

ALPHA ANALYTICAL LABORATORIES

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

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

CERTIFICATE OF ANALYSIS

Client: ERM-New England **Laboratory Job Number:** L0404522
Address: 399 Boylston Street
6th Floor **Date Received:** 30-APR-2004
Boston, MA 02116 **Date Reported:** 07-MAY-2004
Attn: Jeremy Picard **Delivery Method:** Alpha
Project Number: 0013606.03.02
Site: RAYTHEON-WAYLAND

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0404522-01	MW-267S	WAYLAND, MA
L0404522-02	MW-267M	WAYLAND, MA

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

Authorized by: James Todaro
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0404522-01	Date Collected: 30-APR-2004 13:30
MW-267S	Date Received : 30-APR-2004
Sample Matrix: WATER	Date Reported : 07-MAY-2004
Condition of Sample: Satisfactory	Field Prep: None
Number & Type of Containers: 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Dissolved Gases by GC					53 -		0503 13:41 PS
Methane	427.	ug/l	0.300				
Ethene	0.801	ug/l	0.500				
Ethane	ND	ug/l	0.500				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0404522-02 Date Collected: 30-APR-2004 12:15
MW-267M Date Received : 30-APR-2004
Sample Matrix: WATER Date Reported : 07-MAY-2004
Condition of Sample: Satisfactory Field Prep: None
Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Dissolved Gases by GC				53 -		0503 13:56 PS	
Methane	105.	ug/l	0.300				
Ethene	ND	ug/l	0.500				
Ethane	ND	ug/l	0.500				

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0404522

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Dissolved Gases by GC for sample(s) 01-02 (L0404513-02, WG169523)					
Methane	12.8	11.9	ug/l	7	25
Ethene	ND	ND	ug/l	NC	25
Ethane	ND	ND	ug/l	NC	25

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0404522

Parameter	% Recovery	QC Criteria
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Dissolved Gases by GC LCS for sample(s) 01-02 (WG169523)

Methane	95	80-120
Ethene	88	80-120
Ethane	88	80-120

Dissolved Gases by GC SPIKE for sample(s) 01-02 (L0404513-01, WG169523)

Methane	89	80-120
Ethene	83	80-120
Ethane	82	80-120

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0404522

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-02 (WG169523-4)							
Dissolved Gases by GC				53 -		0503	11:17 PS
Methane	ND	ug/l	0.300				
Ethene	ND	ug/l	0.500				
Ethane	ND	ug/l	0.500				

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

REFERENCES

53. Analysis of Dissolved Methane, Ethane & Ethylene in Groundwater by a Standard Gas Chromatographic Technique, Kampbell & Vandegrift, EPA-OK, Journal of Chrom, Vol 36, May 1998 & Technical Guidance for the Natural Attenuation Indicators, EPA-NE, July 2001.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.
METHOD Method number by which analysis was performed.
ID Initials of the analyst.
ND Not detected in comparison to the reported detection limit.

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

LIMITATION OF LIABILITIES

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

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



CHAIN OF CUSTODY

PAGE 1 OF 1

Alpha
Eight Walkup Drive Westborough, MA 01581
TEL: 508-898-9220 FAX: 508-898-9193

Client Information

Client: ERM

Address: 399 Boylston St. 6th Fl.

Boston, MA 02116

Phone: 617-646-7800

Fax: 617-267-6447

Email: Theresa.Kennedy@erm.com

These samples have been previously analyzed by Alpha
Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: Raytheon - Weyland

Project Location: Weyland, MA

Project #: 0013606.03.02

Project Manager: Jeremy Record

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: 5/7/04 Time:

Date Rec'd in Lab: 4/30/04

Report Information - Data Deliverables

FAX EMAIL

RINDEX Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

ALPHA Job #: 0404522

Billing Information

Same as Client info PO #:

MCP PRESUMPTIVE CERTAINTY - THESE QUESTIONS MUST BE ANSWERED

Yes No Are MCP Analytical Methods Required?
 Yes No Are Drinking Water Samples Submitted?
 Yes No Have you met minimum field CC requirements?

ANALYSIS

90218: CUOC is
Dissolved As *
Diss. Fe, Mn *
Cl, SO₄, NO₃ + Alt.
Diss Gases: Methane
Ethane, Ethene
BT, Hex G (M)
Diox (M)

SAMPLE HANDLING

Filtration None
 Not needed
 Lab to do
Preservation Lab to do
(Please specify below)

Sample Specific Comments

* Field Filtered
Using 0.45 micron
filters

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials	ANALYSIS	SAMPLE HANDLING
04522.1	MW-2675	4/30/04	1330	GW	MH	2	2
	MW-2675 MS/MSD	4/30/04	1330	GW	MH	2	2
	MW-2675	4/30/04	1215	GW	MH	2	1
	MW-2085	4/30/04	1100	GW	MH	2	1
	MW-2087	4/30/04	0920	GW	MH	2	1
	BUP to	4/30/04	2400	GW	MH	2	1
	TB	4/30/04	1140	GW	IB	1	1

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

IS YOUR PROJECT MCP?

MCP?

Relinquished By:

Date/Time

4/30/04 1330

Received By:

Date/Time

4/30/04 1330

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.