

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: L0309785  
Address: 399 Boylston Street  
6th Floor  
Boston, MA 02116 Date Received: 30-SEP-2003  
Attn: J. Picard Date Reported: 07-OCT-2003  
Project Number: 1922.07.02 Delivery Method: Alpha  
Site: RAYTHEON

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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"? NO
- 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.

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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.

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Authorized by: Scott McLean  
This document electronically signed

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0309785  
Date Reported: 07-OCT-2003

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ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0309785-01	MW-201S	WAYLAND, MA
L0309785-02	MW-201D	WAYLAND, MA
L0309785-03	MW-216D	WAYLAND, MA
L0309785-04	MW-216M	WAYLAND, MA
L0309785-05	MW-202D	WAYLAND, MA
L0309785-06	MW-202S	WAYLAND, MA
L0309785-07	MW-202M	WAYLAND, MA
L0309785-08	MW-201M	WAYLAND, MA
L0309785-09	MW-208M	WAYLAND, MA
L0309785-10	MW-208D	WAYLAND, MA
L0309785-11	MW-216S	WAYLAND, MA
L0309785-12	TB-2	WAYLAND, MA
L0309785-13	DUP-2	WAYLAND, MA
L0309785-14	DUP-3	WAYLAND, MA

ALPHA ANALYTICAL LABORATORIES  
NARRATIVE REPORT

Laboratory Job Number: L0309785

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MCP Related Narratives

Volatile Organics

In reference to question F, at the client's request, only the compound lists specified for each sample on the chain of custody were reported.

L0309785-02, -07 and -08 have elevated limits of detection due to the dilutions required by the elevated concentrations of target compounds in the samples.

L0309785-14 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 C, L0309785-09 has a pH > 9.

In reference to question E:

The LCS % recoveries for Bromomethane (36%) and Naphthalene (66%) associated with L0309785-01 through -05, are below the acceptance criteria for the method.

The LCS % recovery for Acetone (136%) associated with L0309785-01 through -05, is above the acceptance criteria for the method. All associated samples are non-detect for this compound.

The MS/MSD % recoveries for Acetone (39% and 45%), 2-Butanone (48% and 48%) and 2-Hexanone (50% and 52%) associated with L0309785-06 through -10, -12 and -13, are below the acceptance criteria for the method. The LCS % recoveries are acceptable.

One of the LCS % recoveries for Bromoform (140%) associated with L0309785-14, is above the acceptance criteria for the method. All associated samples are non-detect for this compound.

**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

<b>Laboratory Sample Number:</b> L0309785-01	<b>Date Collected:</b> 30-SEP-2003 15:10
MW-201S	<b>Date Received :</b> 30-SEP-2003
<b>Sample Matrix:</b> WATER	<b>Date Reported :</b> 07-OCT-2003
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> None
<b>Number &amp; Type of Containers:</b> 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP    ANAL	ID
Volatile Organics by MCP 8260B				54 8260B	1003 00:59	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	2.0	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	1.7	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	83.	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	1.5	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			

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

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0309785-01  
 MW-201S

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1003 00:59		BT
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	87.0	%		70-130			
Toluene-d8	86.0	%		70-130			
4-Bromofluorobenzene	90.0	%		70-130			
Dibromofluoromethane	79.0	%		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

<b>Laboratory Sample Number:</b> L0309785-02	<b>Date Collected:</b> 30-SEP-2003 12:43
MW-201D	<b>Date Received :</b> 30-SEP-2003
<b>Sample Matrix:</b> WATER	<b>Date Reported :</b> 07-OCT-2003
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> None
<b>Number &amp; Type of Containers:</b> 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by MCP 8260B				54 8260B	1003 04:03 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	3.3	ug/l	1.0			
Chlorobenzene	ND	ug/l	1.0			
Trichlorofluoromethane	ND	ug/l	5.0			
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			
cis-1,3-Dichloropropene	ND	ug/l	1.0			
1,1-Dichloropropene	ND	ug/l	5.0			
Bromoform	ND	ug/l	4.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0			
Benzene	ND	ug/l	1.0			
Toluene	ND	ug/l	1.5			
Ethylbenzene	ND	ug/l	1.0			
Chloromethane	ND	ug/l	5.0			
Bromomethane	ND	ug/l	2.0			
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	78.	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			
Methyl tert butyl ether	ND	ug/l	2.0			
p/m-Xylene	ND	ug/l	1.0			
o-Xylene	ND	ug/l	1.0			
cis-1,2-Dichloroethene	13.	ug/l	1.0			
Dibromomethane	ND	ug/l	10.			
1,2,3-Trichloropropane	ND	ug/l	10.			
Styrene	ND	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: L0309785-02  
 MW-201D

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1003 04:03		BT
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	5.0				
Tetrahydrofuran	ND	ug/l	20.				
2,2-Dichloropropane	ND	ug/l	5.0				
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				
Bromobenzene	ND	ug/l	5.0				
n-Butylbenzene	ND	ug/l	1.0				
sec-Butylbenzene	ND	ug/l	1.0				
tert-Butylbenzene	ND	ug/l	5.0				
o-Chlorotoluene	ND	ug/l	5.0				
p-Chlorotoluene	ND	ug/l	5.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	5.0				
Isopropylbenzene	ND	ug/l	1.0				
p-Isopropyltoluene	ND	ug/l	1.0				
Naphthalene	ND	ug/l	5.0				
n-Propylbenzene	ND	ug/l	1.0				
1,2,3-Trichlorobenzene	ND	ug/l	5.0				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
1,3,5-Trimethylbenzene	ND	ug/l	5.0				
1,2,4-Trimethylbenzene	ND	ug/l	5.0				
Ethyl ether	ND	ug/l	5.0				
Isopropyl Ether	ND	ug/l	4.0				
Ethyl-Tert-Butyl-Ether	ND	ug/l	4.0				
Tertiary-Amyl Methyl Ether	ND	ug/l	4.0				
1,4-Dioxane	ND	ug/l	500				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	86.0	%		70-130			
Toluene-d8	88.0	%		70-130			
4-Bromofluorobenzene	91.0	%		70-130			
Dibromofluoromethane	78.0	%		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:	L0309785-03	Date Collected:	30-SEP-2003 16:30
	MW-216D	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	1003 01:45	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	17.	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	1.5	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: L0309785-03  
MW-216D

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1003 01:45		BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	86.0	%		70-130			
Toluene-d8	87.0	%		70-130			
4-Bromofluorobenzene	92.0	%		70-130			
Dibromofluoromethane	78.0	%		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

<b>Laboratory Sample Number:</b> L0309785-04	<b>Date Collected:</b> 30-SEP-2003 16:43
MW-216M	<b>Date Received :</b> 30-SEP-2003
<b>Sample Matrix:</b> WATER	<b>Date Reported :</b> 07-OCT-2003
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> None
<b>Number &amp; Type of Containers:</b> 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by MCP 8260B				54 8260B	1003 02:30 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: L0309785-04  
MW-216M

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1003 02:30		BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	85.0	%		70-130			
Toluene-d8	85.0	%		70-130			
4-Bromofluorobenzene	91.0	%		70-130			
Dibromofluoromethane	78.0	%		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

<b>Laboratory Sample Number:</b> L0309785-05	<b>Date Collected:</b> 30-SEP-2003 10:25
MW-202D	<b>Date Received :</b> 30-SEP-2003
<b>Sample Matrix:</b> WATER	<b>Date Reported :</b> 07-OCT-2003
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> None
<b>Number &amp; Type of Containers:</b> 4-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by MCP 8260B				54 8260B	1003 03:16 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			
Methyl tert butyl ether	ND	ug/l	1.0			
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: L0309785-05  
MW-202D

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1003 03:16		BT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	84.0	%		70-130			
Toluene-d8	85.0	%		70-130			
4-Bromofluorobenzene	90.0	%		70-130			
Dibromofluoromethane	75.0	%		70-130			

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



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0309785-06  
 MW-202S

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1003 15:25 RY		
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	104.	%		70-130			
Toluene-d8	99.0	%		70-130			
4-Bromofluorobenzene	107.	%		70-130			
Dibromofluoromethane	97.0	%		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

<b>Laboratory Sample Number:</b> L0309785-07	<b>Date Collected:</b> 30-SEP-2003 09:15
MW-202M	<b>Date Received :</b> 30-SEP-2003
<b>Sample Matrix:</b> WATER	<b>Date Reported :</b> 07-OCT-2003
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> None
<b>Number &amp; Type of Containers:</b> 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Volatile Organics by MCP 8260B				54 8260B	1003 16:01	RY
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	34.	ug/l	1.0			
Bromodichloromethane	ND	ug/l	1.0			
trans-1,3-Dichloropropene	ND	ug/l	1.0			
cis-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	3.4	ug/l	1.0			
trans-1,2-Dichloroethene	ND	ug/l	1.5			
Trichloroethene	120	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			
Methyl tert butyl ether	99.	ug/l	2.0			
cis-1,2-Dichloroethene	ND	ug/l	1.0			
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			

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



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0309785-07  
MW-202M

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1003 16:01		RY
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	106.	%		70-130			
Toluene-d8	101.	%		70-130			
4-Bromofluorobenzene	104.	%		70-130			
Dibromofluoromethane	97.0	%		70-130			

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



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0309785-08  
 MW-201M

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1003 16:36 RY		
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	5.0				
Tetrahydrofuran	ND	ug/l	20.				
2,2-Dichloropropane	ND	ug/l	5.0				
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				
Bromobenzene	ND	ug/l	5.0				
n-Butylbenzene	ND	ug/l	1.0				
sec-Butylbenzene	ND	ug/l	1.0				
tert-Butylbenzene	ND	ug/l	5.0				
o-Chlorotoluene	ND	ug/l	5.0				
p-Chlorotoluene	ND	ug/l	5.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	5.0				
Isopropylbenzene	ND	ug/l	1.0				
p-Isopropyltoluene	ND	ug/l	1.0				
Naphthalene	ND	ug/l	5.0				
n-Propylbenzene	ND	ug/l	1.0				
1,2,3-Trichlorobenzene	ND	ug/l	5.0				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
1,3,5-Trimethylbenzene	ND	ug/l	5.0				
1,2,4-Trimethylbenzene	ND	ug/l	5.0				
Ethyl ether	ND	ug/l	5.0				
Isopropyl Ether	ND	ug/l	4.0				
Ethyl-Tert-Butyl-Ether	ND	ug/l	4.0				
Tertiary-Amyl Methyl Ether	ND	ug/l	4.0				
1,4-Dioxane	ND	ug/l	500				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	104.	%		70-130			
Toluene-d8	101.	%		70-130			
4-Bromofluorobenzene	104.	%		70-130			
Dibromofluoromethane	97.0	%		70-130			

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



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0309785-09  
 MW-208M

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1003 17:12 RY		
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	17.	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	2.8	ug/l	2.0				
1,4-Dioxane	ND	ug/l	250				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	106.	%	70-130				
Toluene-d8	99.0	%	70-130				
4-Bromofluorobenzene	107.	%	70-130				
Dibromofluoromethane	94.0	%	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

<b>Laboratory Sample Number:</b> L0309785-10	<b>Date Collected:</b> 30-SEP-2003 08:50
MW-208D	<b>Date Received :</b> 30-SEP-2003
<b>Sample Matrix:</b> WATER	<b>Date Reported :</b> 07-OCT-2003
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> None
<b>Number &amp; Type of Containers:</b> 4-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP    ANAL	ID
Volatile Organics by MCP 8260B				54 8260B	1003 17:47	RY
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	ND	ug/l	0.75			
Carbon tetrachloride	ND	ug/l	0.50			
1,2-Dichloropropane	ND	ug/l	1.8			
Dibromochloromethane	ND	ug/l	0.50			
1,1,2-Trichloroethane	ND	ug/l	0.75			
Tetrachloroethene	ND	ug/l	0.50			
Chlorobenzene	ND	ug/l	0.50			
Trichlorofluoromethane	ND	ug/l	2.5			
1,2-Dichloroethane	ND	ug/l	0.50			
1,1,1-Trichloroethane	ND	ug/l	0.50			
Bromodichloromethane	ND	ug/l	0.50			
trans-1,3-Dichloropropene	ND	ug/l	0.50			
cis-1,3-Dichloropropene	ND	ug/l	0.50			
1,1-Dichloropropene	ND	ug/l	2.5			
Bromoform	ND	ug/l	2.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50			
Benzene	ND	ug/l	0.50			
Toluene	ND	ug/l	0.75			
Ethylbenzene	ND	ug/l	0.50			
Chloromethane	ND	ug/l	2.5			
Bromomethane	ND	ug/l	1.0			
Vinyl chloride	ND	ug/l	1.0			
Chloroethane	ND	ug/l	1.0			
1,1-Dichloroethene	ND	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	1.2	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			

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

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0309785-10  
 MW-208D

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1003 17:47 RY		
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	107.	%		70-130			
Toluene-d8	101.	%		70-130			
4-Bromofluorobenzene	106.	%		70-130			
Dibromofluoromethane	100.	%		70-130			

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





ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0309785-11  
 MW-216S

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B		1003 12:50	RY
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	85.0	%		70-130			
Toluene-d8	97.0	%		70-130			
4-Bromofluorobenzene	116.	%		70-130			
Dibromofluoromethane	96.0	%		70-130			

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



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0309785-12  
 TB-2

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1003 18:22 RY		
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	107.	%		70-130			
Toluene-d8	98.0	%		70-130			
4-Bromofluorobenzene	107.	%		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: L0309785-13  
 DUP-2

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B	1003 18:58 RY		
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	14.	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	4.1	ug/l	2.0				
1,4-Dioxane	ND	ug/l	250				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	107.	%	70-130				
Toluene-d8	98.0	%	70-130				
4-Bromofluorobenzene	105.	%	70-130				
Dibromofluoromethane	99.0	%	70-130				

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



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0309785-14  
DUP-3

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				54 8260B		1003 13:25	RY
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	90.0	%		70-130			
Toluene-d8	99.0	%		70-130			
4-Bromofluorobenzene	114.	%		70-130			
Dibromofluoromethane	95.0	%		70-130			
Volatile Organics by MCP 8260B				54 8260B		1006 10:57	RY
Trichloroethene	140	ug/l	1.0				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	90.0	%		70-130			
Toluene-d8	93.0	%		70-130			
4-Bromofluorobenzene	112.	%		70-130			
Dibromofluoromethane	98.0	%		70-130			

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

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0309785

Parameter	% Recovery	QC Criteria
Volatile Organics by MCP 8260B LCS for sample(s) 14 (WG152480)		
Methylene chloride	80	70-130
1,1-Dichloroethane	95	70-130
Chloroform	94	70-130
Carbon tetrachloride	101	70-130
1,2-Dichloropropane	95	70-130
Dibromochloromethane	92	70-130
1,1,2-Trichloroethane	104	70-130
Tetrachloroethene	105	70-130
Chlorobenzene	105	70-130
1,2-Dichloroethane	83	70-130
1,1,1-Trichloroethane	97	70-130
Bromodichloromethane	93	70-130
trans-1,3-Dichloropropene	90	70-130
cis-1,3-Dichloropropene	90	70-130
Bromoform	113	70-130
1,1,2,2-Tetrachloroethane	107	70-130
Chloromethane	78	70-130
Vinyl chloride	105	70-130
Chloroethane	99	70-130
1,1-Dichloroethene	99	70-130
trans-1,2-Dichloroethene	97	70-130
Trichloroethene	96	70-130
1,2-Dichlorobenzene	99	70-130
1,3-Dichlorobenzene	101	70-130
1,4-Dichlorobenzene	101	70-130
Methyl tert butyl ether	73	70-130
cis-1,2-Dichloroethene	100	70-130
Dichlorodifluoromethane	119	70-130
1,2-Dibromoethane	95	70-130
1,3-Dichloropropane	98	70-130
1,1,1,2-Tetrachloroethane	98	70-130
o-Chlorotoluene	113	70-130
p-Chlorotoluene	109	70-130
Hexachlorobutadiene	113	70-130
1,2,4-Trichlorobenzene	91	70-130
Surrogate(s)		
1,2-Dichloroethane-d4	84	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130
Dibromofluoromethane	95	70-130
Volatile Organics by MCP 8260B LCS for sample(s) 14 (WG152480)		
Methylene chloride	102	70-130
1,1-Dichloroethane	115	70-130
Chloroform	118	70-130
Carbon tetrachloride	126	70-130
1,2-Dichloropropane	120	70-130



ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0309785

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by MCP 8260B LCS for sample(s) 14 (WG152480)		
Dibromochloromethane	115	70-130
1,1,2-Trichloroethane	126	70-130
Tetrachloroethene	114	70-130
Chlorobenzene	115	70-130
1,2-Dichloroethane	108	70-130
1,1,1-Trichloroethane	118	70-130
Bromodichloromethane	122	70-130
trans-1,3-Dichloropropene	104	70-130
cis-1,3-Dichloropropene	113	70-130
Bromoform	140	70-130
1,1,2,2-Tetrachloroethane	123	70-130
Chloromethane	74	70-130
Vinyl chloride	115	70-130
Chloroethane	122	70-130
1,1-Dichloroethene	119	70-130
trans-1,2-Dichloroethene	119	70-130
Trichloroethene	117	70-130
1,2-Dichlorobenzene	105	70-130
1,3-Dichlorobenzene	106	70-130
1,4-Dichlorobenzene	107	70-130
Methyl tert butyl ether	89	70-130
cis-1,2-Dichloroethene	125	70-130
Dichlorodifluoromethane	126	70-130
1,2-Dibromoethane	112	70-130
1,3-Dichloropropane	115	70-130
1,1,1,2-Tetrachloroethane	112	70-130
o-Chlorotoluene	114	70-130
p-Chlorotoluene	114	70-130
Hexachlorobutadiene	108	70-130
1,2,4-Trichlorobenzene	93	70-130
Surrogate(s)		
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	102	70-130
Dibromofluoromethane	104	70-130
Volatile Organics by MCP 8260B LCS for sample(s) 11 (WG152482)		
Methylene chloride	80	70-130
1,1-Dichloroethane	95	70-130
Chloroform	94	70-130
Carbon tetrachloride	101	70-130
1,2-Dichloropropane	95	70-130
Dibromochloromethane	92	70-130
1,1,2-Trichloroethane	104	70-130
Tetrachloroethene	105	70-130
Chlorobenzene	105	70-130
1,2-Dichloroethane	83	70-130

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0309785

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by MCP 8260B LCS for sample(s) 11 (WG152482)		
1,1,1-Trichloroethane	97	70-130
Bromodichloromethane	93	70-130
trans-1,3-Dichloropropene	90	70-130
cis-1,3-Dichloropropene	90	70-130
Bromoform	113	70-130
1,1,2,2-Tetrachloroethane	107	70-130
Chloromethane	78	70-130
Vinyl chloride	105	70-130
Chloroethane	99	70-130
1,1-Dichloroethene	99	70-130
trans-1,2-Dichloroethene	97	70-130
Trichloroethene	96	70-130
1,2-Dichlorobenzene	99	70-130
1,3-Dichlorobenzene	101	70-130
1,4-Dichlorobenzene	101	70-130
cis-1,2-Dichloroethene	100	70-130
Dichlorodifluoromethane	119	70-130
1,2-Dibromoethane	95	70-130
1,3-Dichloropropane	98	70-130
1,1,1,2-Tetrachloroethane	98	70-130
o-Chlorotoluene	113	70-130
p-Chlorotoluene	109	70-130
Hexachlorobutadiene	113	70-130
1,2,4-Trichlorobenzene	91	70-130
Surrogate(s)		
1,2-Dichloroethane-d4	84	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130
Dibromofluoromethane	95	70-130
Volatile Organics by MCP 8260B LCS for sample(s) 01-05 (WG152486)		
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
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

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0309785

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by MCP 8260B LCS for sample(s) 01-05 (WG152486)		
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
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

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0309785

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by MCP 8260B LCS for sample(s) 01-05 (WG152486)		
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) 06-10,12-13 (WG152505)		
Methylene chloride	86	70-130
1,1-Dichloroethane	99	70-130
Chloroform	102	70-130
Carbon tetrachloride	107	70-130
1,2-Dichloropropane	106	70-130
Dibromochloromethane	91	70-130
1,1,2-Trichloroethane	95	70-130
Tetrachloroethene	99	70-130
Chlorobenzene	99	70-130
Trichlorofluoromethane	108	70-130
1,2-Dichloroethane	101	70-130
1,1,1-Trichloroethane	106	70-130
Bromodichloromethane	102	70-130
trans-1,3-Dichloropropene	96	70-130
cis-1,3-Dichloropropene	108	70-130
1,1-Dichloropropene	108	70-130
Bromoform	89	70-130
1,1,2,2-Tetrachloroethane	91	70-130
Benzene	91	70-130
Toluene	103	70-130
Ethylbenzene	104	70-130
Chloromethane	103	70-130
Bromomethane	92	70-130
Vinyl chloride	117	70-130
Chloroethane	102	70-130
1,1-Dichloroethene	101	70-130
trans-1,2-Dichloroethene	100	70-130
Trichloroethene	104	70-130
1,2-Dichlorobenzene	94	70-130
1,3-Dichlorobenzene	97	70-130
1,4-Dichlorobenzene	95	70-130
Methyl tert butyl ether	99	70-130
p/m-Xylene	103	70-130

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0309785

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by MCP 8260B LCS for sample(s) 06-10,12-13 (WG152505)		
o-Xylene	100	70-130
cis-1,2-Dichloroethene	103	70-130
Dibromomethane	103	70-130
1,2,3-Trichloropropane	97	70-130
Styrene	102	70-130
Dichlorodifluoromethane	108	70-130
Acetone	95	70-130
Carbon disulfide	94	70-130
2-Butanone	86	70-130
4-Methyl-2-pentanone	92	70-130
2-Hexanone	83	70-130
Bromochloromethane	103	70-130
Tetrahydrofuran	98	70-130
2,2-Dichloropropane	101	70-130
1,2-Dibromoethane	96	70-130
1,3-Dichloropropane	100	70-130
1,1,1,2-Tetrachloroethane	96	70-130
Bromobenzene	98	70-130
n-Butylbenzene	110	70-130
sec-Butylbenzene	110	70-130
tert-Butylbenzene	107	70-130
o-Chlorotoluene	92	70-130
p-Chlorotoluene	101	70-130
1,2-Dibromo-3-chloropropane	89	70-130
Hexachlorobutadiene	99	70-130
Isopropylbenzene	100	70-130
p-Isopropyltoluene	111	70-130
Naphthalene	92	70-130
n-Propylbenzene	108	70-130
1,2,3-Trichlorobenzene	91	70-130
1,2,4-Trichlorobenzene	94	70-130
1,3,5-Trimethylbenzene	107	70-130
1,2,4-Trimethylbenzene	112	70-130
Ethyl ether	93	70-130
Isopropyl Ether	99	70-130
Ethyl-Tert-Butyl-Ether	98	70-130
Tertiary-Amyl Methyl Ether	99	70-130
1,4-Dioxane	86	70-130
Surrogate(s)		
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	103	70-130
Dibromofluoromethane	98	70-130

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH MS/MSD ANALYSIS**

Laboratory Job Number: L0309785

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by MCP 8260B for sample(s) 01-05 (L0309785-05, WG152486)					
Methylene chloride	90	91	1	20	70-130
1,1-Dichloroethane	106	107	1	20	70-130
Chloroform	99	101	2	20	70-130
Carbon tetrachloride	109	111	2	20	70-130
1,2-Dichloropropane	105	107	2	20	70-130
Dibromochloromethane	97	97	1	20	70-130
1,1,2-Trichloroethane	108	112	4	20	70-130
Tetrachloroethene	106	105	1	20	70-130
Chlorobenzene	103	104	1	20	70-130
1,2-Dichloroethane	105	109	4	20	70-130
1,1,1-Trichloroethane	110	112	2	20	70-130
Bromodichloromethane	102	104	2	20	70-130
trans-1,3-Dichloropropene	94	95	1	20	70-130
Bromoform	98	99	1	20	70-130
1,1,2,2-Tetrachloroethane	114	116	2	20	70-130
Chloromethane	104	103	1	20	70-130
Vinyl chloride	109	112	3	20	70-130
Chloroethane	106	108	2	20	70-130
1,1-Dichloroethene	104	106	2	20	70-130
trans-1,2-Dichloroethene	102	105	3	20	70-130
Trichloroethene	111	112	1	20	70-130
1,2-Dichlorobenzene	101	103	2	20	70-130
1,3-Dichlorobenzene	100	100	0	20	70-130
1,4-Dichlorobenzene	101	100	1	20	70-130
Methyl tert butyl ether	105	107	2	20	70-130
cis-1,2-Dichloroethene	109	110	1	20	70-130
Dichlorodifluoromethane	111	111	0	20	70-130
1,2-Dibromoethane	108	110	2	20	70-130
1,3-Dichloropropane	107	108	1	20	70-130
1,1,1,2-Tetrachloroethane	106	107	1	20	70-130
o-Chlorotoluene	102	102	0	20	70-130
p-Chlorotoluene	99	100	1	20	70-130
Hexachlorobutadiene	100	105	5	20	70-130
1,2,4-Trichlorobenzene	92	91	1	20	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	95	99	4		70-130
Toluene-d8	89	90	1		70-130
4-Bromofluorobenzene	94	94	0		70-130
Dibromofluoromethane	95	100	5		70-130
Volatile Organics by MCP 8260B for sample(s) 06-10,12-13 (L0309785-10, WG152505)					
Methylene chloride	82	81	1	20	70-130
1,1-Dichloroethane	100	89	12	20	70-130
Chloroform	94	92	2	20	70-130
Carbon tetrachloride	97	93	5	20	70-130
1,2-Dichloropropane	99	99	0	20	70-130
Dibromochloromethane	90	89	1	20	70-130

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0309785

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by MCP 8260B for sample(s) 06-10,12-13 (L0309785-10, WG152505)					
1,1,2-Trichloroethane	93	93	1	20	70-130
Tetrachloroethene	89	86	4	20	70-130
Chlorobenzene	89	89	0	20	70-130
Trichlorofluoromethane	91	87	4	20	70-130
1,2-Dichloroethane	95	96	1	20	70-130
1,1,1-Trichloroethane	98	95	4	20	70-130
Bromodichloromethane	96	96	0	20	70-130
trans-1,3-Dichloropropene	93	94	1	20	70-130
cis-1,3-Dichloropropene	102	103	1	20	70-130
1,1-Dichloropropene	96	94	2	20	70-130
Bromoform	92	94	3	20	70-130
1,1,2,2-Tetrachloroethane	91	92	1	20	70-130
Benzene	84	83	1	20	70-130
Toluene	93	90	2	20	70-130
Ethylbenzene	95	93	2	20	70-130
Chloromethane	88	85	4	20	70-130
Bromomethane	98	94	4	20	70-130
Vinyl chloride	96	92	4	20	70-130
Chloroethane	92	87	5	20	70-130
1,1-Dichloroethene	88	85	4	20	70-130
trans-1,2-Dichloroethene	90	88	1	20	70-130
Trichloroethene	89	87	3	20	70-130
1,2-Dichlorobenzene	91	90	2	20	70-130
1,3-Dichlorobenzene	94	92	2	20	70-130
1,4-Dichlorobenzene	91	90	1	20	70-130
Methyl tert butyl ether	99	98	0	20	70-130
p/m-Xylene	93	90	3	20	70-130
o-Xylene	92	92	1	20	70-130
cis-1,2-Dichloroethene	98	96	2	20	70-130
Dibromomethane	97	96	1	20	70-130
1,2,3-Trichloropropane	99	98	1	20	70-130
Styrene	94	92	3	20	70-130
Dichlorodifluoromethane	73	69	5	20	70-130
Acetone	39	45	14	20	70-130
Carbon disulfide	82	79	4	20	70-130
2-Butanone	48	48	0	20	70-130
4-Methyl-2-pentanone	83	88	6	20	70-130
2-Hexanone	50	53	5	20	70-130
Bromochloromethane	101	94	7	20	70-130
Tetrahydrofuran	98	101	3	20	70-130
2,2-Dichloropropane	125	92	30	20	70-130
1,2-Dibromoethane	94	93	1	20	70-130
1,3-Dichloropropane	95	96	1	20	70-130
1,1,1,2-Tetrachloroethane	91	91	0	20	70-130
Bromobenzene	94	92	3	20	70-130
n-Butylbenzene	103	97	6	20	70-130
sec-Butylbenzene	100	95	5	20	70-130

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0309785

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by MCP 8260B for sample(s) 06-10,12-13 (L0309785-10, WG152505)					
tert-Butylbenzene	100	96	4	20	70-130
o-Chlorotoluene	85	83	3	20	70-130
p-Chlorotoluene	95	91	5	20	70-130
1,2-Dibromo-3-chloropropane	97	98	1	20	70-130
Hexachlorobutadiene	90	85	5	20	70-130
Isopropylbenzene	91	88	4	20	70-130
p-Isopropyltoluene	101	97	5	20	70-130
Naphthalene	101	102	1	20	70-130
n-Propylbenzene	98	93	6	20	70-130
1,2,3-Trichlorobenzene	92	92	0	20	70-130
1,2,4-Trichlorobenzene	90	89	1	20	70-130
1,3,5-Trimethylbenzene	100	95	5	20	70-130
1,2,4-Trimethylbenzene	101	99	2	20	70-130
Ethyl ether	89	91	2	20	70-130
Isopropyl Ether	93	93	0	20	70-130
Ethyl-Tert-Butyl-Ether	94	96	2	20	70-130
Tertiary-Amyl Methyl Ether	97	99	2	20	70-130
1,4-Dioxane	91	96	6	20	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	104	106	2		70-130
Toluene-d8	98	99	1		70-130
4-Bromofluorobenzene	103	100	3		70-130
Dibromofluoromethane	99	101	2		70-130



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

Laboratory Job Number: L0309785

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 14 (WG152480-2)							
Volatile Organics by MCP 8260B				54 8260B		1003 09:30 RY	
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
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				
Methyl tert butyl ether	ND	ug/l	1.0				
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	87.0	%	70-130				
Toluene-d8	99.0	%	70-130				
4-Bromofluorobenzene	112.	%	70-130				
Dibromofluoromethane	98.0	%	70-130				

Blank Analysis for sample(s) 14 (WG152480-4)							
Volatile Organics by MCP 8260B				54 8260B		1006 10:18 RY	
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0309785

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 14 (WG152480-4)							
Volatile Organics by MCP 8260B continued				54 8260B		1006 10:18 RY	
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				
Methyl tert butyl ether	ND	ug/l	1.0				
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	89.0	%	70-130				
Toluene-d8	91.0	%	70-130				
4-Bromofluorobenzene	111.	%	70-130				
Dibromofluoromethane	103.	%	70-130				

Blank Analysis for sample(s) 11 (WG152482-2)							
Volatile Organics by MCP 8260B				54 8260B		1003 09:30 RY	
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0309785

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 11 (WG152482-2)							
Volatile Organics by MCP 8260B continued				54 8260B		1003 09:30	RY
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	87.0	%	70-130				
Toluene-d8	99.0	%	70-130				
4-Bromofluorobenzene	112.	%	70-130				
Dibromofluoromethane	98.0	%	70-130				
Blank Analysis for sample(s) 01-05 (WG152486-4)							
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				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0309785

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-05 (WG152486-4)							
Volatile Organics by MCP 8260B continued				54 8260B		1002 18:51	BT
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				
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				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0309785

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-05 (WG152486-4)							
Volatile Organics by MCP 8260B continued				54 8260B		1002 18:51	BT
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	89.0	%	70-130				
4-Bromofluorobenzene	94.0	%	70-130				
Dibromofluoromethane	85.0	%	70-130				
Blank Analysis for sample(s) 06-10,12-13 (WG152505-4)							
Volatile Organics by MCP 8260B				54 8260B		1003 10:58	RY
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0309785

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 06-10,12-13 (WG152505-4)							
Volatile Organics by MCP 8260B continued				54 8260B		1003 10:58 RY	
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				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Isopropyl Ether	ND	ug/l	2.0				
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0				
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0				
1,4-Dioxane	ND	ug/l	250				

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0309785

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 06-10,12-13 (WG152505-4)							
Volatile Organics by MCP 8260B continued				54 8260B		1003 10:58	RY
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	103.	%		70-130			
Toluene-d8	100.	%		70-130			
4-Bromofluorobenzene	106.	%		70-130			
Dibromofluoromethane	97.0	%		70-130			

**ALPHA ANALYTICAL LABORATORIES**  
**ADDENDUM I**

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**REFERENCES**

54. Compendium of Quality Assurance and Quality Control Requirements and Performance Standards for Selected Analytical Methods. MADEP BWSC. Final Methods. May 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: L0309785

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
L0309785-01A	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-01B	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-02A	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-02B	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-03A	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-03B	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-04A	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-04B	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-05A	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-05B	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-05C	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-05D	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-06A	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-06B	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-07A	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-07B	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-08A	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-08B	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-09A	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-09B	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-10A	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-10B	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-10C	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-10D	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-11A	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-11B	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-12A	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-13A	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-13B	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-14A	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260
L0309785-14B	Vial HCl preserved	A	NA	1.7 C	Y	Absent	MCP-8260

Container Comments

Container ID Comments

# CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA Job #: 0309785

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

Project Name: Baystate

## Project Information

Project Name: Baystate

Project Location: Weymouth, MA

Project #:

Project Manager: J. Picard

ALPHA Quote #:

Turn-Around Time

Standard  Standard  RUSH (only confirmed if pre-approved)

Date Due: 10/7/03 Time:

Other Project Specific Requirements/Comments/Detection Limits:

These samples have been previously analyzed by Alpha

Client Information

Client: ERM

Address: 399 Baystate St. #16

Phone: 617 267 8377

Fax: 617 267 6447

Email:

Report Information - Data Deliverables

FAX  EMAIL

Add'l Deliverables hard copy

Regulatory Requirements/Report Limits

State / Fed Program

Criteria

MCP PRESUMPTIVE CERTAINTY - THESE QUESTIONS MUST BE ANSWERED

Are MCP Analytical Methods Required?  Yes  No

Are Drinking Water Samples Submitted?  Yes  No

Have you met minimum field QC requirements?  Yes  No

REPORTING INFORMATION

8260 8011 CH MTRK

ANALYSIS

SAMPLE HANDLING

Filtration  Done  Not needed

Lab to do Preservation  Lab to do  Lab to do

TOTAL #

2

2

BOTTLES

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QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

IS YOUR PROJECT MCP?

Relinquished By: [Signature] Date: 9/30/03

Container Type: V V V Preservative: B B B

Received By: [Signature] Date: 9/30/03

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 1 OF 1

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

### Client Information

Client: ERM

Address: 399 Bayshore St

Boston MA 02116

Phone: 617-267-1317

Fax: 617-267-6447

Email:

Other Project Specific Requirements/Comments:

### Project Information

Project Name: Kaytheon

Project Location: Weyland MA

Project #: 1922.07.02

Project Manager: Jenny Davis

ALPHA Quote #:

Turn-Around Time

Standard

Date Due: 10/1/03

RUSH (only confirmed if pre-approved)

Time:

### Report Information - Data Deliverables

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

FAX

ADEX

Criteria Checker:

Other Formats:

EMAIL (standard pdf report)

Additional Deliverables: Hard copy

Report to: (if different than Project Manager)

### Billing Information

Same as Client info

PO #:

### Regulatory Requirements/Report Limits

State / Fed

Program

Criteria

### ALPHA Lab ID (Lab Use Only)

### Sample ID

### Collection

### Date

### Time

### Sample Matrix

### Sampler's Initials

### Container Type

### Preservative

### Refrigerated By

### Date/Time

### Sample Specific Comments

### TOTAL #

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection	Date	Time	Sample Matrix	Sampler's Initials	Container Type	Preservative	Refrigerated By	Date/Time	Sample Specific Comments	TOTAL #
0978511	MW-2165		9/30/03	1702	GW	AK	V	B		9/30/03		2
	78-2		9/30/03	1416	X	DS	V	B				1
	DUP-2		9/30/03	0845	GW	KRK	V	B				2
	13		9/30/03	0850	GW	VZ	V	B				2
	10	MW-208D-MS/D	9/30/03	0850	GW	VZ	V	B				2
	14	DUP-3	9/30/03	2406	GW	VZ	V	B				2
	5	MW-208D-MS/D	9/30/03	1050	GW	KRK	V	B				2

Shaded Gray Areas For Lab Use Only

Relinquished By:

Date/Time

Refrigerated 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.

ANALYSIS  
 8021C  
 8260  
 8021C + M766

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

030 0785  
 0309786