

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: L0309781
Address: 399 Boylston Street
6th Floor
Boston, MA 02116 Date Received: 30-SEP-2003
Attn: Mr. Tim Pac Date Reported: 07-OCT-2003
Project Number: 1922.09 Delivery Method: Alpha
Site: RAYTHEON-WAYLAND

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: Scott McLean
This document electronically signed

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0309781
Date Reported: 07-OCT-2003

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0309781-01	MW-106M	WAYLAND
L0309781-02	MW-106	WAYLAND
L0309781-03	MW-104	WAYLAND
L0309781-04	MW-212	WAYLAND
L0309781-05	DUP-5	WAYLAND
L0309781-06	MW-212M	WAYLAND
L0309781-07	MW-209	WAYLAND
L0309781-08	MW-102	WAYLAND
L0309781-09	MW-105M	WAYLAND
L0309781-10	MW-105	WAYLAND
L0309781-11	DUP-4	WAYLAND
L0309781-12	MW-43D	WAYLAND
L0309781-13	MW-43S	WAYLAND
L0309781-14	MW-210	WAYLAND
L0309781-15	MW-211	WAYLAND
L0309781-16	MW-103	WAYLAND
L0309781-17	MW-213	WAYLAND

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0309781

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 associated with L0309781-01 through -07, -10 and -11 for Bromomethane at 39% 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 % recoveries associated with L0309781-01 through -07, -10 and -11 for Naphthalene at 59% is below acceptance criteria, and Acetone at 144% is above acceptance criteria. The associated samples are ND for the above mentioned compounds.

In reference to question E, the LCS % recovery associated with L0309781-08 for Bromomethane at 36% 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 % recoveries associated with L0309781-08 for Naphthalene at 66% is below acceptance criteria, and Acetone at 136% is above acceptance criteria. The associated samples are ND for the above mentioned compounds.

L0309781-08 was re-analyzed on dilution in order to quantitate the sample within the range of the calibration. The result is reported as a greater than value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the range of the calibration.

In reference to question E, the LCS % recovery associated with L0309781-12 through -17 for Dichlorodifluoromethane at 142% is above the acceptance criteria required for the method. The associated samples are ND for the above mentioned compound.

In reference to question E, the MS % recovery associated with L0309781-12 through -17 for 1,1,2-Trichloroethane at 133% is above acceptance criteria.

In reference to question E, the MS/MSD % recoveries associated with L0309781-12 through -17 for Bromoform at 142%/145%, and 1,1,2,2-Tertachloroethane at 151%/150% are above acceptance criteria.

**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: L0309781-01		Date Collected: 30-SEP-2003 09:40
	MW-106M	Date Received : 30-SEP-2003
Sample Matrix: WATER		Date Reported : 07-OCT-2003
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 MCP 8260B				54 8260B	1001 20:02	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			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0309781-01
MW-106M

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1001	20:02	BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	95.0	%		70-130			
Toluene-d8	89.0	%		70-130			
4-Bromofluorobenzene	93.0	%		70-130			
Dibromofluoromethane	82.0	%		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: L0309781-02	Date Collected: 30-SEP-2003 11:00
MW-106	Date Received : 30-SEP-2003
Sample Matrix: WATER	Date Reported : 07-OCT-2003
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 MCP 8260B				54 8260B	1001 20:49 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	0.98	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	10.	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			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0309781-02
MW-106

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1001	20:49	BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	94.0	%		70-130			
Toluene-d8	91.0	%		70-130			
4-Bromofluorobenzene	92.0	%		70-130			
Dibromofluoromethane	85.0	%		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: L0309781-03	Date Collected: 30-SEP-2003 11:45
MW-104	Date Received : 30-SEP-2003
Sample Matrix: WATER	Date Reported : 07-OCT-2003
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 MCP 8260B				54 8260B	1001 21:35 BT	
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	0.94	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	1.6	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	0.63	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	21.	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			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0309781-03
MW-104

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1001	21:35	BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	95.0	%		70-130			
Toluene-d8	91.0	%		70-130			
4-Bromofluorobenzene	92.0	%		70-130			
Dibromofluoromethane	86.0	%		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: L0309781-04	Date Collected: 30-SEP-2003 12:05
MW-212	Date Received : 30-SEP-2003
Sample Matrix: WATER	Date Reported : 07-OCT-2003
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 MCP 8260B				54 8260B	1001 22:21	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	0.77	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	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			

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0309781-04
 MW-212

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B		1001 22:21	BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	99.0	%		70-130			
Toluene-d8	91.0	%		70-130			
4-Bromofluorobenzene	94.0	%		70-130			
Dibromofluoromethane	93.0	%		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: L0309781-05	Date Collected: 30-SEP-2003 00:00
DUP-5	Date Received : 30-SEP-2003
Sample Matrix: WATER	Date Reported : 07-OCT-2003
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 MCP 8260B				54 8260B	1001 23:08	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	0.55	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			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0309781-05
DUP-5

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1001 23:08		BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	96.0	%		70-130			
Toluene-d8	91.0	%		70-130			
4-Bromofluorobenzene	94.0	%		70-130			
Dibromofluoromethane	89.0	%		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:	L0309781-06	Date Collected:	30-SEP-2003 12:40
	MW-212M	Date Received :	30-SEP-2003
Sample Matrix:	WATER	Date Reported :	07-OCT-2003
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 MCP 8260B				54 8260B	1001 23:54	BT
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	1.2	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	0.74	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			

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0309781-06
 MW-212M

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1001 23:54		BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	97.0	%		70-130			
Toluene-d8	91.0	%		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**

Laboratory Sample Number: L0309781-07
MW-209

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1002 00:41		BT
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	91.0	%		70-130			
4-Bromofluorobenzene	94.0	%		70-130			
Dibromofluoromethane	88.0	%		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: L0309781-08	Date Collected: 30-SEP-2003 16:45
	Date Received : 30-SEP-2003
Sample Matrix: MW-102 WATER	Date Reported : 07-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		ID
					PREP	ANAL	
Chloride	320	mg/l	10.	1 9251		1003 18:58	DD
Hexavalent Chromium by MCP 7196A							
Chromium, Hexavalent	ND	mg/l	0.02	55 7196A	1001 11:20	1001 11:20	JT
Dissolved Metals							
Chromium, Dissolved	ND	mg/l	0.01	54 6010B		1003 12:22	RW
Manganese, Dissolved	0.07	mg/l	0.01	54 6010B		1003 12:22	RW
Sodium, Dissolved	67.	mg/l	10.	54 6010B		1003 14:45	RW
Volatile Organics by MCP 8260B							
Methylene chloride	ND	ug/l	5.0	54 8260B		1002 01:27	BT
1,1-Dichloroethane	1.7	ug/l	0.75				
Chloroform	1.4	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	1.0	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	6.5	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	>100	ug/l	.5				
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	14.	ug/l	0.50				
Dichlorodifluoromethane	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: L0309781-08
MW-102

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1002	01:27	BT
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	97.0	%		70-130			
Toluene-d8	92.0	%		70-130			
4-Bromofluorobenzene	95.0	%		70-130			
Dibromofluoromethane	92.0	%		70-130			
Volatile Organics by MCP 8260B				54 8260B	1002	20:23	BT
Trichloroethene	490	ug/l	10.				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	95.0	%		70-130			
Toluene-d8	91.0	%		70-130			
4-Bromofluorobenzene	95.0	%		70-130			
Dibromofluoromethane	86.0	%		70-130			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0309781-09
MW-105M

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1002	21:09	BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	93.0	%		70-130			
Toluene-d8	90.0	%		70-130			
4-Bromofluorobenzene	96.0	%		70-130			
Dibromofluoromethane	85.0	%		70-130			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0309781-10
MW-105

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1002 03:00		BT
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	99.0	%		70-130			
Toluene-d8	93.0	%		70-130			
4-Bromofluorobenzene	97.0	%		70-130			
Dibromofluoromethane	92.0	%		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: L0309781-11		Date Collected: 30-SEP-2003 00:00
	DUP-4	Date Received : 30-SEP-2003
Sample Matrix: WATER		Date Reported : 07-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		ID
					PREP	ANAL	
Chloride	220	mg/l	10.	1 9251		1003 19:01	DD
Hexavalent Chromium by MCP 7196A							
Chromium, Hexavalent	0.39	mg/l	0.02	55 7196A		1001 11:20	1001 11:20 JT
Dissolved Metals							
Chromium, Dissolved	0.36	mg/l	0.01	54 6010B		1003 12:29	RW
Manganese, Dissolved	0.06	mg/l	0.01	54 6010B		1003 12:29	RW
Sodium, Dissolved	340	mg/l	100	54 6010B		1003 15:04	RW
Volatile Organics by MCP 8260B							
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	1.2	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				
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	35.	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	0.95	ug/l	0.50				
Dichlorodifluoromethane	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: L0309781-11
DUP-4

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1002 03:46		BT
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	93.0	%		70-130			
4-Bromofluorobenzene	96.0	%		70-130			
Dibromofluoromethane	90.0	%		70-130			

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0309781-12
 MW-43D

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1002 11:05 RY		
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	90.0	%		70-130			
Toluene-d8	96.0	%		70-130			
4-Bromofluorobenzene	117.	%		70-130			
Dibromofluoromethane	101.	%		70-130			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0309781-13
MW-43S

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1002 11:40		RY
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	90.0	%		70-130			
Toluene-d8	98.0	%		70-130			
4-Bromofluorobenzene	117.	%		70-130			
Dibromofluoromethane	104.	%		70-130			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0309781-14
MW-210

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1001 20:06 RY		
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	110.	%		70-130			
Toluene-d8	99.0	%		70-130			
4-Bromofluorobenzene	111.	%		70-130			
Dibromofluoromethane	106.	%		70-130			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0309781-15
MW-211

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1001	20:41	RY
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	113.	%		70-130			
Toluene-d8	99.0	%		70-130			
4-Bromofluorobenzene	110.	%		70-130			
Dibromofluoromethane	106.	%		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:	L0309781-16	Date Collected:	30-SEP-2003 15:45
	MW-103	Date Received :	30-SEP-2003
Sample Matrix:	WATER	Date Reported :	07-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 ANAL	ID
Chloride	180	mg/l	10.	1 9251		1003 19:03 DD
Hexavalent Chromium by MCP 7196A						
Chromium, Hexavalent	ND	mg/l	0.02	55 7196A	1001 11:20	1001 11:20 JT
Dissolved Metals						
Chromium, Dissolved	ND	mg/l	0.01	54 6010B		1003 13:13 RW
Manganese, Dissolved	ND	mg/l	0.01	54 6010B		1003 13:13 RW
Sodium, Dissolved	220	mg/l	40.	54 6010B		1003 15:22 RW
Volatile Organics by MCP 8260B						
Methylene chloride	ND	ug/l	5.0			1001 21:16 RY
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	0.72	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	4.6	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: L0309781-16
MW-103

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1001 21:16 RY		
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	111.	%		70-130			
Toluene-d8	100.	%		70-130			
4-Bromofluorobenzene	113.	%		70-130			
Dibromofluoromethane	107.	%		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: L0309781-17	Date Collected: 30-SEP-2003 16:45
MW-213	Date Received : 30-SEP-2003
Sample Matrix: WATER	Date Reported : 07-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 ANAL	ID
Chloride	340	mg/l	10.	1 9251		1003 19:06 DD
Hexavalent Chromium by MCP 7196A						
Chromium, Hexavalent	ND	mg/l	0.02	55 7196A	1001 11:20	1001 11:20 JT
Dissolved Metals						
Chromium, Dissolved	ND	mg/l	0.01	54 6010B		1003 13:16 RW
Manganese, Dissolved	ND	mg/l	0.01	54 6010B		1003 13:16 RW
Sodium, Dissolved	220	mg/l	40.	54 6010B		1003 15:25 RW
Volatile Organics by MCP 8260B						
Methylene chloride	ND	ug/l	5.0			1001 21:50 RY
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	1.1	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	9.4	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: L0309781-17
MW-213

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1001	21:50	RY
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	111.	%		70-130			
Toluene-d8	98.0	%		70-130			
4-Bromofluorobenzene	112.	%		70-130			
Dibromofluoromethane	107.	%		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: L0309781

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Chloride for sample(s) 07-08,10-12,15-17 (L0309781-15, WG152383)					
Chloride	89.	90.	mg/l	1	7
Hexavalent Chromium by MCP 7196A for sample(s) 07-08,10-12,15-17 (L0309781-15, WG152176)					
Chromium, Hexavalent	ND	ND	mg/l	NC	20
Dissolved Metals for sample(s) 07-08,10-12,15-17 (L0309781-15, WG152224)					
Chromium, Dissolved	ND	ND	mg/l	NC	20
Manganese, Dissolved	0.01	0.01	mg/l	5	20
Sodium, Dissolved	110	110	mg/l	0	20

**ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES**

Laboratory Job Number: L0309781

Parameter	% Recovery	QC Criteria
Chloride LCS for sample(s) 07-08,10-12,15-17 (WG152383)		
Chloride	100	84-110
Hexavalent Chromium by MCP 7196A LCS for sample(s) 07-08,10-12,15-17 (WG152176)		
Chromium, Hexavalent	101	80-120
Dissolved Metals LCS for sample(s) 07-08,10-12,15-17 (WG152224)		
Chromium, Dissolved	95	80-120
Manganese, Dissolved	96	80-120
Sodium, Dissolved	100	80-120
Volatile Organics by MCP 8260B LCS for sample(s) 01-07,10-11 (WG152129)		
Methylene chloride	84	70-130
1,1-Dichloroethane	97	70-130
Chloroform	93	70-130
Carbon tetrachloride	96	70-130
1,2-Dichloropropane	96	70-130
Dibromochloromethane	88	70-130
1,1,2-Trichloroethane	96	70-130
Tetrachloroethene	95	70-130
Chlorobenzene	97	70-130
Trichlorofluoromethane	98	70-130
1,2-Dichloroethane	96	70-130
1,1,1-Trichloroethane	97	70-130
Bromodichloromethane	92	70-130
trans-1,3-Dichloropropene	86	70-130
cis-1,3-Dichloropropene	89	70-130
1,1-Dichloropropene	92	70-130
Bromoform	88	70-130
1,1,2,2-Tetrachloroethane	101	70-130
Benzene	86	70-130
Toluene	96	70-130
Ethylbenzene	98	70-130
Chloromethane	94	70-130
Bromomethane	39	70-130
Vinyl chloride	96	70-130
Chloroethane	95	70-130
1,1-Dichloroethene	91	70-130
trans-1,2-Dichloroethene	92	70-130
Trichloroethene	95	70-130
1,2-Dichlorobenzene	94	70-130
1,3-Dichlorobenzene	93	70-130
1,4-Dichlorobenzene	94	70-130
Methyl tert butyl ether	98	70-130
p/m-Xylene	97	70-130
o-Xylene	98	70-130
cis-1,2-Dichloroethene	98	70-130
Dibromomethane	99	70-130
1,2,3-Trichloropropane	95	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0309781

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by MCP 8260B LCS for sample(s) 01-07,10-11 (WG152129)		
Styrene	99	70-130
Dichlorodifluoromethane	100	70-130
Acetone	144	70-130
Carbon disulfide	88	70-130
2-Butanone	122	70-130
4-Methyl-2-pentanone	93	70-130
2-Hexanone	97	70-130
Bromochloromethane	99	70-130
Tetrahydrofuran	96	70-130
2,2-Dichloropropane	97	70-130
1,2-Dibromoethane	97	70-130
1,3-Dichloropropane	96	70-130
1,1,1,2-Tetrachloroethane	97	70-130
Bromobenzene	96	70-130
n-Butylbenzene	88	70-130
sec-Butylbenzene	94	70-130
tert-Butylbenzene	94	70-130
o-Chlorotoluene	99	70-130
p-Chlorotoluene	92	70-130
1,2-Dibromo-3-chloropropane	91	70-130
Hexachlorobutadiene	96	70-130
Isopropylbenzene	91	70-130
p-Isopropyltoluene	93	70-130
Naphthalene	59	70-130
n-Propylbenzene	93	70-130
1,2,3-Trichlorobenzene	85	70-130
1,2,4-Trichlorobenzene	86	70-130
1,3,5-Trimethylbenzene	95	70-130
1,2,4-Trimethylbenzene	98	70-130
Ethyl ether	98	70-130
Isopropyl Ether	90	70-130
Ethyl-Tert-Butyl-Ether	90	70-130
Tertiary-Amyl Methyl Ether	93	70-130
1,4-Dioxane	117	70-130
Surrogate(s)		
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	95	70-130
Dibromofluoromethane	94	70-130
Volatile Organics by MCP 8260B LCS for sample(s) 08 (WG152263)		
Methylene chloride	81	70-130
1,1-Dichloroethane	94	70-130
Chloroform	90	70-130
Carbon tetrachloride	92	70-130
1,2-Dichloropropane	94	70-130
Dibromochloromethane	89	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0309781

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by MCP 8260B LCS for sample(s) 08 (WG152263)		
1,1,2-Trichloroethane	100	70-130
Tetrachloroethene	94	70-130
Chlorobenzene	94	70-130
Trichlorofluoromethane	97	70-130
1,2-Dichloroethane	97	70-130
1,1,1-Trichloroethane	94	70-130
Bromodichloromethane	90	70-130
trans-1,3-Dichloropropene	85	70-130
cis-1,3-Dichloropropene	86	70-130
1,1-Dichloropropene	90	70-130
Bromoform	93	70-130
1,1,2,2-Tetrachloroethane	107	70-130
Benzene	84	70-130
Toluene	93	70-130
Ethylbenzene	95	70-130
Chloromethane	91	70-130
Bromomethane	36	70-130
Vinyl chloride	95	70-130
Chloroethane	95	70-130
1,1-Dichloroethene	89	70-130
trans-1,2-Dichloroethene	90	70-130
Trichloroethene	94	70-130
1,2-Dichlorobenzene	93	70-130
1,3-Dichlorobenzene	92	70-130
1,4-Dichlorobenzene	93	70-130
Methyl tert butyl ether	99	70-130
p/m-Xylene	94	70-130
o-Xylene	95	70-130
cis-1,2-Dichloroethene	95	70-130
Dibromomethane	99	70-130
1,2,3-Trichloropropane	100	70-130
Styrene	97	70-130
Dichlorodifluoromethane	101	70-130
Acetone	136	70-130
Carbon disulfide	89	70-130
2-Butanone	125	70-130
4-Methyl-2-pentanone	102	70-130
2-Hexanone	107	70-130
Bromochloromethane	99	70-130
Tetrahydrofuran	97	70-130
2,2-Dichloropropane	95	70-130
1,2-Dibromoethane	97	70-130
1,3-Dichloropropane	99	70-130
1,1,1,2-Tetrachloroethane	96	70-130
Bromobenzene	94	70-130
n-Butylbenzene	85	70-130
sec-Butylbenzene	91	70-130
tert-Butylbenzene	92	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0309781

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by MCP 8260B LCS for sample(s) 08 (WG152263)		
o-Chlorotoluene	95	70-130
p-Chlorotoluene	90	70-130
1,2-Dibromo-3-chloropropane	102	70-130
Hexachlorobutadiene	92	70-130
Isopropylbenzene	89	70-130
p-Isopropyltoluene	90	70-130
Naphthalene	66	70-130
n-Propylbenzene	91	70-130
1,2,3-Trichlorobenzene	86	70-130
1,2,4-Trichlorobenzene	87	70-130
1,3,5-Trimethylbenzene	94	70-130
1,2,4-Trimethylbenzene	95	70-130
Ethyl ether	95	70-130
Isopropyl Ether	86	70-130
Ethyl-Tert-Butyl-Ether	88	70-130
Tertiary-Amyl Methyl Ether	94	70-130
1,4-Dioxane	121	70-130
Surrogate(s)		
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	85	70-130
4-Bromofluorobenzene	89	70-130
Dibromofluoromethane	89	70-130
Volatile Organics by MCP 8260B LCS for sample(s) 09 (WG152436)		
Methylene chloride	81	70-130
1,1-Dichloroethane	94	70-130
Chloroform	90	70-130
Carbon tetrachloride	92	70-130
1,2-Dichloropropane	94	70-130
Dibromochloromethane	89	70-130
1,1,2-Trichloroethane	100	70-130
Tetrachloroethene	94	70-130
Chlorobenzene	94	70-130
1,2-Dichloroethane	97	70-130
1,1,1-Trichloroethane	94	70-130
Bromodichloromethane	90	70-130
trans-1,3-Dichloropropene	85	70-130
Bromoform	93	70-130
1,1,2,2-Tetrachloroethane	107	70-130
Chloromethane	91	70-130
Vinyl chloride	95	70-130
Chloroethane	95	70-130
1,1-Dichloroethene	89	70-130
trans-1,2-Dichloroethene	90	70-130
Trichloroethene	94	70-130
1,2-Dichlorobenzene	93	70-130
1,3-Dichlorobenzene	92	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0309781

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by MCP 8260B LCS for sample(s) 09 (WG152436)		
1,4-Dichlorobenzene	93	70-130
cis-1,2-Dichloroethene	95	70-130
Dichlorodifluoromethane	101	70-130
1,2-Dibromoethane	97	70-130
1,3-Dichloropropane	99	70-130
1,1,1,2-Tetrachloroethane	96	70-130
o-Chlorotoluene	95	70-130
p-Chlorotoluene	90	70-130
Hexachlorobutadiene	92	70-130
1,2,4-Trichlorobenzene	87	70-130
Surrogate(s)		
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	85	70-130
4-Bromofluorobenzene	89	70-130
Dibromofluoromethane	89	70-130
Volatile Organics by MCP 8260B LCS for sample(s) 08 (WG152263)		
Methylene chloride	84	70-130
1,1-Dichloroethane	97	70-130
Chloroform	93	70-130
Carbon tetrachloride	96	70-130
1,2-Dichloropropane	96	70-130
Dibromochloromethane	88	70-130
1,1,2-Trichloroethane	96	70-130
Tetrachloroethene	95	70-130
Chlorobenzene	97	70-130
1,2-Dichloroethane	96	70-130
1,1,1-Trichloroethane	97	70-130
Bromodichloromethane	92	70-130
trans-1,3-Dichloropropene	86	70-130
Bromoform	88	70-130
1,1,2,2-Tetrachloroethane	101	70-130
Chloromethane	94	70-130
Vinyl chloride	96	70-130
Chloroethane	95	70-130
1,1-Dichloroethene	91	70-130
trans-1,2-Dichloroethene	92	70-130
Trichloroethene	95	70-130
1,2-Dichlorobenzene	94	70-130
1,3-Dichlorobenzene	93	70-130
1,4-Dichlorobenzene	94	70-130
cis-1,2-Dichloroethene	98	70-130
Dichlorodifluoromethane	100	70-130
1,2-Dibromoethane	97	70-130
1,3-Dichloropropane	96	70-130
1,1,1,2-Tetrachloroethane	97	70-130
o-Chlorotoluene	99	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0309781

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by MCP 8260B LCS for sample(s) 08 (WG152263)		
p-Chlorotoluene	92	70-130
Hexachlorobutadiene	96	70-130
1,2,4-Trichlorobenzene	86	70-130
Surrogate(s)		
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	95	70-130
Dibromofluoromethane	94	70-130
Volatile Organics by MCP 8260B LCS for sample(s) 12-13 (WG152219)		
Methylene chloride	83	70-130
1,1-Dichloroethane	96	70-130
Chloroform	94	70-130
Carbon tetrachloride	101	70-130
1,2-Dichloropropane	98	70-130
Dibromochloromethane	88	70-130
1,1,2-Trichloroethane	106	70-130
Tetrachloroethene	99	70-130
Chlorobenzene	99	70-130
1,2-Dichloroethane	87	70-130
1,1,1-Trichloroethane	98	70-130
Bromodichloromethane	95	70-130
trans-1,3-Dichloropropene	88	70-130
cis-1,3-Dichloropropene	94	70-130
Bromoform	116	70-130
1,1,2,2-Tetrachloroethane	105	70-130
Chloromethane	77	70-130
Vinyl chloride	104	70-130
Chloroethane	99	70-130
1,1-Dichloroethene	101	70-130
trans-1,2-Dichloroethene	97	70-130
Trichloroethene	99	70-130
1,2-Dichlorobenzene	92	70-130
1,3-Dichlorobenzene	93	70-130
1,4-Dichlorobenzene	92	70-130
cis-1,2-Dichloroethene	104	70-130
Dichlorodifluoromethane	115	70-130
1,2-Dibromoethane	95	70-130
1,3-Dichloropropane	97	70-130
1,1,1,2-Tetrachloroethane	95	70-130
o-Chlorotoluene	102	70-130
p-Chlorotoluene	100	70-130
Hexachlorobutadiene	98	70-130
1,2,4-Trichlorobenzene	84	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0309781

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by MCP 8260B LCS for sample(s) 12-13 (WG152219)		
Surrogate(s)		
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	105	70-130
Dibromofluoromethane	102	70-130
Volatile Organics by MCP 8260B LCS for sample(s) 14-17 (WG152219)		
Methylene chloride	87	70-130
1,1-Dichloroethane	109	70-130
Chloroform	108	70-130
Carbon tetrachloride	119	70-130
1,2-Dichloropropane	107	70-130
Dibromochloromethane	104	70-130
1,1,2-Trichloroethane	107	70-130
Tetrachloroethene	102	70-130
Chlorobenzene	101	70-130
1,2-Dichloroethane	111	70-130
1,1,1-Trichloroethane	116	70-130
Bromodichloromethane	109	70-130
trans-1,3-Dichloropropene	98	70-130
cis-1,3-Dichloropropene	103	70-130
Bromoform	123	70-130
1,1,2,2-Tetrachloroethane	107	70-130
Chloromethane	117	70-130
Vinyl chloride	119	70-130
Chloroethane	113	70-130
1,1-Dichloroethene	107	70-130
trans-1,2-Dichloroethene	100	70-130
Trichloroethene	105	70-130
1,2-Dichlorobenzene	101	70-130
1,3-Dichlorobenzene	101	70-130
1,4-Dichlorobenzene	102	70-130
cis-1,2-Dichloroethene	105	70-130
Dichlorodifluoromethane	142	70-130
1,2-Dibromoethane	102	70-130
1,3-Dichloropropane	104	70-130
1,1,1,2-Tetrachloroethane	107	70-130
o-Chlorotoluene	106	70-130
p-Chlorotoluene	106	70-130
Hexachlorobutadiene	108	70-130
1,2,4-Trichlorobenzene	97	70-130
Surrogate(s)		
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	102	70-130
Dibromofluoromethane	103	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0309781

Continued

Parameter	% Recovery	QC Criteria
Chloride SPIKE for sample(s) 07-08,10-12,15-17 (L0309781-15, WG152383)		
Chloride	100	58-140
Hexavalent Chromium by MCP 7196A SPIKE for sample(s) 07-08,10-12,15-17 (L0309781-15, WG152176)		
Chromium, Hexavalent	100	75-125
Dissolved Metals SPIKE for sample(s) 07-08,10-12,15-17 (L0309781-15, WG152224)		
Chromium, Dissolved	90	75-125
Manganese, Dissolved	92	75-125
Sodium, Dissolved	100	75-125

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0309781

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by MCP 8260B for sample(s) 12-17 (L0309781-15, WG152219)					
Methylene chloride	89	85	4	20	70-130
1,1-Dichloroethane	100	92	8	20	70-130
Chloroform	100	94	6	20	70-130
Carbon tetrachloride	97	90	7	20	70-130
1,2-Dichloropropane	107	101	6	20	70-130
Dibromochloromethane	110	110	0	20	70-130
1,1,2-Trichloroethane	133	130	2	20	70-130
Tetrachloroethene	107	101	6	20	70-130
Chlorobenzene	118	113	4	20	70-130
1,2-Dichloroethane	96	91	6	20	70-130
1,1,1-Trichloroethane	97	90	8	20	70-130
Bromodichloromethane	105	101	4	20	70-130
trans-1,3-Dichloropropene	109	105	4	20	70-130
cis-1,3-Dichloropropene	103	98	5	20	70-130
Bromoform	142	145	2	20	70-130
1,1,2,2-Tetrachloroethane	151	150	1	20	70-130
Chloromethane	83	81	2	20	70-130
Vinyl chloride	108	100	8	20	70-130
Chloroethane	106	99	7	20	70-130
1,1-Dichloroethene	105	95	10	20	70-130
trans-1,2-Dichloroethene	103	95	8	20	70-130
Trichloroethene	101	92	9	20	70-130
1,2-Dichlorobenzene	120	116	3	20	70-130
1,3-Dichlorobenzene	120	115	4	20	70-130
1,4-Dichlorobenzene	119	114	4	20	70-130
cis-1,2-Dichloroethene	111	102	8	20	70-130
Dichlorodifluoromethane	126	122	3	20	70-130
1,2-Dibromoethane	120	117	3	20	70-130
1,3-Dichloropropane	122	119	2	20	70-130
1,1,1,2-Tetrachloroethane	115	109	5	20	70-130
o-Chlorotoluene	122	117	4	20	70-130
p-Chlorotoluene	123	116	6	20	70-130
Hexachlorobutadiene	112	109	3	20	70-130
1,2,4-Trichlorobenzene	109	109	0	20	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	87	86	1		70-130
Toluene-d8	98	98	0		70-130
4-Bromofluorobenzene	103	103	0		70-130
Dibromofluoromethane	95	95	0		70-130

**ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0309781

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 07-08,10-12,15-17 (WG152383-2)							
Chloride	ND	mg/l	1.0	1 9251		1003 17:38	DD
Blank Analysis for sample(s) 07-08,10-12,15-17 (WG152176-1)							
Hexavalent Chromium by MCP 7196A							
Chromium, Hexavalent	ND	mg/l	0.02	55 7196A	1001 11:20	1001 11:20	JT
Blank Analysis for sample(s) 07-08,10-12,15-17 (WG152224-3)							
Dissolved Metals							
Chromium, Dissolved	ND	mg/l	0.01	54 6010B		1003 12:11	RW
Manganese, Dissolved	ND	mg/l	0.01	54 6010B		1003 12:11	RW
Sodium, Dissolved	ND	mg/l	2.0	54 6010B		1003 12:11	RW
Blank Analysis for sample(s) 01-07,10-11 (WG152129-4)							
Volatile Organics by MCP 8260B							
				54 8260B		1001 17:43	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: L0309781

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-07,10-11 (WG152129-4)							
Volatile Organics by MCP 8260B continued				54 8260B		1001 17:43	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	94.0	%	70-130				
Toluene-d8	92.0	%	70-130				
4-Bromofluorobenzene	96.0	%	70-130				
Dibromofluoromethane	79.0	%	70-130				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0309781

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 14-17 (WG152219-4)							
Volatile Organics by MCP 8260B				54 8260B		1001 17:13 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				
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	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	106.	%	70-130
Toluene-d8	102.	%	70-130
4-Bromofluorobenzene	108.	%	70-130
Dibromofluoromethane	104.	%	70-130

Blank Analysis for sample(s) 12-13 (WG152219-6)							
Volatile Organics by MCP 8260B				54 8260B		1002 10:31 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				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0309781

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 12-13 (WG152219-6)							
Volatile Organics by MCP 8260B continued				54 8260B		1002 10:31	RY
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				
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	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	90.0	%	70-130				
Toluene-d8	96.0	%	70-130				
4-Bromofluorobenzene	117.	%	70-130				
Dibromofluoromethane	100.	%	70-130				

Blank Analysis for sample(s) 08 (WG152263-4)							
Volatile Organics by MCP 8260B				54 8260B		1001 17:43	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				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0309781

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 08 (WG152263-4)							
Volatile Organics by MCP 8260B continued				54 8260B		1001 17:43	BT
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	94.0	%	70-130				
Toluene-d8	92.0	%	70-130				
4-Bromofluorobenzene	96.0	%	70-130				
Dibromofluoromethane	79.0	%	70-130				
Blank Analysis for sample(s) 08 (WG152263-6)							
Volatile Organics by MCP 8260B				54 8260B		1002 18:51	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				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0309781

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 08 (WG152263-6)							
Volatile Organics by MCP 8260B continued				54 8260B		1002 18:51	BT
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				
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				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0309781

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 08 (WG152263-6)							
Volatile Organics by MCP 8260B continued				54 8260B		1002 18:51	BT
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	89.0	%	70-130				
4-Bromofluorobenzene	94.0	%	70-130				
Dibromofluoromethane	85.0	%	70-130				
Blank Analysis for sample(s) 09 (WG152436-6)							
Volatile Organics by MCP 8260B				54 8260B		1002 18:51	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				

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0309781

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 09 (WG152436-6)							
Volatile Organics by MCP 8260B continued				54 8260B		1002 18:51	BT
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	94.0	%		70-130			
Toluene-d8	89.0	%		70-130			
4-Bromofluorobenzene	94.0	%		70-130			
Dibromofluoromethane	85.0	%		70-130			

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

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: L0309781

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
L0309781-01A	Vial Na2S2O3 preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-01B	Vial Na2S2O3 preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-02A	Vial Na2S2O3 preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-02B	Vial Na2S2O3 preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-03A	Vial Na2S2O3 preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-03B	Vial Na2S2O3 preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-04A	Vial Na2S2O3 preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-04B	Vial Na2S2O3 preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-05A	Vial Na2S2O3 preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-05B	Vial Na2S2O3 preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-06A	Vial Na2S2O3 preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-06B	Vial Na2S2O3 preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-07A	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-07B	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-07C	Plastic 250ml unpreserved	A	7	1.7 C	Y	Absent	CL-9251, MCP-HEXCR-7196
L0309781-07D	Plastic 250ml HNO3 preserved	A	<2	1.7 C	Y	Absent	CR-SI, MN-SI, NA-SI
L0309781-08A	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-08B	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-08C	Plastic 250ml unpreserved	A	7	1.7 C	Y	Absent	CL-9251, MCP-HEXCR-7196
L0309781-08D	Plastic 250ml HNO3 preserved	A	<2	1.7 C	Y	Absent	CR-SI, MN-SI, NA-SI
L0309781-09A	Vial Na2S2O3 preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-09B	Vial Na2S2O3 preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-10A	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-10B	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-10C	Plastic 250ml unpreserved	A	7	1.7 C	Y	Absent	CL-9251, MCP-HEXCR-7196
L0309781-10D	Plastic 250ml HNO3 preserved	A	<2	1.7 C	Y	Absent	CR-SI, MN-SI, NA-SI
L0309781-11A	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-11B	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-11C	Plastic 250ml unpreserved	A	7	1.7 C	Y	Absent	CL-9251, MCP-HEXCR-7196
L0309781-11D	Plastic 250ml HNO3 preserved	A	<2	1.7 C	Y	Absent	CR-SI, MN-SI, NA-SI
L0309781-12A	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-12B	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-12C	Plastic 250ml unpreserved	A	7	1.7 C	Y	Absent	CL-9251, MCP-HEXCR-7196
L0309781-12D	Plastic 250ml HNO3 preserved	A	<2	1.7 C	Y	Absent	CR-SI, MN-SI, NA-SI
L0309781-13A	Vial Na2S2O3 preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-13B	Vial Na2S2O3 preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-14A	Vial Na2S2O3 preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-14B	Vial Na2S2O3 preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-15A	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-15B	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-15C	Plastic 250ml unpreserved	A	7	1.7 C	Y	Absent	CL-9251, MCP-HEXCR-7196

**ALPHA ANALYTICAL LABORATORIES
LOGIN SPECIFIC INFORMATION**

Laboratory Job Number: L0309781

Continued

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0309781-15D	Plastic 250ml HNO3 preserved	A	<2	1.7 C	Y	Absent	CR-SI, MN-SI, NA-SI
L0309781-15E	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-15F	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-16A	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-16B	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-16C	Plastic 250ml unpreserved	A	7	1.7 C	Y	Absent	CL-9251, MCP-HEXCR-7196
L0309781-16D	Plastic 250ml HNO3 preserved	A	<2	1.7 C	Y	Absent	CR-SI, MN-SI, NA-SI
L0309781-17A	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-17B	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309781-17C	Plastic 250ml unpreserved	A	7	1.7 C	Y	Absent	CL-9251, MCP-HEXCR-7196
L0309781-17D	Plastic 250ml HNO3 preserved	A	<2	1.7 C	Y	Absent	CR-SI, MN-SI, NA-SI

Container Comments

Container ID Comments

CHAIN OF CUSTODY

PAGE 1 OF 2

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

Client Information
 Client: ERM - Boston
 Address: 399 Boylston St 6th Floor
Boston, MA 02116

Phone: 617 267 8377
 Fax: 617 267 6447
 Email:

These samples have been previously analyzed by Alpha
 Other Project Specific Requirements/Comments/Detection Limits:
O₃ (m Preservative) = H₂O₂ 5.0 Na₂

Project Information
 Project Name: Raytheon - Wayland
 Project Location: Wayland
 Project #: 001428-07-018 1922-09
 Project Manager: J. Beard Tpac
 ALPHA Quote #:
Turn-Around Time
 Standard RUSH (only confirmed if pre-approved)
 Date Due: 10/7/03 Time:

Project Information - Data Deliverables
 Date Rec'd in Lab: 9/30/03
 FAX EMAIL Add'l Deliverables
 ADEX Add'l Deliverables
 Billing Information
 ALPHA Job #: 0309781
 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	Time	Sample Matrix	Sampler's Initials	TOTAL #	BOTTLES
09781	MW-106M	9/30/03	0940	GW	JTF	2	2
2	MW-106	9/30/03	1100	GW	JTF	2	2
3	MW-104	9/30/03	1145	GW	JTF	2	2
4	MW-212	9/30/03	1205	GW	JTF	2	2
5	Dup-5	9/30/03	2400	GW	JTF	2	2
6	MW-212M	9/30/03	1240	GW	JTF	2	2
7	MW-209	9/30/03	1510	GW	JTF	2	4
8	MW-102	9/30/03	1645	GW	JTF	2	4
9	MW-105M	9/30/03	0940	GW	JFlat	2	2
10	MW-105	9/30/03	1045	GW	JFlat	2	4

ANALYSIS
 8031C
 8031C
 Diss. CFM, Na #
 C/8 G+6
SAMPLE HANDLING
 Filtration
 Done
 Not needed
 Lab to do
 Preservation
 Lab to do
 (Please specify below)
 Sample Specific Comments
 field filtered using 0.15 micron filter

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY
 IS YOUR PROJECT MCP?
 Relinquished By: [Signature] Date/Time: 9/30/03 1740
 Received By: [Signature] Date/Time: 9/30/03 1844
 Container Type: V P R
 Preservative: O B A C
 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.



CHAIN OF CUSTODY

PAGE 2 OF 2

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

Client Information

Client: ERM - Boston
Address: 399 Boylston St 6th Floor
Boston, MA 02116

Phone: 617 267 8377
Fax: 617 267 6447

Email:

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

(in preservative) - H₁₆Og₅₂ Neg

Project Information

Project Name: Raytheon - Wayland

Project Location: Wayland

Project #: 000422272

Project Manager: J. Prasad - TAC

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: 10/7/03 Time:

Date Rec'd in Lab: 9/30/03

Report Information - Data Deliverables

FAX EMAIL Add'l Deliverables

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?

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

ANALYSIS
BASIC
C18G76
DR. CR. M. N. K.
BASIC

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Samplers' Initials	TOTAL # BOTTLES
09781	11 Dup-4	9/30/03	2400	GW	JFlet	4
	12 MW-43D	9/30/03	1145	GW	JFlet	4
	13 MW-43S	9/30/03	1220	GW	JFlet	2
	14 MW-21D	9/30/03	1240	GW	JFlet	2
	15 MW-211	9/30/03	1445	GW	JFlet	4
	15 MW-211-MS/D	9/30/03	1445	GW	JFlet	2
	16 MW-103	9/30/03	1545	GW	JFlet	4
	17 MW-213	9/30/03	1645	GW	JFlet	4

* Field filtered water by 15 micron filter

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

IS YOUR PROJECT MCP ?

Relinquished By:

Date/Time

Received By:

Date/Time

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.

[Signature]
9/30/03 1745
9/30/03 1638

[Signature]
9/30/03 17:45
9/30/03 1635