B	25-May 26-May	TT
Copper, Total	88.	mg/kg	1.5	1	6010B	25-May 26-May	TT
Iron, Total	7800	mg/kg	7.3	1	6010B	25-May 26-May	TT
Lead, Total	250	mg/kg	7.3	1	6010B	25-May 26-May	TT
Magnesium, Total	1300	mg/kg	15.	1	6010B	25-May 26-May	LP
Manganese, Total	570	mg/kg	1.5	1	6010B	25-May 26-May	TT
Mercury, Total	1.7	mg/kg	0.92	1	7471A	30-May 31-May	DM
Nickel, Total	15.	mg/kg	3.6	1	6010B	25-May 26-May	TT
Potassium, Total	430	mg/kg	360	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	2.9	1	6010B	25-May 26-May	TT
Silver, Total	1.5	mg/kg	1.5	1	6010B	25-May 26-May	TT
Sodium, Total	270	mg/kg	73.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	2.9	1	6010B	25-May 26-May	TT
Tin, Total	12.	mg/kg	7.3	1	6010B	25-May 30-May	LP
Vanadium, Total	24.	mg/kg	1.5	1	6010B	25-May 26-May	LP
Zinc, Total	100	mg/kg	7.3	1	6010B	25-May 26-May	TT
Polychlorinated Biphenyls				1	8082	26-May 01-Jun	PB
Aroclor 1221	ND	ug/kg	463.				
Aroclor 1232	ND	ug/kg	463.				
Aroclor 1242/1016	ND	ug/kg	463.				
Aroclor 1248	ND	ug/kg	463.				
Aroclor 1254	4480	ug/kg	463.				

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-20
 T-12.1-4

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	26-May 01-Jun	PB
Aroclor 1260	ND	ug/kg	463.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	98.0	%					
Decachlorobiphenyl	78.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-21
T-12-6

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	26-May 01-Jun	PB
Aroclor 1260	ND	ug/kg	463.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	102.	%					
Decachlorobiphenyl	81.0	%					

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: L0004054-22
 T-12-13
 Sample Matrix: SOIL
 Date Collected: 01-NOV-1999
 Date Received: 24-MAY-2000
 Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory
 Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	21.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	190	1	7196A	26-May	JT
Total Metals				1	3051		
Aluminum, Total	7400	mg/kg	19.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	9.4	1	6010B	25-May 26-May	TT
Arsenic, Total	12.	mg/kg	1.9	1	6010B	25-May 26-May	TT
Barium, Total	64.	mg/kg	1.9	1	6010B	25-May 26-May	TT
Beryllium, Total	0.62	mg/kg	0.19	1	6010B	25-May 26-May	TT
Cadmium, Total	2.2	mg/kg	1.9	1	6010B	25-May 26-May	TT
Calcium, Total	3000	mg/kg	94.	1	6010B	25-May 26-May	LP
Chromium, Total	200	mg/kg	1.9	1	6010B	25-May 26-May	TT
Cobalt, Total	ND	mg/kg	3.8	1	6010B	25-May 26-May	TT
Copper, Total	250	mg/kg	1.9	1	6010B	25-May 26-May	TT
Iron, Total	4500	mg/kg	9.4	1	6010B	25-May 26-May	TT
Lead, Total	220	mg/kg	9.4	1	6010B	25-May 26-May	TT
Magnesium, Total	1000	mg/kg	19.	1	6010B	25-May 26-May	LP
Manganese, Total	170	mg/kg	1.9	1	6010B	25-May 26-May	TT
Mercury, Total	2.2	mg/kg	1.2	1	7471A	30-May 31-May	DM
Nickel, Total	14.	mg/kg	4.7	1	6010B	25-May 26-May	TT
Potassium, Total	ND	mg/kg	470	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	3.8	1	6010B	25-May 26-May	TT
Silver, Total	6.0	mg/kg	1.9	1	6010B	25-May 26-May	TT
Sodium, Total	320	mg/kg	94.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	3.8	1	6010B	25-May 26-May	TT
Tin, Total	24.	mg/kg	9.4	1	6010B	25-May 30-May	LP
Vanadium, Total	32.	mg/kg	1.9	1	6010B	25-May 26-May	LP
Zinc, Total	77.	mg/kg	9.4	1	6010B	25-May 26-May	TT
Polychlorinated Biphenyls				1	8082	26-May 01-Jun	PB
Aroclor 1221	ND	ug/kg	595.				
Aroclor 1232	ND	ug/kg	595.				
Aroclor 1242/1016	ND	ug/kg	595.				
Aroclor 1248	ND	ug/kg	595.				
Aroclor 1254	2170	ug/kg	595.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-22
T-12-13

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	26-May 01-Jun	PB
Aroclor 1260	ND	ug/kg	595.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	93.0	%					
Decachlorobiphenyl	70.0	%					

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: L0004054-23 Date Collected: 01-NOV-1999
 T-12-14 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	22.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	180	1	7196A	26-May	JT
Total Metals				1	3051		
Aluminum, Total	9100	mg/kg	18.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	9.0	1	6010B	25-May 26-May	TT
Arsenic, Total	12.	mg/kg	1.8	1	6010B	25-May 26-May	TT
Barium, Total	50.	mg/kg	1.8	1	6010B	25-May 26-May	TT
Beryllium, Total	1.3	mg/kg	0.18	1	6010B	25-May 26-May	TT
Cadmium, Total	2.5	mg/kg	1.8	1	6010B	25-May 26-May	TT
Calcium, Total	4000	mg/kg	90.	1	6010B	25-May 26-May	LP
Chromium, Total	120	mg/kg	1.8	1	6010B	25-May 26-May	TT
Cobalt, Total	ND	mg/kg	3.6	1	6010B	25-May 26-May	TT
Copper, Total	96.	mg/kg	1.8	1	6010B	25-May 26-May	TT
Iron, Total	4000	mg/kg	9.0	1	6010B	25-May 26-May	TT
Lead, Total	80.	mg/kg	9.0	1	6010B	25-May 26-May	TT
Magnesium, Total	570	mg/kg	18.	1	6010B	25-May 26-May	LP
Manganese, Total	120	mg/kg	1.8	1	6010B	25-May 26-May	TT
Mercury, Total	ND	mg/kg	1.1	1	7471A	30-May 31-May	DM
Nickel, Total	9.2	mg/kg	4.5	1	6010B	25-May 26-May	TT
Potassium, Total	ND	mg/kg	450	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	3.6	1	6010B	25-May 26-May	TT
Silver, Total	ND	mg/kg	1.8	1	6010B	25-May 26-May	TT
Sodium, Total	420	mg/kg	90.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	3.6	1	6010B	25-May 26-May	TT
Tin, Total	9.1	mg/kg	9.0	1	6010B	25-May 30-May	LP
Vanadium, Total	21.	mg/kg	1.8	1	6010B	25-May 26-May	LP
Zinc, Total	72.	mg/kg	9.0	1	6010B	25-May 26-May	TT
PAH by GC/MS SIM 8270M				1	8270C-M	31-May 01-Jun	MK
Acenaphthene	ND	ug/kg	30.				
2-Chloronaphthalene	ND	ug/kg	30.				
Fluoranthene	48.	ug/kg	30.				
Naphthalene	ND	ug/kg	30.				
Benzo(a)anthracene	ND	ug/kg	30.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-23
T-12-14

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	31-May 01-Jun	MK
Benzo(a)pyrene	ND	ug/kg	30.				
Benzo(b)fluoranthene	ND	ug/kg	30.				
Benzo(k)fluoranthene	ND	ug/kg	30.				
Chrysene	34.	ug/kg	30.				
Acenaphthylene	ND	ug/kg	30.				
Anthracene	ND	ug/kg	30.				
Benzo(ghi)perylene	ND	ug/kg	30.				
Fluorene	ND	ug/kg	30.				
Phenanthrene	ND	ug/kg	30.				
Di benzo(a, h)anthracene	ND	ug/kg	30.				
Indeno(1, 2, 3-cd)Pyrene	ND	ug/kg	30.				
Pyrene	46.	ug/kg	30.				
1-Methylnaphthalene	ND	ug/kg	30.				
2-Methylnaphthalene	ND	ug/kg	30.				
Perylene	ND	ug/kg	30.				
Biphenyl	ND	ug/kg	30.				
2, 6-Dimethylnaphthalene	ND	ug/kg	30.				
1-Methylphenanthrene	36.	ug/kg	30.				
Benzo(e)Pyrene	ND	ug/kg	30.				
Surrogate Recovery							
Nitrobenzene-d5	73.0	%					
2-Fluorobiphenyl	36.0	%					
4-Terphenyl -d14	33.0	%					
Polychlorinated Biphenyls				1	8082	25-May 30-May	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	69.0	%					
Decachlorobiphenyl	54.0	%					

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: L0004054-24 Date Collected: 01-NOV-1999
 T-12-10 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	21.	%	0.10	30	2540G	30-May	LC
Chromium, Hexavalent	ND	mg/kg	180	1	7196A	30-May	JT
Total Metals				1	3051		
Aluminum, Total	6000	mg/kg	19.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	9.4	1	6010B	25-May 26-May	TT
Arsenic, Total	15.	mg/kg	1.9	1	6010B	25-May 26-May	TT
Barium, Total	67.	mg/kg	1.9	1	6010B	25-May 26-May	TT
Beryllium, Total	0.76	mg/kg	0.19	1	6010B	25-May 26-May	TT
Cadmium, Total	5.9	mg/kg	1.9	1	6010B	25-May 26-May	TT
Calcium, Total	4400	mg/kg	94.	1	6010B	25-May 26-May	LP
Chromium, Total	280	mg/kg	1.9	1	6010B	25-May 26-May	TT
Cobalt, Total	5.0	mg/kg	3.8	1	6010B	25-May 26-May	TT
Copper, Total	920	mg/kg	1.9	1	6010B	25-May 26-May	TT
Iron, Total	11000	mg/kg	9.4	1	6010B	25-May 26-May	TT
Lead, Total	200	mg/kg	9.4	1	6010B	25-May 26-May	TT
Magnesium, Total	830	mg/kg	19.	1	6010B	25-May 26-May	LP
Manganese, Total	310	mg/kg	1.9	1	6010B	25-May 26-May	TT
Mercury, Total	1.1	mg/kg	1.1	1	7471A	30-May 31-May	DM
Nickel, Total	21.	mg/kg	4.7	1	6010B	25-May 26-May	TT
Potassium, Total	ND	mg/kg	470	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	3.8	1	6010B	25-May 26-May	TT
Silver, Total	13.	mg/kg	1.9	1	6010B	25-May 26-May	TT
Sodium, Total	290	mg/kg	94.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	3.8	1	6010B	25-May 26-May	TT
Tin, Total	32.	mg/kg	9.4	1	6010B	25-May 30-May	LP
Vanadium, Total	29.	mg/kg	1.9	1	6010B	25-May 26-May	LP
Zinc, Total	170	mg/kg	9.4	1	6010B	25-May 26-May	TT
Polychlorinated Biphenyls				1	8082	26-May 01-Jun	PB
Aroclor 1221	ND	ug/kg	595.				
Aroclor 1232	ND	ug/kg	595.				
Aroclor 1242/1016	ND	ug/kg	595.				
Aroclor 1248	ND	ug/kg	595.				
Aroclor 1254	1680	ug/kg	595.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-24
T-12-10

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	26-May 01-Jun	PB
Aroclor 1260	ND	ug/kg	595.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	86.0	%					
Decachlorobiphenyl	58.0	%					

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: L0004054-25 Date Collected: 01-NOV-1999
T-12-9 Date Received: 24-MAY-2000
Sample Matrix: SOIL Date Reported: 02-JUN-00
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	22.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	180	1	7196A	26-May	JT
Total Metals				1	3051		
Aluminum, Total	7200	mg/kg	18.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	9.0	1	6010B	25-May 26-May	TT
Arsenic, Total	7.2	mg/kg	1.8	1	6010B	25-May 26-May	TT
Barium, Total	75.	mg/kg	1.8	1	6010B	25-May 26-May	TT
Beryllium, Total	0.84	mg/kg	0.18	1	6010B	25-May 26-May	TT
Cadmium, Total	5.4	mg/kg	1.8	1	6010B	25-May 26-May	TT
Calcium, Total	3800	mg/kg	90.	1	6010B	25-May 26-May	LP
Chromium, Total	200	mg/kg	1.8	1	6010B	25-May 26-May	TT
Cobalt, Total	5.2	mg/kg	3.6	1	6010B	25-May 26-May	TT
Copper, Total	290	mg/kg	1.8	1	6010B	25-May 26-May	TT
Iron, Total	4400	mg/kg	9.0	1	6010B	25-May 26-May	TT
Lead, Total	240	mg/kg	9.0	1	6010B	25-May 26-May	TT
Magnesium, Total	940	mg/kg	18.	1	6010B	25-May 26-May	LP
Manganese, Total	290	mg/kg	1.8	1	6010B	25-May 26-May	TT
Mercury, Total	2.0	mg/kg	1.1	1	7471A	30-May 31-May	DM
Nickel, Total	23.	mg/kg	4.5	1	6010B	25-May 26-May	TT
Potassium, Total	ND	mg/kg	450	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	3.6	1	6010B	25-May 26-May	TT
Silver, Total	8.0	mg/kg	1.8	1	6010B	25-May 26-May	TT
Sodium, Total	220	mg/kg	90.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	3.6	1	6010B	25-May 26-May	TT
Tin, Total	28.	mg/kg	9.0	1	6010B	25-May 30-May	LP
Vanadium, Total	27.	mg/kg	1.8	1	6010B	25-May 26-May	LP
Zinc, Total	130	mg/kg	9.0	1	6010B	25-May 26-May	TT
PAH by GC/MS SIM 8270M				1	8270C-M	31-May 01-Jun	MK
Acenaphthene	ND	ug/kg	30.				
2-Chloronaphthalene	ND	ug/kg	30.				
Fluoranthene	190	ug/kg	30.				
Naphthalene	ND	ug/kg	30.				
Benzo(a)anthracene	76.	ug/kg	30.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-25
T-12-9

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	31-May 01-Jun	MK
Benzo(a)pyrene	100	ug/kg	30.				
Benzo(b)fluoranthene	120	ug/kg	30.				
Benzo(k)fluoranthene	110	ug/kg	30.				
Chrysene	140	ug/kg	30.				
Acenaphthylene	ND	ug/kg	30.				
Anthracene	ND	ug/kg	30.				
Benzo(ghi)perylene	90.	ug/kg	30.				
Fluorene	ND	ug/kg	30.				
Phenanthrene	82.	ug/kg	30.				
Di benzo(a, h)anthracene	ND	ug/kg	30.				
Indeno(1, 2, 3-cd)Pyrene	100	ug/kg	30.				
Pyrene	180	ug/kg	30.				
1-Methylnaphthalene	ND	ug/kg	30.				
2-Methylnaphthalene	ND	ug/kg	30.				
Perylene	ND	ug/kg	30.				
Biphenyl	ND	ug/kg	30.				
2, 6-Dimethylnaphthalene	ND	ug/kg	30.				
1-Methylphenanthrene	ND	ug/kg	30.				
Benzo(e)Pyrene	100	ug/kg	30.				
Surrogate Recovery							
Nitrobenzene-d5	59.0	%					
2-Fluorobiphenyl	55.0	%					
4-Terphenyl -d14	55.0	%					
Polychlorinated Biphenyls				1	8082	25-May 31-May	PB
Aroclor 1221	ND	ug/kg	1140				
Aroclor 1232	ND	ug/kg	1140				
Aroclor 1242/1016	ND	ug/kg	1140				
Aroclor 1248	ND	ug/kg	1140				
Aroclor 1254	2340	ug/kg	1140				
Aroclor 1260	ND	ug/kg	1140				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	89.0	%					
Decachlorobiphenyl	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: L0004054-26 Date Collected: 01-NOV-1999
 T-12-15 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	22.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	180	1	7196A	30-May	JT
Total Metals				1	3051		
Aluminum, Total	8900	mg/kg	18.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	9.0	1	6010B	25-May 26-May	TT
Arsenic, Total	11.	mg/kg	1.8	1	6010B	25-May 26-May	TT
Barium, Total	52.	mg/kg	1.8	1	6010B	25-May 26-May	TT
Beryllium, Total	0.93	mg/kg	0.18	1	6010B	25-May 26-May	TT
Cadmium, Total	2.3	mg/kg	1.8	1	6010B	25-May 26-May	TT
Calcium, Total	2200	mg/kg	90.	1	6010B	25-May 26-May	LP
Chromium, Total	89.	mg/kg	1.8	1	6010B	25-May 26-May	TT
Cobalt, Total	3.9	mg/kg	3.6	1	6010B	25-May 26-May	TT
Copper, Total	130	mg/kg	1.8	1	6010B	25-May 26-May	TT
Iron, Total	5400	mg/kg	9.0	1	6010B	25-May 26-May	TT
Lead, Total	290	mg/kg	9.0	1	6010B	25-May 26-May	TT
Magnesium, Total	1000	mg/kg	18.	1	6010B	25-May 26-May	LP
Manganese, Total	140	mg/kg	1.8	1	6010B	25-May 26-May	TT
Mercury, Total	2.4	mg/kg	1.1	1	7471A	30-May 31-May	DM
Nickel, Total	14.	mg/kg	4.5	1	6010B	25-May 26-May	TT
Potassium, Total	ND	mg/kg	450	1	6010B	25-May 30-May	LP
Selenium, Total	ND	mg/kg	3.6	1	6010B	25-May 26-May	TT
Silver, Total	2.2	mg/kg	1.8	1	6010B	25-May 26-May	TT
Sodium, Total	360	mg/kg	90.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	3.6	1	6010B	25-May 26-May	TT
Tin, Total	11.	mg/kg	9.0	1	6010B	25-May 26-May	LP
Vanadium, Total	31.	mg/kg	1.8	1	6010B	25-May 26-May	LP
Zinc, Total	54.	mg/kg	9.0	1	6010B	25-May 26-May	TT
Polychlorinated Biphenyls				1	8082	26-May 01-Jun	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	3100	ug/kg	568.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-26
T-12-15

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	26-May 01-Jun	PB
Aroclor 1260	ND	ug/kg	568.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	103.	%					
Decachlorobiphenyl	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: L0004054-27 Date Collected: 02-NOV-1999
 T-13-9 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	28.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	140	1	7196A	30-May	JT
Total Metals				1	3051		
Aluminum, Total	7400	mg/kg	14.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	7.1	1	6010B	25-May 26-May	TT
Arsenic, Total	5.0	mg/kg	1.4	1	6010B	25-May 26-May	TT
Barium, Total	48.	mg/kg	1.4	1	6010B	25-May 26-May	TT
Beryllium, Total	0.75	mg/kg	0.14	1	6010B	25-May 26-May	TT
Cadmium, Total	2.0	mg/kg	1.4	1	6010B	25-May 26-May	TT
Calcium, Total	2200	mg/kg	71.	1	6010B	25-May 26-May	LP
Chromium, Total	48.	mg/kg	1.4	1	6010B	25-May 26-May	TT
Cobalt, Total	ND	mg/kg	2.8	1	6010B	25-May 26-May	TT
Copper, Total	80.	mg/kg	1.4	1	6010B	25-May 26-May	TT
Iron, Total	3700	mg/kg	7.1	1	6010B	25-May 26-May	TT
Lead, Total	220	mg/kg	7.1	1	6010B	25-May 26-May	TT
Magnesium, Total	890	mg/kg	14.	1	6010B	25-May 26-May	LP
Manganese, Total	190	mg/kg	1.4	1	6010B	25-May 26-May	TT
Mercury, Total	1.1	mg/kg	0.89	1	7471A	30-May 31-May	DM
Nickel, Total	10.	mg/kg	3.5	1	6010B	25-May 26-May	TT
Potassium, Total	ND	mg/kg	350	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	2.8	1	6010B	25-May 26-May	TT
Silver, Total	ND	mg/kg	1.4	1	6010B	25-May 26-May	TT
Sodium, Total	290	mg/kg	71.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	2.8	1	6010B	25-May 26-May	TT
Tin, Total	8.9	mg/kg	7.1	1	6010B	25-May 26-May	LP
Vanadium, Total	22.	mg/kg	1.4	1	6010B	25-May 26-May	LP
Zinc, Total	54.	mg/kg	7.1	1	6010B	25-May 26-May	TT
PAH by GC/MS SIM 8270M				1	8270C-M	31-May 01-Jun	MK
Acenaphthene	ND	ug/kg	24.				
2-Chloronaphthalene	ND	ug/kg	24.				
Fluoranthene	93.	ug/kg	24.				
Naphthalene	ND	ug/kg	24.				
Benzo(a)anthracene	44.	ug/kg	24.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-27
T-13-9

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	31-May 01-Jun	MK
Benzo(a)pyrene	48.	ug/kg	24.				
Benzo(b)fluoranthene	48.	ug/kg	24.				
Benzo(k)fluoranthene	46.	ug/kg	24.				
Chrysene	66.	ug/kg	24.				
Acenaphthylene	ND	ug/kg	24.				
Anthracene	ND	ug/kg	24.				
Benzo(ghi)perylene	32.	ug/kg	24.				
Fluorene	ND	ug/kg	24.				
Phenanthrene	46.	ug/kg	24.				
Di benzo(a, h)anthracene	ND	ug/kg	24.				
Indeno(1, 2, 3-cd)Pyrene	37.	ug/kg	24.				
Pyrene	91.	ug/kg	24.				
1-Methylnaphthalene	ND	ug/kg	24.				
2-Methylnaphthalene	ND	ug/kg	24.				
Perylene	ND	ug/kg	24.				
Biphenyl	ND	ug/kg	24.				
2, 6-Dimethylnaphthalene	ND	ug/kg	24.				
1-Methylphenanthrene	ND	ug/kg	24.				
Benzo(e)Pyrene	42.	ug/kg	24.				
Surrogate Recovery							
Nitrobenzene-d5	50.0	%					
2-Fluorobiphenyl	26.0	%					
4-Terphenyl -d14	25.0	%					
Polychlorinated Biphenyls				1	8082	25-May 31-May	PB
Aroclor 1221	ND	ug/kg	446.				
Aroclor 1232	ND	ug/kg	446.				
Aroclor 1242/1016	ND	ug/kg	446.				
Aroclor 1248	ND	ug/kg	446.				
Aroclor 1254	ND	ug/kg	446.				
Aroclor 1260	ND	ug/kg	446.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	62.0	%					
Decachlorobiphenyl	42.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-28
T-14-8

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	26-May 31-May	PB
Aroclor 1260	ND	ug/kg	338.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	87.0	%					
Decachlorobiphenyl	60.0	%					

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: L0004054-29 Date Collected: 02-NOV-1999
 T-12.1-6 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	24.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	160	1	7196A	30-May	JT
Total Metals				1	3051		
Aluminum, Total	8400	mg/kg	17.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	8.3	1	6010B	25-May 27-May	TT
Arsenic, Total	11.	mg/kg	1.7	1	6010B	25-May 27-May	TT
Barium, Total	80.	mg/kg	1.7	1	6010B	25-May 27-May	TT
Beryllium, Total	0.86	mg/kg	0.17	1	6010B	25-May 27-May	TT
Cadmium, Total	3.5	mg/kg	1.7	1	6010B	25-May 27-May	TT
Calcium, Total	3000	mg/kg	83.	1	6010B	25-May 26-May	LP
Chromium, Total	90.	mg/kg	1.7	1	6010B	25-May 27-May	TT
Cobalt, Total	4.3	mg/kg	3.3	1	6010B	25-May 27-May	TT
Copper, Total	160	mg/kg	1.7	1	6010B	25-May 27-May	TT
Iron, Total	5600	mg/kg	8.3	1	6010B	25-May 27-May	TT
Lead, Total	290	mg/kg	8.3	1	6010B	25-May 27-May	TT
Magnesium, Total	1100	mg/kg	17.	1	6010B	25-May 26-May	LP
Manganese, Total	260	mg/kg	1.7	1	6010B	25-May 27-May	TT
Mercury, Total	2.2	mg/kg	1.0	1	7471A	30-May 31-May	DM
Nickel, Total	17.	mg/kg	4.2	1	6010B	25-May 27-May	TT
Potassium, Total	ND	mg/kg	420	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	3.3	1	6010B	25-May 27-May	TT
Silver, Total	2.7	mg/kg	1.7	1	6010B	25-May 27-May	TT
Sodium, Total	320	mg/kg	83.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	3.3	1	6010B	25-May 27-May	TT
Tin, Total	13.	mg/kg	8.3	1	6010B	25-May 26-May	LP
Vanadium, Total	31.	mg/kg	1.7	1	6010B	25-May 26-May	LP
Zinc, Total	93.	mg/kg	8.3	1	6010B	25-May 27-May	TT
Polychlorinated Biphenyls				1	8082	26-May 31-May	PB
Aroclor 1221	ND	ug/kg	521.				
Aroclor 1232	ND	ug/kg	521.				
Aroclor 1242/1016	ND	ug/kg	521.				
Aroclor 1248	ND	ug/kg	521.				
Aroclor 1254	4000	ug/kg	521.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-29
T-12.1-6

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	26-May 31-May	PB
Aroclor 1260	ND	ug/kg	521.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	83.0	%					
Decachlorobiphenyl	60.0	%					

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: L0004054-30 Date Collected: 02-NOV-1999
 T-13-7 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	22.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	180	1	7196A	30-May	JT
Total Metals				1	3051		
Aluminum, Total	6800	mg/kg	18.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	9.0	1	6010B	25-May 27-May	TT
Arsenic, Total	14.	mg/kg	1.8	1	6010B	25-May 27-May	TT
Barium, Total	85.	mg/kg	1.8	1	6010B	25-May 27-May	TT
Beryllium, Total	0.74	mg/kg	0.18	1	6010B	25-May 27-May	TT
Cadmium, Total	3.2	mg/kg	1.8	1	6010B	25-May 27-May	TT
Calcium, Total	2500	mg/kg	90.	1	6010B	25-May 26-May	LP
Chromium, Total	92.	mg/kg	1.8	1	6010B	25-May 27-May	TT
Cobalt, Total	4.4	mg/kg	3.6	1	6010B	25-May 27-May	TT
Copper, Total	160	mg/kg	1.8	1	6010B	25-May 27-May	TT
Iron, Total	7100	mg/kg	9.0	1	6010B	25-May 27-May	TT
Lead, Total	280	mg/kg	9.0	1	6010B	25-May 27-May	TT
Magnesium, Total	950	mg/kg	18.	1	6010B	25-May 26-May	LP
Manganese, Total	220	mg/kg	1.8	1	6010B	25-May 27-May	TT
Mercury, Total	2.1	mg/kg	1.1	1	7471A	30-May 31-May	DM
Nickel, Total	16.	mg/kg	4.5	1	6010B	25-May 27-May	TT
Potassium, Total	ND	mg/kg	450	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	3.6	1	6010B	25-May 27-May	TT
Silver, Total	3.9	mg/kg	1.8	1	6010B	25-May 27-May	TT
Sodium, Total	300	mg/kg	90.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	3.6	1	6010B	25-May 27-May	TT
Tin, Total	12.	mg/kg	9.0	1	6010B	25-May 26-May	LP
Vanadium, Total	33.	mg/kg	1.8	1	6010B	25-May 26-May	LP
Zinc, Total	93.	mg/kg	9.0	1	6010B	25-May 27-May	TT
Polychlorinated Biphenyls				1	8082	26-May 31-May	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	3750	ug/kg	568.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-30
T-13-7

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	26-May 31-May	PB
Aroclor 1260	ND	ug/kg	568.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	82.0	%					
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: L0004054-31 Date Collected: 02-NOV-1999
 T-15-2 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	32.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	120	1	7196A	30-May	JT
Total Metals				1	3051		
Aluminum, Total	14000	mg/kg	12.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	6.2	1	6010B	25-May 27-May	TT
Arsenic, Total	11.	mg/kg	1.2	1	6010B	25-May 27-May	TT
Barium, Total	210	mg/kg	1.2	1	6010B	25-May 27-May	TT
Beryllium, Total	1.0	mg/kg	0.12	1	6010B	25-May 27-May	TT
Cadmium, Total	2.1	mg/kg	1.2	1	6010B	25-May 27-May	TT
Calcium, Total	2300	mg/kg	62.	1	6010B	25-May 26-May	LP
Chromium, Total	210	mg/kg	1.2	1	6010B	25-May 27-May	TT
Cobalt, Total	8.5	mg/kg	2.5	1	6010B	25-May 27-May	TT
Copper, Total	170	mg/kg	1.2	1	6010B	25-May 27-May	TT
Iron, Total	13000	mg/kg	6.2	1	6010B	25-May 27-May	TT
Lead, Total	600	mg/kg	6.2	1	6010B	25-May 27-May	TT
Magnesium, Total	2800	mg/kg	12.	1	6010B	25-May 26-May	LP
Manganese, Total	620	mg/kg	1.2	1	6010B	25-May 27-May	TT
Mercury, Total	7.2	mg/kg	0.78	1	7471A	30-May 31-May	DM
Nickel, Total	20.	mg/kg	3.1	1	6010B	25-May 27-May	TT
Potassium, Total	740	mg/kg	310	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	2.5	1	6010B	25-May 27-May	TT
Silver, Total	3.6	mg/kg	1.2	1	6010B	25-May 27-May	TT
Sodium, Total	290	mg/kg	62.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	2.5	1	6010B	25-May 27-May	TT
Tin, Total	21.	mg/kg	6.2	1	6010B	25-May 26-May	LP
Vanadium, Total	44.	mg/kg	1.2	1	6010B	25-May 26-May	LP
Zinc, Total	130	mg/kg	6.2	1	6010B	25-May 27-May	TT
PAH by GC/MS SIM 8270M				1	8270C-M	31-May 01-Jun	MK
Acenaphthene	ND	ug/kg	21.				
2-Chloronaphthalene	ND	ug/kg	21.				
Fluoranthene	380	ug/kg	21.				
Naphthalene	ND	ug/kg	21.				
Benzo(a)anthracene	170	ug/kg	21.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-31
T-15-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	31-May 01-Jun	MK
Benzo(a)pyrene	180	ug/kg	21.				
Benzo(b)fluoranthene	160	ug/kg	21.				
Benzo(k)fluoranthene	180	ug/kg	21.				
Chrysene	240	ug/kg	21.				
Acenaphthylene	65.	ug/kg	21.				
Anthracene	42.	ug/kg	21.				
Benzo(ghi)perylene	120	ug/kg	21.				
Fluorene	ND	ug/kg	21.				
Phenanthrene	180	ug/kg	21.				
Di benzo(a, h)anthracene	36.	ug/kg	21.				
Indeno(1, 2, 3-cd)Pyrene	140	ug/kg	21.				
Pyrene	380	ug/kg	21.				
1-Methylnaphthalene	ND	ug/kg	21.				
2-Methylnaphthalene	ND	ug/kg	21.				
Perylene	41.	ug/kg	21.				
Biphenyl	ND	ug/kg	21.				
2, 6-Dimethylnaphthalene	ND	ug/kg	21.				
1-Methylphenanthrene	53.	ug/kg	21.				
Benzo(e)Pyrene	150	ug/kg	21.				
Surrogate Recovery							
Nitrobenzene-d5	51.0	%					
2-Fluorobiphenyl	18.0	%					
4-Terphenyl -d14	24.0	%					
Polychlorinated Biphenyls				1	8082	25-May 31-May	PB
Aroclor 1221	ND	ug/kg	781.				
Aroclor 1232	ND	ug/kg	781.				
Aroclor 1242/1016	ND	ug/kg	781.				
Aroclor 1248	ND	ug/kg	781.				
Aroclor 1254	5120	ug/kg	781.				
Aroclor 1260	ND	ug/kg	781.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	92.0	%					
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: L0004054-32 Date Collected: 28-OCT-1999
 T-10-12 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	16.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	240	1	7196A	30-May	JT
Total Metals				1	3051		
Aluminum, Total	8000	mg/kg	25.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	12.	1	6010B	25-May 27-May	TT
Arsenic, Total	43.	mg/kg	2.5	1	6010B	25-May 27-May	TT
Barium, Total	86.	mg/kg	2.5	1	6010B	25-May 27-May	TT
Beryllium, Total	0.59	mg/kg	0.25	1	6010B	25-May 27-May	TT
Cadmium, Total	3.3	mg/kg	2.5	1	6010B	25-May 27-May	TT
Calcium, Total	5300	mg/kg	120	1	6010B	25-May 26-May	LP
Chromium, Total	2500	mg/kg	2.5	1	6010B	25-May 27-May	TT
Cobalt, Total	5.0	mg/kg	5.0	1	6010B	25-May 27-May	TT
Copper, Total	2200	mg/kg	2.5	1	6010B	25-May 27-May	TT
Iron, Total	6600	mg/kg	12.	1	6010B	25-May 27-May	TT
Lead, Total	440	mg/kg	12.	1	6010B	25-May 27-May	TT
Magnesium, Total	1500	mg/kg	25.	1	6010B	25-May 26-May	LP
Manganese, Total	250	mg/kg	2.5	1	6010B	25-May 27-May	TT
Mercury, Total	4.6	mg/kg	1.6	1	7471A	30-May 31-May	DM
Nickel, Total	18.	mg/kg	6.2	1	6010B	25-May 27-May	TT
Potassium, Total	ND	mg/kg	620	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	5.0	1	6010B	25-May 27-May	TT
Silver, Total	48.	mg/kg	2.5	1	6010B	25-May 27-May	TT
Sodium, Total	410	mg/kg	120	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	5.0	1	6010B	25-May 27-May	TT
Tin, Total	200	mg/kg	12.	1	6010B	25-May 26-May	LP
Vanadium, Total	83.	mg/kg	2.5	1	6010B	25-May 26-May	LP
Zinc, Total	120	mg/kg	12.	1	6010B	25-May 27-May	TT
Polychlorinated Biphenyls				1	8082	26-May 31-May	PB
Aroclor 1221	ND	ug/kg	781.				
Aroclor 1232	ND	ug/kg	781.				
Aroclor 1242/1016	ND	ug/kg	781.				
Aroclor 1248	ND	ug/kg	781.				
Aroclor 1254	6460	ug/kg	781.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-32
T-10-12

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	26-May 31-May	PB
Aroclor 1260	ND	ug/kg	781.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	75.0	%					
Decachlorobiphenyl	54.0	%					

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: L0004054-33
 T-12.1-7
 Sample Matrix: SOIL
 Date Collected: 02-NOV-1999
 Date Received: 24-MAY-2000
 Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory
 Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	20.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	190	1	7196A	30-May	JT
Total Metals				1	3051		
Aluminum, Total	8900	mg/kg	20.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	9.9	1	6010B	25-May 27-May	TT
Arsenic, Total	11.	mg/kg	2.0	1	6010B	25-May 27-May	TT
Barium, Total	110	mg/kg	2.0	1	6010B	25-May 27-May	TT
Beryllium, Total	0.90	mg/kg	0.20	1	6010B	25-May 27-May	TT
Cadmium, Total	5.4	mg/kg	2.0	1	6010B	25-May 27-May	TT
Calcium, Total	4300	mg/kg	99.	1	6010B	25-May 26-May	LP
Chromium, Total	140	mg/kg	2.0	1	6010B	25-May 27-May	TT
Cobalt, Total	9.5	mg/kg	3.9	1	6010B	25-May 27-May	TT
Copper, Total	260	mg/kg	2.0	1	6010B	25-May 27-May	TT
Iron, Total	7700	mg/kg	9.9	1	6010B	25-May 27-May	TT
Lead, Total	460	mg/kg	9.9	1	6010B	25-May 27-May	TT
Magnesium, Total	1400	mg/kg	20.	1	6010B	25-May 26-May	LP
Manganese, Total	1000	mg/kg	2.0	1	6010B	25-May 27-May	TT
Mercury, Total	3.7	mg/kg	1.2	1	7471A	30-May 31-May	DM
Nickel, Total	25.	mg/kg	4.9	1	6010B	25-May 27-May	TT
Potassium, Total	580	mg/kg	490	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	3.9	1	6010B	25-May 27-May	TT
Silver, Total	4.5	mg/kg	2.0	1	6010B	25-May 27-May	TT
Sodium, Total	370	mg/kg	99.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	3.9	1	6010B	25-May 27-May	TT
Tin, Total	20.	mg/kg	9.9	1	6010B	25-May 26-May	LP
Vanadium, Total	37.	mg/kg	2.0	1	6010B	25-May 26-May	LP
Zinc, Total	160	mg/kg	9.9	1	6010B	25-May 27-May	TT
Polychlorinated Biphenyls				1	8082	26-May 31-May	PB
Aroclor 1221	ND	ug/kg	625.				
Aroclor 1232	ND	ug/kg	625.				
Aroclor 1242/1016	ND	ug/kg	625.				
Aroclor 1248	ND	ug/kg	625.				
Aroclor 1254	2160	ug/kg	625.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-33
T-12.1-7

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	26-May 31-May	PB
Aroclor 1260	ND	ug/kg	625.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	77.0	%					
Decachlorobiphenyl	53.0	%					

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: L0004054-34 Date Collected: 01-NOV-1999
 T-13-6 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	29.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	130	1	7196A	30-May	JT
Total Metals				1	3051		
Aluminum, Total	10000	mg/kg	14.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	6.8	1	6010B	25-May 27-May	TT
Arsenic, Total	8.2	mg/kg	1.4	1	6010B	25-May 27-May	TT
Barium, Total	100	mg/kg	1.4	1	6010B	25-May 27-May	TT
Beryllium, Total	0.86	mg/kg	0.14	1	6010B	25-May 27-May	TT
Cadmium, Total	2.8	mg/kg	1.4	1	6010B	25-May 27-May	TT
Calcium, Total	1600	mg/kg	68.	1	6010B	25-May 26-May	LP
Chromium, Total	120	mg/kg	1.4	1	6010B	25-May 27-May	TT
Cobalt, Total	5.4	mg/kg	2.7	1	6010B	25-May 27-May	TT
Copper, Total	150	mg/kg	1.4	1	6010B	25-May 27-May	TT
Iron, Total	7300	mg/kg	6.8	1	6010B	25-May 27-May	TT
Lead, Total	450	mg/kg	6.8	1	6010B	25-May 27-May	TT
Magnesium, Total	1400	mg/kg	14.	1	6010B	25-May 26-May	LP
Manganese, Total	360	mg/kg	1.4	1	6010B	25-May 27-May	TT
Mercury, Total	1.9	mg/kg	0.86	1	7471A	30-May 31-May	DM
Nickel, Total	16.	mg/kg	3.4	1	6010B	25-May 27-May	TT
Potassium, Total	ND	mg/kg	340	1	6010B	25-May 30-May	LP
Selenium, Total	ND	mg/kg	2.7	1	6010B	25-May 27-May	TT
Silver, Total	3.0	mg/kg	1.4	1	6010B	25-May 27-May	TT
Sodium, Total	260	mg/kg	68.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	2.7	1	6010B	25-May 27-May	TT
Tin, Total	16.	mg/kg	6.8	1	6010B	25-May 26-May	LP
Vanadium, Total	26.	mg/kg	1.4	1	6010B	25-May 26-May	LP
Zinc, Total	100	mg/kg	6.8	1	6010B	25-May 27-May	TT
PAH by GC/MS SIM 8270M				1	8270C-M	31-May 01-Jun	MK
Acenaphthene	ND	ug/kg	23.				
2-Chloronaphthalene	ND	ug/kg	23.				
Fluoranthene	250	ug/kg	23.				
Naphthalene	ND	ug/kg	23.				
Benzo(a)anthracene	110	ug/kg	23.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-34
T-13-6

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
PAH by GC/MS SIM 8270M continued				1	8270C-M	31-May 01-Jun	MK
Benzo(a)pyrene	130	ug/kg	23.				
Benzo(b)fluoranthene	110	ug/kg	23.				
Benzo(k)fluoranthene	130	ug/kg	23.				
Chrysene	160	ug/kg	23.				
Acenaphthylene	42.	ug/kg	23.				
Anthracene	26.	ug/kg	23.				
Benzo(ghi)perylene	90.	ug/kg	23.				
Fluorene	ND	ug/kg	23.				
Phenanthrene	120	ug/kg	23.				
Di benzo(a, h)anthracene	28.	ug/kg	23.				
Indeno(1, 2, 3-cd)Pyrene	100	ug/kg	23.				
Pyrene	250	ug/kg	23.				
1-Methylnaphthalene	ND	ug/kg	23.				
2-Methylnaphthalene	ND	ug/kg	23.				
Perylene	29.	ug/kg	23.				
Biphenyl	ND	ug/kg	23.				
2, 6-Dimethylnaphthalene	ND	ug/kg	23.				
1-Methylphenanthrene	35.	ug/kg	23.				
Benzo(e)Pyrene	110	ug/kg	23.				
Surrogate Recovery							
Nitrobenzene-d5	64.0	%					
2-Fluorobiphenyl	34.0	%					
4-Terphenyl -d14	35.0	%					
Polychlorinated Biphenyls				1	8082	25-May 31-May	PB
Aroclor 1221	ND	ug/kg	431.				
Aroclor 1232	ND	ug/kg	431.				
Aroclor 1242/1016	ND	ug/kg	431.				
Aroclor 1248	ND	ug/kg	431.				
Aroclor 1254	435.	ug/kg	431.				
Aroclor 1260	ND	ug/kg	431.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	66.0	%					
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: L0004054-35
 T-12.1-1
 Sample Matrix: SOIL
 Condition of Sample: Satisfactory
 Number & Type of Containers: 1-Amber

Date Collected: 01-NOV-1999
 Date Received: 24-MAY-2000
 Date Reported: 02-JUN-00
 Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	31.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	120	1	7196A	30-May	JT
Total Metals				1	3051		
Aluminum, Total	10000	mg/kg	13.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	6.4	1	6010B	25-May 27-May	TT
Arsenic, Total	7.8	mg/kg	1.3	1	6010B	25-May 27-May	TT
Barium, Total	140	mg/kg	1.3	1	6010B	25-May 27-May	TT
Beryllium, Total	0.96	mg/kg	0.13	1	6010B	25-May 27-May	TT
Cadmium, Total	2.5	mg/kg	1.3	1	6010B	25-May 27-May	TT
Calcium, Total	2700	mg/kg	64.	1	6010B	25-May 26-May	LP
Chromium, Total	160	mg/kg	1.3	1	6010B	25-May 27-May	TT
Cobalt, Total	9.7	mg/kg	2.6	1	6010B	25-May 27-May	TT
Copper, Total	190	mg/kg	1.3	1	6010B	25-May 27-May	TT
Iron, Total	13000	mg/kg	6.4	1	6010B	25-May 27-May	TT
Lead, Total	290	mg/kg	6.4	1	6010B	25-May 27-May	TT
Magnesium, Total	2000	mg/kg	13.	1	6010B	25-May 26-May	LP
Manganese, Total	910	mg/kg	1.3	1	6010B	25-May 27-May	TT
Mercury, Total	2.8	mg/kg	0.81	1	7471A	30-May 31-May	DM
Nickel, Total	18.	mg/kg	3.2	1	6010B	25-May 27-May	TT
Potassium, Total	550	mg/kg	320	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	2.6	1	6010B	25-May 27-May	TT
Silver, Total	7.2	mg/kg	1.3	1	6010B	25-May 27-May	TT
Sodium, Total	240	mg/kg	64.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	2.6	1	6010B	25-May 27-May	TT
Tin, Total	26.	mg/kg	6.4	1	6010B	25-May 26-May	LP
Vanadium, Total	31.	mg/kg	1.3	1	6010B	25-May 26-May	LP
Zinc, Total	140	mg/kg	6.4	1	6010B	25-May 27-May	TT
Polychlorinated Biphenyls				1	8082	26-May 31-May	PB
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	4510	ug/kg	403.				

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-35
 T-12.1-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	26-May 31-May	PB
Aroclor 1260	ND	ug/kg	403.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	83.0	%					
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: L0004054-36 Date Collected: 28-OCT-1999
 T-9-13 Date Received: 24-MAY-2000
 Sample Matrix: SOIL Date Reported: 02-JUN-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Amber

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Solids, Total	25.	%	0.10	30	2540G	26-May	LC
Chromium, Hexavalent	ND	mg/kg	150	1	7196A	30-May	JT
Total Metals				1	3051		
Aluminum, Total	7300	mg/kg	16.	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	7.9	1	6010B	25-May 27-May	TT
Arsenic, Total	8.1	mg/kg	1.6	1	6010B	25-May 27-May	TT
Barium, Total	62.	mg/kg	1.6	1	6010B	25-May 27-May	TT
Beryllium, Total	0.62	mg/kg	0.16	1	6010B	25-May 27-May	TT
Cadmium, Total	ND	mg/kg	1.6	1	6010B	25-May 27-May	TT
Calcium, Total	3800	mg/kg	79.	1	6010B	25-May 26-May	LP
Chromium, Total	56.	mg/kg	1.6	1	6010B	25-May 27-May	TT
Cobalt, Total	6.1	mg/kg	3.2	1	6010B	25-May 27-May	TT
Copper, Total	50.	mg/kg	1.6	1	6010B	25-May 27-May	TT
Iron, Total	12000	mg/kg	7.9	1	6010B	25-May 27-May	TT
Lead, Total	340	mg/kg	7.9	1	6010B	25-May 27-May	TT
Magnesium, Total	920	mg/kg	16.	1	6010B	25-May 26-May	LP
Manganese, Total	720	mg/kg	1.6	1	6010B	25-May 27-May	TT
Mercury, Total	ND	mg/kg	1.0	1	7471A	30-May 31-May	DM
Nickel, Total	14.	mg/kg	3.9	1	6010B	25-May 27-May	TT
Potassium, Total	ND	mg/kg	390	1	6010B	25-May 30-May	LP
Selenium, Total	ND	mg/kg	3.2	1	6010B	25-May 27-May	TT
Silver, Total	ND	mg/kg	1.6	1	6010B	25-May 27-May	TT
Sodium, Total	160	mg/kg	79.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	3.2	1	6010B	25-May 27-May	TT
Tin, Total	14.	mg/kg	7.9	1	6010B	25-May 26-May	LP
Vanadium, Total	33.	mg/kg	1.6	1	6010B	25-May 26-May	LP
Zinc, Total	110	mg/kg	7.9	1	6010B	25-May 27-May	TT
Polychlorinated Biphenyls				1	8082	26-May 31-May	PB
Aroclor 1221	ND	ug/kg	500.				
Aroclor 1232	ND	ug/kg	500.				
Aroclor 1242/1016	ND	ug/kg	500.				
Aroclor 1248	ND	ug/kg	500.				
Aroclor 1254	1270	ug/kg	500.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0004054-36
T-9-13

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls continued				1	8082	26-May 31-May	PB
Aroclor 1260	ND	ug/kg	500.				
Surrogate Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	88.0	%					
Decachlorobiphenyl	63.0	%					

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0004054

Parameter	Value 1	Value 2	RPD	Units
Solids, Total for sample(s) 01-16 (L0004054-16, WG55729)				
Solids, Total	31.	35.	12	%
Solids, Total for sample(s) 17-23, 25-36 (L0004054-36, WG55730)				
Solids, Total	25.	26.	4	%
Solids, Total for sample(s) 24 (L0004048-08, WG55854)				
Solids, Total	84.	83.	1	%
Chromium, Hexavalent for sample(s) 01-06, 08-11, 13 (L0004054-09, WG55665)				
Chromium, Hexavalent	ND	ND	NC	mg/kg
Chromium, Hexavalent for sample(s) 14, 16-23, 25 (L0004054-19, WG55816)				
Chromium, Hexavalent	ND	ND	NC	mg/kg
Chromium, Hexavalent for sample(s) 24, 26-36 (L0004054-31, WG55884)				
Chromium, Hexavalent	ND	ND	NC	mg/kg
Total Metals for sample(s) 01-06, 08-11, 13 (L0004054-01, WG55734)				
Aluminum, Total	9700	12000	21	mg/kg
Antimony, Total	ND	ND	NC	mg/kg
Arsenic, Total	11.	12.	9	mg/kg
Barium, Total	150	160	6	mg/kg
Beryllium, Total	0.91	0.99	8	mg/kg
Cadmium, Total	2.1	2.1	0	mg/kg
Calcium, Total	3100	3000	3	mg/kg
Chromium, Total	73.	78.	7	mg/kg
Cobalt, Total	13.	14.	7	mg/kg
Copper, Total	86.	89.	3	mg/kg
Iron, Total	12000	13000	8	mg/kg
Lead, Total	330	340	3	mg/kg
Magnesium, Total	1900	2400	23	mg/kg
Manganese, Total	1500	1500	0	mg/kg
Nickel, Total	18.	21.	15	mg/kg
Potassium, Total	600	890	39	mg/kg
Selenium, Total	ND	ND	NC	mg/kg
Silver, Total	ND	1.2	NC	mg/kg
Sodium, Total	200	250	22	mg/kg
Thallium, Total	ND	ND	NC	mg/kg
Tin, Total	15.	13.	14	mg/kg
Vanadium, Total	40.	44.	10	mg/kg
Zinc, Total	120	130	8	mg/kg
Total Metals for sample(s) 14, 16-25, 32 (L0004054-14, WG55739)				
Aluminum, Total	6200	6000	3	mg/kg
Antimony, Total	ND	ND	NC	mg/kg
Arsenic, Total	13.	13.	0	mg/kg
Barium, Total	49.	48.	2	mg/kg
Beryllium, Total	0.54	0.53	2	mg/kg

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0004054

Continued

Parameter	Value 1	Value 2	RPD	Units
Total Metals for sample(s) 14, 16-25, 32 (L0004054-14, WG55739)				
Cadmium, Total	3.4	3.2	6	mg/kg
Calcium, Total	4100	4000	2	mg/kg
Chromium, Total	1100	1100	0	mg/kg
Cobalt, Total	ND	ND	NC	mg/kg
Copper, Total	1100	1000	10	mg/kg
Iron, Total	5500	5900	7	mg/kg
Lead, Total	350	340	3	mg/kg
Magnesium, Total	870	860	1	mg/kg
Manganese, Total	230	280	20	mg/kg
Nickel, Total	20.	20.	0	mg/kg
Potassium, Total	ND	ND	NC	mg/kg
Selenium, Total	ND	ND	NC	mg/kg
Silver, Total	39.	37.	5	mg/kg
Sodium, Total	340	330	3	mg/kg
Thallium, Total	ND	ND	NC	mg/kg
Tin, Total	130	130	0	mg/kg
Vanadium, Total	67.	64.	5	mg/kg
Zinc, Total	150	140	7	mg/kg
Total Metals for sample(s) 26-36 (L0004054-26, WG55737)				
Aluminum, Total	8900	8900	0	mg/kg
Antimony, Total	ND	ND	NC	mg/kg
Arsenic, Total	11.	11.	0	mg/kg
Barium, Total	52.	54.	4	mg/kg
Beryllium, Total	0.93	0.92	1	mg/kg
Cadmium, Total	2.3	2.6	12	mg/kg
Calcium, Total	2200	2400	9	mg/kg
Chromium, Total	89.	89.	0	mg/kg
Cobalt, Total	3.9	4.4	12	mg/kg
Copper, Total	130	130	0	mg/kg
Iron, Total	5400	5800	7	mg/kg
Lead, Total	290	290	0	mg/kg
Magnesium, Total	1000	1100	10	mg/kg
Manganese, Total	140	140	0	mg/kg
Nickel, Total	14.	14.	0	mg/kg
Potassium, Total	ND	ND	NC	mg/kg
Selenium, Total	ND	ND	NC	mg/kg
Silver, Total	2.2	2.3	4	mg/kg
Sodium, Total	360	380	5	mg/kg
Thallium, Total	ND	ND	NC	mg/kg
Tin, Total	11.	16.	37	mg/kg
Vanadium, Total	31.	33.	6	mg/kg
Zinc, Total	54.	57.	5	mg/kg
Total Metals for sample(s) 01-06, 08-11, 13-14, 16 (L0004011-01, WG55871)				
Mercury, Total	ND	ND	NC	mg/kg

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0004054

Continued

Parameter	Value 1	Value 2	RPD	Units
Total Metals for sample(s) 17-36 (L0004054-18, WG55890)				
Mercury, Total	ND	ND	NC	mg/kg
Polychlorinated Biphenyls for sample(s) 01-02, 08-09, 11, 14, 16-17, 23, 25, 27, 31, 34 (L0004054-01, WG55890)				
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	1500	2090	33	ug/kg
Aroclor 1260	ND	ND	NC	ug/kg
Surrogate Recovery				
2, 4, 5, 6-Tetrachloro-m-xylene	94.0	92.0	2	%
Decachlorobiphenyl	74.0	68.0	8	%
Polychlorinated Biphenyls for sample(s) 03-06, 10, 13, 18-22, 24, 26, 28-30, 32-33, 35-36 (L0004054-24, WG55890)				
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	1680	1330	23	ug/kg
Aroclor 1260	ND	ND	NC	ug/kg
Surrogate Recovery				
2, 4, 5, 6-Tetrachloro-m-xylene	86.0	95.0	10	%
Decachlorobiphenyl	58.0	70.0	19	%

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0004054

Parameter	% Recovery
Chromium, Hexavalent LCS for sample(s) 01-06,08-11,13 (WG55665)	
Chromium, Hexavalent	98
Chromium, Hexavalent LCS for sample(s) 14,16-23,25 (WG55816)	
Chromium, Hexavalent	95
Chromium, Hexavalent LCS for sample(s) 24,26-36 (WG55884)	
Chromium, Hexavalent	96
Total Metals LCS for sample(s) 01-06,08-11,13 (WG55734)	
Aluminum, Total	110
Antimony, Total	95
Arsenic, Total	110
Barium, Total	98
Beryllium, Total	100
Cadmium, Total	100
Calcium, Total	98
Chromium, Total	93
Cobalt, Total	98
Copper, Total	99
Iron, Total	93
Lead, Total	100
Magnesium, Total	97
Manganese, Total	120
Nickel, Total	99
Potassium, Total	98
Selenium, Total	100
Silver, Total	96
Sodium, Total	96
Thallium, Total	100
Tin, Total	99
Vanadium, Total	97
Zinc, Total	100
Total Metals LCS for sample(s) 26-36 (WG55737)	
Aluminum, Total	110
Antimony, Total	100
Arsenic, Total	110
Barium, Total	95
Beryllium, Total	100
Cadmium, Total	100
Calcium, Total	100
Chromium, Total	100
Cobalt, Total	100
Copper, Total	110
Iron, Total	103
Lead, Total	100
Magnesium, Total	99
Manganese, Total	120

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0004054

Continued

Parameter	% Recovery
Total Metals LCS for sample(s) 26-36 (WG55737)	
Nickel, Total	99
Potassium, Total	110
Selenium, Total	100
Silver, Total	100
Sodium, Total	100
Thallium, Total	100
Tin, Total	94
Vanadium, Total	99
Zinc, Total	110
Total Metals LCS for sample(s) 14, 16-25, 32 (WG55739)	
Aluminum, Total	110
Antimony, Total	97
Arsenic, Total	100
Barium, Total	95
Beryllium, Total	100
Cadmium, Total	100
Calcium, Total	100
Chromium, Total	98
Cobalt, Total	98
Copper, Total	100
Iron, Total	82
Lead, Total	98
Magnesium, Total	98
Manganese, Total	110
Nickel, Total	97
Potassium, Total	89
Selenium, Total	95
Silver, Total	97
Sodium, Total	93
Thallium, Total	100
Tin, Total	97
Vanadium, Total	98
Zinc, Total	100
Total Metals LCS for sample(s) 01-06, 08-11, 13-14, 16 (WG55871)	
Mercury, Total	106
Total Metals LCS for sample(s) 17-36 (WG55890)	
Mercury, Total	105
PAH by GC/MS SIM 8270M LCS for sample(s) 01-02, 07-09, 11-12, 14-17, 23, 25, 27, 31, 34 (WG55951)	
Acenaphthene	91
Pyrene	92
Surrogate Recovery	
Nitrobenzene-d5	100
2-Fluorophenyl	88

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0004054

Continued

Parameter	% Recovery
PAH by GC/MS SIM 8270M LCS for sample(s) 01-02, 07-09, 11-12, 14-17, 23, 25, 27, 31, 34 (WG55951)	
4-Terphenyl -d14	93
Polychlorinated Biphenyls LCS for sample(s) 01-02, 08-09, 11, 14, 16-17, 23, 25, 27, 31, 34 (WG55674)	
Aroclor 1242/1016	59
Aroclor 1260	63
Surrogate Recovery	
2, 4, 5, 6-Tetrachloro-m-xylene	85
Decachlorobiphenyl	71
Polychlorinated Biphenyls LCS for sample(s) 03-06, 10, 13, 18-22, 24, 26, 28-30, 32-33, 35-36 (WG55869)	
Aroclor 1242/1016	106
Aroclor 1260	80
Surrogate Recovery	
2, 4, 5, 6-Tetrachloro-m-xylene	100
Decachlorobiphenyl	88
Chromium, Hexavalent SPIKE for sample(s) 01-06, 08-11, 13 (L0004054-01, WG55665)	
Chromium, Hexavalent	82
Chromium, Hexavalent SPIKE for sample(s) 14, 16-23, 25 (L0004054-21, WG55816)	
Chromium, Hexavalent	84
Chromium, Hexavalent SPIKE for sample(s) 24, 26-36 (L0004054-35, WG55884)	
Chromium, Hexavalent	87
Total Metals SPIKE for sample(s) 01-06, 08-11, 13 (L0004054-02, WG55734)	
Aluminum, Total	430
Antimony, Total	70
Arsenic, Total	86
Barium, Total	86
Beryllium, Total	100
Cadmium, Total	96
Calcium, Total	86
Chromium, Total	86
Cobalt, Total	95
Copper, Total	100
Iron, Total	860
Lead, Total	67
Magnesium, Total	100
Manganese, Total	34
Nickel, Total	98
Potassium, Total	90
Selenium, Total	130
Silver, Total	94
Sodium, Total	93
Thallium, Total	94

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0004054

Continued

Parameter	% Recovery
Total Metals SPIKE for sample(s) 01-06, 08-11, 13 (L0004054-02, WG55734)	
Tin, Total	96
Vanadium, Total	93
Zinc, Total	86
Total Metals SPIKE for sample(s) 26-36 (L0004054-27, WG55737)	
Aluminum, Total	180
Antimony, Total	58
Arsenic, Total	88
Barium, Total	85
Beryllium, Total	95
Cadmium, Total	97
Calcium, Total	92
Chromium, Total	88
Cobalt, Total	100
Copper, Total	110
Iron, Total	105
Lead, Total	97
Magnesium, Total	99
Manganese, Total	99
Nickel, Total	93
Potassium, Total	110
Selenium, Total	110
Silver, Total	110
Sodium, Total	99
Thallium, Total	83
Tin, Total	92
Vanadium, Total	95
Zinc, Total	93
Total Metals SPIKE for sample(s) 14, 16-25, 32 (L0004054-16, WG55739)	
Aluminum, Total	0
Antimony, Total	81
Arsenic, Total	98
Barium, Total	92
Beryllium, Total	96
Cadmium, Total	95
Calcium, Total	70
Chromium, Total	86
Cobalt, Total	95
Copper, Total	100
Iron, Total	46
Lead, Total	77
Magnesium, Total	79
Manganese, Total	0
Nickel, Total	92
Potassium, Total	84
Selenium, Total	120
Silver, Total	110

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0004054

Continued

Parameter	% Recovery
Total Metals SPIKE for sample(s) 14, 16-25, 32 (L0004054-16, WG55739)	
Sodium, Total	90
Thallium, Total	94
Tin, Total	86
Vanadium, Total	91
Zinc, Total	81
Total Metals SPIKE for sample(s) 01-06, 08-11, 13-14, 16 (L0004011-02, WG55871)	
Mercury, Total	98
Total Metals SPIKE for sample(s) 17-36 (L0004054-19, WG55890)	
Mercury, Total	102

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0004054

Parameter	MS %	MSD %	RPD
PAH by GC/MS SIM 8270M for sample(s) 01-02, 07-09, 11-12, 14-17, 23, 25, 27, 31, 34 (L0004054-11, WG559)			
Acenaphthene	80	79	1
Pyrene	82	78	5

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0004054

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 01-06,08-11,13							
Chromium, Hexavalent	ND	mg/kg	0.80	1	7196A	25-May	JT
Blank Analysis for sample(s) 14,16-23,25							
Chromium, Hexavalent	ND	mg/kg	0.80	1	7196A	26-May	JT
Blank Analysis for sample(s) 24,26-36							
Chromium, Hexavalent	ND	mg/kg	0.80	1	7196A	30-May	JT
Blank Analysis for sample(s) 01-06,08-11,13							
Total Metals				1	3051		
Aluminum, Total	ND	mg/kg	4.0	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	2.0	1	6010B	25-May 26-May	TT
Arsenic, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	TT
Barium, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	TT
Beryllium, Total	ND	mg/kg	0.04	1	6010B	25-May 26-May	TT
Cadmium, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	TT
Calcium, Total	ND	mg/kg	20.	1	6010B	25-May 26-May	LP
Chromium, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	TT
Cobalt, Total	ND	mg/kg	0.80	1	6010B	25-May 26-May	TT
Copper, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	TT
Iron, Total	ND	mg/kg	2.0	1	6010B	25-May 26-May	TT
Lead, Total	ND	mg/kg	2.0	1	6010B	25-May 26-May	TT
Magnesium, Total	ND	mg/kg	4.0	1	6010B	25-May 26-May	LP
Manganese, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	TT
Nickel, Total	ND	mg/kg	1.0	1	6010B	25-May 26-May	TT
Potassium, Total	ND	mg/kg	100	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	0.80	1	6010B	25-May 26-May	TT
Silver, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	TT
Sodium, Total	ND	mg/kg	20.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	0.80	1	6010B	25-May 26-May	TT
Tin, Total	ND	mg/kg	2.0	1	6010B	25-May 26-May	LP
Vanadium, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	LP
Zinc, Total	ND	mg/kg	2.0	1	6010B	25-May 26-May	TT
Blank Analysis for sample(s) 26-36							
Total Metals				1	3051		
Aluminum, Total	ND	mg/kg	4.0	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	2.0	1	6010B	25-May 26-May	TT
Arsenic, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	TT
Barium, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	TT
Beryllium, Total	ND	mg/kg	0.04	1	6010B	25-May 26-May	TT
Cadmium, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	TT
Calcium, Total	ND	mg/kg	20.	1	6010B	25-May 26-May	LP

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0004054

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 26-36							
Total Metals				1	3051		
Chromium, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	TT
Cobalt, Total	ND	mg/kg	0.80	1	6010B	25-May 26-May	TT
Copper, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	TT
Iron, Total	ND	mg/kg	2.0	1	6010B	25-May 26-May	TT
Lead, Total	ND	mg/kg	2.0	1	6010B	25-May 26-May	TT
Magnesium, Total	ND	mg/kg	4.0	1	6010B	25-May 26-May	LP
Manganese, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	TT
Nickel, Total	ND	mg/kg	1.0	1	6010B	25-May 26-May	TT
Potassium, Total	ND	mg/kg	100	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	0.80	1	6010B	25-May 26-May	TT
Silver, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	TT
Sodium, Total	ND	mg/kg	20.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	0.80	1	6010B	25-May 26-May	TT
Tin, Total	ND	mg/kg	2.0	1	6010B	25-May 26-May	LP
Vanadium, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	LP
Zinc, Total	ND	mg/kg	2.0	1	6010B	25-May 26-May	TT
Blank Analysis for sample(s) 14, 16-25, 32							
Total Metals				1	3051		
Aluminum, Total	ND	mg/kg	4.0	1	6010B	25-May 26-May	LP
Antimony, Total	ND	mg/kg	2.0	1	6010B	25-May 26-May	TT
Arsenic, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	TT
Barium, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	TT
Beryllium, Total	ND	mg/kg	0.04	1	6010B	25-May 26-May	TT
Cadmium, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	TT
Calcium, Total	ND	mg/kg	20.	1	6010B	25-May 26-May	LP
Chromium, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	TT
Cobalt, Total	ND	mg/kg	0.80	1	6010B	25-May 26-May	TT
Copper, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	TT
Iron, Total	ND	mg/kg	2.0	1	6010B	25-May 26-May	TT
Lead, Total	ND	mg/kg	2.0	1	6010B	25-May 26-May	TT
Magnesium, Total	ND	mg/kg	4.0	1	6010B	25-May 26-May	LP
Manganese, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	TT
Nickel, Total	ND	mg/kg	1.0	1	6010B	25-May 26-May	TT
Potassium, Total	ND	mg/kg	100	1	6010B	25-May 26-May	LP
Selenium, Total	ND	mg/kg	0.80	1	6010B	25-May 26-May	TT
Silver, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	TT
Sodium, Total	ND	mg/kg	20.	1	6010B	25-May 26-May	LP
Thallium, Total	ND	mg/kg	0.80	1	6010B	25-May 26-May	TT
Tin, Total	ND	mg/kg	2.0	1	6010B	25-May 30-May	LP
Vanadium, Total	ND	mg/kg	0.40	1	6010B	25-May 26-May	LP
Zinc, Total	ND	mg/kg	2.0	1	6010B	25-May 26-May	TT

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0004054

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 01-06, 08-11, 13-14, 16							
Total Metals							
Mercury, Total	ND	mg/kg	0.25	1	7471A	30-May 31-May	DM
Blank Analysis for sample(s) 17-36							
Total Metals							
Mercury, Total	ND	mg/kg	0.25	1	7471A	30-May 31-May	DM
Blank Analysis for sample(s) 01-02, 08-09, 11, 14, 16-17, 23, 25, 27, 31, 34							
Polychlorinated Biphenyls				1	8082	25-May 30-May	PB
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 Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	88.0	%					
Decachlorobiphenyl	86.0	%					
Blank Analysis for sample(s) 03-06, 10, 13, 18-22, 24, 26, 28-30, 32-33, 35-36							
Polychlorinated Biphenyls				1	8082	26-May 31-May	PB
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 Recovery							
2, 4, 5, 6-Tetrachloro-m-xylene	92.0	%					
Decachlorobiphenyl	81.0	%					

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

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.

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.

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 2346

Sheet 1 of 4
 Date Rec'd in Lab: 9/26

Client Name: ERM
 Client Address: 389 Baylston St. Floor 6
Boston, MA 02114
 Phone #: 617-267-8377 FAX #: 617-267-6447

Project Name: Raytheon Wpt
 Project Location: Weyland
 Project #: 143.51
 Project Manager: R. Chernail

Report To: R. Chernail
 Bill To: _____
 PO#: _____

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

Comments (Please note specific method, detection limit or reporting requirements.)
 Note: Metals extended list:
 call Rachel Chernail

ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	PAHs	PCBs	Metals - Extended List										
T-14-7	S	11/2/99	/	LA		X	X	X										
T-14-6		11/1/99	/			0	X	X										
T-14-6		11/2/99	/				X	X										
T-13-8		11/2/99	/				X	X										
T-12-5		11/1/99	/				X	X										
T-10-8		10/29/99	/				0	X										
T-5-12		10/29/99	/			X												
T-10-7		10/29/99	/			X	X	X										
T-9-6		10/29/99	/			X	X	X										
T-10-9		11/2/99	/				X	X										
T-2-F		10/29/99	/			0	X	X										

Transfers Relinquished By:	Date	Time
<i>[Signature]</i>	11/2/99	4:17
<i>[Signature]</i>	10/26/99	10:05

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: 11
 Container Type: * A
 Preservative: *

ALPHA Analytical Laboratories, Inc.

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 PH: 508.898.9220 FAX: 508.898.9193 www.alphalab.com

CHAIN OF CUSTODY

No 2347

Sheet 2 of 4 Date Rec'd in Lab: 5/24

Client Name: ERM
 Client Address: 379 Boylston St, Fl 6
Boston, MA 02116
 Phone #: 617-267-8377 FAX #: 617-267-1047

Project Name: Raytheon-Wet
 Project Location: Weyland
 Project #: 143.51
 Project Manager: R Chenail

Report To: R Chenail
 Bill To: _____
 PO#: _____

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

Comments (Please note specific method, detection limit or reporting requirements.)
Note: metals - extended list, please call Rachel Chenail

ANALYSIS REQUEST

Sample ID	Matrix/Source*	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	PAHs	PCBs	metals-Extended List									
T-3-11	S	10/29/99	/	LA		X											
T-9-7		10/29/99	/				X	X									
T-10-11		10/29/99	/			X	X	X									
T-3-13		11/1/99	/			X											
T-9-14		11/1/99	/			X	X	X									
T-7-12		11/1/99	/			X	X	X									
T-12-11		11/1/99	/				X	X									
T-12-8		11/1/99	/				X	X									
T-12-1-4		11/1/99	/				X	X									
T-12-6		11/1/99	/				X	X									
T-12-13		11/1/99	/				X	X									

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

of Containers: 11
 Container Type: * A
 Preservative: A

Transfers Accepted By:	Date	Time
<i>[Signature]</i>	<u>5/24/00</u>	<u>11:15</u>
<i>[Signature]</i>	<u>5/24/00</u>	<u>11:15</u>
<i>[Signature]</i>		
<i>[Signature]</i>		
<i>[Signature]</i>		
<i>[Signature]</i>		

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CHAIN OF CUSTODY

No 2341

Sheet 2 of 4

Date Rec'd in Lab: 5/26

Client Name: ERM
 Client Address: 399 Bay/ston St Fl 6
Boston, MA 02116
 Phone #: 617-267-8377 FAX #: 617-267-6447

Project Name: Raytheon Wet
 Project Location: Weyland
 Project #: 143.51
 Project Manager: R. Chenaill

Report To: R. Chenaill
 Bill To: _____
 PO#: _____

- Standard TAT
 RUSH TAT _____ (in DAYS)
 FAX Results
 State Forms
 Smart Report

Comments (Please note specific method, detection limit or reporting requirements.)
Note: Metals - Extended List -
Please call Robert Chenaill

ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	PAHS	PCBS	Metals - Extended List							
T-13-6	S	11/1/99	/	LA		X	X	X							
T-12.1-1		11/1/99	/				X	X							
T-9-13		10/26/99	/				X	X							
			/												
			/												
			/												
			/												
			/												
			/												

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

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

of Containers: 3
 Container Type: * A
 Preservative: A

Transfers Accepted By: [Signature]
 Date: 5/26/00
 Time: 11:00 AM
 Transfers Relinquished By: [Signature]

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: L0107937
Address: 399 Boylston Street Invoice Number: 54095
6th Floor
Boston, MA 02116 Date Received: 27-AUG-01
Attn: Mr. Joe Fiacco Date Reported: 04-SEP-01
Project Number: 143.56 Delivery Method: Alpha
Site: RAYTHEON-WAYLAND

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0107937-01	DUP-1	WAYLAND, MA
L0107937-02	MW-106	WAYLAND, MA
L0107937-03	MW-104	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: James R. Roth, PhD

James R. Roth, PhD - Laboratory Manager
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0107937-01	Date Collected: 27-AUG-2001 08:30
	Date Received: 27-AUG-2001
Sample Matrix: DUP-1 WATER	Date Reported: 04-SEP-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Plastic, 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	0.76	mg/l	0.20	30 4500F-BC	0830 11:25	0831 14:30	MA
Dissolved Metals							
Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0827 20:00	0830 16:55	RW
Manganese, Dissolved	0.82	mg/l	0.01	1 6010B	0827 20:00	0830 16:55	RW
Volatile Organics by GC 8021							
Bromodichloromethane	ND	ug/l	0.50	1 8021B	0830 13:35		RY
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	12.	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	1.8	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	66.	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0107937-01
DUP-1

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
Volatile Organics by GC 8021 continued				1	8021B	0830	13:35 RY
Surrogate Recovery							
4-Bromochlorobenzene	92.0	%					

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: L0107937-02	Date Collected: 27-AUG-2001 13:40
	Date Received : 27-AUG-2001
Sample Matrix: MW-106 WATER	Date Reported : 04-SEP-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Plastic, 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	0.30	mg/l	0.20	30 4500F-BC	0830 11:25	0831 14:30	MA
Dissolved Metals							
Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0827 20:00	0830 17:00	RW
Manganese, Dissolved	0.52	mg/l	0.01	1 6010B	0827 20:00	0830 17:00	RW
Volatile Organics by GC 8021							
				1 8021B	0831 10:42		RY
Bromodichloromethane	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.5				
Carbon tetrachloride	ND	ug/l	2.5				
Chlorobenzene	ND	ug/l	2.5				
Dibromochloromethane	ND	ug/l	25.				
Bromomethane/Chloroethane	ND	ug/l	25.				
Chloroform	ND	ug/l	2.5				
Chloromethane/Vinyl chloride	ND	ug/l	25.				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Dichlorodifluoromethane	ND	ug/l	25.				
1,1-Dichloroethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	2.5				
1,1-Dichloroethene	ND	ug/l	2.5				
cis-1,2-Dichloroethene	ND	ug/l	2.5				
trans-1,2-Dichloroethene	ND	ug/l	2.5				
1,2-Dichloropropane	ND	ug/l	2.5				
cis-1,3-Dichloropropene	ND	ug/l	2.5				
trans-1,3-Dichloropropene	ND	ug/l	2.5				
Methylene chloride	ND	ug/l	25.				
1,1,2,2-Tetrachloroethane	ND	ug/l	2.5				
Tetrachloroethene	3.3	ug/l	2.5				
1,1,1-Trichloroethane	ND	ug/l	2.5				
1,1,2-Trichloroethane	ND	ug/l	2.5				
Trichloroethene	160	ug/l	2.5				
Trichlorofluoromethane	ND	ug/l	2.5				
2-Chloroethyl vinyl ether	ND	ug/l	25.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0107937-02
MW-106

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
Volatile Organics by GC 8021 continued				1	8021B	0831	10:42 RY
Surrogate Recovery							
4-Bromochlorobenzene	93.0	%					

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: L0107937-03 Date Collected: 27-AUG-2001 12: 15
 Sample Matrix: MW-104 Date Received : 27-AUG-2001
 WATER Date Reported : 04-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 3-Plastic, 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	0.43	mg/l	0.20	30 4500F-BC	0830 11: 25	0831 14: 30	MA
Dissolved Metals							
Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0827 20: 00	0830 17: 05	RW
Manganese, Dissolved	0.58	mg/l	0.01	1 6010B	0827 20: 00	0830 17: 05	RW
Volatile Organics by GC 8021							
Bromodichloromethane	ND	ug/l	5.0	1 8021B	0831 11: 35		RY
Bromoform	ND	ug/l	5.0				
Carbon tetrachloride	ND	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
Dibromochloromethane	ND	ug/l	50.				
Bromomethane/Chloroethane	ND	ug/l	50.				
Chloroform	ND	ug/l	5.0				
Chloromethane/Vinyl chloride	ND	ug/l	50.				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
Dichlorodifluoromethane	ND	ug/l	50.				
1,1-Dichloroethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	5.0				
1,1-Dichloroethene	ND	ug/l	5.0				
cis-1,2-Dichloroethene	ND	ug/l	5.0				
trans-1,2-Dichloroethene	ND	ug/l	5.0				
1,2-Dichloropropane	ND	ug/l	5.0				
cis-1,3-Dichloropropene	ND	ug/l	5.0				
trans-1,3-Dichloropropene	ND	ug/l	5.0				
Methylene chloride	ND	ug/l	50.				
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0				
Tetrachloroethene	ND	ug/l	5.0				
1,1,1-Trichloroethane	ND	ug/l	5.0				
1,1,2-Trichloroethane	ND	ug/l	5.0				
Trichloroethene	290	ug/l	5.0				
Trichlorofluoromethane	ND	ug/l	5.0				
2-Chloroethyl vinyl ether	ND	ug/l	50.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0107937-03
MW-104

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
Volatile Organics by GC 8021 continued				1	8021B	0831 11:35	RY
Surrogate Recovery							
4-Bromochlorobenzene	85.0	%					

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0107937

Parameter	Value 1	Value 2	RPD	Units
Fluoride for sample(s) 01-03 (L0107935-11, WG91573)				
Fluoride	0.73	0.72	1	mg/l
Dissolved Metals for sample(s) 01-03 (L0107935-01, WG91287)				
Chromium, Dissolved	ND	ND	NC	mg/l
Manganese, Dissolved	0.01	0.01	0	mg/l

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0107937

Parameter	% Recovery
Fluoride LCS for sample(s) 01-03 (WG91573)	
Fluoride	92
Volatile Organics by GC 8021 LCS for sample(s) 02-03 (WG91411)	
Chlorobenzene	108
1,1-Dichloroethene	107
Trichloroethene	102
Surrogate Recovery	
4-Bromochlorobenzene	107
Volatile Organics by GC 8021 LCS for sample(s) 01 (WG91411)	
Chlorobenzene	108
1,1-Dichloroethene	113
Trichloroethene	109
Surrogate Recovery	
4-Bromochlorobenzene	104
Fluoride SPIKE for sample(s) 01-03 (L0107935-02, WG91573)	
Fluoride	79
Dissolved Metals SPIKE for sample(s) 01-03 (L0107935-02, WG91287)	
Chromium, Dissolved	100
Manganese, Dissolved	94

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0107937

Parameter	MS %	MSD %	RPD
Volatile Organics by GC 8021 for sample(s) 01-03 (L0107788-01, WG91411)			
Chlorobenzene	113	110	3
1,1-Dichloroethene	103	97	6
Trichloroethene	91	90	1

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0107937

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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Blank Analysis for sample(s) 01-03

Fluoride	ND	mg/l	0.20	30 4500F-BC	0830 11:25 0831 14:30	MA
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Blank Analysis for sample(s) 01-03

Dissolved Metals

Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0827 20:00 0830 16:06	RW
Manganese, Dissolved	ND	mg/l	0.01	1 6010B	0827 20:00 0830 16:06	RW

Blank Analysis for sample(s) 01

Volatile Organics by GC 8021				1 8021B	0830 09:36	RY
------------------------------	--	--	--	---------	------------	----

Bromodichloromethane	ND	ug/l	0.50
Bromoform	ND	ug/l	0.50
Carbon tetrachloride	ND	ug/l	0.50
Chlorobenzene	ND	ug/l	0.50
Dibromochloromethane	ND	ug/l	5.0
Bromomethane/Chloroethane	ND	ug/l	5.0
Chloroform	ND	ug/l	0.50
Chloromethane/Vinyl chloride	ND	ug/l	5.0
1,2-Dichlorobenzene	ND	ug/l	0.50
1,3-Dichlorobenzene	ND	ug/l	0.50
1,4-Dichlorobenzene	ND	ug/l	0.50
Dichlorodifluoromethane	ND	ug/l	5.0
1,1-Dichloroethane	ND	ug/l	0.50
1,2-Dichloroethane	ND	ug/l	0.50
1,1-Dichloroethene	ND	ug/l	0.50
cis-1,2-Dichloroethene	ND	ug/l	0.50
trans-1,2-Dichloroethene	ND	ug/l	0.50
1,2-Dichloropropane	ND	ug/l	0.50
cis-1,3-Dichloropropene	ND	ug/l	0.50
trans-1,3-Dichloropropene	ND	ug/l	0.50
Methylene chloride	ND	ug/l	5.0
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50
Tetrachloroethene	ND	ug/l	0.50
1,1,1-Trichloroethane	ND	ug/l	0.50
1,1,2-Trichloroethane	ND	ug/l	0.50
Trichloroethene	ND	ug/l	0.50
Trichlorofluoromethane	ND	ug/l	0.50
2-Chloroethyl vinyl ether	ND	ug/l	5.0

Surrogate Recovery

4-Bromochlorobenzene	88.0	%
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Blank Analysis for sample(s) 02-03

Volatile Organics by GC 8021				1 8021B	0831 09:32	RY
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Bromodichloromethane	ND	ug/l	0.50
Bromoform	ND	ug/l	0.50

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0107937

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02-03							
Volatile Organics by GC 8021 continued				1	8021B	0831 09:32 RY	
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Surrogate Recovery							
4-Bromochlorobenzene	81.0	%					

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

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.

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.

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 12529

Sheet ___ of ___

Date Due: 9/14/01

Client Name: ERM
 Client Address: 399 Bayluford St
BOSTON MA 02116
 Phone #: (617) 267-8377 FAX #: (617) 267-6447

Project Name: Waython-Wayland
 Project Location: Wayland, MA
 Project #: 143.56
 Project Manager: JOE FIACCO

Report To: Joe Fiacco
 Bill To: _____
 PO#: 143.56

- Standard TAT
 RUSH TAT _____ (# days)
 FAX Results
 State Forms
 SMART Report

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

ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	VOC's	Chlorinated's	Other's	State									
DUP-1	MW	8.27.01	8.30	CA	N	2	1	1	Florida									
MW-106	↓	↓	13.40	CA	N	2	1	1										
MW-104	↓	↓	12.15	CA	N	2	1	1										
MW-103				CA	N													

Transfers Relinquished By:	Transfers Accepted By:	Date	Time
<i>[Signature]</i>	<i>[Signature]</i>	8/27/01	11:25
<i>[Signature]</i>	<i>[Signature]</i>	9/14/01	12:25

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:	6	3	3
Container Type: *	V	P	P
Preservative: *	B	A	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 NY: 11148

CERTIFICATE OF ANALYSIS

Client: ERM-New England Laboratory Job Number: L0107935
Address: 399 Boylston Street Invoice Number: 54100
6th Floor
Boston, MA 02116 Date Received: 27-AUG-01
Attn: Mr. Joe Fiacco Date Reported: 04-SEP-01
Project Number: 143.56 Delivery Method: Alpha
Site: RAYTHEON-WAYLAND

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0107935-01	MW-33S	WAYLAND, MA
L0107935-02	MW-33M	WAYLAND, MA
L0107935-03	MW-33D	WAYLAND, MA
L0107935-04	MW-33B	WAYLAND, MA
L0107935-05	MW-43S	WAYLAND, MA
L0107935-06	MW-43D	WAYLAND, MA
L0107935-07	MW-42S	WAYLAND, MA
L0107935-08	MW-44S	WAYLAND, MA
L0107935-09	MW-44M	WAYLAND, MA
L0107935-10	MW-44D	WAYLAND, MA
L0107935-11	SMW-105	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: James R. Roth, PhD

James R. Roth, PhD - Laboratory Manager
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0107935-01 Date Collected: 27-AUG-2001 14:45
 MW-33S Date Received: 27-AUG-2001
 Sample Matrix: WATER Date Reported: 04-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Plastic, 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	0.39	mg/l	0.20	30 4500F-BC	0830 11:25	0831 14:30	MA
Dissolved Metals							
Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0827 20:00	0830 16:11	RW
Manganese, Dissolved	0.01	mg/l	0.01	1 6010B	0827 20:00	0830 16:11	RW
Volatile Organics by GC 8021							
Bromodichloromethane	ND	ug/l	2.5	1 8021B	0829 21:10		RY
Bromoform	ND	ug/l	2.5				
Carbon tetrachloride	ND	ug/l	2.5				
Chlorobenzene	ND	ug/l	2.5				
Dibromochloromethane	ND	ug/l	25.				
Bromomethane/Chloroethane	ND	ug/l	25.				
Chloroform	ND	ug/l	2.5				
Chloromethane/Vinyl chloride	ND	ug/l	25.				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Dichlorodifluoromethane	ND	ug/l	25.				
1,1-Dichloroethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	2.5				
1,1-Dichloroethene	ND	ug/l	2.5				
cis-1,2-Dichloroethene	ND	ug/l	2.5				
trans-1,2-Dichloroethene	ND	ug/l	2.5				
1,2-Dichloropropane	ND	ug/l	2.5				
cis-1,3-Dichloropropene	ND	ug/l	2.5				
trans-1,3-Dichloropropene	ND	ug/l	2.5				
Methylene chloride	ND	ug/l	25.				
1,1,2,2-Tetrachloroethane	ND	ug/l	2.5				
Tetrachloroethene	ND	ug/l	2.5				
1,1,1-Trichloroethane	78.	ug/l	2.5				
1,1,2-Trichloroethane	ND	ug/l	2.5				
Trichloroethene	240	ug/l	2.5				
Trichlorofluoromethane	ND	ug/l	2.5				
2-Chloroethyl vinyl ether	ND	ug/l	25.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0107935-01
MW-33S

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
Volatile Organics by GC 8021 continued				1	8021B	0829 21:10	RY
Surrogate Recovery							
4-Bromochlorobenzene	100.	%					

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: L0107935-02 Date Collected: 27-AUG-2001 15:00
 Sample Matrix: MW-33M Date Received: 27-AUG-2001
 WATER Date Reported: 04-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Plastic, 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	0.28	mg/l	0.20	30 4500F-BC	0830 11:25	0831 14:30	MA
Dissolved Metals							
Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0827 20:00	0830 16:22	RW
Manganese, Dissolved	0.73	mg/l	0.01	1 6010B	0827 20:00	0830 16:22	RW
Volatile Organics by GC 8021							
Bromodichloromethane	ND	ug/l	0.50	1 8021B	0829 22:03		RY
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	3.1	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0107935-02
MW-33M

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
Volatile Organics by GC 8021 continued				1	8021B		
Surrogate Recovery							
4-Bromochlorobenzene	84.0	%					

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: L0107935-03 Date Collected: 27-AUG-2001 14:15
 MW-33D Date Received: 27-AUG-2001
 Sample Matrix: WATER Date Reported: 04-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0829 22:55 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

Surrogate Recovery

4-Bromochlorobenzene 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: L0107935-04 Date Collected: 27-AUG-2001 15:45
 MW-33B Date Received: 27-AUG-2001
 Sample Matrix: WATER Date Reported: 04-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0829 23:48 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

Surrogate Recovery

4-Bromochlorobenzene 87.0 %

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: L0107935-05 Date Collected: 27-AUG-2001 11:00
 Sample Matrix: MW-43S Date Received: 27-AUG-2001
 WATER Date Reported: 04-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Plastic, 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	1.2	mg/l	0.20	30 4500F-BC	0830 11:25	0831 14:30	MA
Dissolved Metals							
Chromium, Dissolved	0.01	mg/l	0.01	1 6010B	0827 20:00	0830 16:32	RW
Manganese, Dissolved	ND	mg/l	0.01	1 6010B	0827 20:00	0830 16:32	RW
Volatile Organics by GC 8021							
Bromodichloromethane	ND	ug/l	5.0	1 8021B	0830 00:40		RY
Bromoform	ND	ug/l	5.0				
Carbon tetrachloride	ND	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
Dibromochloromethane	ND	ug/l	50.				
Bromomethane/Chloroethane	ND	ug/l	50.				
Chloroform	ND	ug/l	5.0				
Chloromethane/Vinyl chloride	ND	ug/l	50.				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
Dichlorodifluoromethane	ND	ug/l	50.				
1,1-Dichloroethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	5.0				
1,1-Dichloroethene	ND	ug/l	5.0				
cis-1,2-Dichloroethene	ND	ug/l	5.0				
trans-1,2-Dichloroethene	ND	ug/l	5.0				
1,2-Dichloropropane	ND	ug/l	5.0				
cis-1,3-Dichloropropene	ND	ug/l	5.0				
trans-1,3-Dichloropropene	ND	ug/l	5.0				
Methylene chloride	ND	ug/l	50.				
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0				
Tetrachloroethene	5.8	ug/l	5.0				
1,1,1-Trichloroethane	ND	ug/l	5.0				
1,1,2-Trichloroethane	ND	ug/l	5.0				
Trichloroethene	290	ug/l	5.0				
Trichlorofluoromethane	ND	ug/l	5.0				
2-Chloroethyl vinyl ether	ND	ug/l	50.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0107935-05
MW-43S

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
Volatile Organics by GC 8021 continued				1	8021B	0830	00:40 RY
Surrogate Recovery							
4-Bromochlorobenzene	85.0	%					

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: L0107935-06 Date Collected: 27-AUG-2001 11:30
 MW-43D Date Received: 27-AUG-2001
 Sample Matrix: WATER Date Reported: 04-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0830 01:33 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

Surrogate Recovery

4-Bromochlorobenzene 89.0 %

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: L0107935-07	Date Collected: 27-AUG-2001 11:45
	Date Received : 27-AUG-2001
Sample Matrix: MW-42S WATER	Date Reported : 04-SEP-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by GC 8021				1 8021B	0830 03:18 RY	
Bromodichloromethane	ND	ug/l	0.50			
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromodichloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	ND	ug/l	0.50			
Chloromethane/Vinyl chloride	ND	ug/l	5.0			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	1.3	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	4.0	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethyl vinyl ether	ND	ug/l	5.0			

Surrogate Recovery

4-Bromochlorobenzene	83.0	%
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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: L0107935-08 Date Collected: 27-AUG-2001 12:30
 MW-44S Date Received: 27-AUG-2001
 Sample Matrix: WATER Date Reported: 04-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0830 04:11 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	0.78	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

Surrogate Recovery

4-Bromochlorobenzene 84.0 %

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: L0107935-09 Date Collected: 27-AUG-2001 12:35
 MW-44M Date Received: 27-AUG-2001
 Sample Matrix: WATER Date Reported: 04-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0830 11:50		RY
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

Surrogate Recovery

4-Bromochlorobenzene 87.0 %

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: L0107935-10	Date Collected: 27-AUG-2001 12:45
	Date Received: 27-AUG-2001
Sample Matrix: MW-44D WATER	Date Reported: 04-SEP-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by GC 8021				1 8021B	0830 12:42	RY
Bromodichloromethane	ND	ug/l	0.50			
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromodichloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	ND	ug/l	0.50			
Chloromethane/Vinyl chloride	ND	ug/l	5.0			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethyl vinyl ether	ND	ug/l	5.0			

Surrogate Recovery

4-Bromochlorobenzene	86.0	%
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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: L0107935-11 Date Collected: 27-AUG-2001 14:45
 SMW-105 Date Received: 27-AUG-2001
 Sample Matrix: WATER Date Reported: 04-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Plastic, 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	0.73	mg/l	0.20	30 4500F-BC	0830 11:25	0831 14:30	MA
Dissolved Metals							
Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0827 20:00	0830 16:37	RW
Manganese, Dissolved	0.76	mg/l	0.01	1 6010B	0827 20:00	0830 16:37	RW
Volatile Organics by GC 8021							
Bromodichloromethane	ND	ug/l	1.0	1 8021B	0831 12:28		RY
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	12.	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	1.8	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	60.	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0107935-11
SMW-105

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
Volatile Organics by GC 8021 continued				1	8021B	0831 12:28	RY
Surrogate Recovery							
4-Bromochlorobenzene	82.0	%					

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

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0107935

Parameter	Value 1	Value 2	RPD	Units
Fluoride for sample(s) 01-02, 05, 11 (L0107935-11, WG91573)				
Fluoride	0.73	0.72	1	mg/l
Dissolved Metals for sample(s) 01-02, 05, 11 (L0107935-01, WG91287)				
Chromium, Dissolved	ND	ND	NC	mg/l
Manganese, Dissolved	0.01	0.01	0	mg/l

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0107935

Parameter	% Recovery
Fluoride LCS for sample(s) 01-02, 05, 11 (WG91573)	
Fluoride	92
Volatile Organics by GC 8021 LCS for sample(s) 01-08 (WG91411)	
Chlorobenzene	109
1,1-Dichloroethene	106
Trichloroethene	106
Surrogate Recovery	
4-Bromochlorobenzene	98
Volatile Organics by GC 8021 LCS for sample(s) 11 (WG91653)	
Chlorobenzene	108
1,1-Dichloroethene	107
Trichloroethene	102
Surrogate Recovery	
4-Bromochlorobenzene	107
Volatile Organics by GC 8021 LCS for sample(s) 09-10 (WG91411)	
Chlorobenzene	108
1,1-Dichloroethene	113
Trichloroethene	109
Surrogate Recovery	
4-Bromochlorobenzene	104
Fluoride SPIKE for sample(s) 01-02, 05, 11 (L0107935-02, WG91573)	
Fluoride	79
Dissolved Metals SPIKE for sample(s) 01-02, 05, 11 (L0107935-02, WG91287)	
Chromium, Dissolved	100
Manganese, Dissolved	94

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0107935

Parameter	MS %	MSD %	RPD
Volatile Organics by GC 8021 for sample(s) 01-10 (L0107788-01, WG91411)			
Chlorobenzene	113	110	3
1,1-Dichloroethene	103	97	6
Trichloroethene	91	90	1
Volatile Organics by GC 8021 for sample(s) 11 (L0107953-01, WG91653)			
Chlorobenzene	111	117	5
1,1-Dichloroethene	104	99	5
Trichloroethene	92	89	3

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0107935

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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Blank Analysis for sample(s) 01-02, 05, 11

Fluoride	ND	mg/l	0.20	30 4500F-BC	0830 11:25 0831 14:30 MA	
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Blank Analysis for sample(s) 01-02, 05, 11

Dissolved Metals

Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0827 20:00 0830 16:06 RW	
Manganese, Dissolved	ND	mg/l	0.01	1 6010B	0827 20:00 0830 16:06 RW	

Blank Analysis for sample(s) 01-08

Volatile Organics by GC 8021				1 8021B	0829 20:18 RY	
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Bromodichloromethane	ND	ug/l	0.50			
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromochloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	ND	ug/l	0.50			
Chloromethane/Vinyl chloride	ND	ug/l	5.0			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethyl vinyl ether	ND	ug/l	5.0			

Surrogate Recovery

4-Bromochlorobenzene	86.0	%				
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Blank Analysis for sample(s) 09-10

Volatile Organics by GC 8021				1 8021B	0830 09:36 RY	
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Bromodichloromethane	ND	ug/l	0.50			
Bromoform	ND	ug/l	0.50			

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0107935

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 09-10							
Volatile Organics by GC 8021 continued				1	8021B	0830 09:36 RY	
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Surrogate Recovery							
4-Bromochlorobenzene	88.0	%					
Blank Analysis for sample(s) 11							
Volatile Organics by GC 8021				1	8021B	0831 09:32 RY	
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0107935

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Blank Analysis for sample(s) 11						
Volatile Organics by GC 8021 continued				1 8021B	0831 09:32 RY	
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethyl vinyl ether	ND	ug/l	5.0			
Surrogate Recovery						
4-Bromochlorobenzene	81.0	%				

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

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.

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.

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 12527

Sheet ___ of ___

Date Due: 8/4/07

Client Name: ERM
 Client Address: 399 Boylston St.
BOSTON, MA. 02116
 Phone #: (617)267 8377 FAX #: (617)267-6447

Project Name: RAYTHEON-WAYLAND
 Project Location: WAYLAND, MA
 Project #: 143.56
 Project Manager: JOE FIALDO

Report To: JOE FIALDO
 Bill To: _____
 PO#: 143-56

- Standard TAT
- RUSH TAT _____ (# days)
- FAX Results
- State Forms
- SMART Report

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

ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	VOCS by 8021B - CHLORINATEDS ONLY	DS. MANGANESE : Calcium	Fluoride										
MW-33S	MW	8/21/07	1445	RCB	N	Z	1	1										
MW-33M			1500	VZ	N	Z	1	1										
MW-33D			1415	RCB		Z												
MW-33B			1545	VZ		Z												
MW-43S			1100	RCB	N	Z	1	1										
MW-43D			1130	VZ		Z												
MW-42S			1145	RCB		Z												
MW-44S			1230	RCB		Z												
MW-44M			1235	VZ		Z												
MW-44D			1245	RCB		Z												
MW-105-			1445	CA	N	Z	1	1										

Transfers Accepted By:	Date	Time
<i>[Signature]</i>	8/21/07	1615
<i>[Signature]</i>	8/27/07	1705

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:	22	4	4
Container Type: *	V	P	P
Preservative: *	B	A	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 NY: 11148

CERTIFICATE OF ANALYSIS

Client: ERM-New England Laboratory Job Number: L0107974
Address: 399 Boylston Street Invoice Number: 54141
6th Floor
Boston, MA 02116 Date Received: 28-AUG-01
Attn: Mr. Joe Fiacco Date Reported: 05-SEP-01
Project Number: 143.56 Delivery Method: Alpha
Site: RAYTHEON-WAYLAND

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0107974-01	MW-101	WAYLAND, MA
L0107974-02	MW-116	WAYLAND, MA
L0107974-03	MW-112	WAYLAND, MA
L0107974-04	MW-109	WAYLAND, MA
L0107974-05	MW-111	WAYLAND, MA
L0107974-06	MW-110	WAYLAND, MA
L0107974-07	MW-108	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

Scott McLean - Laboratory Director
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0107974-01	Date Collected: 28-AUG-2001 09:40
Sample Matrix: MW-101	Date Received: 28-AUG-2001
Sample Matrix: WATER	Date Reported: 05-SEP-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Plastic, 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	0.20	mg/l	0.20	30 4500F-BC	0831 09:10 0901 15:30	ST
Dissolved Metals						
Chromium, Dissolved	0.02	mg/l	0.01	1 6010B	0828 20:10 0831 01:06	RW
Manganese, Dissolved	0.16	mg/l	0.01	1 6010B	0828 20:10 0831 01:06	RW
Volatile Organics by GC 8021						
Bromodichloromethane	ND	ug/l	0.50			
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromochloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	ND	ug/l	0.50			
Chloromethane/Vinyl chloride	ND	ug/l	5.0			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	2.3	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethyl vinyl ether	ND	ug/l	5.0			

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0107974-01
MW-101

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
Volatile Organics by GC 8021 continued				1	8021B	0904 20:15	RY
Surrogate Recovery							
4-Bromochlorobenzene	98.0	%					

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: L0107974-02	Date Collected: 28-AUG-2001 11:55
Sample Matrix: MW-116	Date Received: 28-AUG-2001
Sample Matrix: WATER	Date Reported: 05-SEP-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Plastic, 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	ND	mg/l	0.20	30 4500F-BC	0831 09:10 0901 15:30	ST
Dissolved Metals						
Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0828 20:10 0831 01:18	RW
Manganese, Dissolved	0.41	mg/l	0.01	1 6010B	0828 20:10 0831 01:18	RW
Volatile Organics by GC 8021						
Bromodichloromethane	ND	ug/l	2.5	1 8021B	0904 21:08	RY
Bromoform	ND	ug/l	2.5			
Carbon tetrachloride	ND	ug/l	2.5			
Chlorobenzene	ND	ug/l	2.5			
Dibromochloromethane	ND	ug/l	25.			
Bromomethane/Chloroethane	ND	ug/l	25.			
Chloroform	ND	ug/l	2.5			
Chloromethane/Vinyl chloride	ND	ug/l	25.			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Dichlorodifluoromethane	ND	ug/l	25.			
1,1-Dichloroethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	2.5			
1,1-Dichloroethene	ND	ug/l	2.5			
cis-1,2-Dichloroethene	ND	ug/l	2.5			
trans-1,2-Dichloroethene	ND	ug/l	2.5			
1,2-Dichloropropane	ND	ug/l	2.5			
cis-1,3-Dichloropropene	ND	ug/l	2.5			
trans-1,3-Dichloropropene	ND	ug/l	2.5			
Methylene chloride	ND	ug/l	25.			
1,1,2,2-Tetrachloroethane	ND	ug/l	2.5			
Tetrachloroethene	ND	ug/l	2.5			
1,1,1-Trichloroethane	64.	ug/l	2.5			
1,1,2-Trichloroethane	ND	ug/l	2.5			
Trichloroethene	180	ug/l	2.5			
Trichlorofluoromethane	ND	ug/l	2.5			
2-Chloroethyl vinyl ether	ND	ug/l	25.			

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0107974-02
MW-116

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
Volatile Organics by GC 8021 continued				1	8021B	0904	21:08 RY
Surrogate Recovery							
4-Bromochlorobenzene	111.	%					

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: L0107974-03	Date Collected: 28-AUG-2001 13:10
	Date Received: 28-AUG-2001
Sample Matrix: MW-112 WATER	Date Reported: 05-SEP-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Plastic, 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	ND	mg/l	0.20	30 4500F-BC	0831 09:10 0901 15:30	ST
Dissolved Metals						
Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0828 20:10 0831 01:30	RW
Manganese, Dissolved	0.13	mg/l	0.01	1 6010B	0828 20:10 0831 01:30	RW
Volatile Organics by GC 8021						
Bromodichloromethane	ND	ug/l	1.0	1 8021B	0904 22:00	RY
Bromoform	ND	ug/l	1.0			
Carbon tetrachloride	ND	ug/l	1.0			
Chlorobenzene	ND	ug/l	1.0			
Dibromochloromethane	ND	ug/l	10.			
Bromomethane/Chloroethane	ND	ug/l	10.			
Chloroform	ND	ug/l	1.0			
Chloromethane/Vinyl chloride	ND	ug/l	10.			
1,2-Dichlorobenzene	ND	ug/l	1.0			
1,3-Dichlorobenzene	ND	ug/l	1.0			
1,4-Dichlorobenzene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	10.			
1,1-Dichloroethane	ND	ug/l	1.0			
1,2-Dichloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	1.0			
trans-1,2-Dichloroethene	ND	ug/l	1.0			
1,2-Dichloropropane	ND	ug/l	1.0			
cis-1,3-Dichloropropene	ND	ug/l	1.0			
trans-1,3-Dichloropropene	ND	ug/l	1.0			
Methylene chloride	ND	ug/l	10.			
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0			
Tetrachloroethene	ND	ug/l	1.0			
1,1,1-Trichloroethane	29.	ug/l	1.0			
1,1,2-Trichloroethane	ND	ug/l	1.0			
Trichloroethene	82.	ug/l	1.0			
Trichlorofluoromethane	ND	ug/l	1.0			
2-Chloroethyl vinyl ether	ND	ug/l	10.			

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0107974-03
MW-112

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
Volatile Organics by GC 8021 continued				1	8021B	0904 22:00	RY
Surrogate Recovery							
4-Bromochlorobenzene	113.	%					

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: L0107974-04	Date Collected: 28-AUG-2001 15:40
	Date Received : 28-AUG-2001
Sample Matrix: MW-109 WATER	Date Reported : 05-SEP-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Plastic, 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	0.55	mg/l	0.20	30 4500F-BC	0831 09:10 0901 15:30	ST
Dissolved Metals						
Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0828 20:10 0831 01:36	RW
Manganese, Dissolved	1.5	mg/l	0.01	1 6010B	0828 20:10 0831 01:36	RW
Volatile Organics by GC 8021						
Bromodichloromethane	ND	ug/l	0.50	1 8021B	0904 22:53	RY
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromochloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	ND	ug/l	0.50			
Chloromethane/Vinyl chloride	ND	ug/l	5.0			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	1.6	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	18.	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethyl vinyl ether	ND	ug/l	5.0			

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0107974-04
MW-109

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
Volatile Organics by GC 8021 continued				1	8021B	0904 22:53	RY
Surrogate Recovery							
4-Bromochlorobenzene	99.0	%					

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: L0107974-05	Date Collected: 28-AUG-2001 13:50
Sample Matrix: MW-111	Date Received: 28-AUG-2001
Sample Matrix: WATER	Date Reported: 05-SEP-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Plastic, 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	0.48	mg/l	0.20	30 4500F-BC	0831 09:10 0901 15:30	ST
Dissolved Metals						
Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0828 20:10 0831 01:42	RW
Manganese, Dissolved	1.1	mg/l	0.01	1 6010B	0828 20:10 0831 01:42	RW
Volatile Organics by GC 8021						
Bromodichloromethane	ND	ug/l	0.50			
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromochloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	ND	ug/l	0.50			
Chloromethane/Vinyl chloride	ND	ug/l	5.0			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	0.72	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	ND	ug/l	0.50			
1,1,1-Trichloroethane	24.	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	70.	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethyl vinyl ether	ND	ug/l	5.0			

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0107974-05
MW-111

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
Volatile Organics by GC 8021 continued				1	8021B	0904 23:45	RY
Surrogate Recovery							
4-Bromochlorobenzene	118.	%					

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: L0107974-06 Date Collected: 28-AUG-2001 14:50
 Sample Matrix: MW-110 Date Received: 28-AUG-2001
 WATER Date Reported: 05-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Plastic, 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	0.32	mg/l	0.20	30 4500F-BC	0831 09:10	0901 15:30	ST
Dissolved Metals							
Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0828 20:10	0831 01:48	RW
Manganese, Dissolved	0.24	mg/l	0.01	1 6010B	0828 20:10	0831 01:48	RW
Volatile Organics by GC 8021							
Bromodichloromethane	ND	ug/l	0.50	1 8021B			0905 00:38 RY
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0107974-06
MW-110

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
Volatile Organics by GC 8021 continued				1	8021B	0905 00:38	RY
Surrogate Recovery							
4-Bromochlorobenzene	106.	%					

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: L0107974-07	Date Collected: 28-AUG-2001 16:40
Sample Matrix: MW-108	Date Received: 28-AUG-2001
Sample Matrix: WATER	Date Reported: 05-SEP-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Plastic, 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	ND	mg/l	0.20	30 4500F-BC	0831 09:10 0901 15:30	ST
Dissolved Metals						
Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0828 20:10 0831 01:54	RW
Manganese, Dissolved	1.7	mg/l	0.01	1 6010B	0828 20:10 0831 01:54	RW
Volatile Organics by GC 8021						
Bromodichloromethane	ND	ug/l	0.50			
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromochloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	ND	ug/l	0.50			
Chloromethane/Vinyl chloride	ND	ug/l	5.0			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	1.4	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethyl vinyl ether	ND	ug/l	5.0			

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0107974-07
MW-108

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
Volatile Organics by GC 8021 continued				1	8021B	0905 01:30	RY
Surrogate Recovery							
4-Bromochlorobenzene	104.	%					

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0107974

Parameter	Value 1	Value 2	RPD	Units
Fluoride for sample(s) 01-07 (L0107974-01, WG91575)				
Fluoride	0.20	0.20	0	mg/l
Dissolved Metals for sample(s) 01-07 (L0107974-01, WG91289)				
Chromium, Dissolved	0.02	0.02	0	mg/l
Manganese, Dissolved	0.16	0.16	0	mg/l

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0107974

Parameter	% Recovery
Fluoride LCS for sample(s) 01-07 (WG91575)	
Fluoride	86
Volatile Organics by GC 8021 LCS for sample(s) 01-07 (WG91741)	
Chlorobenzene	111
1,1-Dichloroethene	109
Trichloroethene	105
Surrogate Recovery	
4-Bromochlorobenzene	114
Fluoride SPIKE for sample(s) 01-07 (L0107974-03, WG91575)	
Fluoride	85
Dissolved Metals SPIKE for sample(s) 01-07 (L0107974-02, WG91289)	
Chromium, Dissolved	100
Manganese, Dissolved	98

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0107974

Parameter	MS %	MSD %	RPD
Volatile Organics by GC 8021 for sample(s) 01-07 (L0107974-01, WG91741)			
Chlorobenzene	120	125	4
1,1-Dichloroethene	106	103	3
Trichloroethene	99	101	2

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0107974

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-07							
Fluoride	ND	mg/l	0.20	30 4500F-BC	0831 09:10	0901 15:30	ST
Blank Analysis for sample(s) 01-07							
Dissolved Metals							
Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0828 20:10	0831 01:00	RW
Manganese, Dissolved	ND	mg/l	0.01	1 6010B	0828 20:10	0831 01:00	RW
Blank Analysis for sample(s) 01-07							
Volatile Organics by GC 8021							
Bromodichloromethane	ND	ug/l	0.50	1 8021B	0904 17:37 RY		
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Surrogate Recovery							
4-Bromochlorobenzene	99.0	%					

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

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.

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.

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 1036

Sheet _____ of _____

Date Rec'd in Lab: 3/28/01

Client Name: ERM
 Client Address: 295 BOSTON ST
BOSTON MA 02116
 Phone #: (617) 267-8337 FAX #: (617) 267-8447

Project Name: Raytheon - Weyland
 Project Location: Weyland, MA
 Project #: 143-56
 Project Manager: Joe Fiaco

Report To: Joe Fiaco
 Bill To: _____
 PO#: 143-56

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

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

ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Samples: Field Filtered? (Y/N)	VOC by 80213	Chlorinated only	Pin Nonylene, Chromium	Fluoride									
MW-101	MG	8.23.09	9.40	CA	N	2	1	1										
MW-116			11.55		N	2	1	1										
MW-112			13.10		N	2	1	1										
MW-109			15.40		N	2	1	1										
MW-111			13.50		N	2	1	1										
MW-110	↓	↓	14.50		N	2	1	1										
MW-108	↓	↓	16.40	↓	N	2	1	1										

Transfers Relinquished By:	Date	Time
<u>Randa Edwards</u>	<u>3/28/01</u>	<u>1640</u>
<u>Randa Edwards</u>	<u>3/28/01</u>	<u>1810</u>

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

of Containers: 14 8 8
 Container Type: * V P P
 Preservative: B A A A A 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 NY: 11148

CERTIFICATE OF ANALYSIS

Client: ERM-New England Laboratory Job Number: L0107982
Address: 399 Boylston Street Invoice Number: 54046
6th Floor
Boston, MA 02116 Date Received: 28-AUG-01
Attn: Mr. Joe Fiacco Date Reported: 31-AUG-01
Project Number: 143.56 Delivery Method: Alpha
Site: RAYTHEON-WAYLAND

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0107982-01	DUP-1	WAYLAND, MA
L0107982-02	MW-34	WAYLAND, MA
L0107982-03	MW-37M	WAYLAND, MA
L0107982-04	MW-10	WAYLAND, MA
L0107982-05	MW-41	WAYLAND, MA
L0107982-06	TRIP BLANK	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: James R. Roth, PhD

James R. Roth, PhD - Laboratory Manager
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0107982-01 Date Collected: 28-AUG-2001 07:00
 DUP-1 Date Received: 28-AUG-2001
 Sample Matrix: WATER Date Reported: 31-AUG-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0830 17:54 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	1.5	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	4.7	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	24.	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	88.	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Surrogate Recovery							
4-Bromochlorobenzene	98.0	%					

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: L0107982-02 Date Collected: 28-AUG-2001 09:00
 Sample Matrix: MW-34 Date Received: 28-AUG-2001
 WATER Date Reported: 31-AUG-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0830 18:47 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

Surrogate Recovery

4-Bromochlorobenzene 88.0 %

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: L0107982-03	Date Collected: 28-AUG-2001 13:00
	Date Received : 28-AUG-2001
Sample Matrix: MW-37M WATER	Date Reported : 31-AUG-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by GC 8021				1 8021B	0830 20:32	RY
Bromodichloromethane	ND	ug/l	0.50			
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromodichloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	ND	ug/l	0.50			
Chloromethane/Vinyl chloride	ND	ug/l	5.0			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	0.65	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethyl vinyl ether	ND	ug/l	5.0			

Surrogate Recovery

4-Bromochlorobenzene	86.0	%
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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: L0107982-04 Date Collected: 28-AUG-2001 16:20
 MW-10 Date Received: 28-AUG-2001
 Sample Matrix: WATER Date Reported: 31-AUG-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0830 21:25 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

Surrogate Recovery

4-Bromochlorobenzene 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: L0107982-05 Date Collected: 28-AUG-2001 16:45
 MW-41 Date Received: 28-AUG-2001
 Sample Matrix: WATER Date Reported: 31-AUG-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0830 22:18 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	0.71	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	5.8	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Surrogate Recovery							
4-Bromochlorobenzene	88.0	%					

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: L0107982-06	Date Collected: 23-AUG-2001 17:40
Sample Matrix: TRIP BLANK	Date Received: 28-AUG-2001
Sample Matrix: WATER	Date Reported: 31-AUG-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by GC 8021				1 8021B	0830 23:10 RY	
Bromodichloromethane	ND	ug/l	0.50			
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromodichloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	ND	ug/l	0.50			
Chloromethane/Vinyl chloride	ND	ug/l	5.0			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethyl vinyl ether	ND	ug/l	5.0			

Surrogate Recovery

4-Bromochlorobenzene	89.0	%
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Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0107982

Parameter	% Recovery
Volatile Organics by GC 8021 LCS for sample(s) 01-06 (WG91411)	
Chlorobenzene	112
1,1-Dichloroethene	106
Trichloroethene	104
Surrogate Recovery	
4-Bromochlorobenzene	99

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0107982

Parameter	MS %	MSD %	RPD
Volatile Organics by GC 8021 for sample(s) 01-06 (L0107788-01, WG91411)			
Chlorobenzene	113	110	3
1,1-Dichloroethene	103	97	6
Trichloroethene	91	90	1

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0107982

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-06							
Volatile Organics by GC 8021				1	8021B	0830 17:02 RY	
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Surrogate Recovery							
4-Bromochlorobenzene	87.0	%					

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

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.

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 14499

Sheet ___ of ___

Date Due: 9/5/01

Client Name: ERM
 Client Address: 399 Bowdoin St
Boston, MA 02116
 Phone #: (617) 267 8377 FAX #: (617) 267 6447

Project Name: Raytheon - Wayland
 Project Location: Wayland, MA
 Project #: 143.56
 Project Manager: Joe Fiaco

Report To: Joe Fiaco
 Bill To: _____
 PO#: 143.56

- Standard TAT
- RUSH TAT _____ (# days)
- FAX Results
- State Forms
- SMART Report

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

ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	VOCs by 80210 - chlorinated only												
DUP - 1	MW	8/20/01	0700	RES	.	Z												
MW-34			0900	VE		Z												
MW-37M			1300	RCB		Z												
MW-10			1620	VE		Z												
MW-41			1645	RCB		Z												
TRAP BANK	LW	8/23	1740			1												

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

of Containers: 11
 Container Type: * V
 Preservative: * B

Transfers Accepted By:	Date	Time
<i>[Signature]</i>	8/28/01	1650
<i>[Signature]</i>	8/28	1810
<i>[Signature]</i>		
<i>[Signature]</i>		
<i>[Signature]</i>		

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: L0107975
Address: 399 Boylston Street Invoice Number: 54102
6th Floor
Boston, MA 02116 Date Received: 28-AUG-01
Attn: Mr. Joe Fiacco Date Reported: 04-SEP-01
Project Number: 143.56 Delivery Method: Alpha
Site: RAYTHEON-WAYLAND

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0107975-01	MW-45S	WAYLAND, MA
L0107975-02	MW-45M	WAYLAND, MA
L0107975-03	MW-45D	WAYLAND, MA
L0107975-04	MW-45B	WAYLAND, MA
L0107975-05	MW-47S	WAYLAND, MA
L0107975-06	MW-47D	WAYLAND, MA
L0107975-07	HA-104	WAYLAND, MA
L0107975-08	HA-103	WAYLAND, MA
L0107975-09	MW-46S	WAYLAND, MA
L0107975-10	MW-46M	WAYLAND, MA
L0107975-11	HA-101	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: James R. Roth, PhD

James R. Roth, PhD - Laboratory Manager
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0107975-01 Date Collected: 28-AUG-2001 11:15
 MW-45S Date Received: 28-AUG-2001
 Sample Matrix: WATER Date Reported: 04-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0831 19:31 RY		
Bromochloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	2.1	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	8.4	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

Surrogate Recovery

4-Bromochlorobenzene 94.0 %

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: L0107975-02 Date Collected: 28-AUG-2001 11:45
 MW-45M Date Received: 28-AUG-2001
 Sample Matrix: WATER Date Reported: 04-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0831 20:23 RY		
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	1.4	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	4.5	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	24.	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	97.	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 92.0 %

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: L0107975-03	Date Collected: 28-AUG-2001 10:00
	Date Received : 28-AUG-2001
Sample Matrix: MW-45D WATER	Date Reported : 04-SEP-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by GC 8021				1 8021B	0831 21:16 RY	
Bromodichloromethane	ND	ug/l	1.0			
Bromoform	ND	ug/l	1.0			
Carbon tetrachloride	ND	ug/l	1.0			
Chlorobenzene	ND	ug/l	1.0			
Dibromodichloromethane	ND	ug/l	10.			
Bromomethane/Chloroethane	ND	ug/l	10.			
Chloroform	ND	ug/l	1.0			
Chloromethane/Vinyl chloride	ND	ug/l	10.			
1,2-Dichlorobenzene	ND	ug/l	1.0			
1,3-Dichlorobenzene	ND	ug/l	1.0			
1,4-Dichlorobenzene	ND	ug/l	1.0			
Dichlorodifluoromethane	ND	ug/l	10.			
1,1-Dichloroethane	ND	ug/l	1.0			
1,2-Dichloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	3.0	ug/l	1.0			
trans-1,2-Dichloroethene	ND	ug/l	1.0			
1,2-Dichloropropane	ND	ug/l	1.0			
cis-1,3-Dichloropropene	ND	ug/l	1.0			
trans-1,3-Dichloropropene	ND	ug/l	1.0			
Methylene chloride	ND	ug/l	10.			
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0			
Tetrachloroethene	ND	ug/l	1.0			
1,1,1-Trichloroethane	ND	ug/l	1.0			
1,1,2-Trichloroethane	ND	ug/l	1.0			
Trichloroethene	51.	ug/l	1.0			
Trichlorofluoromethane	ND	ug/l	1.0			
2-Chloroethyl vinyl ether	ND	ug/l	10.			

Surrogate Recovery

4-Bromochlorobenzene	84.0	%
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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: L0107975-04 Date Collected: 28-AUG-2001 10:00
 MW-45B Date Received: 28-AUG-2001
 Sample Matrix: WATER Date Reported: 04-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0831 22:09 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	7.8	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Surrogate Recovery							
4-Bromochlorobenzene	85.0	%					

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: L0107975-05 Date Collected: 28-AUG-2001 13:30
 MW-47S Date Received: 28-AUG-2001
 Sample Matrix: WATER Date Reported: 04-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0831 23:02 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	4.4	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	15.	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

Surrogate Recovery

4-Bromochlorobenzene 94.0 %

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: L0107975-06 Date Collected: 28-AUG-2001 13:55
 MW-47D Date Received: 28-AUG-2001
 Sample Matrix: WATER Date Reported: 04-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0831 23:54 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	1.2	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	1.3	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	10.	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

Surrogate Recovery

4-Bromochlorobenzene 82.0 %

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: L0107975-07 Date Collected: 28-AUG-2001 14:00
 HA-104 Date Received: 28-AUG-2001
 Sample Matrix: WATER Date Reported: 04-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0901 00:47 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	4.0	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	5.2	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

Surrogate Recovery

4-Bromochlorobenzene 87.0 %

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: L0107975-08 Date Collected: 28-AUG-2001 15:30
 HA-103 Date Received: 28-AUG-2001
 Sample Matrix: WATER Date Reported: 04-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0901 01:40 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

Surrogate Recovery

4-Bromochlorobenzene 85.0 %

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: L0107975-09	Date Collected: 28-AUG-2001 15:15
	Date Received: 28-AUG-2001
Sample Matrix: MW-46S WATER	Date Reported: 04-SEP-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by GC 8021				1 8021B	0901 02:33 RY	
Bromodichloromethane	ND	ug/l	0.50			
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromodichloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	ND	ug/l	0.50			
Chloromethane/Vinyl chloride	ND	ug/l	5.0			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethyl vinyl ether	ND	ug/l	5.0			

Surrogate Recovery

4-Bromochlorobenzene	83.0	%
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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: L0107975-10 Date Collected: 28-AUG-2001 15:35
 MW-46M Date Received: 28-AUG-2001
 Sample Matrix: WATER Date Reported: 04-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0901 03:25 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	2.5	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	3.0	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	4.2	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Surrogate Recovery							
4-Bromochlorobenzene	96.0	%					

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: L0107975-11 Date Collected: 28-AUG-2001 16:00
 HA-101 Date Received: 28-AUG-2001
 Sample Matrix: WATER Date Reported: 04-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0901 04:18 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	0.71	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

Surrogate Recovery

4-Bromochlorobenzene 84.0 %

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0107975

Parameter	% Recovery
Volatile Organics by GC 8021 LCS for sample(s) 01-11 (WG91653)	
Chlorobenzene	110
1,1-Dichloroethene	101
Trichloroethene	99
Surrogate Recovery	
4-Bromochlorobenzene	99

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0107975

Parameter	MS %	MSD %	RPD
Volatile Organics by GC 8021 for sample(s) 01-11 (L0107953-01, WG91653)			
Chlorobenzene	111	117	5
1,1-Dichloroethene	104	99	5
Trichloroethene	92	89	3

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0107975

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-11							
Volatile Organics by GC 8021				1	8021B	0831 17:45 RY	
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Surrogate Recovery							
4-Bromochlorobenzene	83.0	%					

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

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.

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 1032

Sheet _____ of _____

Date Rec'd in Lab:

8/28/01

Client Name: ERM
 Client Address: 399 Baylston St.
BOSTON, MA 02116
 Phone #: (617) 267 8377 FAX #: (617) 267 6447

Project Name: PAULHEW-WAYLAND
 Project Location: WAYLAND MA
 Project #: 143.56
 Project Manager: JOE FACLO

Report To: JOE FACLO
 Bill To: _____
 PO#: 143.56

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

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

ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	Vols by 80210 - CALCULATED ONLY												
MW-455	MW	8/28/01	1115	RCB		Z												
MW-45M			1145	VZ		Z												
MW-45D			1000	RCB		Z												
MW-45B			1000	VZ		Z												
MW-415			1330	RCB		Z												
MW-41D			1355	VZ		Z												
HA-104			9400	RCB		Z												
HA-103			1530	RCB		Z												
MW-465			1515	RCB		Z												
MW-46M			1535	VZ		Z												
HA-101	Y	Y	1600	RCB		Z												

Transfers Accepted By:	Date	Time
<i>[Signature]</i>	8/28/01	11:55
<i>[Signature]</i>	8/28/01	14:00

Transfers Relinquished By:
<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:	22
Container Type: *	V
Preservative:	B

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: L0107953
Address: 399 Boylston Street Invoice Number: 54135
6th Floor
Boston, MA 02116 Date Received: 28-AUG-01
Attn: Mr. Joe Fiacco Date Reported: 05-SEP-01
Project Number: 143.56 Delivery Method: Client
Site: RAYTHEON-WAYLAND

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0107953-01	MW-103	WAYLAND, MA
L0107953-02	MW-102	WAYLAND, MA
L0107953-03	MW-40	WAYLAND, MA
L0107953-04	MW-40S	WAYLAND, MA
L0107953-05	MW-37	WAYLAND, MA
L0107953-06	MW-38	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

Scott McLean - Laboratory Director
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0107953-01 Date Collected: 27-AUG-2001 16:30
 Sample Matrix: MW-103 Date Received: 28-AUG-2001
 WATER Date Reported: 05-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Plastic, 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	ND	mg/l	0.20	30 4500F-BC	0904 10:50	0904 16:00	MA
Dissolved Metals							
Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0828 15:15	0830 11:25	RW
Manganese, Dissolved	0.60	mg/l	0.01	1 6010B	0828 15:15	0830 11:25	RW
Volatile Organics by GC 8021							
Bromodichloromethane	ND	ug/l	0.50	1 8021B	0831 13:21		RY
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	0.65	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	5.9	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0107953-01
MW-103

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
Volatile Organics by GC 8021 continued				1	8021B	0831 13:21	RY
Surrogate Recovery							
4-Bromochlorobenzene	86.0	%					

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: L0107953-02 Date Collected: 27-AUG-2001 18:30
 MW-102 Date Received: 28-AUG-2001
 Sample Matrix: WATER Date Reported: 05-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Plastic, 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	ND	mg/l	0.20	30 4500F-BC	0904	10:50	0904 16:00 MA
Dissolved Metals							
Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0828	15:15	0830 11:35 RW
Manganese, Dissolved	0.69	mg/l	0.01	1 6010B	0828	15:15	0830 11:35 RW
Volatile Organics by GC 8021							
Bromodichloromethane	ND	ug/l	10.	1 8021B	0831	14:14	RY
Bromoform	ND	ug/l	10.				
Carbon tetrachloride	ND	ug/l	10.				
Chlorobenzene	ND	ug/l	10.				
Dibromochloromethane	ND	ug/l	100				
Bromomethane/Chloroethane	ND	ug/l	100				
Chloroform	ND	ug/l	10.				
Chloromethane/Vinyl chloride	ND	ug/l	100				
1,2-Dichlorobenzene	ND	ug/l	10.				
1,3-Dichlorobenzene	ND	ug/l	10.				
1,4-Dichlorobenzene	ND	ug/l	10.				
Dichlorodifluoromethane	ND	ug/l	100				
1,1-Dichloroethane	ND	ug/l	10.				
1,2-Dichloroethane	ND	ug/l	10.				
1,1-Dichloroethene	ND	ug/l	10.				
cis-1,2-Dichloroethene	ND	ug/l	10.				
trans-1,2-Dichloroethene	ND	ug/l	10.				
1,2-Dichloropropane	ND	ug/l	10.				
cis-1,3-Dichloropropene	ND	ug/l	10.				
trans-1,3-Dichloropropene	ND	ug/l	10.				
Methylene chloride	ND	ug/l	100				
1,1,2,2-Tetrachloroethane	ND	ug/l	10.				
Tetrachloroethene	ND	ug/l	10.				
1,1,1-Trichloroethane	ND	ug/l	10.				
1,1,2-Trichloroethane	ND	ug/l	10.				
Trichloroethene	500	ug/l	10.				
Trichlorofluoromethane	ND	ug/l	10.				
2-Chloroethyl vinyl ether	ND	ug/l	100				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0107953-02
MW-102

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
Volatile Organics by GC 8021 continued				1	8021B	0831 14:14	RY
Surrogate Recovery							
4-Bromochlorobenzene	85.0	%					

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: L0107953-03 Date Collected: 27-AUG-2001 17:30
 MW-40 Date Received: 28-AUG-2001
 Sample Matrix: WATER Date Reported: 05-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0831 00:03 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	3.3	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	10.	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

Surrogate Recovery

4-Bromochlorobenzene 88.0 %

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: L0107953-04 Date Collected: 27-AUG-2001 18:00
 MW-40S Date Received: 28-AUG-2001
 Sample Matrix: WATER Date Reported: 05-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0831 00:56 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	1.7	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	14.	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

Surrogate Recovery

4-Bromochlorobenzene 89.0 %

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: L0107953-05 Date Collected: 27-AUG-2001 16:30
 MW-37 Date Received: 28-AUG-2001
 Sample Matrix: WATER Date Reported: 05-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0831 01:48 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	1.1	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	5.2	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

Surrogate Recovery

4-Bromochlorobenzene 89.0 %

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: L0107953-06 Date Collected: 27-AUG-2001 17:00
 MW-38 Date Received: 28-AUG-2001
 Sample Matrix: WATER Date Reported: 05-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0831 02:41 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	0.78	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	2.1	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Surrogate Recovery							
4-Bromochlorobenzene	85.0	%					

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0107953

Parameter	Value 1	Value 2	RPD	Units
Fluoride for sample(s) 01-02 (L0108030-03, WG91737)				
Fluoride	ND	ND	NC	mg/l
Dissolved Metals for sample(s) 01-02 (L0107953-01, WG91288)				
Chromium, Dissolved	ND	ND	NC	mg/l
Manganese, Dissolved	0.60	0.59	2	mg/l

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0107953

Parameter	% Recovery
Fluoride LCS for sample(s) 01-02 (WG91737)	
Fluoride	94
Volatile Organics by GC 8021 LCS for sample(s) 03-06 (WG91653)	
Chlorobenzene	112
1,1-Dichloroethene	106
Trichloroethene	104
Surrogate Recovery	
4-Bromochlorobenzene	99
Volatile Organics by GC 8021 LCS for sample(s) 01-02 (WG91653)	
Chlorobenzene	108
1,1-Dichloroethene	107
Trichloroethene	102
Surrogate Recovery	
4-Bromochlorobenzene	107
Fluoride SPIKE for sample(s) 01-02 (L0108030-02, WG91737)	
Fluoride	81
Dissolved Metals SPIKE for sample(s) 01-02 (L0107953-02, WG91288)	
Chromium, Dissolved	100
Manganese, Dissolved	102

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0107953

Parameter	MS %	MSD %	RPD
Volatile Organics by GC 8021 for sample(s) 01-06 (L0107953-01, WG91653)			
Chlorobenzene	111	117	5
1,1-Dichloroethene	104	99	5
Trichloroethene	92	89	3

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0107953

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
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Blank Analysis for sample(s) 01-02

Fluoride	ND	mg/l	0.20	30 4500F-BC	0904 10:50 0904 16:00	MA
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Blank Analysis for sample(s) 01-02

Di ssol ved Metals

Chromi um, Di ssol ved	ND	mg/l	0.01	1 6010B	0828 15:15 0830 11:20	RW
Manganese, Di ssol ved	ND	mg/l	0.01	1 6010B	0828 15:15 0830 11:20	RW

Blank Analysis for sample(s) 03-06

Volatile Organics by GC 8021

	1	8021B	0830 17:02	RY
Bromodi chl oromethane	ND	ug/l	0.50	
Bromoform	ND	ug/l	0.50	
Carbon tetrachl ori de	ND	ug/l	0.50	
Chl orobenzene	ND	ug/l	0.50	
Di bromochl oromethane	ND	ug/l	5.0	
Bromomethane/Chl oroethane	ND	ug/l	5.0	
Chl oroform	ND	ug/l	0.50	
Chl oromethane/Vi nyl chl ori de	ND	ug/l	5.0	
1,2-Di chl orobenzene	ND	ug/l	0.50	
1,3-Di chl orobenzene	ND	ug/l	0.50	
1,4-Di chl orobenzene	ND	ug/l	0.50	
Di chl orodi fl uoromethane	ND	ug/l	5.0	
1,1-Di chl oroethane	ND	ug/l	0.50	
1,2-Di chl oroethane	ND	ug/l	0.50	
1,1-Di chl oroethene	ND	ug/l	0.50	
ci s-1,2-Di chl oroethene	ND	ug/l	0.50	
trans-1,2-Di chl oroethene	ND	ug/l	0.50	
1,2-Di chl oropropane	ND	ug/l	0.50	
ci s-1,3-Di chl oropropene	ND	ug/l	0.50	
trans-1,3-Di chl oropropene	ND	ug/l	0.50	
Methyl ene chl ori de	ND	ug/l	5.0	
1,1,2,2-Tetrachl oroethane	ND	ug/l	0.50	
Tetrachl oroethene	ND	ug/l	0.50	
1,1,1-Tri chl oroethane	ND	ug/l	0.50	
1,1,2-Tri chl oroethane	ND	ug/l	0.50	
Tri chl oroethene	ND	ug/l	0.50	
Tri chl orofl uoromethane	ND	ug/l	0.50	
2-Chl oroethyl vi nyl ether	ND	ug/l	5.0	

Surrogate Recovery

4-Bromochl orobenzene	87.0	%
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Blank Analysis for sample(s) 01-02

Volatile Organics by GC 8021

	1	8021B	0831 09:32	RY
Bromodi chl oromethane	ND	ug/l	0.50	
Bromoform	ND	ug/l	0.50	

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0107953

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-02							
Volatile Organics by GC 8021 continued				1	8021B	0831 09:32 RY	
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Surrogate Recovery							
4-Bromochlorobenzene	81.0	%					

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

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.

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.

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 3124

Sheet _____ of _____

Date Rec'd in Lab: 8/28/01

Client Name: ERM
 Client Address: 295 Bay Street
BOSTON MA 02116
 Phone # (617) 267-8377 FAX #: (617) 267-6447

Project Name: Rhythm - Weyland
 Project Location: Weyland, MA
 Project #: 143.56
 Project Manager: Joe Fiocco

Report To: J. Fiocco
 Bill To: _____
 PO#: 143.56

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

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

ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	ANALYSIS REQUEST									
MW-103	MG	8.27.01	16.30	CA	N	2	1	1							
MW-102			18.30	CA	N	2	1	1							
MW-40			17.30	RB		2									
MW-40S			18.00	RB		2									
MW-37			16.30	RB		2									
MW-38			17.00	RB		2									

VOC by 802113
 chlorinated only
 Divs: nungwerx, chmaw...
 Floride

Transfers Relinquished By:	Transfers Accepted By:	Date	Time
<u>[Signature]</u>	<u>[Signature]</u>	8/28/01	1400

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:	12	2	2			
Container Type: *	V	P	P			
Preservative: *	B	A	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 NY: 11148

CERTIFICATE OF ANALYSIS

Client: ERM-New England Laboratory Job Number: L0108134
Address: 399 Boylston Street Invoice Number: 54229
6th Floor
Boston, MA 02116 Date Received: 31-AUG-01
Attn: Mr. Joe Fiacco Date Reported: 07-SEP-01
Project Number: 143.56 Delivery Method: Alpha
Site: RAYTHEON

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0108134-01	MW-47M	WAYLAND, MA
L0108134-02	MW-TP3	WAYLAND, MA
L0108134-03	TRIP BLANK	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: James R. Roth, PhD

James R. Roth, PhD - Laboratory Manager
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0108134-01 Date Collected: 29-AUG-2001 15:50
 MW-47M Date Received: 31-AUG-2001
 Sample Matrix: WATER Date Reported: 07-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0906 15:12 RY		
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	4.3	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	2.7	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	67.	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	109.	%					

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: L0108134-02 Date Collected: 29-AUG-2001 16:30
 MW-TP3 Date Received: 31-AUG-2001
 Sample Matrix: WATER Date Reported: 07-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0906 16:05 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	16.	ug/l	0.50				
trans-1,2-Dichloroethene	0.75	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	1.3	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	12.	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

Surrogate Recovery

4-Bromochlorobenzene 98.0 %

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: L0108134-03 Date Collected: 13-AUG-2001 17:40
 Sample Matrix: TRIP BLANK Date Received: 31-AUG-2001
 WATER Date Reported: 07-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0906 16:57 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

Surrogate Recovery

4-Bromochlorobenzene 89.0 %

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0108134

Parameter	% Recovery
Volatile Organics by GC 8021 LCS for sample(s) 01-03 (WG91741)	
Chlorobenzene	110
1,1-Dichloroethene	112
Trichloroethene	107
Surrogate Recovery	
4-Bromochlorobenzene	109

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0108134

Parameter	MS %	MSD %	RPD
Volatile Organics by GC 8021 for sample(s) 01-03 (L0107974-01, WG91741)			
Chlorobenzene	120	125	4
1,1-Dichloroethene	106	103	3
Trichloroethene	99	101	2

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0108134

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-03							
Volatile Organics by GC 8021				1	8021B	0906 09:29 RY	
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Surrogate Recovery							
4-Bromochlorobenzene	105.	%					

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

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

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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.

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: L0108030
Address: 399 Boylston Street Invoice Number: 54160
6th Floor
Boston, MA 02116 Date Received: 29-AUG-01
Attn: Mr. Joe Fiacco Date Reported: 06-SEP-01
Project Number: 143.60 Delivery Method: Alpha
Site: RAYTHEON-WAYLAND

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0108030-01	MW-107	WAYLAND, MA
L0108030-02	MW-115	WAYLAND, MA
L0108030-03	MW-113	WAYLAND, MA
L0108030-04	TRIP BLANK	WAYLAND, MA
L0108030-05	MW-32	WAYLAND, MA
L0108030-06	HA-102	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: James R. Roth, PhD

James R. Roth, PhD - Laboratory Manager
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0108030-01	Date Collected: 28-AUG-2001 17:30
	Date Received: 29-AUG-2001
Sample Matrix: MW-107 WATER	Date Reported: 06-SEP-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Plastic, 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Fluoride	1.6	mg/l	0.20	30 4500F-BC	0904 10:50 0904 16:00	MA
Dissolved Metals						
Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0829 19:00 0904 15:39	RW
Manganese, Dissolved	3.3	mg/l	0.01	1 6010B	0829 19:00 0904 15:39	RW
Volatile Organics by GC 8021						
Bromodichloromethane	ND	ug/l	0.50	1 8021B	0904 11:28	RY
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromochloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	ND	ug/l	0.50			
Chloromethane/Vinyl chloride	ND	ug/l	5.0			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	2.0	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	34.	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethyl vinyl ether	ND	ug/l	5.0			

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0108030-01
MW-107

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
Volatile Organics by GC 8021 continued				1	8021B	0904	11:28 RY
Surrogate Recovery							
4-Bromochlorobenzene	94.0	%					

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: L0108030-02	Date Collected: 29-AUG-2001 12:30
Sample Matrix: MW-115	Date Received: 29-AUG-2001
Sample Matrix: WATER	Date Reported: 06-SEP-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Plastic, 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	ND	mg/l	0.20	30 4500F-BC	0904 10:50	0904 16:00	MA
Dissolved Metals							
Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0829 19:00	0904 15:49	RW
Manganese, Dissolved	1.7	mg/l	0.01	1 6010B	0829 19:00	0904 15:49	RW
Volatile Organics by GC 8021							
Bromodichloromethane	ND	ug/l	1.0	1 8021B	0904 12:21		RY
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	24.	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	81.	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0108030-02
MW-115

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
Volatile Organics by GC 8021 continued				1	8021B	0904 12:21	RY
Surrogate Recovery							
4-Bromochlorobenzene	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: L0108030-03	Date Collected: 29-AUG-2001 13:30
Sample Matrix: MW-113	Date Received: 29-AUG-2001
Sample Matrix: WATER	Date Reported: 06-SEP-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Plastic, 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Fluoride	ND	mg/l	0.20	30 4500F-BC	0904 10:50	0904 16:00	MA
Dissolved Metals							
Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0829 19:00	0904 15:59	RW
Manganese, Dissolved	1.5	mg/l	0.01	1 6010B	0829 19:00	0904 15:59	RW
Volatile Organics by GC 8021							
Bromodichloromethane	ND	ug/l	0.50	1 8021B	0904 13:14		RY
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	6.5	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	24.	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0108030-03
MW-113

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	ANAL	ID
Volatile Organics by GC 8021 continued				1	8021B	0904	13:14 RY
Surrogate Recovery							
4-Bromochlorobenzene	98.0	%					

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: L0108030-04 Date Collected: 23-AUG-2001 17:40
 Sample Matrix: TRIP BLANK Date Received: 29-AUG-2001
 WATER Date Reported: 06-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 1-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0904 14:06 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromodichloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

Surrogate Recovery

4-Bromochlorobenzene 85.0 %

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: L0108030-05 Date Collected: 29-AUG-2001 10:35
 MW-32 Date Received: 29-AUG-2001
 Sample Matrix: WATER Date Reported: 06-SEP-2001
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC 8021				1 8021B	0904 14:59 RY		
Bromodichloromethane	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Dibromodichloromethane	ND	ug/l	5.0				
Bromomethane/Chloroethane	ND	ug/l	5.0				
Chloroform	ND	ug/l	0.50				
Chloromethane/Vinyl chloride	ND	ug/l	5.0				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	5.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				

Surrogate Recovery

4-Bromochlorobenzene 88.0 %

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: L0108030-06	Date Collected: 28-AUG-2001 16:50
Sample Matrix: HA-102	Date Received: 29-AUG-2001
Sample Matrix: WATER	Date Reported: 06-SEP-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by GC 8021				1 8021B	0904 15:52	RY
Bromodichloromethane	ND	ug/l	0.50			
Bromoform	ND	ug/l	0.50			
Carbon tetrachloride	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Dibromodichloromethane	ND	ug/l	5.0			
Bromomethane/Chloroethane	ND	ug/l	5.0			
Chloroform	ND	ug/l	0.50			
Chloromethane/Vinyl chloride	ND	ug/l	5.0			
1,2-Dichlorobenzene	ND	ug/l	0.50			
1,3-Dichlorobenzene	ND	ug/l	0.50			
1,4-Dichlorobenzene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.50			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1-Dichloroethene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
Methylene chloride	ND	ug/l	5.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Tetrachloroethene	2.6	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.50			
Trichloroethene	8.4	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	0.50			
2-Chloroethyl vinyl ether	ND	ug/l	5.0			

Surrogate Recovery

4-Bromodichlorobenzene	93.0	%
------------------------	------	---

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

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0108030

Parameter	Value 1	Value 2	RPD	Units
Fluoride for sample(s) 01-03 (L0108030-03, WG91737)				
Fluoride	ND	ND	NC	mg/l
Dissolved Metals for sample(s) 01-03 (L0108030-01, WG91634)				
Chromium, Dissolved	ND	ND	NC	mg/l
Manganese, Dissolved	3.3	3.3	0	mg/l

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0108030

Parameter	% Recovery
Fluoride LCS for sample(s) 01-03 (WG91737)	
Fluoride	94
Volatile Organics by GC 8021 LCS for sample(s) 01-06 (WG91741)	
Chlorobenzene	110
1,1-Dichloroethene	110
Trichloroethene	107
Surrogate Recovery	
4-Bromochlorobenzene	98
Fluoride SPIKE for sample(s) 01-03 (L0108030-02, WG91737)	
Fluoride	81
Dissolved Metals SPIKE for sample(s) 01-03 (L0108030-02, WG91634)	
Chromium, Dissolved	100
Manganese, Dissolved	80

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0108030

Parameter	MS %	MSD %	RPD
Volatile Organics by GC 8021 for sample(s) 01-06 (L0107974-01, WG91741)			
Chlorobenzene	120	125	4
1,1-Dichloroethene	106	103	3
Trichloroethene	99	101	2

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0108030

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID	
					PREP	ANAL		
Blank Analysis for sample(s) 01-03								
Fluoride	ND	mg/l	0.20	30 4500F-BC	0904 10:50	0904 16:00	MA	
Blank Analysis for sample(s) 01-03								
Dissolved Metals								
Chromium, Dissolved	ND	mg/l	0.01	1 6010B	0829 19:00	0904 15:33	RW	
Manganese, Dissolved	ND	mg/l	0.01	1 6010B	0829 19:00	0904 15:33	RW	
Blank Analysis for sample(s) 01-06								
Volatile Organics by GC 8021				1 8021B	0904 10:00			RY
Bromodichloromethane	ND	ug/l	0.50					
Bromoform	ND	ug/l	0.50					
Carbon tetrachloride	ND	ug/l	0.50					
Chlorobenzene	ND	ug/l	0.50					
Dibromochloromethane	ND	ug/l	5.0					
Bromomethane/Chloroethane	ND	ug/l	5.0					
Chloroform	ND	ug/l	0.50					
Chloromethane/Vinyl chloride	ND	ug/l	5.0					
1,2-Dichlorobenzene	ND	ug/l	0.50					
1,3-Dichlorobenzene	ND	ug/l	0.50					
1,4-Dichlorobenzene	ND	ug/l	0.50					
Dichlorodifluoromethane	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	0.50					
1,2-Dichloroethane	ND	ug/l	0.50					
1,1-Dichloroethene	ND	ug/l	0.50					
cis-1,2-Dichloroethene	ND	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.50					
1,2-Dichloropropane	ND	ug/l	0.50					
cis-1,3-Dichloropropene	ND	ug/l	0.50					
trans-1,3-Dichloropropene	ND	ug/l	0.50					
Methylene chloride	ND	ug/l	5.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50					
Tetrachloroethene	ND	ug/l	0.50					
1,1,1-Trichloroethane	ND	ug/l	0.50					
1,1,2-Trichloroethane	ND	ug/l	0.50					
Trichloroethene	ND	ug/l	0.50					
Trichlorofluoromethane	ND	ug/l	0.50					
2-Chloroethyl vinyl ether	ND	ug/l	5.0					
Surrogate Recovery								
4-Bromochlorobenzene	82.0	%						

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

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.

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.

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 1033

Sheet 1 of 1

Date Rec'd in Lab: 8/29/01

Client Name: ERM

Project Name: RAYTHEON-WAYLAND

Report To: JOE FIALO

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

Client Address: 399 BOYLSTON ST.

Project Location: WAYLAND, MA.

Bill To: _____

BOSTON, MA. 02116

Project #: 143.60

Phone #: (617) 267 8377 FAX #: (617) 267 6447

Project Manager: JOE FIALO

PO#: 143.60

Comments (Please note specific method, detection limit or reporting requirements.)
SAMPLE MW-107 (METALS) NEEDS TO BE FILTERED ASAP

ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	VOL by 90213 chlorinated only	Mn Mangness; chromium	Fluoride										
MW-102	MW	8/28/01	17:30	CA	N	2	1	1										
MW-115		8/21/01	1230	RCB	N	2	1	1										
MW-113			1330	RCB	N	2	1	1										
TRIPBLANK	LW	8/23	1740			1												
MW-32	MW	8/21/01	1035	VZ		2												
HA-102	MW	8/20/01	1650	VZ		2												

Transfers Accepted By:	Date	Time
<i>[Signature]</i>	8/29/01	1:20
<i>[Signature]</i>	8/29/01	1:43
Transfers Relinquished By:		
<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:	3	3
Container Type: *	V	P P
Preservative: *	B	A 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 NY: 11148

CERTIFICATE OF ANALYSIS

Client: ERM-New England Laboratory Job Number: L0107938
Address: 399 Boylston Street Invoice Number: 54024
6th Floor
Boston, MA 02116 Date Received: 27-AUG-01
Attn: Mr. Joe Fiacco Date Reported: 31-AUG-01
Project Number: 143.56 Delivery Method: Alpha
Site: RAYTHEON-WAYLAND

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0107938-01	RUSSEL WELL	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: James R. Roth, PhD

James R. Roth, PhD - Laboratory Manager
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0107938-01	Date Collected: 27-AUG-2001 16:00
Sample Matrix: RUSSEL WELL	Date Received : 27-AUG-2001
Sample Matrix: WATER	Date Reported : 31-AUG-2001
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by GC/MS 8260				1 8260B	0830 16:09 BT	
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	5.8	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	1.3	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	0.50			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	ND	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
Methyl tert butyl ether	ND	ug/l	1.0			
p/m-Xylene	ND	ug/l	0.50			
o-Xylene	ND	ug/l	0.50			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dibromomethane	ND	ug/l	5.0			
1,4-Dichlorobutane	ND	ug/l	5.0			
Iodomethane	ND	ug/l	5.0			

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0107938-01
RUSSEL WELL

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by GC/MS 8260 continued				1 8260B	0830 16:09 BT		
1, 2, 3-Tri chloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Di chlorodi fluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon di sul fi de	14.	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl -2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2, 2-Di chloropropane	ND	ug/l	2.5				
1, 2-Di bromoethane	ND	ug/l	2.5				
1, 3-Di chloropropane	ND	ug/l	2.5				
1, 1, 1, 2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butyl benzene	ND	ug/l	0.50				
sec-Butyl benzene	ND	ug/l	0.50				
tert-Butyl benzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1, 2-Di bromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropyl benzene	ND	ug/l	0.50				
p-Isopropyl toluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propyl benzene	ND	ug/l	0.50				
1, 2, 3-Tri chlorobenzene	ND	ug/l	2.5				
1, 2, 4-Tri chlorobenzene	ND	ug/l	2.5				
1, 3, 5-Tri methyl benzene	ND	ug/l	2.5				
1, 2, 4-Tri methyl benzene	ND	ug/l	2.5				
trans-1, 4-Di chloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate Recovery							
1, 2-Di chloroethane-d4	112.	%					
Toluene-d8	98.0	%					
4-Bromofluorobenzene	101.	%					
Di bromofluoromethane	117.	%					

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0107938

Parameter	MS %	MSD %	RPD
Volatile Organics by GC/MS 8260 for sample(s) 01 (L0107956-01, WG91434)			
Chlorobenzene	97	96	1
Benzene	90	89	1
Toluene	97	97	1
1,1-Dichloroethene	86	83	3
Trichloroethene	91	89	2

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0107938

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01							
Volatile Organics by GC/MS 8260				1	8260B	0830 11:09 BT	
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0107938

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01							
Volatile Organics by GC/MS 8260 continued				1	8260B	0830 11:09 BT	
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butyl benzene	ND	ug/l	0.50				
sec-Butyl benzene	ND	ug/l	0.50				
tert-Butyl benzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropyl benzene	ND	ug/l	0.50				
p-Isopropyl toluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propyl benzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethyl benzene	ND	ug/l	2.5				
1,2,4-Trimethyl benzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Surrogate Recovery							
1,2-Dichloroethane-d4	108.	%					
Toluene-d8	94.0	%					
4-Bromofluorobenzene	97.0	%					
Di bromofluoromethane	111.	%					

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

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

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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.

Quality Control Acceptance Criteria

Volatile Organics by Method 8260B

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
1,2-Dichloroethane-d ₄	75%	125%	75%	125%		
4-Bromofluorobenzene	75%	125%	75%	125%		
Toluene-d ₈	75%	125%	75%	125%		
Dibromofluoromethane	75%	125%	75%	125%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	61%	145%	59%	172%	all target compounds	
Trichloroethene	71%	120%	62%	137%	20%	30%
Chlorobenzene	75%	130%	60%	133%		
Benzene	76%	127%	66%	142%		
Toluene	76%	125%	59%	139%		

Volatile Organics by Method 8021B

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
4-Bromochlorobenzene	70%	110%	70%	120%		
4-Bromofluorobenzene	70%	110%	70%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	70%	130%	70%	130%	all target compounds	
Trichloroethene	70%	130%	70%	130%	20%	30%
Chlorobenzene	70%	130%	70%	130%		
Benzene	70%	130%	70%	130%		
Toluene	70%	130%	70%	130%		
Ethylbenzene	70%	130%	70%	130%		

Semi-Volatile Organics by Method 8270C (includes PAHs)

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
Nitrobenzene-d ₅	23%	120%	23%	120%		
Phenol-d ₆	10%	120%	10%	120%		
2-Fluorophenol	21%	120%	25%	120%		
2-Fluorobiphenyl	43%	120%	30%	120%		
p-Terphenyl-d ₁₄	33%	120%	18%	120%		
2,4,6-Tribromophenol	10%	120%	19%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,2,4-Trichlorobenzene	39%	98%	38%	107%	all target compounds	
Acenaphthene	46%	118%	31%	137%	40%	50%
2,4-Dinitrotoluene	24%	96%	28%	89%		
Pyrene	26%	127%	35%	142%		
N-Nitroso-di-n-propylamine	41%	116%	41%	126%		
1,4-Dichlorobenzene	36%	97%	28%	104%		
Pentachlorophenol	9%	103%	17%	109%		
Phenol	12%	110%	26%	90%		
2-Chlorophenol	27%	123%	25%	102%		
4-Chloro-3-methylphenol	23%	97%	26%	103%		
4-Nitrophenol	10%	80%	11%	114%		

Quality Control Acceptance Criteria

PCB/Pesticides by Method 8082/8081

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
2,4,5,6-Tetrachloro-m-xylene	40%	120%	40%	120%		
Decachlorobiphenyl	40%	120%	40%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
Lindane	56%	123%	46%	127%	all target compounds	
Heptachlor	40%	131%	35%	130%	30%	50%
Aldrin	40%	120%	34%	132%		
Dieldrin	52%	126%	31%	134%		
Endrin	56%	121%	42%	139%		
4,4'-DDT	38%	127%	23%	134%		
Aroclor 1242/1016	40%	140%	40%	140%		
Aroclor 1260	40%	140%	40%	140%		

Volatile Petroleum Hydrocarbons (VPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
2,5-Dibromotoluene	70%	130%	70%	130%		
laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
all compounds	70%	130%	70%	130%	50%	50%

Extractable Petroleum Hydrocarbons (EPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
Chloro-octadecane	40%	140%	40%	140%		
ortho-Terphenyl	40%	140%	40%	140%		
2-Fluorobiphenyl (fractionation)	40%	140%	40%	140%		
2-Bromonaphthalene (fractionation)	40%	140%	40%	140%		
laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
all compounds	40%	140%	40%	140%	50%	50%

TPH (GC-FID) by Method 8100M

surrogate spike % recovery	AQ Limits		Soil Limits		duplicate	
	LCL	UCL	LCL	UCL	AQ Limits	Soil Limits
ortho-Terphenyl	40%	140%	40%	140%	RPD	RPD
ortho-Terphenyl	40%	140%	40%	140%	40%	40%

TPH by Method 418.1

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
TPH	60%	140%	60%	140%	40%	40%

Quality Control Acceptance Criteria

Trace Metals by Method 6010B/7000 series

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
target analyte	75%	125%	70%	140%	20%	35%

Mercury by Method 7470A/7471A

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
mercury	70%	130%	60%	140%	35%	45%

Total Cyanide by Method 9010B

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
cyanide	80%	120%	65%	135%	30%	40%

Total Phenol by Method 9065

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
phenol	70%	130%	65%	135%	20%	30%