

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: L0504091
Address: 399 Boylston Street
6th Floor
Boston, MA 02116 Date Received: 15-APR-2005
Attn: Jeremy Picard Date Reported: 22-APR-2005
Project Number: 28046 Delivery Method: Alpha
Site: FORMER RAYTHEON FACILITY

The following questions pertain only to MCP Analytical Methods

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

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

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

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

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

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

Authorized by: James Todaro
This document electronically signed

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0504091
Date Reported: 22-APR-2005

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0504091-01	MW-118-20050414-01	WAYLAND, MA
L0504091-02	MW-117-20050414-01	WAYLAND, MA
L0504091-03	DUP-008-20050414-01	WAYLAND, MA
L0504091-04	DUP-005-20050414-01	WAYLAND, MA
L0504091-05	MW-208M-20050414-01	WAYLAND, MA
L0504091-06	MW-208S-20050414-01	WAYLAND, MA
L0504091-07	MW-105M-20050414-01	WAYLAND, MA

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0504091

MCP Related Narratives

Report Submission

In reference to question F, the samples were analyzed only for the compounds specified on the chain of custody.

Volatile Organics

L0504091-01 has elevated limits of detection due to the 4x dilution required by the elevated concentrations of target compounds in the sample.

In reference to question E, the WG199835-1 and -2 and WG199962-3 and -4 LCS/LCSD % recoveries for Dichlorodifluoromethane, a difficult analyte, are below the acceptance criteria for the method.

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0504091-01
MW-118-20050414-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0420 15:50		RY
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	112.	%		70-130			
Toluene-d8	97.0	%		70-130			
4-Bromofluorobenzene	107.	%		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: L0504091-02	Date Collected: 14-APR-2005 11:15
MW-117-20050414-01	Date Received : 15-APR-2005
Sample Matrix: WATER	Date Reported : 22-APR-2005
Condition of Sample: Satisfactory	Field Prep: Field Filtered
Number & Type of Containers: 1-Plastic,2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Dissolved Metals by MCP 6000/7000 series				60 6010B		
Sodium, Dissolved	94.	mg/l	2.0	60 6010B	0420 18:00 0421 15:20	RW
Volatile Organics by MCP 8260B				60 8260B	0420 18:38	RY
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	2.6	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	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	0.74	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	1.0			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0504091-02
MW-117-20050414-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0420 18:38		RY
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	105.	%		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**

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

Laboratory Sample Number: L0504091-03	Date Collected: 14-APR-2005 00:00
DUP-008-20050414-01	Date Received : 15-APR-2005
Sample Matrix: WATER	Date Reported : 22-APR-2005
Condition of Sample: Satisfactory	Field Prep: Field Filtered
Number & Type of Containers: 1-Plastic,2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Dissolved Metals by MCP 6000/7000 series				60 6010B		
Sodium, Dissolved	94.	mg/l	2.0	60 6010B	0420 18:00 0421 15:23	RW
Volatile Organics by MCP 8260B				60 8260B	0421 11:15	RY
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	0.75			
Chloroform	2.6	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	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	0.85	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	1.0			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0504091-03
DUP-008-20050414-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0421 11:15 RY		
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	109.	%		70-130			
Toluene-d8	98.0	%		70-130			
4-Bromofluorobenzene	99.0	%		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**

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

Laboratory Sample Number: L0504091-04	Date Collected: 14-APR-2005 00:00
DUP-005-20050414-01	Date Received : 15-APR-2005
Sample Matrix: WATER	Date Reported : 22-APR-2005
Condition of Sample: Satisfactory	Field Prep: Field Filtered
Number & Type of Containers: 1-Plastic,2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Dissolved Metals by MCP 6000/7000 series				60 6010B		
Sodium, Dissolved	71.	mg/l	2.0	60 6010B	0420 18:00 0421 15:26	RW
Volatile Organics by MCP 8260B				60 8260B	0421 11:51	RY
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	1.8	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	0.73	ug/l	0.50			
trans-1,2-Dichloroethene	ND	ug/l	0.75			
Trichloroethene	9.1	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	0.73	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	1.0			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0504091-04
DUP-005-20050414-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0421 11:51		RY
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	111.	%		70-130			
Toluene-d8	97.0	%		70-130			
4-Bromofluorobenzene	100.	%		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: L0504091-05	Date Collected: 14-APR-2005 11:35
MW-208M-20050414-01	Date Received : 15-APR-2005
Sample Matrix: WATER	Date Reported : 22-APR-2005
Condition of Sample: Satisfactory	Field Prep: Field Filtered
Number & Type of Containers: 3-Plastic,6-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Dissolved Metals by MCP 6000/7000 series				60 6010B		
Sodium, Dissolved	73.	mg/l	2.0	60 6010B	0420 18:00 0421 15:31	RW
Volatile Organics by MCP 8260B				60 8260B	0420 20:37	TT
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	1.9	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	0.79	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	0.92	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	1.0			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0504091-05
MW-208M-20050414-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0420 20:37		TT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	102.	%		70-130			
Toluene-d8	97.0	%		70-130			
4-Bromofluorobenzene	91.0	%		70-130			
Dibromofluoromethane	95.0	%		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: L0504091-06	Date Collected: 14-APR-2005 13:40
MW-208S-20050414-01	Date Received : 15-APR-2005
Sample Matrix: WATER	Date Reported : 22-APR-2005
Condition of Sample: Satisfactory	Field Prep: Field Filtered
Number & Type of Containers: 1-Plastic,2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP ANAL	ID
Dissolved Metals by MCP 6000/7000 series				60 6010B		
Sodium, Dissolved	93.	mg/l	2.0	60 6010B	0420 18:00 0421 15:52	RW
Volatile Organics by MCP 8260B				60 8260B	0420 21:17	TT
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	5.8	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	4.9	ug/l	0.50			
1,2-Dichlorobenzene	ND	ug/l	2.5			
1,3-Dichlorobenzene	ND	ug/l	2.5			
1,4-Dichlorobenzene	ND	ug/l	2.5			
cis-1,2-Dichloroethene	ND	ug/l	0.50			
Dichlorodifluoromethane	ND	ug/l	5.0			
1,2-Dibromoethane	ND	ug/l	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	1.0			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0504091-06
MW-208S-20050414-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0420 21:17		TT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	106.	%		70-130			
Toluene-d8	101.	%		70-130			
4-Bromofluorobenzene	98.0	%		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**

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

Laboratory Sample Number:	L0504091-07	Date Collected:	14-APR-2005 15:45
	MW-105M-20050414-01	Date Received :	15-APR-2005
Sample Matrix:	WATER	Date Reported :	22-APR-2005
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				60 8260B	0420 21:56	TT
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	2.0			
1,3-Dichloropropane	ND	ug/l	2.5			
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50			
o-Chlorotoluene	ND	ug/l	2.5			
p-Chlorotoluene	ND	ug/l	2.5			
Hexachlorobutadiene	ND	ug/l	1.0			
1,2,4-Trichlorobenzene	ND	ug/l	2.5			

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

**ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0504091-07
MW-105M-20050414-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B continued				60 8260B	0420 21:56		TT
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	99.0	%		70-130			
Toluene-d8	95.0	%		70-130			
4-Bromofluorobenzene	89.0	%		70-130			
Dibromofluoromethane	94.0	%		70-130			

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0504091

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Dissolved Metals by MCP 6000/7000 series for sample(s) 02-06 (WG199773-4, WG199773-5)					
Sodium, Dissolved	110	110	0	20	75-125
Volatile Organics by MCP 8260B for sample(s) 01 (WG199592-9, WG199592-10)					
Methylene chloride	94	99	5	25	70-130
1,1-Dichloroethane	86	101	16	25	70-130
Chloroform	100	109	9	25	70-130
Carbon tetrachloride	108	111	3	25	70-130
1,2-Dichloropropane	92	102	10	25	70-130
Dibromochloromethane	86	90	5	25	70-130
1,1,2-Trichloroethane	81	86	6	25	70-130
Tetrachloroethene	100	99	1	25	70-130
Chlorobenzene	93	93	0	25	70-130
1,2-Dichloroethane	99	104	5	25	70-130
1,1,1-Trichloroethane	103	112	8	25	70-130
Bromodichloromethane	92	97	5	25	70-130
trans-1,3-Dichloropropene	80	86	7	25	70-130
cis-1,3-Dichloropropene	88	95	8	25	70-130
Bromoform	90	94	4	50	70-130
1,1,2,2-Tetrachloroethane	84	90	7	25	70-130
Benzene	99	104	5	25	70-130
Chloromethane	85	90	6	50	70-130
Vinyl chloride	95	101	6	25	70-130
Chloroethane	90	98	9	25	70-130
1,1-Dichloroethene	98	107	9	25	70-130
trans-1,2-Dichloroethene	99	106	7	25	70-130
Trichloroethene	102	103	1	25	70-130
1,2-Dichlorobenzene	92	98	6	25	70-130
1,3-Dichlorobenzene	93	96	3	25	70-130
1,4-Dichlorobenzene	92	92	0	25	70-130
Methyl tert butyl ether	78	92	16	25	70-130
cis-1,2-Dichloroethene	92	103	11	25	70-130
Dichlorodifluoromethane	78	82	5	50	70-130
1,2-Dibromoethane	86	90	5	25	70-130
1,3-Dichloropropane	82	89	8	25	70-130
1,1,1,2-Tetrachloroethane	91	92	1	25	70-130
o-Chlorotoluene	91	94	3	25	70-130
p-Chlorotoluene	90	92	2	25	70-130
Hexachlorobutadiene	97	99	2	25	70-130
1,2,4-Trichlorobenzene	101	105	4	25	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	100	106	6		70-130
Toluene-d8	98	99	1		70-130
4-Bromofluorobenzene	101	101	0		70-130
Dibromofluoromethane	98	105	7		70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0504091

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 02 (WG199832-6, WG199832-7)					
Methylene chloride	100	100	0	25	70-130
1,1-Dichloroethane	113	116	3	25	70-130
Chloroform	106	105	1	25	70-130
Carbon tetrachloride	119	121	2	25	70-130
1,2-Dichloropropane	100	103	3	25	70-130
Dibromochloromethane	99	96	3	25	70-130
1,1,2-Trichloroethane	95	91	4	25	70-130
Tetrachloroethene	100	101	1	25	70-130
Chlorobenzene	99	97	2	25	70-130
1,2-Dichloroethane	107	104	3	25	70-130
1,1,1-Trichloroethane	112	116	4	25	70-130
Bromodichloromethane	100	101	1	25	70-130
trans-1,3-Dichloropropene	95	90	5	25	70-130
cis-1,3-Dichloropropene	97	98	1	25	70-130
Bromoform	109	107	2	50	70-130
1,1,2,2-Tetrachloroethane	101	105	4	25	70-130
Benzene	105	106	1	25	70-130
Chloromethane	72	72	0	50	70-130
Vinyl chloride	97	95	2	25	70-130
Chloroethane	91	92	1	25	70-130
1,1-Dichloroethene	96	101	5	25	70-130
trans-1,2-Dichloroethene	100	102	2	25	70-130
Trichloroethene	104	103	1	25	70-130
1,2-Dichlorobenzene	99	102	3	25	70-130
1,3-Dichlorobenzene	96	102	6	25	70-130
1,4-Dichlorobenzene	96	100	4	25	70-130
Methyl tert butyl ether	106	108	2	25	70-130
cis-1,2-Dichloroethene	97	98	1	25	70-130
Dichlorodifluoromethane	80	81	1	50	70-130
1,2-Dibromoethane	99	95	4	25	70-130
1,3-Dichloropropane	92	92	0	25	70-130
1,1,1,2-Tetrachloroethane	101	98	3	25	70-130
o-Chlorotoluene	95	99	4	25	70-130
p-Chlorotoluene	91	96	5	25	70-130
Hexachlorobutadiene	100	101	1	25	70-130
1,2,4-Trichlorobenzene	110	115	4	25	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	108	109	1		70-130
Toluene-d8	96	94	2		70-130
4-Bromofluorobenzene	97	100	3		70-130
Dibromofluoromethane	105	104	1		70-130
Volatile Organics by MCP 8260B for sample(s) 05 (WG199962-3, WG199962-4)					
Methylene chloride	105	101	4	25	70-130
1,1-Dichloroethane	107	102	5	25	70-130
Chloroform	100	98	2	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0504091

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 05 (WG199962-3, WG199962-4)					
Carbon tetrachloride	103	97	6	25	70-130
1,2-Dichloropropane	102	100	2	25	70-130
Dibromochloromethane	96	93	3	25	70-130
1,1,2-Trichloroethane	113	109	4	25	70-130
Tetrachloroethene	103	99	4	25	70-130
Chlorobenzene	100	96	4	25	70-130
1,2-Dichloroethane	116	112	4	25	70-130
1,1,1-Trichloroethane	105	99	6	25	70-130
Bromodichloromethane	99	96	3	25	70-130
trans-1,3-Dichloropropene	101	97	4	25	70-130
cis-1,3-Dichloropropene	97	94	3	25	70-130
Bromoform	90	88	2	50	70-130
1,1,2,2-Tetrachloroethane	105	101	4	25	70-130
Chloromethane	89	87	2	50	70-130
Vinyl chloride	101	101	0	25	70-130
Chloroethane	113	108	5	25	70-130
1,1-Dichloroethene	99	96	3	25	70-130
trans-1,2-Dichloroethene	103	99	4	25	70-130
Trichloroethene	106	102	4	25	70-130
1,2-Dichlorobenzene	101	100	1	25	70-130
1,3-Dichlorobenzene	101	98	3	25	70-130
1,4-Dichlorobenzene	101	98	3	25	70-130
cis-1,2-Dichloroethene	107	102	5	25	70-130
Dichlorodifluoromethane	67	63	6	50	70-130
1,2-Dibromoethane	105	103	2	25	70-130
1,3-Dichloropropane	107	105	2	25	70-130
1,1,1,2-Tetrachloroethane	99	96	3	25	70-130
o-Chlorotoluene	98	94	4	25	70-130
p-Chlorotoluene	100	96	4	25	70-130
Hexachlorobutadiene	95	90	5	25	70-130
1,2,4-Trichlorobenzene	103	94	9	25	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	101	107	6		70-130
Toluene-d8	92	97	5		70-130
4-Bromofluorobenzene	87	93	7		70-130
Dibromofluoromethane	94	99	5		70-130
Volatile Organics by MCP 8260B for sample(s) 03-04 (WG199971-1, WG199971-2)					
Methylene chloride	101	92	9	25	70-130
1,1-Dichloroethane	90	88	2	25	70-130
Chloroform	112	100	11	25	70-130
Carbon tetrachloride	120	107	11	25	70-130
1,2-Dichloropropane	100	93	7	25	70-130
Dibromochloromethane	97	87	11	25	70-130
1,1,2-Trichloroethane	92	85	8	25	70-130
Tetrachloroethene	109	96	13	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0504091

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 03-04 (WG199971-1, WG199971-2)					
Chlorobenzene	104	92	12	25	70-130
Trichlorofluoromethane	118	103	14	25	70-130
1,2-Dichloroethane	107	98	9	25	70-130
1,1,1-Trichloroethane	114	104	9	25	70-130
Bromodichloromethane	100	91	9	25	70-130
trans-1,3-Dichloropropene	88	80	10	25	70-130
cis-1,3-Dichloropropene	92	88	4	25	70-130
1,1-Dichloropropene	110	99	11	25	70-130
Bromoform	99	90	10	50	70-130
1,1,2,2-Tetrachloroethane	93	87	7	25	70-130
Benzene	107	97	10	25	70-130
Toluene	101	89	13	25	70-130
Ethylbenzene	104	91	13	25	70-130
Chloromethane	96	81	17	50	70-130
Bromomethane	70	70	0	50	70-130
Vinyl chloride	101	90	12	25	70-130
Chloroethane	98	91	7	25	70-130
1,1-Dichloroethene	106	98	8	25	70-130
trans-1,2-Dichloroethene	106	96	10	25	70-130
Trichloroethene	103	95	8	25	70-130
1,2-Dichlorobenzene	103	92	11	25	70-130
1,3-Dichlorobenzene	103	93	10	25	70-130
1,4-Dichlorobenzene	102	91	11	25	70-130
Methyl tert butyl ether	84	86	2	25	70-130
p/m-Xylene	102	91	11	25	70-130
o-Xylene	104	91	13	25	70-130
cis-1,2-Dichloroethene	103	94	9	25	70-130
Dibromomethane	103	94	9	25	70-130
1,2,3-Trichloropropane	95	88	8	25	70-130
Styrene	102	88	15	25	70-130
Dichlorodifluoromethane	84	73	14	50	70-130
Acetone	93	83	11	50	70-130
Carbon disulfide	104	90	14	25	70-130
2-Butanone	82	75	9	50	70-130
4-Methyl-2-pentanone	78	74	5	50	70-130
2-Hexanone	96	81	17	50	70-130
Bromochloromethane	110	102	8	25	70-130
Tetrahydrofuran	84	88	5	25	70-130
2,2-Dichloropropane	86	88	2	25	70-130
1,2-Dibromoethane	95	85	11	25	70-130
1,3-Dichloropropane	92	83	10	25	70-130
1,1,1,2-Tetrachloroethane	100	88	13	25	70-130
Bromobenzene	114	100	13	25	70-130
n-Butylbenzene	98	89	10	25	70-130
sec-Butylbenzene	95	84	12	25	70-130
tert-Butylbenzene	97	87	11	25	70-130
o-Chlorotoluene	101	91	10	25	70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0504091

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 03-04 (WG199971-1, WG199971-2)					
p-Chlorotoluene	100	92	8	25	70-130
1,2-Dibromo-3-chloropropane	88	80	10	50	70-130
Hexachlorobutadiene	104	90	14	25	70-130
Isopropylbenzene	103	92	11	25	70-130
p-Isopropyltoluene	99	86	14	25	70-130
Naphthalene	95	95	0	25	70-130
n-Propylbenzene	98	87	12	25	70-130
1,2,3-Trichlorobenzene	111	105	6	25	70-130
1,2,4-Trichlorobenzene	107	102	5	25	70-130
1,3,5-Trimethylbenzene	97	89	9	25	70-130
1,2,4-Trimethylbenzene	98	87	12	25	70-130
Ethyl ether	96	100	4	25	70-130
Isopropyl Ether	100	94	6	25	70-130
Ethyl-Tert-Butyl-Ether	94	90	4	25	70-130
Tertiary-Amyl Methyl Ether	89	90	1	25	70-130
1,4-Dioxane	93	95	2	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	110	107	3		70-130
Toluene-d8	98	95	3		70-130
4-Bromofluorobenzene	102	97	5		70-130
Dibromofluoromethane	108	105	3		70-130
Volatile Organics by MCP 8260B for sample(s) 06-07 (WG199835-1, WG199835-2)					
Methylene chloride	105	101	4	25	70-130
1,1-Dichloroethane	107	102	5	25	70-130
Chloroform	100	98	2	25	70-130
Carbon tetrachloride	103	97	6	25	70-130
1,2-Dichloropropane	102	100	2	25	70-130
Dibromochloromethane	96	93	3	25	70-130
1,1,2-Trichloroethane	113	109	4	25	70-130
Tetrachloroethene	103	99	4	25	70-130
Chlorobenzene	100	96	4	25	70-130
1,2-Dichloroethane	116	112	4	25	70-130
1,1,1-Trichloroethane	105	99	6	25	70-130
Bromodichloromethane	99	96	3	25	70-130
trans-1,3-Dichloropropene	101	97	4	25	70-130
cis-1,3-Dichloropropene	97	94	3	25	70-130
Bromoform	90	88	2	50	70-130
1,1,2,2-Tetrachloroethane	105	101	4	25	70-130
Chloromethane	89	87	2	50	70-130
Vinyl chloride	101	101	0	25	70-130
Chloroethane	113	108	5	25	70-130
1,1-Dichloroethene	99	96	3	25	70-130
trans-1,2-Dichloroethene	103	99	4	25	70-130
Trichloroethene	106	102	4	25	70-130
1,2-Dichlorobenzene	101	100	1	25	70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0504091

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 06-07 (WG199835-1, WG199835-2)					
1,3-Dichlorobenzene	101	98	3	25	70-130
1,4-Dichlorobenzene	101	98	3	25	70-130
cis-1,2-Dichloroethene	107	102	5	25	70-130
Dichlorodifluoromethane	67	63	6	50	70-130
1,2-Dibromoethane	105	103	2	25	70-130
1,3-Dichloropropane	107	105	2	25	70-130
1,1,1,2-Tetrachloroethane	99	96	3	25	70-130
o-Chlorotoluene	98	94	4	25	70-130
p-Chlorotoluene	100	96	4	25	70-130
Hexachlorobutadiene	95	90	5	25	70-130
1,2,4-Trichlorobenzene	103	94	9	25	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	101	107	6		70-130
Toluene-d8	92	97	5		70-130
4-Bromofluorobenzene	87	93	7		70-130
Dibromofluoromethane	94	99	5		70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0504091

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Dissolved Metals by MCP 6000/7000 series for sample(s) 02-06 (L0504091-05, WG199773-2)					
Sodium, Dissolved	110	120	9	20	75-125
Volatile Organics by MCP 8260B for sample(s) 01 (L0504025-04, WG199592-2)					
Methylene chloride	105	96	9	30	70-130
1,1-Dichloroethane	94	91	3	30	70-130
Chloroform	111	103	7	30	70-130
Carbon tetrachloride	118	107	10	30	70-130
1,2-Dichloropropane	105	97	8	30	70-130
Dibromochloromethane	103	93	10	30	70-130
1,1,2-Trichloroethane	104	92	12	30	70-130
Tetrachloroethene	110	95	15	30	70-130
Chlorobenzene	104	94	10	30	70-130
1,2-Dichloroethane	115	105	9	30	70-130
1,1,1-Trichloroethane	115	105	9	30	70-130
Bromodichloromethane	105	97	8	30	70-130
trans-1,3-Dichloropropene	102	89	14	30	70-130
cis-1,3-Dichloropropene	100	95	5	30	70-130
Bromoform	107	97	10	30	70-130
1,1,2,2-Tetrachloroethane	102	97	5	30	70-130
Benzene	108	97	11	30	70-130
Chloromethane	83	77	8	30	70-130
Vinyl chloride	104	92	12	30	70-130
Chloroethane	98	86	13	30	70-130
1,1-Dichloroethene	113	104	8	30	70-130
trans-1,2-Dichloroethene	112	101	10	30	70-130
Trichloroethene	111	98	12	30	70-130
1,2-Dichlorobenzene	103	96	7	30	70-130
1,3-Dichlorobenzene	102	97	5	30	70-130
1,4-Dichlorobenzene	103	94	9	30	70-130
Methyl tert butyl ether	88	90	2	30	70-130
cis-1,2-Dichloroethene	108	100	8	30	70-130
Dichlorodifluoromethane	88	81	8	30	70-130
1,2-Dibromoethane	104	94	10	30	70-130
1,3-Dichloropropane	102	92	10	30	70-130
1,1,1,2-Tetrachloroethane	108	95	13	30	70-130
o-Chlorotoluene	103	94	9	30	70-130
p-Chlorotoluene	99	92	7	30	70-130
Hexachlorobutadiene	99	92	7	30	70-130
1,2,4-Trichlorobenzene	104	102	2	30	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	113	108	5		70-130
Toluene-d8	100	96	4		70-130
4-Bromofluorobenzene	101	101	0		70-130
Dibromofluoromethane	112	106	6		70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0504091

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by MCP 8260B for sample(s) 02 (L0504027-04, WG199832-2)					
Methylene chloride	102	104	2	30	70-130
1,1-Dichloroethane	97	102	5	30	70-130
Chloroform	103	106	3	30	70-130
Carbon tetrachloride	126	118	7	30	70-130
1,2-Dichloropropane	104	101	3	30	70-130
Dibromochloromethane	98	94	4	30	70-130
1,1,2-Trichloroethane	95	90	5	30	70-130
Tetrachloroethene	106	99	7	30	70-130
Chlorobenzene	98	95	3	30	70-130
1,2-Dichloroethane	107	114	6	30	70-130
1,1,1-Trichloroethane	118	112	5	30	70-130
Bromodichloromethane	98	97	1	30	70-130
trans-1,3-Dichloropropene	90	85	6	30	70-130
cis-1,3-Dichloropropene	92	89	3	30	70-130
Bromoform	105	100	5	30	70-130
1,1,2,2-Tetrachloroethane	97	95	2	30	70-130
Benzene	104	103	1	30	70-130
Chloromethane	90	84	7	30	70-130
Vinyl chloride	98	101	3	30	70-130
Chloroethane	97	97	0	30	70-130
1,1-Dichloroethene	102	109	7	30	70-130
trans-1,2-Dichloroethene	102	109	7	30	70-130
Trichloroethene	105	104	1	30	70-130
1,2-Dichlorobenzene	96	97	1	30	70-130
1,3-Dichlorobenzene	96	97	1	30	70-130
1,4-Dichlorobenzene	94	96	2	30	70-130
Methyl tert butyl ether	92	95	3	30	70-130
cis-1,2-Dichloroethene	100	105	5	30	70-130
Dichlorodifluoromethane	76	84	10	30	70-130
1,2-Dibromoethane	98	94	4	30	70-130
1,3-Dichloropropane	92	90	2	30	70-130
1,1,1,2-Tetrachloroethane	103	98	5	30	70-130
o-Chlorotoluene	94	95	1	30	70-130
p-Chlorotoluene	93	91	2	30	70-130
Hexachlorobutadiene	94	95	1	30	70-130
1,2,4-Trichlorobenzene	103	105	2	30	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	108	113	5		70-130
Toluene-d8	97	99	2		70-130
4-Bromofluorobenzene	101	103	2		70-130
Dibromofluoromethane	106	111	5		70-130
Volatile Organics by MCP 8260B for sample(s) 05 (L0504091-05, WG199962-2)					
Methylene chloride	100	98	2	30	70-130
1,1-Dichloroethane	103	101	2	30	70-130
Chloroform	96	94	2	30	70-130

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0504091

Continued

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
Volatile Organics by MCP 8260B for sample(s) 05 (L0504091-05, WG199962-2)					
Carbon tetrachloride	104	101	3	30	70-130
1,2-Dichloropropane	100	96	4	30	70-130
Dibromochloromethane	90	91	1	30	70-130
1,1,2-Trichloroethane	102	104	2	30	70-130
Tetrachloroethene	107	107	0	30	70-130
Chlorobenzene	98	98	0	30	70-130
1,2-Dichloroethane	109	107	2	30	70-130
1,1,1-Trichloroethane	110	107	3	30	70-130
Bromodichloromethane	94	91	3	30	70-130
trans-1,3-Dichloropropene	92	94	2	30	70-130
cis-1,3-Dichloropropene	91	91	0	30	70-130
Bromoform	80	85	6	30	70-130
1,1,2,2-Tetrachloroethane	93	98	5	30	70-130
Chloromethane	116	113	3	30	70-130
Vinyl chloride	128	123	4	30	70-130
Chloroethane	130	123	6	30	70-130
1,1-Dichloroethene	101	97	4	30	70-130
trans-1,2-Dichloroethene	107	105	2	30	70-130
Trichloroethene	89	84	6	30	70-130
1,2-Dichlorobenzene	98	99	1	30	70-130
1,3-Dichlorobenzene	100	100	0	30	70-130
1,4-Dichlorobenzene	99	98	1	30	70-130
cis-1,2-Dichloroethene	102	99	3	30	70-130
Dichlorodifluoromethane	88	86	2	30	70-130
1,2-Dibromoethane	94	99	5	30	70-130
1,3-Dichloropropane	100	99	1	30	70-130
1,1,1,2-Tetrachloroethane	97	97	0	30	70-130
o-Chlorotoluene	106	98	8	30	70-130
p-Chlorotoluene	99	99	0	30	70-130
Hexachlorobutadiene	123	126	2	30	70-130
1,2,4-Trichlorobenzene	95	104	9	30	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	105	111	6		70-130
Toluene-d8	97	103	6		70-130
4-Bromofluorobenzene	92	99	7		70-130
Dibromofluoromethane	99	104	5		70-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0504091

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 02-06 (WG199773-3)							
Dissolved Metals by MCP 6000/7000 series				60 6010B			
Sodium, Dissolved	ND	mg/l	2.0	60 6010B	0420 18:00	0421 15:12	RW
Blank Analysis for sample(s) 01 (WG199592-11)							
Volatile Organics by MCP 8260B				60 8260B		0420 10:40	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				
Benzene	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	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	110.	%	70-130				
Toluene-d8	95.0	%	70-130				
4-Bromofluorobenzene	102.	%	70-130				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0504091

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01 (WG199592-11)							
Volatile Organics by MCP 8260B continued				60 8260B		0420 10:40	RY
Dibromofluoromethane	108.	%	70-130				
Blank Analysis for sample(s) 02 (WG199832-8)							
Volatile Organics by MCP 8260B				60 8260B		0420 18:01	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				
Benzene	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	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	106.	%	70-130				
Toluene-d8	98.0	%	70-130				
4-Bromofluorobenzene	106.	%	70-130				
Dibromofluoromethane	99.0	%	70-130				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0504091

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 06-07 (WG199835-3)							
Volatile Organics by MCP 8260B				60 8260B	0420 16:39 TT		
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	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	106.	%	70-130				
Toluene-d8	101.	%	70-130				
4-Bromofluorobenzene	95.0	%	70-130				
Dibromofluoromethane	97.0	%	70-130				
Blank Analysis for sample(s) 05 (WG199962-5)							
Volatile Organics by MCP 8260B				60 8260B	0420 16:39 TT		
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: L0504091

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 05 (WG199962-5)							
Volatile Organics by MCP 8260B continued				60 8260B	0420 16:39 TT		
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	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
Surrogate(s)		Recovery		QC Criteria			
1,2-Dichloroethane-d4	106.	%		70-130			
Toluene-d8	101.	%		70-130			
4-Bromofluorobenzene	95.0	%		70-130			
Dibromofluoromethane	97.0	%		70-130			
Blank Analysis for sample(s) 03-04 (WG199971-3)							
Volatile Organics by MCP 8260B				60 8260B	0421 10:38 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: L0504091

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 03-04 (WG199971-3)							
Volatile Organics by MCP 8260B continued				60 8260B		0421 10:38	RY
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0504091

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 03-04 (WG199971-3)							
Volatile Organics by MCP 8260B continued				60 8260B		0421 10:38	RY
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Isopropyl Ether	ND	ug/l	2.0				
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0				
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0				
1,4-Dioxane	ND	ug/l	250				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	110.	%	70-130				
Toluene-d8	97.0	%	70-130				
4-Bromofluorobenzene	102.	%	70-130				
Dibromofluoromethane	104.	%	70-130				

**ALPHA ANALYTICAL LABORATORIES
ADDENDUM I**

REFERENCES

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

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.
METHOD Method number by which analysis was performed.
ID Initials of the analyst.
ND Not detected in comparison to the reported detection limit.
NI Not Ignitable.
ug/cart Micrograms per Cartridge.

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: L0504091

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
L0504091-01A	Vial Na2S2O3 preserved	A	N/A	3.6 C	Y	Absent	MCP-8260-04
L0504091-01B	Vial Na2S2O3 preserved	A	N/A	3.6 C	Y	Absent	MCP-8260-04
L0504091-02A	Vial HCl preserved	A	N/A	3.6 C	Y	Absent	MCP-8260-04
L0504091-02B	Vial HCl preserved	A	N/A	3.6 C	Y	Absent	MCP-8260-04
L0504091-02C	Plastic 250ml HNO3 preserved	A	<2	3.6 C	Y	Absent	MCP-NA-6010S
L0504091-03A	Vial HCl preserved	A	N/A	3.6 C	Y	Absent	MCP-8260-04
L0504091-03B	Vial HCl preserved	A	N/A	3.6 C	Y	Absent	MCP-8260-04
L0504091-03C	Plastic 250ml HNO3 preserved	A	<2	3.6 C	Y	Absent	MCP-NA-6010S
L0504091-04A	Vial HCl preserved	A	N/A	3.6 C	Y	Absent	MCP-8260-04
L0504091-04B	Vial HCl preserved	A	N/A	3.6 C	Y	Absent	MCP-8260-04
L0504091-04C	Plastic 250ml HNO3 preserved	A	<2	3.6 C	Y	Absent	MCP-NA-6010S
L0504091-05A	Vial HCl preserved	A	N/A	3.6 C	Y	Absent	MCP-8260-04
L0504091-05B	Vial HCl preserved	A	N/A	3.6 C	Y	Absent	MCP-8260-04
L0504091-05C	Plastic 250ml HNO3 preserved	A	<2	3.6 C	Y	Absent	MCP-NA-6010S
L0504091-05D	Vial HCl preserved	A	N/A	3.6 C	Y	Absent	MCP-8260-04
L0504091-05E	Vial HCl preserved	A	N/A	3.6 C	Y	Absent	MCP-8260-04
L0504091-05F	Vial HCl preserved	A	N/A	3.6 C	Y	Absent	MCP-8260-04
L0504091-05G	Vial HCl preserved	A	N/A	3.6 C	Y	Absent	MCP-8260-04
L0504091-05H	Plastic 250ml HNO3 preserved	A	<2	3.6 C	Y	Absent	MCP-NA-6010S
L0504091-05I	Plastic 250ml HNO3 preserved	A	<2	3.6 C	Y	Absent	MCP-NA-6010S
L0504091-06A	Vial HCl preserved	A	N/A	3.6 C	Y	Absent	MCP-8260-04
L0504091-06B	Vial HCl preserved	A	N/A	3.6 C	Y	Absent	MCP-8260-04
L0504091-06C	Plastic 250ml HNO3 preserved	A	<2	3.6 C	Y	Absent	MCP-NA-6010S
L0504091-07A	Vial Na2S2O3 preserved	A	N/A	3.6 C	Y	Absent	MCP-8260-04
L0504091-07B	Vial Na2S2O3 preserved	A	N/A	3.6 C	Y	Absent	MCP-8260-04

Container Comments

Container ID	Comments

