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: Mr. Tim Pac

Project Number: 1922.09

Site: RAYTHEON

Laboratory Job Number: L0309904

Date Received: 02-OCT-2003

Date Reported: 09-OCT-2003

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: James Todaro
This document electronically signed

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0309904
Date Reported: 09-OCT-2003

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0309904-01	MW-101	WAYLAND, MA
L0309904-02	MW-107	WAYLAND, MA
L0309904-03	MW-108	WAYLAND, MA
L0309904-04	MW-214	WAYLAND, MA

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0309904

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

In reference to question E, the LCS % recovery for Bromomethane at 40% on -01 through -03, and at 55% on -04 is below the acceptance criteria required for the method. This analyte is considered to be a difficult analyte, therefore no further action was taken.

In reference to question E, the LCS % recovery for Naphthalene at 64% is below acceptance criteria, and Acetone at 147% is above acceptance criteria.

Dissolved Metals

Due to high Na concentrations, -01 and -02 were diluted 5x prior to re-analysis and -03 and -04 were diluted 2x prior to analysis.

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: L0309904-01
MW-101
Sample Matrix: WATER

Date Collected: 02-OCT-2003 11:50
Date Received : 02-OCT-2003
Date Reported : 09-OCT-2003

Condition of Sample: Satisfactory

Field Prep: Field Filtered

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

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Chloride	66.	mg/l	1.0	1	9251		1003 17:52	DD
Hexavalent Chromium by MCP 7196A								
Chromium, Hexavalent	0.11	mg/l	0.02	55	7196A	1002 19:35	1002 19:35	JT
Dissolved Metals								
Chromium, Dissolved	0.10	mg/l	0.01	54	6010B		1008 09:06	RW
Manganese, Dissolved	0.04	mg/l	0.01	54	6010B		1008 09:06	RW
Sodium, Dissolved	>20	mg/l	2	54	6010B		1008 09:06	RW
Sodium, Dissolved	50.	mg/l	10.	54	6010B		1008 09:41	RW
Volatile Organics by MCP 8260B				54	8260B		1003 22:40	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					
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					
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	2.0	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					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0309904-01
MW-101

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by MCP 8260B continued				54 8260B		1003 22:40	BT
Dichlorodifluoromethane	ND	ug/l	5.0				
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				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	91.0	%	70-130				
Toluene-d8	87.0	%	70-130				
4-Bromofluorobenzene	93.0	%	70-130				
Dibromofluoromethane	87.0	%	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: L0309904-02
MW-107
Sample Matrix: WATER

Date Collected: 02-OCT-2003 09:52
Date Received : 02-OCT-2003
Date Reported : 09-OCT-2003

Condition of Sample: Satisfactory

Field Prep: Field Filtered

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

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Chloride	250	mg/l	10.	1	9251		1003 18:18	DD
Hexavalent Chromium by MCP 7196A								
Chromium, Hexavalent	ND	mg/l	0.02	55	7196A	1002 19:35	1002 19:35	JT
Dissolved Metals								
Chromium, Dissolved	ND	mg/l	0.01	54	6010B		1008 09:10	RW
Manganese, Dissolved	4.5	mg/l	0.01	54	6010B		1008 09:10	RW
Sodium, Dissolved	>20	mg/l	2	54	6010B		1008 09:10	RW
Sodium, Dissolved	42.	mg/l	10.	54	6010B		1008 09:45	RW
Volatile Organics by MCP 8260B				54	8260B		1003 23:26	BT
Methylene chloride	ND	ug/l	10.					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	ND	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
Tetrachloroethene	ND	ug/l	1.0					
Chlorobenzene	ND	ug/l	1.0					
1,2-Dichloroethane	ND	ug/l	1.0					
1,1,1-Trichloroethane	ND	ug/l	1.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND	ug/l	1.0					
Bromoform	ND	ug/l	4.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Chloromethane	ND	ug/l	5.0					
Vinyl chloride	ND	ug/l	2.0					
Chloroethane	ND	ug/l	2.0					
1,1-Dichloroethene	ND	ug/l	1.0					
trans-1,2-Dichloroethene	ND	ug/l	1.5					
Trichloroethene	74.	ug/l	1.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
cis-1,2-Dichloroethene	3.5	ug/l	1.0					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0309904-02
MW-107

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by MCP 8260B continued				54 8260B		1003 23:26	BT
Dichlorodifluoromethane	ND	ug/l	10.				
1,2-Dibromoethane	ND	ug/l	5.0				
1,3-Dichloropropane	ND	ug/l	5.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0				
o-Chlorotoluene	ND	ug/l	5.0				
p-Chlorotoluene	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	5.0				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	91.0	%	70-130				
Toluene-d8	86.0	%	70-130				
4-Bromofluorobenzene	93.0	%	70-130				
Dibromofluoromethane	84.0	%	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: L0309904-03
MW-108
Sample Matrix: WATER

Date Collected: 02-OCT-2003 09:40
Date Received : 02-OCT-2003
Date Reported : 09-OCT-2003

Condition of Sample: Satisfactory

Field Prep: Field Filtered

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

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Chloride	44.	mg/l	1.0	1	9251		1003 19:34	DD
Hexavalent Chromium by MCP 7196A								
Chromium, Hexavalent	ND	mg/l	0.02	55	7196A	1002 19:35	1002 19:35	JT
Dissolved Metals								
Chromium, Dissolved	ND	mg/l	0.01	54	6010B		1008 09:24	RW
Manganese, Dissolved	0.12	mg/l	0.01	54	6010B		1008 09:24	RW
Sodium, Dissolved	>20	mg/l	2	54	6010B		1008 09:24	RW
Sodium, Dissolved	28.	mg/l	4.0	54	6010B		1008 09:48	RW
Volatile Organics by MCP 8260B				54	8260B		1004 00:12	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					
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					
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	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					
cis-1,2-Dichloroethene	ND	ug/l	0.50					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0309904-03
MW-108

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by MCP 8260B continued				54 8260B		1004 00:12	BT
Dichlorodifluoromethane	ND	ug/l	5.0				
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				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	91.0	%	70-130				
Toluene-d8	86.0	%	70-130				
4-Bromofluorobenzene	92.0	%	70-130				
Dibromofluoromethane	84.0	%	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: L0309904-04
MW-214
Sample Matrix: WATER

Date Collected: 02-OCT-2003 11:05
Date Received : 02-OCT-2003
Date Reported : 09-OCT-2003

Condition of Sample: Satisfactory

Field Prep: Field Filtered

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

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Chloride	120	mg/l	10.	1	9251		1003 18:20	DD
Hexavalent Chromium by MCP 7196A								
Chromium, Hexavalent	ND	mg/l	0.02	55	7196A	1002 19:35	1002 19:35	JT
Dissolved Metals								
Chromium, Dissolved	ND	mg/l	0.01	54	6010B		1008 09:27	RW
Manganese, Dissolved	0.99	mg/l	0.01	54	6010B		1008 09:27	RW
Sodium, Dissolved	>20	mg/l	2	54	6010B		1008 09:27	RW
Sodium, Dissolved	31.	mg/l	4.0	54	6010B		1008 09:52	RW
Volatile Organics by MCP 8260B				54	8260B		1005 13:20	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					
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					
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	3.8	ug/l	0.50					
trans-1,2-Dichloroethene	ND	ug/l	0.75					
Trichloroethene	77.	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	4.6	ug/l	0.50					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0309904-04
MW-214

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by MCP 8260B continued				54 8260B		1005 13:20	BT
Dichlorodifluoromethane	ND	ug/l	5.0				
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				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	98.0	%	70-130				
Toluene-d8	91.0	%	70-130				
4-Bromofluorobenzene	95.0	%	70-130				
Dibromofluoromethane	93.0	%	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: L0309904

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Chloride for sample(s) 01-04 (L0309904-03, WG152385)					
Chloride	44.	14.	mg/l	0	7
Hexavalent Chromium by MCP 7196A for sample(s) 01-04 (L0309904-01, WG152276)					
Chromium, Hexavalent	0.11	0.11	mg/l	0	20

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0309904

Parameter	% Recovery	QC Criteria
Chloride LCS for sample(s) 01-04 (WG152385)		
Chloride	100	84-110
Hexavalent Chromium by MCP 7196A LCS for sample(s) 01-04 (WG152276)		
Chromium, Hexavalent	99	80-120
Dissolved Metals LCS for sample(s) 01-04 (WG152591)		
Chromium, Dissolved	95	80-120
Manganese, Dissolved	96	80-120
Sodium, Dissolved	100	80-120
Volatile Organics by MCP 8260B LCS for sample(s) 04 (WG152436)		
Methylene chloride	82	70-130
1,1-Dichloroethane	96	70-130
Chloroform	95	70-130
Carbon tetrachloride	100	70-130
1,2-Dichloropropane	98	70-130
Dibromochloromethane	90	70-130
1,1,2-Trichloroethane	99	70-130
Tetrachloroethene	96	70-130
Chlorobenzene	96	70-130
Trichlorofluoromethane	102	70-130
1,2-Dichloroethane	99	70-130
1,1,1-Trichloroethane	101	70-130
Bromodichloromethane	95	70-130
trans-1,3-Dichloropropene	86	70-130
cis-1,3-Dichloropropene	91	70-130
1,1-Dichloropropene	96	70-130
Bromoform	90	70-130
1,1,2,2-Tetrachloroethane	100	70-130
Benzene	87	70-130
Toluene	95	70-130
Ethylbenzene	98	70-130
Chloromethane	85	70-130
Bromomethane	55	70-130
Vinyl chloride	92	70-130
Chloroethane	96	70-130
1,1-Dichloroethene	93	70-130
trans-1,2-Dichloroethene	93	70-130
Trichloroethene	98	70-130
1,2-Dichlorobenzene	93	70-130
1,3-Dichlorobenzene	93	70-130
1,4-Dichlorobenzene	95	70-130
Methyl tert butyl ether	98	70-130
p/m-Xylene	97	70-130
o-Xylene	97	70-130
cis-1,2-Dichloroethene	100	70-130
Dibromomethane	100	70-130
1,2,3-Trichloropropane	98	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0309904

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by MCP 8260B LCS for sample(s) 04 (WG152436)		
Styrene	99	70-130
Dichlorodifluoromethane	91	70-130
Acetone	133	70-130
Carbon disulfide	90	70-130
2-Butanone	110	70-130
4-Methyl-2-pentanone	95	70-130
2-Hexanone	91	70-130
Bromochloromethane	99	70-130
Tetrahydrofuran	94	70-130
2,2-Dichloropropane	101	70-130
1,2-Dibromoethane	99	70-130
1,3-Dichloropropane	98	70-130
1,1,1,2-Tetrachloroethane	98	70-130
Bromobenzene	95	70-130
n-Butylbenzene	89	70-130
sec-Butylbenzene	93	70-130
tert-Butylbenzene	94	70-130
o-Chlorotoluene	95	70-130
p-Chlorotoluene	93	70-130
1,2-Dibromo-3-chloropropane	95	70-130
Hexachlorobutadiene	93	70-130
Isopropylbenzene	91	70-130
p-Isopropyltoluene	93	70-130
Naphthalene	75	70-130
n-Propylbenzene	94	70-130
1,2,3-Trichlorobenzene	89	70-130
1,2,4-Trichlorobenzene	90	70-130
1,3,5-Trimethylbenzene	95	70-130
1,2,4-Trimethylbenzene	98	70-130
Ethyl ether	95	70-130
Isopropyl Ether	89	70-130
Ethyl-Tert-Butyl-Ether	90	70-130
Tertiary-Amyl Methyl Ether	93	70-130
1,4-Dioxane	112	70-130
Surrogate(s)		
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	98	70-130
Dibromofluoromethane	100	70-130
Volatile Organics by MCP 8260B LCS for sample(s) 02-03 (WG152436)		
Methylene chloride	82	70-130
1,1-Dichloroethane	97	70-130
Chloroform	93	70-130
Carbon tetrachloride	98	70-130
1,2-Dichloropropane	97	70-130
Dibromochloromethane	99	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0309904

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by MCP 8260B LCS for sample(s) 02-03 (WG152436)		
1,1,2-Trichloroethane	108	70-130
Tetrachloroethene	98	70-130
Chlorobenzene	102	70-130
1,2-Dichloroethane	96	70-130
1,1,1-Trichloroethane	98	70-130
Bromodichloromethane	96	70-130
trans-1,3-Dichloropropene	91	70-130
Bromoform	105	70-130
1,1,2,2-Tetrachloroethane	120	70-130
Chloromethane	90	70-130
Vinyl chloride	98	70-130
Chloroethane	96	70-130
1,1-Dichloroethene	92	70-130
trans-1,2-Dichloroethene	93	70-130
Trichloroethene	96	70-130
1,2-Dichlorobenzene	104	70-130
1,3-Dichlorobenzene	101	70-130
1,4-Dichlorobenzene	102	70-130
cis-1,2-Dichloroethene	98	70-130
Dichlorodifluoromethane	102	70-130
1,2-Dibromoethane	105	70-130
1,3-Dichloropropane	103	70-130
1,1,1,2-Tetrachloroethane	107	70-130
o-Chlorotoluene	102	70-130
p-Chlorotoluene	101	70-130
Hexachlorobutadiene	101	70-130
1,2,4-Trichlorobenzene	92	70-130
Surrogate(s)		
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	94	70-130
Dibromofluoromethane	92	70-130
Volatile Organics by MCP 8260B LCS for sample(s) 01 (WG152263)		
Methylene chloride	82	70-130
1,1-Dichloroethane	97	70-130
Chloroform	93	70-130
Carbon tetrachloride	98	70-130
1,2-Dichloropropane	97	70-130
Dibromochloromethane	99	70-130
1,1,2-Trichloroethane	108	70-130
Tetrachloroethene	98	70-130
Chlorobenzene	102	70-130
Trichlorofluoromethane	102	70-130
1,2-Dichloroethane	96	70-130
1,1,1-Trichloroethane	98	70-130
Bromodichloromethane	96	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0309904

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by MCP 8260B LCS for sample(s) 01 (WG152263)		
trans-1,3-Dichloropropene	91	70-130
cis-1,3-Dichloropropene	91	70-130
1,1-Dichloropropene	94	70-130
Bromoform	105	70-130
1,1,2,2-Tetrachloroethane	120	70-130
Benzene	86	70-130
Toluene	97	70-130
Ethylbenzene	101	70-130
Chloromethane	90	70-130
Bromomethane	40	70-130
Vinyl chloride	98	70-130
Chloroethane	96	70-130
1,1-Dichloroethene	92	70-130
trans-1,2-Dichloroethene	93	70-130
Trichloroethene	96	70-130
1,2-Dichlorobenzene	104	70-130
1,3-Dichlorobenzene	101	70-130
1,4-Dichlorobenzene	102	70-130
Methyl tert butyl ether	102	70-130
p/m-Xylene	101	70-130
o-Xylene	102	70-130
cis-1,2-Dichloroethene	98	70-130
Dibromomethane	99	70-130
1,2,3-Trichloropropane	111	70-130
Styrene	106	70-130
Dichlorodifluoromethane	102	70-130
Acetone	147	70-130
Carbon disulfide	91	70-130
2-Butanone	128	70-130
4-Methyl-2-pentanone	102	70-130
2-Hexanone	111	70-130
Bromochloromethane	99	70-130
Tetrahydrofuran	98	70-130
2,2-Dichloropropane	96	70-130
1,2-Dibromoethane	105	70-130
1,3-Dichloropropane	103	70-130
1,1,1,2-Tetrachloroethane	107	70-130
Bromobenzene	103	70-130
n-Butylbenzene	90	70-130
sec-Butylbenzene	99	70-130
tert-Butylbenzene	100	70-130
o-Chlorotoluene	102	70-130
p-Chlorotoluene	101	70-130
1,2-Dibromo-3-chloropropane	108	70-130
Hexachlorobutadiene	101	70-130
Isopropylbenzene	96	70-130
p-Isopropyltoluene	98	70-130
Naphthalene	64	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0309904

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by MCP 8260B LCS for sample(s) 01 (WG152263)		
n-Propylbenzene	99	70-130
1,2,3-Trichlorobenzene	91	70-130
1,2,4-Trichlorobenzene	92	70-130
1,3,5-Trimethylbenzene	101	70-130
1,2,4-Trimethylbenzene	103	70-130
Ethyl ether	99	70-130
Isopropyl Ether	91	70-130
Ethyl-Tert-Butyl-Ether	92	70-130
Tertiary-Amyl Methyl Ether	97	70-130
1,4-Dioxane	105	70-130
Surrogate(s)		
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	94	70-130
Dibromofluoromethane	92	70-130
Chloride SPIKE for sample(s) 01-04 (L0309929-13, WG152385)		
Chloride	120	58-140
Hexavalent Chromium by MCP 7196A SPIKE for sample(s) 01-04 (L0309904-03, WG152276)		
Chromium, Hexavalent	100	75-125

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0309904

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01-04 (WG152385-2)								
Chloride	ND	mg/l	1.0	1	9251		1003 17:39	DD
Blank Analysis for sample(s) 01-04 (WG152276-1)								
Hexavalent Chromium by MCP 7196A								
Chromium, Hexavalent	ND	mg/l	0.02	55	7196A	1002 19:35	1002 19:35	JT
Blank Analysis for sample(s) 01-04 (WG152591-1)								
Dissolved Metals								
Chromium, Dissolved	ND	mg/l	0.01	54	6010B		1008 08:30	RW
Manganese, Dissolved	ND	mg/l	0.01	54	6010B		1008 08:30	RW
Sodium, Dissolved	ND	mg/l	2.0	54	6010B		1008 08:30	RW
Blank Analysis for sample(s) 01 (WG152263-8)								
Volatile Organics by MCP 8260B				54	8260B		1003 14:57	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	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					
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					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0309904

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG152263-8)							
Volatile Organics by MCP 8260B continued				54 8260B		1003 14:57	BT
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	2.5				
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-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	2.5				
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				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	96.0	%	70-130				
Toluene-d8	93.0	%	70-130				
4-Bromofluorobenzene	102.	%	70-130				
Dibromofluoromethane	87.0	%	70-130				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0309904

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 02-03 (WG152436-2)							
Volatile Organics by MCP 8260B				54 8260B		1003 14:57	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				
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				
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	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				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
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				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	96.0	%	70-130				
Toluene-d8	93.0	%	70-130				
4-Bromofluorobenzene	102.	%	70-130				
Dibromofluoromethane	87.0	%	70-130				
Blank Analysis for sample(s) 04 (WG152436-8)							
Volatile Organics by MCP 8260B				54 8260B		1005 11:47	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				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0309904

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 04 (WG152436-8)							
Volatile Organics by MCP 8260B continued				54 8260B		1005 11:47	BT
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				
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	2.5				
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-Butylbenzene	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0309904

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 04 (WG152436-8)							
Volatile Organics by MCP 8260B continued				54 8260B		1005 11:47	BT
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	2.5				
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				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	94.0	%	70-130				
Toluene-d8	91.0	%	70-130				
4-Bromofluorobenzene	95.0	%	70-130				
Dibromofluoromethane	90.0	%	70-130				

REFERENCES

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

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

55. Compendium of Quality Assurance and Quality Control Requirements and Performance Standards for Selected Analytical Methods. MADEP BWSC. Final Methods. 30 July 2003.

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: L0309904

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0309904-01A	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309904-01B	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309904-01C	Plastic 250ml unpreserved	A	7	1.5 C	Y	Absent	CL-9251, MCP-HEXCR-7196
L0309904-01D	Plastic 250ml HNO3 preserved	A	<2	1.5 C	Y	Absent	CR-SI, MN-SI, NA-SI
L0309904-02A	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309904-02B	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309904-02C	Plastic 250ml unpreserved	A	7	1.5 C	Y	Absent	CL-9251, MCP-HEXCR-7196
L0309904-02D	Plastic 250ml HNO3 preserved	A	<2	1.5 C	Y	Absent	CR-SI, MN-SI, NA-SI
L0309904-03A	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309904-03B	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309904-03C	Plastic 250ml unpreserved	A	7	1.5 C	Y	Absent	CL-9251, MCP-HEXCR-7196
L0309904-03D	Plastic 250ml HNO3 preserved	A	<2	1.5 C	Y	Absent	CR-SI, MN-SI, NA-SI
L0309904-04A	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309904-04B	Vial HCl preserved	A	NA	1.5 C	Y	Absent	MCP-8260
L0309904-04C	Plastic 250ml unpreserved	A	7	1.5 C	Y	Absent	CL-9251, MCP-HEXCR-7196
L0309904-04D	Plastic 250ml HNO3 preserved	A	<2	1.5 C	Y	Absent	CR-SI, MN-SI, NA-SI

Container Comments

Container ID	Comments

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 10/2/03

ALPHA Job #: L0309904

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

Client Information

Client: FRM
Address: 399 Boylston St Fl6
Boston, MA 02116
Phone: 617 267 8377
Fax: 617 267 6447
Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Raytheon
Project Location: Wayland, MA
Project #: 1922.09
Project Manager: TPac
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 10/9/03 Time:

Other Project Specific Requirements/Comments/Detection Limits:

Report Information - Data Deliverables

☐ FAX ☐ EMAIL
☒ ADEx ☐ Add'l Deliverables hard copy

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?

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: 8021C	ANALYSIS: Cl, Cr+6	ANALYSIS: diss Cr, Mn, Na*	SAMPLE HANDLING	Sample Specific Comments	TOTAL # BOTTLES
0309904.1	MW-101	10/2/03	1150	MW	WS	2	1	1			4
2	MW-107	10/2/03	952	MW	WS	2	1	1			4
3	MW-108	10/2/03	940	MW	JTF	2	1	1		* field filtered using 0.45 micron filter	4
4	MW-214	10/2/03	1105	MW	JTF	2	1	1			4

SAMPLE HANDLING
Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

IS YOUR PROJECT MCP ?

Container Type	V P P
Preservative	B A C

Relinquished By	Date/Time	Received By	Date/Time
[signature]	10/2/03 1720	[signature]	10/3/03 1720
[signature]	10/2/03 1520	[signature]	10/3/03 1520

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.

(rev. 02-03 std)