

ALPHA ANALYTICAL LABORATORIES

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

CERTIFICATE OF ANALYSIS

Client: ERM-New England **Laboratory Job Number:** L0407963
Address: 399 Boylston Street
6th Floor **Date Received:** 21-JUL-2004
Boston, MA 02116 **Date Reported:** 27-JUL-2004
Attn: Jeremy Picard **Delivery Method:** Alpha
Project Number: 13606
Site: RAYTHEON WAYLAND

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0407963-01	MW-267S	WAYLAND
L0407963-02	MW-267M	WAYLAND
L0407963-03	MW-266MB	WAYLAND

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

Authorized by: Scott McLean
This document electronically signed

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0407963

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Dissolved Gases by GC for sample(s) 01-03 (L0407963-01, WG176621)					
Methane	488.	489.	ug/l	0	25
Ethene	0.627	0.602	ug/l	4	25
Ethane	ND	ND	ug/l	NC	25

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QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0407963

Parameter	% Recovery	QC Criteria
Dissolved Gases by GC LCS for sample(s) 01-03 (WG176621)		
Methane	109	80-120
Ethene	101	80-120
Ethane	103	80-120
Dissolved Gases by GC SPIKE for sample(s) 01-03 (L0407963-03, WG176621)		
Methane	92	80-120
Ethene	87	80-120
Ethane	90	80-120

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0407963

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-03 (WG176621-4)							
Dissolved Gases by GC				53 -		0723	08:18 PS
Methane	ND	ug/l	0.300				
Ethene	ND	ug/l	0.500				
Ethane	ND	ug/l	0.500				

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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.

