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

Address: 399 Boylston Street
6th Floor
Boston, MA 02116

Attn: Jeremy Picard

Project Number: 13606

Site: RAYTHEON WAYLAND

Laboratory Job Number: L0407882

Date Received: 20-JUL-2004

Date Reported: 27-JUL-2004

Delivery Method: Alpha

The following questions pertain only to MCP Analytical Methods

An affirmative response to questions A,B,C & D is required for "Presumptive Certainty" status

A. Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B. Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D. **VPH and EPH methods only:** Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	NA

A response to questions E and F is required for "Presumptive Certainty" status

E. Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F. Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO

Any answers of NO to the above questions are addressed in the case narrative.

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: Ellen M. Collins
This document electronically signed

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0407882
Date Reported: 27-JUL-2004

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0407882-01	MW-262S	WAYLAND
L0407882-02	MW-261S	WAYLAND
L0407882-03	FD-03	WAYLAND

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0407882

MCP Related Narratives

Report Submission

In reference to question F, at the client's request, the samples were analyzed only for the compounds specified on the chain of custody.

Volatile Organics

L0407882-02 and -03 have elevated limits of detection due to the 100x dilutions required by the elevated concentrations of target compounds in the sample.

In reference to question E, the LCS % recovery for Bromomethane, a difficult analyte, is below the acceptance criteria for the method.

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: L0407882-01
MW-262S
Sample Matrix: WATER

Date Collected: 20-JUL-2004 14:15
Date Received : 20-JUL-2004
Date Reported : 27-JUL-2004

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by MCP 8260B				60 8260B		0725 18:31	RY
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	2.2	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
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				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
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	47.	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				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0407882-01
MW-262S

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by MCP 8260B continued				60 8260B		0725 18:31	RY
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	120.	%	70-130				
Toluene-d8	100.	%	70-130				
4-Bromofluorobenzene	107.	%	70-130				
Dibromofluoromethane	110.	%	70-130				

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: L0407882-02
MW-261S
Sample Matrix: WATER

Date Collected: 20-JUL-2004 15:15
Date Received : 20-JUL-2004
Date Reported : 27-JUL-2004

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Alkalinity, Total	52.	mg CaCO3/L	2.0	30	2320B		0721 11:56	SD
Chloride	6.6	mg/l	1.0	1	9251		0726 23:29	DD
Nitrogen, Nitrate	ND	mg/l	0.10	30	4500NO3-F		0720 22:57	DD
Sulfate	35.	mg/l	10.	1	9038	0721 10:00	0721 10:00	ST
Dissolved Metals by MCP 6000/7000 series								
Iron, Dissolved	9.32	mg/l	0.500	54	6020A	0721 11:40	0723 13:20	RW
Manganese, Dissolved	0.3170	mg/l	0.0005	54	6020A	0721 11:40	0723 13:20	RW
Volatile Organics by MCP 8260B				60	8260B		0725 19:07	RY
Methylene chloride	ND	ug/l	500					
1,1-Dichloroethane	ND	ug/l	75.					
Chloroform	ND	ug/l	75.					
Carbon tetrachloride	ND	ug/l	50.					
1,2-Dichloropropane	ND	ug/l	180					
Dibromochloromethane	ND	ug/l	50.					
1,1,2-Trichloroethane	ND	ug/l	75.					
Tetrachloroethene	75.	ug/l	50.					
Chlorobenzene	ND	ug/l	50.					
1,2-Dichloroethane	ND	ug/l	50.					
1,1,1-Trichloroethane	ND	ug/l	50.					
Bromodichloromethane	ND	ug/l	50.					
trans-1,3-Dichloropropene	ND	ug/l	50.					
cis-1,3-Dichloropropene	ND	ug/l	50.					
Bromoform	ND	ug/l	200					
1,1,2,2-Tetrachloroethane	ND	ug/l	50.					
Chloromethane	ND	ug/l	250					
Vinyl chloride	ND	ug/l	100					
Chloroethane	ND	ug/l	100					
1,1-Dichloroethene	ND	ug/l	50.					
trans-1,2-Dichloroethene	ND	ug/l	75.					
Trichloroethene	4800	ug/l	50.					
1,2-Dichlorobenzene	ND	ug/l	250					
1,3-Dichlorobenzene	ND	ug/l	250					
1,4-Dichlorobenzene	ND	ug/l	250					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0407882-02
MW-261S

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by MCP 8260B continued				60 8260B		0725 19:07	RY
cis-1,2-Dichloroethene	130	ug/l	50.				
Dichlorodifluoromethane	ND	ug/l	500				
1,2-Dibromoethane	ND	ug/l	200				
1,3-Dichloropropane	ND	ug/l	250				
1,1,1,2-Tetrachloroethane	ND	ug/l	50.				
o-Chlorotoluene	ND	ug/l	250				
p-Chlorotoluene	ND	ug/l	250				
Hexachlorobutadiene	ND	ug/l	100				
1,2,4-Trichlorobenzene	ND	ug/l	250				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	120.	%	70-130				
Toluene-d8	99.0	%	70-130				
4-Bromofluorobenzene	105.	%	70-130				
Dibromofluoromethane	113.	%	70-130				

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: L0407882-03
FD-03
Sample Matrix: WATER

Date Collected: 20-JUL-2004 00:00
Date Received : 20-JUL-2004
Date Reported : 27-JUL-2004

Condition of Sample: Satisfactory

Field Prep: Field Filtered

Number & Type of Containers: 3-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Alkalinity, Total	50.	mg CaCO3/L	2.0	30	2320B		0721 11:56	SD
Chloride	7.8	mg/l	1.0	1	9251		0726 23:29	DD
Nitrogen, Nitrate	ND	mg/l	0.10	30	4500NO3-F		0720 22:58	DD
Sulfate	35.	mg/l	10.	1	9038	0721 10:00	0721 10:00	ST
Dissolved Metals by MCP 6000/7000 series								
Iron, Dissolved	9.06	mg/l	0.500	54	6020A	0721 11:40	0723 13:26	RW
Manganese, Dissolved	0.3170	mg/l	0.0005	54	6020A	0721 11:40	0723 13:26	RW
Volatile Organics by MCP 8260B				60	8260B		0725 19:43	RY
Methylene chloride	ND	ug/l	500					
1,1-Dichloroethane	ND	ug/l	75.					
Chloroform	ND	ug/l	75.					
Carbon tetrachloride	ND	ug/l	50.					
1,2-Dichloropropane	ND	ug/l	180					
Dibromochloromethane	ND	ug/l	50.					
1,1,2-Trichloroethane	ND	ug/l	75.					
Tetrachloroethene	76.	ug/l	50.					
Chlorobenzene	ND	ug/l	50.					
1,2-Dichloroethane	ND	ug/l	50.					
1,1,1-Trichloroethane	ND	ug/l	50.					
Bromodichloromethane	ND	ug/l	50.					
trans-1,3-Dichloropropene	ND	ug/l	50.					
cis-1,3-Dichloropropene	ND	ug/l	50.					
Bromoform	ND	ug/l	200					
1,1,2,2-Tetrachloroethane	ND	ug/l	50.					
Chloromethane	ND	ug/l	250					
Vinyl chloride	ND	ug/l	100					
Chloroethane	ND	ug/l	100					
1,1-Dichloroethene	ND	ug/l	50.					
trans-1,2-Dichloroethene	ND	ug/l	75.					
Trichloroethene	4900	ug/l	50.					
1,2-Dichlorobenzene	ND	ug/l	250					
1,3-Dichlorobenzene	ND	ug/l	250					
1,4-Dichlorobenzene	ND	ug/l	250					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0407882-03
FD-03

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by MCP 8260B continued				60 8260B		0725 19:43	RY
cis-1,2-Dichloroethene	130	ug/l	50.				
Dichlorodifluoromethane	ND	ug/l	500				
1,2-Dibromoethane	ND	ug/l	200				
1,3-Dichloropropane	ND	ug/l	250				
1,1,1,2-Tetrachloroethane	ND	ug/l	50.				
o-Chlorotoluene	ND	ug/l	250				
p-Chlorotoluene	ND	ug/l	250				
Hexachlorobutadiene	ND	ug/l	100				
1,2,4-Trichlorobenzene	ND	ug/l	250				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	120.	%	70-130				
Toluene-d8	99.0	%	70-130				
4-Bromofluorobenzene	107.	%	70-130				
Dibromofluoromethane	114.	%	70-130				

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0407882

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Alkalinity, Total for sample(s) 02-03 (L0407913-02, WG176288)					
Alkalinity, Total	5.7	5.8	mg CaCO3/L	2	4
Chloride for sample(s) 02-03 (L0407964-01, WG176724)					
Chloride	63.	62.	mg/l	2	7
Nitrogen, Nitrate for sample(s) 02-03 (L0407895-09, WG176206)					
Nitrogen, Nitrate	ND	ND	mg/l	NC	6
Sulfate for sample(s) 02-03 (L0407842-02, WG176256)					
Sulfate	ND	ND	mg/l	NC	14

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0407882

Parameter	% Recovery	QC Criteria
Alkalinity, Total LCS for sample(s) 02-03 (WG176288)		
Alkalinity, Total	102	85-115
Chloride LCS for sample(s) 02-03 (WG176724)		
Chloride	97	84-110
Nitrogen, Nitrate LCS for sample(s) 02-03 (WG176206)		
Nitrogen, Nitrate	100	88-105
Sulfate LCS for sample(s) 02-03 (WG176256)		
Sulfate	100	84-108
Alkalinity, Total SPIKE for sample(s) 02-03 (L0407913-01, WG176288)		
Alkalinity, Total	103	86-116
Chloride SPIKE for sample(s) 02-03 (L0407964-01, WG176724)		
Chloride	80	58-140
Nitrogen, Nitrate SPIKE for sample(s) 02-03 (L0407895-07, WG176206)		
Nitrogen, Nitrate	95	83-120
Sulfate SPIKE for sample(s) 02-03 (L0407842-01, WG176256)		
Sulfate	125	55-147

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0407882

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Dissolved Metals by MCP 6000/7000 series for sample(s) 02-03 (WG176327-2, WG176327)					
Iron, Dissolved	98	98	0		75-125
Manganese, Dissolved	100	100	0		75-125
Volatile Organics by MCP 8260B for sample(s) 01-03 (WG176636-1, WG176636)					
Methylene chloride	103	103	0	25	70-130
1,1-Dichloroethane	106	109	3	25	70-130
Chloroform	109	110	1	25	70-130
Carbon tetrachloride	100	108	8	25	70-130
1,2-Dichloropropane	102	105	3	25	70-130
Dibromochloromethane	94	100	6	25	70-130
1,1,2-Trichloroethane	102	104	2	25	70-130
Tetrachloroethene	106	108	2	25	70-130
Chlorobenzene	103	105	2	25	70-130
Trichlorofluoromethane	117	112	4	25	70-130
1,2-Dichloroethane	117	118	1	25	70-130
1,1,1-Trichloroethane	108	112	4	25	70-130
Bromodichloromethane	106	108	2	25	70-130
trans-1,3-Dichloropropene	102	104	2	25	70-130
cis-1,3-Dichloropropene	101	103	2	25	70-130
1,1-Dichloropropene	103	109	6	25	70-130
Bromoform	95	101	6	50	70-130
1,1,2,2-Tetrachloroethane	99	99	0	25	70-130
Benzene	103	105	2	25	70-130
Toluene	101	104	3	25	70-130
Ethylbenzene	106	109	3	25	70-130
Chloromethane	90	100	11	50	70-130
Bromomethane	52	81	44	50	70-130
Vinyl chloride	116	116	0	25	70-130
Chloroethane	118	123	4	25	70-130
1,1-Dichloroethene	95	104	9	25	70-130
trans-1,2-Dichloroethene	102	107	5	25	70-130
Trichloroethene	106	108	2	25	70-130
1,2-Dichlorobenzene	101	103	2	25	70-130
1,3-Dichlorobenzene	102	104	2	25	70-130
1,4-Dichlorobenzene	100	102	2	25	70-130
Methyl tert butyl ether	92	95	3	25	70-130
p/m-Xylene	105	108	3	25	70-130
o-Xylene	108	110	2	25	70-130
cis-1,2-Dichloroethene	108	111	3	25	70-130
Dibromomethane	108	108	0	25	70-130
1,2,3-Trichloropropane	100	100	0	25	70-130
Styrene	109	110	1	25	70-130
Dichlorodifluoromethane	98	102	4	50	70-130
Acetone	122	104	16	50	70-130
Carbon disulfide	97	101	4	25	70-130
2-Butanone	98	96	2	50	70-130
4-Methyl-2-pentanone	90	91	1	50	70-130
2-Hexanone	103	102	1	50	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0407882

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01-03 (WG176636-1, WG176636)					
Bromochloromethane	111	109	2	25	70-130
Tetrahydrofuran	128	121	6	25	70-130
2,2-Dichloropropane	108	111	3	25	70-130
1,2-Dibromoethane	99	100	1	25	70-130
1,3-Dichloropropane	100	101	1	25	70-130
1,1,1,2-Tetrachloroethane	105	109	4	25	70-130
Bromobenzene	103	104	1	25	70-130
n-Butylbenzene	90	92	2	25	70-130
sec-Butylbenzene	99	102	3	25	70-130
tert-Butylbenzene	99	103	4	25	70-130
o-Chlorotoluene	104	108	4	25	70-130
p-Chlorotoluene	102	103	1	25	70-130
1,2-Dibromo-3-chloropropane	94	97	3	50	70-130
Hexachlorobutadiene	102	104	2	25	70-130
Isopropylbenzene	106	109	3	25	70-130
p-Isopropyltoluene	95	98	3	25	70-130
Naphthalene	73	75	3	25	70-130
n-Propylbenzene	101	104	3	25	70-130
1,2,3-Trichlorobenzene	81	84	4	25	70-130
1,2,4-Trichlorobenzene	79	79	0	25	70-130
1,3,5-Trimethylbenzene	98	101	3	25	70-130
1,2,4-Trimethylbenzene	94	97	3	25	70-130
Ethyl ether	96	100	4	25	70-130
Isopropyl Ether	98	98	0	25	70-130
Ethyl-Tert-Butyl-Ether	93	96	3	25	70-130
Tertiary-Amyl Methyl Ether	92	94	2	25	70-130
1,4-Dioxane	101	106	5	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	114	111	3		70-130
Toluene-d8	100	99	1		70-130
4-Bromofluorobenzene	101	101	0		70-130
Dibromofluoromethane	111	107	4		70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0407882

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 02-03 (WG176288-1)								
Alkalinity, Total	ND	mg CaCO3/L	2.0	30	2320B		0721 11:56	SD
Blank Analysis for sample(s) 02-03 (WG176724-2)								
Chloride	ND	mg/l	1.0	1	9251		0726 22:29	DD
Blank Analysis for sample(s) 02-03 (WG176206-2)								
Nitrogen, Nitrate	ND	mg/l	0.10	30	4500NO3-F		0720 22:24	DD
Blank Analysis for sample(s) 02-03 (WG176256-1)								
Sulfate	ND	mg/l	10.	1	9038	0721 10:00	0721 10:00	ST
Blank Analysis for sample(s) 02-03 (WG176327-1)								
Dissolved Metals by MCP 6000/7000 series								
Iron, Dissolved	ND	mg/l	0.500	54	6020A	0721 11:40	0723 12:02	RW
Manganese, Dissolved	ND	mg/l	0.0005	54	6020A	0721 11:40	0723 12:02	RW
Blank Analysis for sample(s) 01-03 (WG176636-3)								
Volatile Organics by MCP 8260B				60	8260B		0725 11:30	RY
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	2.0					
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					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0407882

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03 (WG176636-3)							
Volatile Organics by MCP 8260B continued				60 8260B		0725 11:30	RY
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				
1,2,3-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				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	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	2.0				
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-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	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	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	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-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Isopropyl Ether	ND	ug/l	2.0				
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0				
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0				
1,4-Dioxane	ND	ug/l	250				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0407882

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-03 (WG176636-3)							
Volatile Organics by MCP 8260B continued				60 8260B		0725 11:30	RY
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	118.	%	70-130				
Toluene-d8	100.	%	70-130				
4-Bromofluorobenzene	109.	%	70-130				
Dibromofluoromethane	111.	%	70-130				

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

54. Compendium of Quality Assurance and Quality Control Requirements and Performance Standards for Selected Analytical Methods. MADEP BWSC. Final Methods. May 2003.

60. Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

GLOSSARY OF TERMS AND SYMBOLS

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

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

LIMITATION OF LIABILITIES

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

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

ALPHA ANALYTICAL LABORATORIES
LOGIN SPECIFIC INFORMATION

Laboratory Job Number: L0407882

Were project specific reporting limits specified? NO

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0407882-01A	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	MCP-8260-04
L0407882-01B	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	MCP-8260-04
L0407882-02A	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	MCP-8260-04
L0407882-02B	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	MCP-8260-04
L0407882-02C	Plastic 250ml HNO3 preserved	A	<2	0.8 C	Y	Absent	MCP-FE-6020S
L0407882-02D	Plastic 250ml HNO3 preserved	A	<2	0.8 C	Y	Absent	MCP-FE-6020S, MCP-MN-6020S
L0407882-02E	Plastic 500ml unpreserved	A	=7	0.8 C	Y	Absent	ALK-T-2320, CL-9251, NO3-4500, SO4-9038
L0407882-03A	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	MCP-8260-04
L0407882-03B	Vial HCl preserved	A	N/A	0.8 C	Y	Absent	MCP-8260-04
L0407882-03C	Plastic 250ml HNO3 preserved	A	<2	0.8 C	Y	Absent	MCP-FE-6020S
L0407882-03D	Plastic 250ml HNO3 preserved	A	<2	0.8 C	Y	Absent	MCP-FE-6020S, MCP-MN-6020S
L0407882-03E	Plastic 500ml unpreserved	A	=7	0.8 C	Y	Absent	ALK-T-2320, CL-9251, NO3-4500, SO4-9038

Container Comments

Container ID	Comments

CHAIN OF CUSTODY

PAGE OF

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

Date Rec'd in Lab: 7/20

ALPHA Job #: L0407842

Client Information

Client: ERM

Address: 399 Boylston St, 6th Fl.
Boston MA 02116

Phone: 617 646 7800

Fax: 617 267 6447

Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Raytheon

Project Location: Wayland

Project #: 13606

Project Manager: J. Picard

ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due: 7/27 Time:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL

☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program Criteria

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 QC requirements?

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	8021	Diss As	Diss Fe/Mn	NO3, SO4, Alk, Cl	Diss MEE	SOIL MTBE Benzene	TOTAL # BOTTLES	Sample Specific Comments
7842.1	MW-262S	7.20.04	1415	GW	EM	✓							* Samples for Diss. metal analysis field filtered 0.45µm
2	MW-261S	7.20.04	1515	GW	EM	✓	✓	✓	✓	✓		7	
3	FD-03	7.20.04	2400	GW	EM	✓	✓	✓	✓	✓		7	
	MW-207M	7.20.04	14:30	GW	LR						2	2	
	MSMW-207M	7.20.04	14:40	GW	LR						2	2	
	MSDMW-207M	7.20.04	14:45	GW	LR						2	2	
	TB-2	7.14.04	16:40		JM	1						1	

Container Type	V	P	P	P	V	V
Preservative	B	C	C	A	B	C

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

IS YOUR PROJECT MCP?

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	7.20.04 1640	[signature]	7/20/04 1640
[signature]	7/20 1730	[signature]	7/20 1730

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.

FORM NO. 01-01