

Raytheon Company

DRAFT

**Phase IV – Remedy Implementation Plan Addendum
Former Raytheon Facility
430 Boston Post Road
Wayland, Massachusetts**

RTN 3-22408
Tier IB Permit Number W045278
ERM Reference 0079387

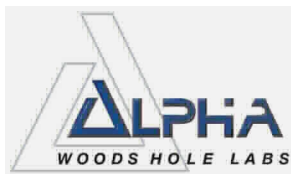
14 May 2008

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Appendix A
BWSC Form and
Public Notification

*DEP Transmittal Form BWSC-108 and
Documentation of Public Notification to be
Included in Final Report*

Appendix B
Laboratory Analytical Reports



ANALYTICAL REPORT

Lab Number: L0613818

Client: ERM-New England
399 Boylston Street 6th Floor
Boston, MA 02116

ATTN: Jeremy Picard

Project Name: RAYTHEON

Project Number: 42925

Report Date: 10/04/06

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: RAYTHEON
Project Number: 42925

Lab Number: L0613818
Report Date: 10/04/06

Alpha Sample ID	Client ID	Sample Location
L0613818-01	TB-002-20060926-01	WAYLAND
L0613818-02	MW-553-20060926-01	WAYLAND
L0613818-03	MW-552-20060926-01	WAYLAND
L0613818-04	DUP-004-20060926-01	WAYLAND
L0613818-05	MW-267S-20060926-01	WAYLAND
L0613818-06	MW-267M-20060926-01	WAYLAND
L0613818-07	MW-266MA-20060926-01	WAYLAND
L0613818-08	MW-266MB-20060926-01	WAYLAND
L0613818-09	DUP-001-20060926-01	WAYLAND
L0613818-10	MW-265M-20060926-01	WAYLAND
L0613818-11	MW-268M-20060926-01	WAYLAND
L0613818-12	MW-264M-20060926-01	WAYLAND
L0613818-13	MW-551-20060926-01	WAYLAND
L0613818-14	DUP-003-20060926-01	WAYLAND
L0613818-15	MW-268D-20060926-01	WAYLAND
L0613818-16	MW-555MB-20060926-01	WAYLAND
L0613818-17	MW-555D-20060926-01	WAYLAND
L0613818-18	MW-555S-20060926-01	WAYLAND
L0613818-19	MW-555MA-20060926-01	WAYLAND

Project Name: RAYTHEON

Lab Number: L0613818

Project Number: 42925

Report Date: 10/04/06

MADEP MCP Response Action Analytical Report Certification**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
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Project Name: RAYTHEON
Project Number: 42925

Lab Number: L0613818
Report Date: 10/04/06

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives:

Volatile Organics

The following samples have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples:

L0613818-02, -04 (10x)

L0613818-03 (200x)

L0613818-05, 08 (10x)

L0613818-06 (20x)

L0613818-09, 12 (5x)

L0613818-10 (25x)

L0613818-11 (100x)

In reference to question E:

The WG255589-5 MSD % recovery for trichloroethene recovery is below criteria due to sample matrix.

The WG255675-1,2 LCS,LCSD have low recoveries for dichlorodifluoromethane and a low recovery for 1,2-dibromo-3-chloropropane (in the LCS), both difficult analytes

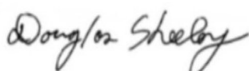
The WG255675-4,5 LCS,LCSD have low recoveries for 1,4-dioxane (in the LCS) and 1,2-dibromo-3-chloropropane, both difficult analytes

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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

Authorized Signature:



Title: Technical Director

Date: 10/04/06

ORGANICS

VOLATILES

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-01
Client ID: TB-002-20060926-01
Sample Location: WAYLAND
Matrix: Water
Anaytical Method: 60,8260B
Analytical Date: 10/03/06 11:57
Analyst: RY

Date Collected: 09/25/06 11:15
Date Received: 09/27/06
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-01
 Client ID: TB-002-20060926-01
 Sample Location: WAYLAND

Date Collected: 09/25/06 11:15
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	112		70-130

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-02
 Client ID: MW-553-20060926-01
 Sample Location: WAYLAND
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/03/06 12:34
 Analyst: RY

Date Collected: 09/26/06 16:15
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	50	10
1,1-Dichloroethane	ND		ug/l	7.5	10
Chloroform	ND		ug/l	7.5	10
Carbon tetrachloride	ND		ug/l	5.0	10
1,2-Dichloropropane	ND		ug/l	18	10
Dibromochloromethane	ND		ug/l	5.0	10
1,1,2-Trichloroethane	ND		ug/l	7.5	10
Tetrachloroethene	33		ug/l	5.0	10
Chlorobenzene	ND		ug/l	5.0	10
1,2-Dichloroethane	ND		ug/l	5.0	10
1,1,1-Trichloroethane	ND		ug/l	5.0	10
Bromodichloromethane	ND		ug/l	5.0	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	10
Bromoform	ND		ug/l	20	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	10
Chloromethane	ND		ug/l	25	10
Vinyl chloride	ND		ug/l	10	10
Chloroethane	ND		ug/l	10	10
1,1-Dichloroethene	ND		ug/l	5.0	10
trans-1,2-Dichloroethene	ND		ug/l	7.5	10
Trichloroethene	520		ug/l	5.0	10
1,2-Dichlorobenzene	ND		ug/l	25	10
1,3-Dichlorobenzene	ND		ug/l	25	10
1,4-Dichlorobenzene	ND		ug/l	25	10
cis-1,2-Dichloroethene	95		ug/l	5.0	10
Dichlorodifluoromethane	ND		ug/l	50	10
1,2-Dibromoethane	ND		ug/l	20	10
1,3-Dichloropropane	ND		ug/l	25	10
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	10

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-02
 Client ID: MW-553-20060926-01
 Sample Location: WAYLAND

Date Collected: 09/26/06 16:15
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	25	10
p-Chlorotoluene	ND		ug/l	25	10
Hexachlorobutadiene	ND		ug/l	6.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	113		70-130

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-03
 Client ID: MW-552-20060926-01
 Sample Location: WAYLAND
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/03/06 13:11
 Analyst: RY

Date Collected: 09/26/06 13:28
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	1000	200
1,1-Dichloroethane	ND		ug/l	150	200
Chloroform	ND		ug/l	150	200
Carbon tetrachloride	ND		ug/l	100	200
1,2-Dichloropropane	ND		ug/l	350	200
Dibromochloromethane	ND		ug/l	100	200
1,1,2-Trichloroethane	ND		ug/l	150	200
Tetrachloroethene	190		ug/l	100	200
Chlorobenzene	ND		ug/l	100	200
1,2-Dichloroethane	ND		ug/l	100	200
1,1,1-Trichloroethane	ND		ug/l	100	200
Bromodichloromethane	ND		ug/l	100	200
trans-1,3-Dichloropropene	ND		ug/l	100	200
cis-1,3-Dichloropropene	ND		ug/l	100	200
Bromoform	ND		ug/l	400	200
1,1,2,2-Tetrachloroethane	ND		ug/l	100	200
Chloromethane	ND		ug/l	500	200
Vinyl chloride	ND		ug/l	200	200
Chloroethane	ND		ug/l	200	200
1,1-Dichloroethene	ND		ug/l	100	200
trans-1,2-Dichloroethene	ND		ug/l	150	200
Trichloroethene	4400		ug/l	100	200
1,2-Dichlorobenzene	ND		ug/l	500	200
1,3-Dichlorobenzene	ND		ug/l	500	200
1,4-Dichlorobenzene	ND		ug/l	500	200
cis-1,2-Dichloroethene	280		ug/l	100	200
Dichlorodifluoromethane	ND		ug/l	1000	200
1,2-Dibromoethane	ND		ug/l	400	200
1,3-Dichloropropane	ND		ug/l	500	200
1,1,1,2-Tetrachloroethane	ND		ug/l	100	200

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-03

Date Collected: 09/26/06 13:28

Client ID: MW-552-20060926-01

Date Received: 09/27/06

Sample Location: WAYLAND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	500	200
p-Chlorotoluene	ND		ug/l	500	200
Hexachlorobutadiene	ND		ug/l	120	200
1,2,4-Trichlorobenzene	ND		ug/l	500	200

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	109		70-130

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-04
 Client ID: DUP-004-20060926-01
 Sample Location: WAYLAND
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/03/06 15:39
 Analyst: RY

Date Collected: 09/26/06 00:00
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	50	10
1,1-Dichloroethane	ND		ug/l	7.5	10
Chloroform	ND		ug/l	7.5	10
Carbon tetrachloride	ND		ug/l	5.0	10
1,2-Dichloropropane	ND		ug/l	18	10
Dibromochloromethane	ND		ug/l	5.0	10
1,1,2-Trichloroethane	ND		ug/l	7.5	10
Tetrachloroethene	5.6		ug/l	5.0	10
Chlorobenzene	ND		ug/l	5.0	10
1,2-Dichloroethane	ND		ug/l	5.0	10
1,1,1-Trichloroethane	ND		ug/l	5.0	10
Bromodichloromethane	ND		ug/l	5.0	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	10
Bromoform	ND		ug/l	20	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	10
Chloromethane	ND		ug/l	25	10
Vinyl chloride	ND		ug/l	10	10
Chloroethane	ND		ug/l	10	10
1,1-Dichloroethene	ND		ug/l	5.0	10
trans-1,2-Dichloroethene	ND		ug/l	7.5	10
Trichloroethene	300		ug/l	5.0	10
1,2-Dichlorobenzene	ND		ug/l	25	10
1,3-Dichlorobenzene	ND		ug/l	25	10
1,4-Dichlorobenzene	ND		ug/l	25	10
cis-1,2-Dichloroethene	59		ug/l	5.0	10
Dichlorodifluoromethane	ND		ug/l	50	10
1,2-Dibromoethane	ND		ug/l	20	10
1,3-Dichloropropane	ND		ug/l	25	10
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	10

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-04

Date Collected: 09/26/06 00:00

Client ID: DUP-004-20060926-01

Date Received: 09/27/06

Sample Location: WAYLAND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	25	10
p-Chlorotoluene	ND		ug/l	25	10
Hexachlorobutadiene	ND		ug/l	6.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	110		70-130

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-05
 Client ID: MW-267S-20060926-01
 Sample Location: WAYLAND
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/03/06 17:26
 Analyst: PD

Date Collected: 09/26/06 10:34
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	50	10
1,1-Dichloroethane	ND		ug/l	7.5	10
Chloroform	ND		ug/l	7.5	10
Carbon tetrachloride	ND		ug/l	5.0	10
1,2-Dichloropropane	ND		ug/l	18	10
Dibromochloromethane	ND		ug/l	5.0	10
1,1,2-Trichloroethane	ND		ug/l	7.5	10
Tetrachloroethene	6.2		ug/l	5.0	10
Chlorobenzene	ND		ug/l	5.0	10
1,2-Dichloroethane	ND		ug/l	5.0	10
1,1,1-Trichloroethane	ND		ug/l	5.0	10
Bromodichloromethane	ND		ug/l	5.0	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	10
Bromoform	ND		ug/l	20	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	10
Chloromethane	ND		ug/l	25	10
Vinyl chloride	ND		ug/l	10	10
Chloroethane	ND		ug/l	10	10
1,1-Dichloroethene	ND		ug/l	5.0	10
trans-1,2-Dichloroethene	ND		ug/l	7.5	10
Trichloroethene	380		ug/l	5.0	10
1,2-Dichlorobenzene	ND		ug/l	25	10
1,3-Dichlorobenzene	ND		ug/l	25	10
1,4-Dichlorobenzene	ND		ug/l	25	10
cis-1,2-Dichloroethene	76		ug/l	5.0	10
Dichlorodifluoromethane	ND		ug/l	50	10
1,2-Dibromoethane	ND		ug/l	20	10
1,3-Dichloropropane	ND		ug/l	25	10
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	10

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-05
 Client ID: MW-267S-20060926-01
 Sample Location: WAYLAND

Date Collected: 09/26/06 10:34
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	25	10
p-Chlorotoluene	ND		ug/l	25	10
Hexachlorobutadiene	ND		ug/l	6.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	105		70-130

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-06
Client ID: MW-267M-20060926-01
Sample Location: WAYLAND
Matrix: Water
Anaytical Method: 60,8260B
Analytical Date: 10/03/06 18:05
Analyst: PD

Date Collected: 09/26/06 11:50
Date Received: 09/27/06
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	100	20
1,1-Dichloroethane	ND		ug/l	15	20
Chloroform	ND		ug/l	15	20
Carbon tetrachloride	ND		ug/l	10	20
1,2-Dichloropropane	ND		ug/l	35	20
Dibromochloromethane	ND		ug/l	10	20
1,1,2-Trichloroethane	ND		ug/l	15	20
Tetrachloroethene	40		ug/l	10	20
Chlorobenzene	ND		ug/l	10	20
1,2-Dichloroethane	ND		ug/l	10	20
1,1,1-Trichloroethane	ND		ug/l	10	20
Bromodichloromethane	ND		ug/l	10	20
trans-1,3-Dichloropropene	ND		ug/l	10	20
cis-1,3-Dichloropropene	ND		ug/l	10	20
Bromoform	ND		ug/l	40	20
1,1,2,2-Tetrachloroethane	ND		ug/l	10	20
Chloromethane	ND		ug/l	50	20
Vinyl chloride	ND		ug/l	20	20
Chloroethane	ND		ug/l	20	20
1,1-Dichloroethene	ND		ug/l	10	20
trans-1,2-Dichloroethene	ND		ug/l	15	20
Trichloroethene	780		ug/l	10	20
1,2-Dichlorobenzene	ND		ug/l	50	20
1,3-Dichlorobenzene	ND		ug/l	50	20
1,4-Dichlorobenzene	ND		ug/l	50	20
cis-1,2-Dichloroethene	380		ug/l	10	20
Dichlorodifluoromethane	ND		ug/l	100	20
1,2-Dibromoethane	ND		ug/l	40	20
1,3-Dichloropropane	ND		ug/l	50	20
1,1,1,2-Tetrachloroethane	ND		ug/l	10	20

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-06
 Client ID: MW-267M-20060926-01
 Sample Location: WAYLAND

Date Collected: 09/26/06 11:50
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	50	20
p-Chlorotoluene	ND		ug/l	50	20
Hexachlorobutadiene	ND		ug/l	12	20
1,2,4-Trichlorobenzene	ND		ug/l	50	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	104		70-130

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-07

Date Collected: 09/26/06 11:00

Client ID: MW-266MA-20060926-01

Date Received: 09/27/06

Sample Location: WAYLAND

Field Prep: Not Specified

Matrix: Water

Analytical Method: 60,8260B

Analytical Date: 10/03/06 18:43

Analyst: PD

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	16		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	3.8		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-07

Date Collected: 09/26/06 11:00

Client ID: MW-266MA-20060926-01

Date Received: 09/27/06

Sample Location: WAYLAND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	105		70-130

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-08

Date Collected: 09/26/06 10:15

Client ID: MW-266MB-20060926-01

Date Received: 09/27/06

Sample Location: WAYLAND

Field Prep: Not Specified

Matrix: Water

Analytical Method: 60,8260B

Analytical Date: 10/03/06 19:21

Analyst: PD

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	50	10
1,1-Dichloroethane	ND		ug/l	7.5	10
Chloroform	ND		ug/l	7.5	10
Carbon tetrachloride	ND		ug/l	5.0	10
1,2-Dichloropropane	ND		ug/l	18	10
Dibromochloromethane	ND		ug/l	5.0	10
1,1,2-Trichloroethane	ND		ug/l	7.5	10
Tetrachloroethene	43		ug/l	5.0	10
Chlorobenzene	ND		ug/l	5.0	10
1,2-Dichloroethane	ND		ug/l	5.0	10
1,1,1-Trichloroethane	ND		ug/l	5.0	10
Bromodichloromethane	ND		ug/l	5.0	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	10
Bromoform	ND		ug/l	20	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	10
Chloromethane	ND		ug/l	25	10
Vinyl chloride	13		ug/l	10	10
Chloroethane	ND		ug/l	10	10
1,1-Dichloroethene	ND		ug/l	5.0	10
trans-1,2-Dichloroethene	ND		ug/l	7.5	10
Trichloroethene	250		ug/l	5.0	10
1,2-Dichlorobenzene	ND		ug/l	25	10
1,3-Dichlorobenzene	ND		ug/l	25	10
1,4-Dichlorobenzene	ND		ug/l	25	10
cis-1,2-Dichloroethene	240		ug/l	5.0	10
Dichlorodifluoromethane	ND		ug/l	50	10
1,2-Dibromoethane	ND		ug/l	20	10
1,3-Dichloropropane	ND		ug/l	25	10
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	10

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-08

Date Collected: 09/26/06 10:15

Client ID: MW-266MB-20060926-01

Date Received: 09/27/06

Sample Location: WAYLAND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	25	10
p-Chlorotoluene	ND		ug/l	25	10
Hexachlorobutadiene	ND		ug/l	6.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	105		70-130

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-09
Client ID: DUP-001-20060926-01
Sample Location: WAYLAND
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 10/03/06 16:20
Analyst: MM

Date Collected: 09/26/06 00:00
Date Received: 09/27/06
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	25	5
1,1-Dichloroethane	ND		ug/l	3.8	5
Chloroform	ND		ug/l	3.8	5
Carbon tetrachloride	ND		ug/l	2.5	5
1,2-Dichloropropane	ND		ug/l	8.8	5
Dibromochloromethane	ND		ug/l	2.5	5
1,1,2-Trichloroethane	ND		ug/l	3.8	5
Tetrachloroethene	40		ug/l	2.5	5
Chlorobenzene	ND		ug/l	2.5	5
1,2-Dichloroethane	ND		ug/l	2.5	5
1,1,1-Trichloroethane	ND		ug/l	2.5	5
Bromodichloromethane	ND		ug/l	2.5	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	5
Bromoform	ND		ug/l	10	5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	5
Chloromethane	ND		ug/l	12	5
Vinyl chloride	12		ug/l	5.0	5
Chloroethane	ND		ug/l	5.0	5
1,1-Dichloroethene	ND		ug/l	2.5	5
trans-1,2-Dichloroethene	ND		ug/l	3.8	5
Trichloroethene	240		ug/l	2.5	5
1,2-Dichlorobenzene	ND		ug/l	12	5
1,3-Dichlorobenzene	ND		ug/l	12	5
1,4-Dichlorobenzene	ND		ug/l	12	5
cis-1,2-Dichloroethene	250		ug/l	2.5	5
Dichlorodifluoromethane	ND		ug/l	25	5
1,2-Dibromoethane	ND		ug/l	10	5
1,3-Dichloropropane	ND		ug/l	12	5
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	5

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-09
 Client ID: DUP-001-20060926-01
 Sample Location: WAYLAND

Date Collected: 09/26/06 00:00
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	12	5
p-Chlorotoluene	ND		ug/l	12	5
Hexachlorobutadiene	ND		ug/l	3.0	5
1,2,4-Trichlorobenzene	ND		ug/l	12	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	105		70-130

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-10
 Client ID: MW-265M-20060926-01
 Sample Location: WAYLAND
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/03/06 16:54
 Analyst: MM

Date Collected: 09/26/06 12:50
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	120	25
1,1-Dichloroethane	ND		ug/l	19	25
Chloroform	ND		ug/l	19	25
Carbon tetrachloride	ND		ug/l	12	25
1,2-Dichloropropane	ND		ug/l	44	25
Dibromochloromethane	ND		ug/l	12	25
1,1,2-Trichloroethane	ND		ug/l	19	25
Tetrachloroethene	33		ug/l	12	25
Chlorobenzene	ND		ug/l	12	25
1,2-Dichloroethane	ND		ug/l	12	25
1,1,1-Trichloroethane	ND		ug/l	12	25
Bromodichloromethane	ND		ug/l	12	25
trans-1,3-Dichloropropene	ND		ug/l	12	25
cis-1,3-Dichloropropene	ND		ug/l	12	25
Bromoform	ND		ug/l	50	25
1,1,2,2-Tetrachloroethane	ND		ug/l	12	25
Chloromethane	ND		ug/l	62	25
Vinyl chloride	230		ug/l	25	25
Chloroethane	ND		ug/l	25	25
1,1-Dichloroethene	ND		ug/l	12	25
trans-1,2-Dichloroethene	ND		ug/l	19	25
Trichloroethene	210		ug/l	12	25
1,2-Dichlorobenzene	ND		ug/l	62	25
1,3-Dichlorobenzene	ND		ug/l	62	25
1,4-Dichlorobenzene	ND		ug/l	62	25
cis-1,2-Dichloroethene	1000		ug/l	12	25
Dichlorodifluoromethane	ND		ug/l	120	25
1,2-Dibromoethane	ND		ug/l	50	25
1,3-Dichloropropane	ND		ug/l	62	25
1,1,1,2-Tetrachloroethane	ND		ug/l	12	25

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-10
 Client ID: MW-265M-20060926-01
 Sample Location: WAYLAND

Date Collected: 09/26/06 12:50
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	62	25
p-Chlorotoluene	ND		ug/l	62	25
Hexachlorobutadiene	ND		ug/l	15	25
1,2,4-Trichlorobenzene	ND		ug/l	62	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON

Lab Number: L0613818

Project Number: 42925

Report Date: 10/04/06

SAMPLE RESULTS

Lab ID: L0613818-11
 Client ID: MW-268M-20060926-01
 Sample Location: WAYLAND
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/03/06 17:28
 Analyst: MM

Date Collected: 09/26/06 12:45
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	500	100
1,1-Dichloroethane	ND		ug/l	75	100
Chloroform	ND		ug/l	75	100
Carbon tetrachloride	ND		ug/l	50	100
1,2-Dichloropropane	ND		ug/l	180	100
Dibromochloromethane	ND		ug/l	50	100
1,1,2-Trichloroethane	ND		ug/l	75	100
Tetrachloroethene	61		ug/l	50	100
Chlorobenzene	ND		ug/l	50	100
1,2-Dichloroethane	ND		ug/l	50	100
1,1,1-Trichloroethane	ND		ug/l	50	100
Bromodichloromethane	ND		ug/l	50	100
trans-1,3-Dichloropropene	ND		ug/l	50	100
cis-1,3-Dichloropropene	ND		ug/l	50	100
Bromoform	ND		ug/l	200	100
1,1,2,2-Tetrachloroethane	ND		ug/l	50	100
Chloromethane	ND		ug/l	250	100
Vinyl chloride	140		ug/l	100	100
Chloroethane	ND		ug/l	100	100
1,1-Dichloroethene	ND		ug/l	50	100
trans-1,2-Dichloroethene	ND		ug/l	75	100
Trichloroethene	2100		ug/l	50	100
1,2-Dichlorobenzene	ND		ug/l	250	100
1,3-Dichlorobenzene	ND		ug/l	250	100
1,4-Dichlorobenzene	ND		ug/l	250	100
cis-1,2-Dichloroethene	4600		ug/l	50	100
Dichlorodifluoromethane	ND		ug/l	500	100
1,2-Dibromoethane	ND		ug/l	200	100
1,3-Dichloropropane	ND		ug/l	250	100
1,1,1,2-Tetrachloroethane	ND		ug/l	50	100

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-11
 Client ID: MW-268M-20060926-01
 Sample Location: WAYLAND

Date Collected: 09/26/06 12:45
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	250	100
p-Chlorotoluene	ND		ug/l	250	100
Hexachlorobutadiene	ND		ug/l	60	100
1,2,4-Trichlorobenzene	ND		ug/l	250	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	106		70-130

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-12
 Client ID: MW-264M-20060926-01
 Sample Location: WAYLAND
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/03/06 18:02
 Analyst: MM

Date Collected: 09/26/06 15:25
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	25	5
1,1-Dichloroethane	ND		ug/l	3.8	5
Chloroform	ND		ug/l	3.8	5
Carbon tetrachloride	ND		ug/l	2.5	5
1,2-Dichloropropane	ND		ug/l	8.8	5
Dibromochloromethane	ND		ug/l	2.5	5
1,1,2-Trichloroethane	ND		ug/l	3.8	5
Tetrachloroethene	13		ug/l	2.5	5
Chlorobenzene	ND		ug/l	2.5	5
1,2-Dichloroethane	ND		ug/l	2.5	5
1,1,1-Trichloroethane	ND		ug/l	2.5	5
Bromodichloromethane	ND		ug/l	2.5	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	5
Bromoform	ND		ug/l	10	5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	5
Chloromethane	ND		ug/l	12	5
Vinyl chloride	20		ug/l	5.0	5
Chloroethane	ND		ug/l	5.0	5
1,1-Dichloroethene	ND		ug/l	2.5	5
trans-1,2-Dichloroethene	ND		ug/l	3.8	5
Trichloroethene	68		ug/l	2.5	5
1,2-Dichlorobenzene	ND		ug/l	12	5
1,3-Dichlorobenzene	ND		ug/l	12	5
1,4-Dichlorobenzene	ND		ug/l	12	5
cis-1,2-Dichloroethene	210		ug/l	2.5	5
Dichlorodifluoromethane	ND		ug/l	25	5
1,2-Dibromoethane	ND		ug/l	10	5
1,3-Dichloropropane	ND		ug/l	12	5
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	5

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-12
 Client ID: MW-264M-20060926-01
 Sample Location: WAYLAND

Date Collected: 09/26/06 15:25
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	12	5
p-Chlorotoluene	ND		ug/l	12	5
Hexachlorobutadiene	ND		ug/l	3.0	5
1,2,4-Trichlorobenzene	ND		ug/l	12	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	106		70-130

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-13
 Client ID: MW-551-20060926-01
 Sample Location: WAYLAND
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/03/06 18:36
 Analyst: MM

Date Collected: 09/26/06 15:20
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	40		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	0.60		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-13

Date Collected: 09/26/06 15:20

Client ID: MW-551-20060926-01

Date Received: 09/27/06

Sample Location: WAYLAND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	106		70-130

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-14
 Client ID: DUP-003-20060926-01
 Sample Location: WAYLAND
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/03/06 10:59
 Analyst: MM

Date Collected: 09/26/06 00:00
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	8.4		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	9.2		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-14
 Client ID: DUP-003-20060926-01
 Sample Location: WAYLAND

Date Collected: 09/26/06 00:00
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	106		70-130

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-15
 Client ID: MW-268D-20060926-01
 Sample Location: WAYLAND
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/03/06 11:32
 Analyst: MM

Date Collected: 09/26/06 11:30
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	8.7		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	9.3		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-15
 Client ID: MW-268D-20060926-01
 Sample Location: WAYLAND

Date Collected: 09/26/06 11:30
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	109		70-130

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-16

Date Collected: 09/26/06 12:00

Client ID: MW-555MB-20060926-01

Date Received: 09/27/06

Sample Location: WAYLAND

Field Prep: Not Specified

Matrix: Water

Analytical Method: 60,8260B

Analytical Date: 10/03/06 12:06

Analyst: MM

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-16

Date Collected: 09/26/06 12:00

Client ID: MW-555MB-20060926-01

Date Received: 09/27/06

Sample Location: WAYLAND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	106		70-130

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-17
 Client ID: MW-555D-20060926-01
 Sample Location: WAYLAND
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/03/06 12:39
 Analyst: MM

Date Collected: 09/26/06 11:10
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	0.94		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	3.1		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-17

Date Collected: 09/26/06 11:10

Client ID: MW-555D-20060926-01

Date Received: 09/27/06

Sample Location: WAYLAND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	112		70-130

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-18
 Client ID: MW-555S-20060926-01
 Sample Location: WAYLAND
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/03/06 13:12
 Analyst: MM

Date Collected: 09/26/06 11:55
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-18
 Client ID: MW-555S-20060926-01
 Sample Location: WAYLAND

Date Collected: 09/26/06 11:55
 Date Received: 09/27/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	110		70-130

Project Name: RAYTHEON

Lab Number: L0613818

Project Number: 42925

Report Date: 10/04/06

SAMPLE RESULTS

Lab ID: L0613818-19

Date Collected: 09/26/06 11:03

Client ID: MW-555MA-20060926-01

Date Received: 09/27/06

Sample Location: WAYLAND

Field Prep: Not Specified

Matrix: Water

Analytical Method: 60,8260B

Analytical Date: 10/03/06 13:46

Analyst: MM

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON**Lab Number:** L0613818**Project Number:** 42925**Report Date:** 10/04/06**SAMPLE RESULTS**

Lab ID: L0613818-19

Date Collected: 09/26/06 11:03

Client ID: MW-555MA-20060926-01

Date Received: 09/27/06

Sample Location: WAYLAND

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	110		70-130

Project Name: RAYTHEON

Lab Number: L0613818

Project Number: 42925

Report Date: 10/04/06

Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 10/03/06 11:21
 Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-04 Batch: WG255589-3				
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	0.60
1,2,4-Trichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON

Lab Number: L0613818

Project Number: 42925

Report Date: 10/04/06

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B

Analytical Date: 10/03/06 11:21

Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-04 Batch: WG255589-3				

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON

Lab Number: L0613818

Project Number: 42925

Report Date: 10/04/06

Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 10/03/06 16:47
 Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 05-08 Batch: WG255661-3				

Parameter	Result	Qualifier	Units	RDL
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	0.60
1,2,4-Trichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON

Lab Number: L0613818

Project Number: 42925

Report Date: 10/04/06

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B

Analytical Date: 10/03/06 16:47

Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 05-08 Batch: WG255661-3				

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	101		70-130

Project Name: RAYTHEON

Lab Number: L0613818

Project Number: 42925

Report Date: 10/04/06

Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 10/03/06 10:24
 Analyst: MM

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 14-19 Batch: WG255675-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50

Project Name: RAYTHEON

Lab Number: L0613818

Project Number: 42925

Report Date: 10/04/06

Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 10/03/06 10:24
 Analyst: MM

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 14-19 Batch: WG255675-3				

Parameter	Result	Qualifier	Units	RDL
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
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

Project Name: RAYTHEON

Lab Number: L0613818

Project Number: 42925

Report Date: 10/04/06

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
 Analytical Date: 10/03/06 10:24
 Analyst: MM

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 14-19 Batch: WG255675-3				
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	103		70-130

Project Name: RAYTHEON

Lab Number: L0613818

Project Number: 42925

Report Date: 10/04/06

Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 10/03/06 15:46
 Analyst: MM

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 09-13 Batch: WG255675-6				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50

Project Name: RAYTHEON

Lab Number: L0613818

Project Number: 42925

Report Date: 10/04/06

Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 10/03/06 15:46
 Analyst: MM

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 09-13 Batch: WG255675-6				
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
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

Project Name: RAYTHEON

Lab Number: L0613818

Project Number: 42925

Report Date: 10/04/06

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
 Analytical Date: 10/03/06 15:46
 Analyst: MM

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 09-13 Batch: WG255675-6				
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON

Project Number: 42925

Lab Number: L0613818

Report Date: 10/04/06

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-04 Batch: WG255589-1 WG255589-2					
Methylene chloride	103	103	70-130	0	25
1,1-Dichloroethane	108	107	70-130	1	25
Chloroform	104	106	70-130	2	25
Carbon tetrachloride	101	101	70-130	0	25
1,2-Dichloropropane	99	104	70-130	5	25
Dibromochloromethane	94	94	70-130	0	25
1,1,2-Trichloroethane	104	101	70-130	3	25
Tetrachloroethene	104	104	70-130	0	25
Chlorobenzene	105	105	70-130	0	25
1,2-Dichloroethane	102	102	70-130	0	25
1,1,1-Trichloroethane	101	102	70-130	1	25
Bromodichloromethane	94	96	70-130	2	25
trans-1,3-Dichloropropene	104	102	70-130	2	25
cis-1,3-Dichloropropene	92	95	70-130	3	25
Bromoform	104	106	70-130	2	50
1,1,2,2-Tetrachloroethane	103	101	70-130	2	25
Chloromethane	105	112	70-130	6	50
Vinyl chloride	109	110	70-130	1	25
Chloroethane	112	114	70-130	2	25
1,1-Dichloroethene	101	104	70-130	3	25
trans-1,2-Dichloroethene	98	102	70-130	4	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON

Lab Number: L0613818

Project Number: 42925

Report Date: 10/04/06

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-04 Batch: WG255589-1 WG255589-2					
Trichloroethene	94	101	70-130	7	25
1,2-Dichlorobenzene	98	97	70-130	1	25
1,3-Dichlorobenzene	100	99	70-130	1	25
1,4-Dichlorobenzene	101	102	70-130	1	25
cis-1,2-Dichloroethene	101	103	70-130	2	25
Dichlorodifluoromethane	119	115	70-130	3	50
1,2-Dibromoethane	100	100	70-130	0	25
1,3-Dichloropropane	104	104	70-130	0	25
1,1,1,2-Tetrachloroethane	105	104	70-130	1	25
o-Chlorotoluene	101	101	70-130	0	25
p-Chlorotoluene	101	100	70-130	1	25
Hexachlorobutadiene	101	91	70-130	10	25
1,2,4-Trichlorobenzene	84	86	70-130	2	25

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		108		70-130
Toluene-d8	106		104		70-130
4-Bromofluorobenzene	97		97		70-130
Dibromofluoromethane	107		108		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON

Project Number: 42925

Lab Number: L0613818

Report Date: 10/04/06

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 05-08 Batch: WG255661-1 WG255661-2					
Methylene chloride	108	96	70-130	12	25
1,1-Dichloroethane	105	92	70-130	13	25
Chloroform	109	95	70-130	14	25
Carbon tetrachloride	119	103	70-130	14	25
1,2-Dichloropropane	104	90	70-130	14	25
Dibromochloromethane	110	94	70-130	16	25
1,1,2-Trichloroethane	109	92	70-130	17	25
Tetrachloroethene	118	100	70-130	17	25
Chlorobenzene	114	99	70-130	14	25
1,2-Dichloroethane	115	96	70-130	18	25
1,1,1-Trichloroethane	111	98	70-130	12	25
Bromodichloromethane	109	95	70-130	14	25
trans-1,3-Dichloropropene	103	85	70-130	19	25
cis-1,3-Dichloropropene	99	86	70-130	14	25
Bromoform	112	97	70-130	14	50
1,1,1,2-Tetrachloroethane	104	88	70-130	17	25
Chloromethane	82	78	70-130	5	50
Vinyl chloride	101	89	70-130	13	25
Chloroethane	116	93	70-130	22	25
1,1-Dichloroethene	103	90	70-130	13	25
trans-1,2-Dichloroethene	105	93	70-130	12	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON
Project Number: 42925

Lab Number: L0613818
Report Date: 10/04/06

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 05-08 Batch: WG255661-1 WG255661-2					
Trichloroethene	110	95	70-130	15	25
1,2-Dichlorobenzene	114	101	70-130	12	25
1,3-Dichlorobenzene	116	102	70-130	13	25
1,4-Dichlorobenzene	115	100	70-130	14	25
cis-1,2-Dichloroethene	111	95	70-130	16	25
Dichlorodifluoromethane	74	66	70-130	11	50
1,2-Dibromoethane	114	95	70-130	18	25
1,3-Dichloropropane	110	93	70-130	17	25
1,1,1,2-Tetrachloroethane	117	103	70-130	13	25
o-Chlorotoluene	102	91	70-130	11	25
p-Chlorotoluene	108	97	70-130	11	25
Hexachlorobutadiene	109	96	70-130	13	25
1,2,4-Trichlorobenzene	111	96	70-130	14	25

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		100		70-130
Toluene-d8	97		98		70-130
4-Bromofluorobenzene	93		95		70-130
Dibromofluoromethane	103		103		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON

Project Number: 42925

Lab Number: L0613818

Report Date: 10/04/06

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 14-19 Batch: WG255675-1 WG255675-2					
Methylene chloride	99	90	70-130	10	25
1,1-Dichloroethane	100	87	70-130	14	25
Chloroform	98	89	70-130	10	25
Carbon tetrachloride	87	81	70-130	7	25
1,2-Dichloropropane	96	91	70-130	5	25
Dibromochloromethane	81	76	70-130	6	25
1,1,2-Trichloroethane	98	90	70-130	9	25
Tetrachloroethene	101	90	70-130	12	25
Chlorobenzene	98	90	70-130	9	25
Trichlorofluoromethane	108	95	70-130	13	25
1,2-Dichloroethane	101	94	70-130	7	25
1,1,1-Trichloroethane	93	84	70-130	10	25
Bromodichloromethane	87	80	70-130	8	25
trans-1,3-Dichloropropene	83	80	70-130	4	25
cis-1,3-Dichloropropene	90	82	70-130	9	25
1,1-Dichloropropene	100	91	70-130	9	25
Bromoform	79	76	70-130	4	50
1,1,2,2-Tetrachloroethane	94	91	70-130	3	25
Benzene	99	91	70-130	8	25
Toluene	101	90	70-130	12	25
Ethylbenzene	104	91	70-130	13	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON

Project Number: 42925

Lab Number: L0613818

Report Date: 10/04/06

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 14-19 Batch: WG255675-1 WG255675-2					
Chloromethane	74	70	70-130	6	50
Bromomethane	76	78	70-130	3	50
Vinyl chloride	83	74	70-130	11	25
Chloroethane	90	84	70-130	7	25
1,1-Dichloroethene	90	81	70-130	11	25
trans-1,2-Dichloroethene	95	86	70-130	10	25
Trichloroethene	94	84	70-130	11	25
1,2-Dichlorobenzene	92	87	70-130	6	25
1,3-Dichlorobenzene	95	89	70-130	7	25
1,4-Dichlorobenzene	94	89	70-130	5	25
Methyl tert butyl ether	94	89	70-130	5	25
p/m-Xylene	110	94	70-130	16	25
o-Xylene	106	93	70-130	13	25
cis-1,2-Dichloroethene	101	92	70-130	9	25
Dibromomethane	99	92	70-130	7	25
1,2,3-Trichloropropane	100	96	70-130	4	25
Styrene	98	87	70-130	12	25
Dichlorodifluoromethane	59	51	70-130	15	50
Acetone	110	96	70-130	14	50
Carbon disulfide	77	71	70-130	8	25
2-Butanone	107	104	70-130	3	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON

Project Number: 42925

Lab Number: L0613818

Report Date: 10/04/06

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 14-19 Batch: WG255675-1 WG255675-2					
4-Methyl-2-pentanone	108	103	70-130	5	50
2-Hexanone	101	100	70-130	1	50
Bromochloromethane	99	92	70-130	7	25
Tetrahydrofuran	88	90	70-130	2	25
2,2-Dichloropropane	91	87	70-130	4	50
1,2-Dibromoethane	93	89	70-130	4	25
1,3-Dichloropropane	99	92	70-130	7	25
1,1,1,2-Tetrachloroethane	89	82	70-130	8	25
Bromobenzene	93	89	70-130	4	25
n-Butylbenzene	99	89	70-130	11	25
sec-Butylbenzene	100	92	70-130	8	25
tert-Butylbenzene	99	90	70-130	10	25
o-Chlorotoluene	101	94	70-130	7	25
p-Chlorotoluene	100	93	70-130	7	25
1,2-Dibromo-3-chloropropane	68	74	70-130	8	50
Hexachlorobutadiene	92	82	70-130	11	25
Isopropylbenzene	112	100	70-130	11	25
p-Isopropyltoluene	97	88	70-130	10	25
Naphthalene	91	91	70-130	0	25
n-Propylbenzene	101	92	70-130	9	25
1,2,3-Trichlorobenzene	92	88	70-130	4	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON

Project Number: 42925

Lab Number: L0613818

Report Date: 10/04/06

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 14-19 Batch: WG255675-1 WG255675-2					
1,2,4-Trichlorobenzene	83	81	70-130	2	25
1,3,5-Trimethylbenzene	101	90	70-130	12	25
1,2,4-Trimethylbenzene	102	93	70-130	9	25
Ethyl ether	103	98	70-130	5	25
Isopropyl Ether	104	95	70-130	9	25
Ethyl-Tert-Butyl-Ether	98	92	70-130	6	25
Tertiary-Amyl Methyl Ether	95	86	70-130	10	25
1,4-Dioxane	85	77	70-130	10	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103	103	70-130
Toluene-d8	101	100	70-130
4-Bromofluorobenzene	98	102	70-130
Dibromofluoromethane	101	98	70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON

Project Number: 42925

Lab Number: L0613818

Report Date: 10/04/06

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 09-13 Batch: WG255675-4 WG255675-5					
Methylene chloride	101	98	70-130	3	25
1,1-Dichloroethane	93	92	70-130	1	25
Chloroform	93	92	70-130	1	25
Carbon tetrachloride	78	79	70-130	1	25
1,2-Dichloropropane	94	95	70-130	1	25
Dibromochloromethane	71	71	70-130	0	25
1,1,2-Trichloroethane	94	93	70-130	1	25
Tetrachloroethene	100	95	70-130	5	25
Chlorobenzene	96	93	70-130	3	25
Trichlorofluoromethane	115	112	70-130	3	25
1,2-Dichloroethane	97	97	70-130	0	25
1,1,1-Trichloroethane	82	82	70-130	0	25
Bromodichloromethane	76	81	70-130	6	25
trans-1,3-Dichloropropene	77	76	70-130	1	25
cis-1,3-Dichloropropene	81	84	70-130	4	25
1,1-Dichloropropene	97	95	70-130	2	25
Bromoform	71	72	70-130	1	50
1,1,2,2-Tetrachloroethane	92	94	70-130	2	25
Benzene	98	96	70-130	2	25
Toluene	100	93	70-130	7	25
Ethylbenzene	102	96	70-130	6	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON

Project Number: 42925

Lab Number: L0613818

Report Date: 10/04/06

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 09-13 Batch: WG255675-4 WG255675-5					
Chloromethane	97	96	70-130	1	50
Bromomethane	80	86	70-130	7	50
Vinyl chloride	100	99	70-130	1	25
Chloroethane	102	99	70-130	3	25
1,1-Dichloroethene	93	90	70-130	3	25
trans-1,2-Dichloroethene	96	92	70-130	4	25
Trichloroethene	88	88	70-130	0	25
1,2-Dichlorobenzene	90	91	70-130	1	25
1,3-Dichlorobenzene	94	93	70-130	1	25
1,4-Dichlorobenzene	94	94	70-130	0	25
Methyl tert butyl ether	85	88	70-130	3	25
p/m-Xylene	107	103	70-130	4	25
o-Xylene	102	97	70-130	5	25
cis-1,2-Dichloroethene	97	99	70-130	2	25
Dibromomethane	95	98	70-130	3	25
1,2,3-Trichloropropane	98	100	70-130	2	25
Styrene	93	89	70-130	4	25
Dichlorodifluoromethane	121	118	70-130	3	50
Acetone	98	110	70-130	12	50
Carbon disulfide	72	70	70-130	3	25
2-Butanone	97	100	70-130	3	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON

Project Number: 42925

Lab Number: L0613818

Report Date: 10/04/06

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 09-13 Batch: WG255675-4 WG255675-5					
4-Methyl-2-pentanone	102	98	70-130	4	50
2-Hexanone	100	94	70-130	6	50
Bromochloromethane	98	95	70-130	3	25
Tetrahydrofuran	78	79	70-130	1	25
2,2-Dichloropropane	87	86	70-130	1	50
1,2-Dibromoethane	92	88	70-130	4	25
1,3-Dichloropropane	98	96	70-130	2	25
1,1,1,2-Tetrachloroethane	77	78	70-130	1	25
Bromobenzene	92	92	70-130	0	25
n-Butylbenzene	98	94	70-130	4	25
sec-Butylbenzene	101	97	70-130	4	25
tert-Butylbenzene	97	94	70-130	3	25
o-Chlorotoluene	102	99	70-130	3	25
p-Chlorotoluene	99	97	70-130	2	25
1,2-Dibromo-3-chloropropane	62	64	70-130	3	50
Hexachlorobutadiene	90	87	70-130	3	25
Isopropylbenzene	108	103	70-130	5	25
p-Isopropyltoluene	96	92	70-130	4	25
Naphthalene	88	91	70-130	3	25
n-Propylbenzene	98	97	70-130	1	25
1,2,3-Trichlorobenzene	89	92	70-130	3	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON

Project Number: 42925

Lab Number: L0613818

Report Date: 10/04/06

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 09-13 Batch: WG255675-4 WG255675-5					
1,2,4-Trichlorobenzene	83	82	70-130	1	25
1,3,5-Trimethylbenzene	98	95	70-130	3	25
1,2,4-Trimethylbenzene	101	100	70-130	1	25
Ethyl ether	97	97	70-130	0	25
Isopropyl Ether	93	95	70-130	2	25
Ethyl-Tert-Butyl-Ether	90	92	70-130	2	25
Tertiary-Amyl Methyl Ether	87	88	70-130	1	25
1,4-Dioxane	69	73	70-130	6	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101	105	70-130
Toluene-d8	102	98	70-130
4-Bromofluorobenzene	101	102	70-130
Dibromofluoromethane	95	97	70-130

Matrix Spike Analysis Batch Quality Control

Project Name: RAYTHEON
Project Number: 42925

Lab Number: L0613818
Report Date: 10/04/06

Parameter	Native Sample	MS Added	MS Found	MS		MSD		Recovery Limits	RPD	RPD Limits
				%Recovery	MSD Found	%Recovery				
Volatile Organics by MCP 8260B Associated sample(s): 01-04 QC Batch ID: WG255589-4 WG255589-5 QC Sample: L0613818-03 Client ID: MW-552-20060926-01										
Methylene chloride	ND	2000	2200	108	2100	105	70-130	3	30	
1,1-Dichloroethane	ND	2000	2200	113	2100	106	70-130	6	30	
Chloroform	ND	2000	2100	106	2000	101	70-130	5	30	
Carbon tetrachloride	ND	2000	2100	105	2000	98	70-130	7	30	
1,2-Dichloropropane	ND	2000	2000	102	2000	99	70-130	3	30	
Dibromochloromethane	ND	2000	2000	98	1800	91	70-130	7	30	
1,1,2-Trichloroethane	ND	2000	2100	107	2000	101	70-130	6	30	
Tetrachloroethene	190	2000	2400	111	2200	103	70-130	7	30	
Chlorobenzene	ND	2000	2100	107	2000	102	70-130	5	30	
1,2-Dichloroethane	ND	2000	2100	107	2100	104	70-130	3	30	
1,1,1-Trichloroethane	ND	2000	2100	104	2000	98	70-130	6	30	
Bromodichloromethane	ND	2000	1900	95	1900	95	70-130	0	30	
trans-1,3-Dichloropropene	ND	2000	2100	103	2000	99	70-130	4	30	
cis-1,3-Dichloropropene	ND	2000	1900	96	1800	92	70-130	4	30	
Bromoform	ND	2000	2100	104	2000	98	70-130	6	30	
1,1,2,2-Tetrachloroethane	ND	2000	2000	100	2000	100	70-130	0	30	
Chloromethane	ND	2000	2300	113	2100	107	70-130	5	30	
Vinyl chloride	ND	2000	2300	115	2200	108	70-130	6	30	
Chloroethane	ND	2000	2400	120	2200	111	70-130	8	30	
1,1-Dichloroethene	ND	2000	2000	103	2000	99	70-130	4	30	
trans-1,2-Dichloroethene	ND	2000	2100	104	2000	100	70-130	4	30	

Matrix Spike Analysis Batch Quality Control

Project Name: RAYTHEON
Project Number: 42925

Lab Number: L0613818
Report Date: 10/04/06

Parameter	Native Sample	MS Added	MS		MSD		Recovery Limits	RPD	RPD Limits
			MS Found	%Recovery	MSD Found	%Recovery			
Volatile Organics by MCP 8260B Associated sample(s): 01-04 QC Batch ID: WG255589-4 WG255589-5 QC Sample: L0613818-03 Client ID: MW-552-20060926-01									
Trichloroethene	4400	2000	5900	76	5600	61	70-130	22	30
1,2-Dichlorobenzene	ND	2000	2000	100	2000	100	70-130	0	30
1,3-Dichlorobenzene	ND	2000	2000	102	2000	100	70-130	2	30
1,4-Dichlorobenzene	ND	2000	2100	104	2000	100	70-130	4	30
cis-1,2-Dichloroethene	280	2000	2500	110	2400	106	70-130	4	30
Dichlorodifluoromethane	ND	2000	2400	121	2100	107	70-130	12	30
1,2-Dibromoethane	ND	2000	2000	102	2000	99	70-130	3	30
1,3-Dichloropropane	ND	2000	2100	105	2000	98	70-130	7	30
1,1,1,2-Tetrachloroethane	ND	2000	2200	108	2000	100	70-130	8	30
o-Chlorotoluene	ND	2000	2100	105	2000	102	70-130	3	30
p-Chlorotoluene	ND	2000	2100	104	2000	103	70-130	1	30
Hexachlorobutadiene	ND	2000	2000	98	1900	95	70-130	3	30
1,2,4-Trichlorobenzene	ND	2000	1600	81	1700	85	70-130	5	30

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1,2-Dichloroethane-d4	109		105		70-130
4-Bromofluorobenzene	98		99		70-130
Dibromofluoromethane	110		108		70-130
Toluene-d8	105		101		70-130

Project Name: RAYTHEON

Lab Number: L0613818

Project Number: 42925

Report Date: 10/04/06

Sample Receipt and Container Information

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
L0613818-01A	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-02A	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-02B	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-03A	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-03B	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-03C	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-03D	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-03E	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-03F	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-04A	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-04B	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-05A	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-05B	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-06A	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-06B	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-07A	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-07B	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-08A	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-08B	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-09A	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-09B	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-10A	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-10B	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-11A	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-11B	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-12A	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-12B	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-13A	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-13B	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-14A	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04

Project Name: RAYTHEON**Project Number:** 42925**Lab Number:** L0613818**Report Date:** 10/04/06**Container Information**

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0613818-14B	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-15A	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-15B	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-16A	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-16B	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-17A	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-17B	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-18A	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-18B	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-19A	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04
L0613818-19B	Vial HCl preserved	A	NA	3.2 C	Y	Absent	MCP-8260-04

Project Name: RAYTHEON
Project Number: 42925

Lab Number: L0613818
Report Date: 10/04/06

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD- Laboratory Control Sample Duplicate: Refer to LCS.
MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD - Matrix Spike Sample Duplicate: Refer to MS.
NA - Not Applicable.
NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND - Not detected at the reported detection limit for the sample.
RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

- A - Spectra identified as "Aldol Condensation Product".
B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Report Format: Not Specified



Project Name: RAYTHEON
Project Number: 42925

Lab Number: L0613818
Report Date: 10/04/06

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.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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



CHAIN OF CUSTODY

PAGE 1 OF 3

ALPHA
WESTBRO, MA

RAYNHAM, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: ERM-Boston

Address: 399 Boston St 6th Floor

Boston, MA 02116

Phone: (617) 646-7800

Fax: (617) 267-6447

Email: jeremy.picaud@erm.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: RAYTHEON

Project Location: WAYLAND

Project #: 42925

Project Manager: JEREMY PICAUD

ALPHA Quote #:

TurnAround Time

Standard

RUSH (only confirmed if pre-approved)

Date Due: 10/1/00 Time:

Date Rec'd in Lab: 9/27/00

ALPHA Job #: 0013818

Report Information - Data Deliverables

FAX EMAIL

ADEK Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program Criteria

MCD/GW-1 METHOD 1 GW I

MANC/PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

Yes No Are MCP Analytical Methods Required?

Yes No Are CT RCP (Reasonable Confidence Protocols) Required?

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials
3818, 1	TB-002-20060926-01	9/25/06	11:15	GW	ZP
2	MW-533-20060926-01	9/26/06	16:15	GW	SDF
3	MW-552-20060926-01	9/26/06	13:28	GW	SDF
3	MW-552-20060926-01-MS	9/26/06	13:28	GW	SDF
3	MW-552-20060926-01-MS	9/26/06	13:23	GW	SDF
3	MW-552-20060926-01-MS	9/26/06	13:23	GW	SDF
4	DUP-004-20060926-01	9/26/06	24:00	GW	SDF
5	MW-2675-20060926-01	9/26/06	10:34	GW	SDF
6	MW-267M-20060926-01	9/26/06	11:50	GW	SDF
7	MW-266M _a -20060926-01	9/26/06	11:00	GW	SDF
8	MW-266M _b -20060926-01	9/26/06	10:15	GW	SDF

ANALYSIS
8071c by 8260
309

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

Sample Specific Comments

PLEASE ANSWER QUESTIONS ABOVE!

Container Type	Preservative
V	B

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By: [Signature] Date/Time: 9/27 11:5

Received By: [Signature] Date/Time: 9/27 11:5

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

ALPHA
ANALYTICAL LABORATORY

CHAIN OF CUSTODY

PAGE 2 OF 3

RAVNHAM MA
 WESTBORO, MA
 TEL: 508-898-9220
 FAX: 508-898-9193

TEL: 508-822-9300
 FAX: 508-822-3288

Client Information

Client: **ERM-Boston**

Address: **399 Boston St 6TH Floor
 Boston, MA 02116**

Phone: **(617) 646-7800**

Fax: **(617) 267-6447**

Email: **jeanm.picard@erm.com**

These samples have been previously analyzed by Alpha
 Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: **RAYTHEON**

Project Location: **Weymouth**

Project #: **42925**

Project Manager: **SEYMOUR PARD**

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: **10/10/06** Time:

Date Rec'd in Lab: **9/27**

ALPHA Job #: **107013818**

Report Information - Data Deliverables

FAX EMAIL

ADEx Add'l Deliverables

Regulatory/Requirements/Report Limits

State/Fed Program

Criteria

MCP **Memo 1 GVZ**

MAMC/PRESUMPTIVE CERTAINTY - CT REASONABLE CONFIDENCE PROTOCOLS

Yes No Are MCP Analytical Methods Required?
 Yes No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS
 8021c by 9260

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

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials	Container Type	Preservative	Relinquished By:	Date/Time	Received By:	Date/Time
3818	9	DUP-001-20060926-01	9/26/06	24:00	GW	HEA	2				
	10	MW-265M-20060926-01	9/26/06	12:50	GW	BGM	2				
	11	MW-263M-20060926-01	9/26/06	12:45	GN	HEA	2				
	12	MW-264M-20060926-01	9/26/06	13:25	GW	HEA	2				
	13	MW-551-20060926-01	9/26/06	15:20	GW	BM	2				
	14	DUP-003-20060926-01	9/26/06	24:00	GN	HEA	2				
	15	MW-268D-20060926-01	9/26/06	11:30	GW	HEA	2				
	16	MW-555M6-20060926-01	9/26/06	12:00	GW	TD	2				
	17	MW-555D-20060926-01	9/26/06	11:10	GW	TD	2				
	18	MW-555S-20060926-01	9/26/06	11:55	GW	ESM	2				

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
 MA MCP or CT RCP?

FORM NO. 01-01 (rev. 10-OCT-05)

Relinquished By: *[Signature]* Date/Time: **9/27 11:15**

Received By: *[Signature]* Date/Time: **9/27 10:15**

Container Type: **V**

Preservative: **B**

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.

ALPHA
W 0329 MO 1 1 A 03

WESTBORO, MA
 TEL: 508-898-9220
 FAX: 508-898-9193

RAYNHAM, MA
 TEL: 508-822-9300
 FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 3 OF 3

Project Information

Project Name: RAYNHAM
 Project Location: WAYLAND

Client: ERM-BOSTON

Address: 399 BOSTON ST, 6TH FLOOR
BOSTON, MA 02116

Project #: 42925
 Project Manager: SERENY PIARD
 ALPHA Quote #:

Turn-Around Time

Phone: (617) 646-7900
 Fax: (617) 267-6447

Email: jeany.piard@erm.com

These samples have been previously analyzed by Alpha
 Other Project Specific Requirements/Comments/Detection Limits:

Standard RUSH (only confirmed if re-assessed)
 Date Due: 10/1/02 Time:

Date Rec'd in Lab: 9/27/02
 Report Information - Data Deliverables

ALPHA Job #: 10213818
 Billing Information

FAX EMAIL
 ADEX Add'l Deliverables
 Regulatory Requirements/Report Limits

State / Fed Program Criteria

MCP Mass 1 / GW I
MAMCPPRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

Yes No Are MGP Analytical Methods Required?
 Yes No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS
8021c by 8260

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

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials
<u>3818, 19</u>	<u>MW-555Ma-20060026-01</u>	<u>9/26/02</u>	<u>11:03</u>	<u>GW</u>	<u>ESM 2</u>

PLEASE ANSWER QUESTIONS ABOVE:

IS YOUR PROJECT
 MAMCP or CT RCP?

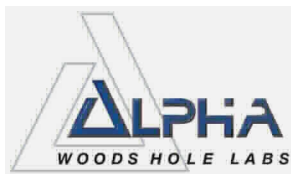
Container Type V
 Preservative B

Relinquished By: [Signature]

Received By: [Signature]

Date/Time: 9/27/02 11:15

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.



ANALYTICAL REPORT

Lab Number:	L0613895
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jeremy Picard
Project Name:	RAYTHEON
Project Number:	42925
Report Date:	10/05/06

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: RAYTHEON
Project Number: 42925

Lab Number: L0613895
Report Date: 10/05/06

Alpha Sample ID	Client ID	Sample Location
L0613895-01	DEP-19M-20060927-01	WAYLAND
L0613895-02	MW-261S-20060927-01	WAYLAND
L0613895-03	MW-262S-20060927-01	WAYLAND

Project Name: RAYTHEON
Project Number: 42925

Lab Number: L0613895
Report Date: 10/05/06

MADEP MCP Response Action Analytical Report Certification

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
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Project Name: RAYTHEON
Project Number: 42925

Lab Number: L0613895
Report Date: 10/05/06

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

Volatile Organics

The following samples have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples:

L0613895-02 (100x)

L0613895-03 (2x)

In reference to question E:

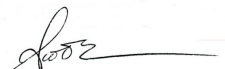
The WG255675-4,5 LCS,LCSD have low recoveries for 1,4-dioxane (in the LCS) and 1,2-dibromo-3-chloropropane, both difficult analytes.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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

Authorized Signature:



Title: Technical Director

Date: 10/05/06

ORGANICS

VOLATILES

Project Name: RAYTHEON**Lab Number:** L0613895**Project Number:** 42925**Report Date:** 10/05/06**SAMPLE RESULTS**

Lab ID: L0613895-01
 Client ID: DEP-19M-20060927-01
 Sample Location: WAYLAND
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/04/06 11:51
 Analyst: MM

Date Collected: 09/27/06 08:40
 Date Received: 09/28/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	1.9		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	14		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON**Lab Number:** L0613895**Project Number:** 42925**Report Date:** 10/05/06**SAMPLE RESULTS**

Lab ID: L0613895-01
 Client ID: DEP-19M-20060927-01
 Sample Location: WAYLAND

Date Collected: 09/27/06 08:40
 Date Received: 09/28/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	107		70-130

Project Name: RAYTHEON**Lab Number:** L0613895**Project Number:** 42925**Report Date:** 10/05/06**SAMPLE RESULTS**

Lab ID: L0613895-02
Client ID: MW-261S-20060927-01
Sample Location: WAYLAND
Matrix: Water
Anaytical Method: 60,8260B
Analytical Date: 10/03/06 23:36
Analyst: MM

Date Collected: 09/27/06 09:30
Date Received: 09/28/06
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	500	100
1,1-Dichloroethane	ND		ug/l	75	100
Chloroform	ND		ug/l	75	100
Carbon tetrachloride	ND		ug/l	50	100
1,2-Dichloropropane	ND		ug/l	180	100
Dibromochloromethane	ND		ug/l	50	100
1,1,2-Trichloroethane	ND		ug/l	75	100
Tetrachloroethene	68		ug/l	50	100
Chlorobenzene	ND		ug/l	50	100
1,2-Dichloroethane	ND		ug/l	50	100
1,1,1-Trichloroethane	ND		ug/l	50	100
Bromodichloromethane	ND		ug/l	50	100
trans-1,3-Dichloropropene	ND		ug/l	50	100
cis-1,3-Dichloropropene	ND		ug/l	50	100
Bromoform	ND		ug/l	200	100
1,1,2,2-Tetrachloroethane	ND		ug/l	50	100
Chloromethane	ND		ug/l	250	100
Vinyl chloride	ND		ug/l	100	100
Chloroethane	ND		ug/l	100	100
1,1-Dichloroethene	ND		ug/l	50	100
trans-1,2-Dichloroethene	ND		ug/l	75	100
Trichloroethene	3600		ug/l	50	100
1,2-Dichlorobenzene	ND		ug/l	250	100
1,3-Dichlorobenzene	ND		ug/l	250	100
1,4-Dichlorobenzene	ND		ug/l	250	100
cis-1,2-Dichloroethene	120		ug/l	50	100
Dichlorodifluoromethane	ND		ug/l	500	100
1,2-Dibromoethane	ND		ug/l	200	100
1,3-Dichloropropane	ND		ug/l	250	100
1,1,1,2-Tetrachloroethane	ND		ug/l	50	100

Project Name: RAYTHEON**Lab Number:** L0613895**Project Number:** 42925**Report Date:** 10/05/06**SAMPLE RESULTS**

Lab ID: L0613895-02
 Client ID: MW-261S-20060927-01
 Sample Location: WAYLAND

Date Collected: 09/27/06 09:30
 Date Received: 09/28/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	250	100
p-Chlorotoluene	ND		ug/l	250	100
Hexachlorobutadiene	ND		ug/l	60	100
1,2,4-Trichlorobenzene	ND		ug/l	250	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON**Lab Number:** L0613895**Project Number:** 42925**Report Date:** 10/05/06**SAMPLE RESULTS**

Lab ID: L0613895-03
 Client ID: MW-262S-20060927-01
 Sample Location: WAYLAND
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/04/06 00:09
 Analyst: MM

Date Collected: 09/27/06 09:55
 Date Received: 09/28/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	10	2
1,1-Dichloroethane	ND		ug/l	1.5	2
Chloroform	ND		ug/l	1.5	2
Carbon tetrachloride	ND		ug/l	1.0	2
1,2-Dichloropropane	ND		ug/l	3.5	2
Dibromochloromethane	ND		ug/l	1.0	2
1,1,2-Trichloroethane	ND		ug/l	1.5	2
Tetrachloroethene	8.1		ug/l	1.0	2
Chlorobenzene	ND		ug/l	1.0	2
1,2-Dichloroethane	ND		ug/l	1.0	2
1,1,1-Trichloroethane	ND		ug/l	1.0	2
Bromodichloromethane	ND		ug/l	1.0	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	2
Bromoform	ND		ug/l	4.0	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	2
Chloromethane	ND		ug/l	5.0	2
Vinyl chloride	ND		ug/l	2.0	2
Chloroethane	ND		ug/l	2.0	2
1,1-Dichloroethene	ND		ug/l	1.0	2
trans-1,2-Dichloroethene	ND		ug/l	1.5	2
Trichloroethene	58		ug/l	1.0	2
1,2-Dichlorobenzene	ND		ug/l	5.0	2
1,3-Dichlorobenzene	ND		ug/l	5.0	2
1,4-Dichlorobenzene	ND		ug/l	5.0	2
cis-1,2-Dichloroethene	ND		ug/l	1.0	2
Dichlorodifluoromethane	ND		ug/l	10	2
1,2-Dibromoethane	ND		ug/l	4.0	2
1,3-Dichloropropane	ND		ug/l	5.0	2
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	2

Project Name: RAYTHEON**Lab Number:** L0613895**Project Number:** 42925**Report Date:** 10/05/06**SAMPLE RESULTS**

Lab ID: L0613895-03
 Client ID: MW-262S-20060927-01
 Sample Location: WAYLAND

Date Collected: 09/27/06 09:55
 Date Received: 09/28/06
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	5.0	2
p-Chlorotoluene	ND		ug/l	5.0	2
Hexachlorobutadiene	ND		ug/l	1.2	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	107		70-130

Project Name: RAYTHEON

Lab Number: L0613895

Project Number: 42925

Report Date: 10/05/06

Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 10/03/06 15:46
 Analyst: MM

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 02-03 Batch: WG255675-6				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON

Lab Number: L0613895

Project Number: 42925

Report Date: 10/05/06

Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 10/03/06 15:46
 Analyst: MM

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 02-03 Batch: WG255675-6				

Parameter	Result	Qualifier	Units	RDL
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
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	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
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



Project Name: RAYTHEON

Lab Number: L0613895

Project Number: 42925

Report Date: 10/05/06

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
 Analytical Date: 10/03/06 15:46
 Analyst: MM

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 02-03 Batch: WG255675-6				

Parameter	Result	Qualifier	Units	RDL
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	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	105		70-130

Project Name: RAYTHEON

Lab Number: L0613895

Project Number: 42925

Report Date: 10/05/06

Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 10/04/06 10:09
 Analyst: MM

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG255841-3				
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

Project Name: RAYTHEON

Lab Number: L0613895

Project Number: 42925

Report Date: 10/05/06

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
 Analytical Date: 10/04/06 10:09
 Analyst: MM

Parameter	Result	Qualifier	Units	RDL
-----------	--------	-----------	-------	-----

Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG255841-3

p-Chlorotoluene	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
1,2,4-Trichlorobenzene	ND		ug/l	2.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	105		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON

Project Number: 42925

Lab Number: L0613895

Report Date: 10/05/06

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02-03 Batch: WG255675-4 WG255675-5					
Methylene chloride	101	98	70-130	3	25
1,1-Dichloroethane	93	92	70-130	1	25
Chloroform	93	92	70-130	1	25
Carbon tetrachloride	78	79	70-130	1	25
1,2-Dichloropropane	94	95	70-130	1	25
Dibromochloromethane	71	71	70-130	0	25
1,1,2-Trichloroethane	94	93	70-130	1	25
Tetrachloroethene	100	95	70-130	5	25
Chlorobenzene	96	93	70-130	3	25
Trichlorofluoromethane	115	112	70-130	3	25
1,2-Dichloroethane	97	97	70-130	0	25
1,1,1-Trichloroethane	82	82	70-130	0	25
Bromodichloromethane	76	81	70-130	6	25
trans-1,3-Dichloropropene	77	76	70-130	1	25
cis-1,3-Dichloropropene	81	84	70-130	4	25
1,1-Dichloropropene	97	95	70-130	2	25
Bromoform	71	72	70-130	1	50
1,1,2,2-Tetrachloroethane	92	94	70-130	2	25
Benzene	98	96	70-130	2	25
Toluene	100	93	70-130	7	25
Ethylbenzene	102	96	70-130	6	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON

Project Number: 42925

Lab Number: L0613895

Report Date: 10/05/06

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02-03 Batch: WG255675-4 WG255675-5					
Chloromethane	97	96	70-130	1	50
Bromomethane	80	86	70-130	7	50
Vinyl chloride	100	99	70-130	1	25
Chloroethane	102	99	70-130	3	25
1,1-Dichloroethene	93	90	70-130	3	25
trans-1,2-Dichloroethene	96	92	70-130	4	25
Trichloroethene	88	88	70-130	0	25
1,2-Dichlorobenzene	90	91	70-130	1	25
1,3-Dichlorobenzene	94	93	70-130	1	25
1,4-Dichlorobenzene	94	94	70-130	0	25
Methyl tert butyl ether	85	88	70-130	3	25
p/m-Xylene	107	103	70-130	4	25
o-Xylene	102	97	70-130	5	25
cis-1,2-Dichloroethene	97	99	70-130	2	25
Dibromomethane	95	98	70-130	3	25
1,2,3-Trichloropropane	98	100	70-130	2	25
Styrene	93	89	70-130	4	25
Dichlorodifluoromethane	121	118	70-130	3	50
Acetone	98	110	70-130	12	50
Carbon disulfide	72	70	70-130	3	25
2-Butanone	97	100	70-130	3	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON

Project Number: 42925

Lab Number: L0613895

Report Date: 10/05/06

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02-03 Batch: WG255675-4 WG255675-5					
4-Methyl-2-pentanone	102	98	70-130	4	50
2-Hexanone	100	94	70-130	6	50
Bromochloromethane	98	95	70-130	3	25
Tetrahydrofuran	78	79	70-130	1	25
2,2-Dichloropropane	87	86	70-130	1	50
1,2-Dibromoethane	92	88	70-130	4	25
1,3-Dichloropropane	98	96	70-130	2	25
1,1,1,2-Tetrachloroethane	77	78	70-130	1	25
Bromobenzene	92	92	70-130	0	25
n-Butylbenzene	98	94	70-130	4	25
sec-Butylbenzene	101	97	70-130	4	25
tert-Butylbenzene	97	94	70-130	3	25
o-Chlorotoluene	102	99	70-130	3	25
p-Chlorotoluene	99	97	70-130	2	25
1,2-Dibromo-3-chloropropane	62	64	70-130	3	50
Hexachlorobutadiene	90	87	70-130	3	25
Isopropylbenzene	108	103	70-130	5	25
p-Isopropyltoluene	96	92	70-130	4	25
Naphthalene	88	91	70-130	3	25
n-Propylbenzene	98	97	70-130	1	25
1,2,3-Trichlorobenzene	89	92	70-130	3	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON
Project Number: 42925

Lab Number: L0613895
Report Date: 10/05/06

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02-03 Batch: WG255675-4 WG255675-5					
1,2,4-Trichlorobenzene	83	82	70-130	1	25
1,3,5-Trimethylbenzene	98	95	70-130	3	25
1,2,4-Trimethylbenzene	101	100	70-130	1	25
Ethyl ether	97	97	70-130	0	25
Isopropyl Ether	93	95	70-130	2	25
Ethyl-Tert-Butyl-Ether	90	92	70-130	2	25
Tertiary-Amyl Methyl Ether	87	88	70-130	1	25
1,4-Dioxane	69	73	70-130	6	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101	105	70-130
Toluene-d8	102	98	70-130
4-Bromofluorobenzene	101	102	70-130
Dibromofluoromethane	95	97	70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON

Project Number: 42925

Lab Number: L0613895

Report Date: 10/05/06

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG255841-1 WG255841-2					
Methylene chloride	105	98	70-130	7	25
1,1-Dichloroethane	100	95	70-130	5	25
Chloroform	101	97	70-130	4	25
Carbon tetrachloride	86	82	70-130	5	25
1,2-Dichloropropane	101	95	70-130	6	25
Dibromochloromethane	77	75	70-130	3	25
1,1,2-Trichloroethane	97	95	70-130	2	25
Tetrachloroethene	108	96	70-130	12	25
Chlorobenzene	102	94	70-130	8	25
1,2-Dichloroethane	101	98	70-130	3	25
1,1,1-Trichloroethane	90	86	70-130	5	25
Bromodichloromethane	85	82	70-130	4	25
trans-1,3-Dichloropropene	83	83	70-130	0	25
cis-1,3-Dichloropropene	86	85	70-130	1	25
Bromoform	71	71	70-130	0	50
1,1,1,2-Tetrachloroethane	93	91	70-130	2	25
Chloromethane	96	86	70-130	11	50
Vinyl chloride	101	95	70-130	6	25
Chloroethane	109	100	70-130	9	25
1,1-Dichloroethene	96	90	70-130	6	25
trans-1,2-Dichloroethene	101	94	70-130	7	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON
Project Number: 42925

Lab Number: L0613895
Report Date: 10/05/06

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG255841-1 WG255841-2					
Trichloroethene	97	91	70-130	6	25
1,2-Dichlorobenzene	96	91	70-130	5	25
1,3-Dichlorobenzene	98	92	70-130	6	25
1,4-Dichlorobenzene	98	92	70-130	6	25
cis-1,2-Dichloroethene	106	99	70-130	7	25
Dichlorodifluoromethane	122	109	70-130	11	50
1,2-Dibromoethane	96	94	70-130	2	25
1,3-Dichloropropane	102	97	70-130	5	25
1,1,1,2-Tetrachloroethane	83	82	70-130	1	25
o-Chlorotoluene	101	105	70-130	4	25
p-Chlorotoluene	102	96	70-130	6	25
Hexachlorobutadiene	94	84	70-130	11	25
1,2,4-Trichlorobenzene	84	82	70-130	2	25

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		99		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	99		101		70-130
Dibromofluoromethane	96		99		70-130

Project Name: RAYTHEON**Lab Number:** L0613895**Project Number:** 42925**Report Date:** 10/05/06**Sample Receipt and Container Information**

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
L0613895-01A	Vial HCl preserved	A	NA	0.8C	Y	Absent	MCP-8260-04
L0613895-01B	Vial HCl preserved	A	NA	0.8C	Y	Absent	MCP-8260-04
L0613895-02A	Vial HCl preserved	A	NA	0.8C	Y	Absent	MCP-8260-04
L0613895-02B	Vial HCl preserved	A	NA	0.8C	Y	Absent	MCP-8260-04
L0613895-03A	Vial HCl preserved	A	NA	0.8C	Y	Absent	MCP-8260-04
L0613895-03B	Vial HCl preserved	A	NA	0.8C	Y	Absent	MCP-8260-04

Project Name: RAYTHEON
Project Number: 42925

Lab Number: L0613895
Report Date: 10/05/06

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD- Laboratory Control Sample Duplicate: Refer to LCS.
MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD - Matrix Spike Sample Duplicate: Refer to MS.
NA - Not Applicable.
NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND - Not detected at the reported detection limit for the sample.
RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

- A - Spectra identified as "Aldol Condensation Product".
B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Report Format: Not Specified



Project Name: RAYTHEON
Project Number: 42925

Lab Number: L0613895
Report Date: 10/05/06

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.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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



ALPHA
ANALYTICAL SERVICES

RAYNHAM, MA
 WESTBORO, MA
 TEL: 508-822-9300
 FAX: 508-822-3288

CHAIN OF CUSTODY PAGE 1 OF 1

Project Information

Project Name: **RAYNHAM**
 Project Location: **WYLAND**
 Project #: **42925**
 Project Manager: **SEAMY P. CASH**
 ALPHA Quote #:

Client: **ERM - BOSTON**

Address: **374 BOSTON ST 6TH FLOOR**
BOSTON, MA 02116

Phone: **(617) 646-7800**
 Fax: **(617) 646-2644**

Email: **jeremy.picard@erm.com** Date Due: **10/5/06** Time:

These samples have been previously analyzed by Alpha
 Other Project Specific Requirements/Comments/Detection Limits:
Passive Site "0"

Date Rec'd in Lab: **9/28/06**

Report Information - Data Deliverables

FAX
 EMAIL
 REXD
 Acd'l Deliverables

Billing Information

ALPHA Job #: **L0613895**
 Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program: **MCP** Criteria: **Method 1 GW 1**
MAMCP PRESUMPTIVE CERTAINTY - CT REASONABLE CONFIDENCE PROTOCOLS

Yes No Are MCP Analytical Methods Required?
 Yes No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS
 0928 by 8260
 8021-1208

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials
--------------------------------	-----------	-----------------	------	---------------	--------------------

3095-01	DIP-14M-20060127-01	9/27/06	8:40	GW	TD
-02	MW-2615-20060127-01	9/27/06	9:30	GW	ESM
-03	MW-2625-20060127-01	9/27/06	9:55	GW	TD

PLEASE ANSWER QUESTIONS ABOVE!

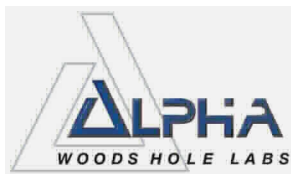
IS YOUR PROJECT
 MA MCP or CT RCP?

Relinquished By: *Paul Willard* Date/Time: *9/28/06 11:55*

Received By: *Paul Willard* Date/Time: *9/28/06 11:35*

Container Type: V B Preservative: B

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.



ANALYTICAL REPORT

Lab Number: L0705909

Client: ERM-New England
399 Boylston Street
6th Floor
Boston, MA 02116

ATTN: Jeremy Picard

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Report Date: 05/07/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0705909
Report Date: 05/07/07

Alpha Sample ID	Client ID	Sample Location
L0705909-01	MW-267S-20070424-01	WAYLAND, MA
L0705909-02	MW-267M-20070424-01	WAYLAND, MA
L0705909-03	MW-266MA-20070424-01	WAYLAND, MA
L0705909-04	MW-266MB-20070424-01	WAYLAND, MA
L0705909-05	MW-265M-20070424-01	WAYLAND, MA
L0705909-06	MW-268M-20070424-01	WAYLAND, MA

Project Name: RAYTHEON WAYLAND

Lab Number: L0705909

Project Number: 0061882

Report Date: 05/07/07

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. 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?	N/A
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?	YES
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0705909
Report Date: 05/07/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives:

Volatile Organics

L0705909-01 and -04 were re-analyzed due to an over dilution with original analysis. The results of the re-analysis are reported for these samples.

L0705090-01, -02, and -04 through -06 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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

Authorized Signature:



Title: Technical Director

Date: 05/07/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND**Lab Number:** L0705909**Project Number:** 0061882**Report Date:** 05/07/07**SAMPLE RESULTS**

Lab ID: L0705909-01 R
 Client ID: MW-267S-20070424-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/05/07 15:15
 Analyst: PD

Date Collected: 04/24/07 08:40
 Date Received: 04/25/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	25	5
1,1-Dichloroethane	ND		ug/l	3.8	5
Chloroform	ND		ug/l	3.8	5
Carbon tetrachloride	ND		ug/l	2.5	5
1,2-Dichloropropane	ND		ug/l	8.8	5
Dibromochloromethane	ND		ug/l	2.5	5
1,1,2-Trichloroethane	ND		ug/l	3.8	5
Tetrachloroethene	3.6		ug/l	2.5	5
Chlorobenzene	ND		ug/l	2.5	5
1,2-Dichloroethane	ND		ug/l	2.5	5
1,1,1-Trichloroethane	ND		ug/l	2.5	5
Bromodichloromethane	ND		ug/l	2.5	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	5
Bromoform	ND		ug/l	10	5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	5
Chloromethane	ND		ug/l	12	5
Vinyl chloride	ND		ug/l	5.0	5
Chloroethane	ND		ug/l	5.0	5
1,1-Dichloroethene	ND		ug/l	2.5	5
trans-1,2-Dichloroethene	ND		ug/l	3.8	5
Trichloroethene	190		ug/l	2.5	5
1,2-Dichlorobenzene	ND		ug/l	12	5
1,3-Dichlorobenzene	ND		ug/l	12	5
1,4-Dichlorobenzene	ND		ug/l	12	5
cis-1,2-Dichloroethene	48		ug/l	2.5	5
Dichlorodifluoromethane	ND		ug/l	25	5
1,2-Dibromoethane	ND		ug/l	10	5
1,3-Dichloropropane	ND		ug/l	12	5
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	5

Project Name: RAYTHEON WAYLAND**Lab Number:** L0705909**Project Number:** 0061882**Report Date:** 05/07/07**SAMPLE RESULTS**

Lab ID: L0705909-01 R

Date Collected: 04/24/07 08:40

Client ID: MW-267S-20070424-01

Date Received: 04/25/07

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	12	5
p-Chlorotoluene	ND		ug/l	12	5
Hexachlorobutadiene	ND		ug/l	3.0	5
1,2,4-Trichlorobenzene	ND		ug/l	12	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	113		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0705909**Project Number:** 0061882**Report Date:** 05/07/07**SAMPLE RESULTS**

Lab ID: L0705909-02
 Client ID: MW-267M-20070424-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/04/07 23:38
 Analyst: PD

Date Collected: 04/24/07 09:55
 Date Received: 04/25/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	100	20
1,1-Dichloroethane	ND		ug/l	15	20
Chloroform	ND		ug/l	15	20
Carbon tetrachloride	ND		ug/l	10	20
1,2-Dichloropropane	ND		ug/l	35	20
Dibromochloromethane	ND		ug/l	10	20
1,1,2-Trichloroethane	ND		ug/l	15	20
Tetrachloroethene	38		ug/l	10	20
Chlorobenzene	ND		ug/l	10	20
1,2-Dichloroethane	ND		ug/l	10	20
1,1,1-Trichloroethane	ND		ug/l	10	20
Bromodichloromethane	ND		ug/l	10	20
trans-1,3-Dichloropropene	ND		ug/l	10	20
cis-1,3-Dichloropropene	ND		ug/l	10	20
Bromoform	ND		ug/l	40	20
1,1,2,2-Tetrachloroethane	ND		ug/l	10	20
Chloromethane	ND		ug/l	50	20
Vinyl chloride	ND		ug/l	20	20
Chloroethane	ND		ug/l	20	20
1,1-Dichloroethene	ND		ug/l	10	20
trans-1,2-Dichloroethene	ND		ug/l	15	20
Trichloroethene	630		ug/l	10	20
1,2-Dichlorobenzene	ND		ug/l	50	20
1,3-Dichlorobenzene	ND		ug/l	50	20
1,4-Dichlorobenzene	ND		ug/l	50	20
cis-1,2-Dichloroethene	470		ug/l	10	20
Dichlorodifluoromethane	ND		ug/l	100	20
1,2-Dibromoethane	ND		ug/l	40	20
1,3-Dichloropropane	ND		ug/l	50	20
1,1,1,2-Tetrachloroethane	ND		ug/l	10	20

Project Name: RAYTHEON WAYLAND**Lab Number:** L0705909**Project Number:** 0061882**Report Date:** 05/07/07**SAMPLE RESULTS**

Lab ID: L0705909-02
 Client ID: MW-267M-20070424-01
 Sample Location: WAYLAND, MA

Date Collected: 04/24/07 09:55
 Date Received: 04/25/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	50	20
p-Chlorotoluene	ND		ug/l	50	20
Hexachlorobutadiene	ND		ug/l	12	20
1,2,4-Trichlorobenzene	ND		ug/l	50	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	101		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0705909**Project Number:** 0061882**Report Date:** 05/07/07**SAMPLE RESULTS**

Lab ID: L0705909-03

Date Collected: 04/24/07 12:15

Client ID: MW-266MA-20070424-01

Date Received: 04/25/07

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Matrix: Water

Analytical Method: 60,8260B

Analytical Date: 05/05/07 00:17

Analyst: PD

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	9.7		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	2.9		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L0705909**Project Number:** 0061882**Report Date:** 05/07/07**SAMPLE RESULTS**

Lab ID: L0705909-03

Date Collected: 04/24/07 12:15

Client ID: MW-266MA-20070424-01

Date Received: 04/25/07

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0705909**Project Number:** 0061882**Report Date:** 05/07/07**SAMPLE RESULTS**

Lab ID: L0705909-04 R

Date Collected: 04/24/07 13:25

Client ID: MW-266MB-20070424-01

Date Received: 04/25/07

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Matrix: Water

Analytical Method: 60,8260B

Analytical Date: 05/05/07 15:54

Analyst: PD

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	25	5
1,1-Dichloroethane	ND		ug/l	3.8	5
Chloroform	ND		ug/l	3.8	5
Carbon tetrachloride	ND		ug/l	2.5	5
1,2-Dichloropropane	ND		ug/l	8.8	5
Dibromochloromethane	ND		ug/l	2.5	5
1,1,2-Trichloroethane	ND		ug/l	3.8	5
Tetrachloroethene	36		ug/l	2.5	5
Chlorobenzene	ND		ug/l	2.5	5
1,2-Dichloroethane	ND		ug/l	2.5	5
1,1,1-Trichloroethane	ND		ug/l	2.5	5
Bromodichloromethane	ND		ug/l	2.5	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	5
Bromoform	ND		ug/l	10	5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	5
Chloromethane	ND		ug/l	12	5
Vinyl chloride	8.8		ug/l	5.0	5
Chloroethane	ND		ug/l	5.0	5
1,1-Dichloroethene	ND		ug/l	2.5	5
trans-1,2-Dichloroethene	ND		ug/l	3.8	5
Trichloroethene	170		ug/l	2.5	5
1,2-Dichlorobenzene	ND		ug/l	12	5
1,3-Dichlorobenzene	ND		ug/l	12	5
1,4-Dichlorobenzene	ND		ug/l	12	5
cis-1,2-Dichloroethene	200		ug/l	2.5	5
Dichlorodifluoromethane	ND		ug/l	25	5
1,2-Dibromoethane	ND		ug/l	10	5
1,3-Dichloropropane	ND		ug/l	12	5
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	5

Project Name: RAYTHEON WAYLAND**Lab Number:** L0705909**Project Number:** 0061882**Report Date:** 05/07/07**SAMPLE RESULTS**

Lab ID: L0705909-04 R

Date Collected: 04/24/07 13:25

Client ID: MW-266MB-20070424-01

Date Received: 04/25/07

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	12	5
p-Chlorotoluene	ND		ug/l	12	5
Hexachlorobutadiene	ND		ug/l	3.0	5
1,2,4-Trichlorobenzene	ND		ug/l	12	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	113		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0705909**Project Number:** 0061882**Report Date:** 05/07/07**SAMPLE RESULTS**

Lab ID: L0705909-05
Client ID: MW-265M-20070424-01
Sample Location: WAYLAND, MA
Matrix: Water
Anaytical Method: 60,8260B
Analytical Date: 05/05/07 01:34
Analyst: PD

Date Collected: 04/24/07 15:30
Date Received: 04/25/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	120	25
1,1-Dichloroethane	ND		ug/l	19	25
Chloroform	ND		ug/l	19	25
Carbon tetrachloride	ND		ug/l	12	25
1,2-Dichloropropane	ND		ug/l	44	25
Dibromochloromethane	ND		ug/l	12	25
1,1,2-Trichloroethane	ND		ug/l	19	25
Tetrachloroethene	39		ug/l	12	25
Chlorobenzene	ND		ug/l	12	25
1,2-Dichloroethane	ND		ug/l	12	25
1,1,1-Trichloroethane	ND		ug/l	12	25
Bromodichloromethane	ND		ug/l	12	25
trans-1,3-Dichloropropene	ND		ug/l	12	25
cis-1,3-Dichloropropene	ND		ug/l	12	25
Bromoform	ND		ug/l	50	25
1,1,2,2-Tetrachloroethane	ND		ug/l	12	25
Chloromethane	ND		ug/l	62	25
Vinyl chloride	63		ug/l	25	25
Chloroethane	ND		ug/l	25	25
1,1-Dichloroethene	ND		ug/l	12	25
trans-1,2-Dichloroethene	ND		ug/l	19	25
Trichloroethene	480		ug/l	12	25
1,2-Dichlorobenzene	ND		ug/l	62	25
1,3-Dichlorobenzene	ND		ug/l	62	25
1,4-Dichlorobenzene	ND		ug/l	62	25
cis-1,2-Dichloroethene	630		ug/l	12	25
Dichlorodifluoromethane	ND		ug/l	120	25
1,2-Dibromoethane	ND		ug/l	50	25
1,3-Dichloropropane	ND		ug/l	62	25
1,1,1,2-Tetrachloroethane	ND		ug/l	12	25

Project Name: RAYTHEON WAYLAND**Lab Number:** L0705909**Project Number:** 0061882**Report Date:** 05/07/07**SAMPLE RESULTS**

Lab ID: L0705909-05
 Client ID: MW-265M-20070424-01
 Sample Location: WAYLAND, MA

Date Collected: 04/24/07 15:30
 Date Received: 04/25/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	62	25
p-Chlorotoluene	ND		ug/l	62	25
Hexachlorobutadiene	ND		ug/l	15	25
1,2,4-Trichlorobenzene	ND		ug/l	62	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	115		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0705909**Project Number:** 0061882**Report Date:** 05/07/07**SAMPLE RESULTS**

Lab ID: L0705909-06
 Client ID: MW-268M-20070424-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/05/07 02:13
 Analyst: PD

Date Collected: 04/24/07 16:30
 Date Received: 04/25/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	500	100
1,1-Dichloroethane	ND		ug/l	75	100
Chloroform	ND		ug/l	75	100
Carbon tetrachloride	ND		ug/l	50	100
1,2-Dichloropropane	ND		ug/l	180	100
Dibromochloromethane	ND		ug/l	50	100
1,1,2-Trichloroethane	ND		ug/l	75	100
Tetrachloroethene	59		ug/l	50	100
Chlorobenzene	ND		ug/l	50	100
1,2-Dichloroethane	ND		ug/l	50	100
1,1,1-Trichloroethane	ND		ug/l	50	100
Bromodichloromethane	ND		ug/l	50	100
trans-1,3-Dichloropropene	ND		ug/l	50	100
cis-1,3-Dichloropropene	ND		ug/l	50	100
Bromoform	ND		ug/l	200	100
1,1,2,2-Tetrachloroethane	ND		ug/l	50	100
Chloromethane	ND		ug/l	250	100
Vinyl chloride	ND		ug/l	100	100
Chloroethane	ND		ug/l	100	100
1,1-Dichloroethene	ND		ug/l	50	100
trans-1,2-Dichloroethene	ND		ug/l	75	100
Trichloroethene	1700		ug/l	50	100
1,2-Dichlorobenzene	ND		ug/l	250	100
1,3-Dichlorobenzene	ND		ug/l	250	100
1,4-Dichlorobenzene	ND		ug/l	250	100
cis-1,2-Dichloroethene	3400		ug/l	50	100
Dichlorodifluoromethane	ND		ug/l	500	100
1,2-Dibromoethane	ND		ug/l	200	100
1,3-Dichloropropane	ND		ug/l	250	100
1,1,1,2-Tetrachloroethane	ND		ug/l	50	100

Project Name: RAYTHEON WAYLAND**Lab Number:** L0705909**Project Number:** 0061882**Report Date:** 05/07/07**SAMPLE RESULTS**

Lab ID: L0705909-06
 Client ID: MW-268M-20070424-01
 Sample Location: WAYLAND, MA

Date Collected: 04/24/07 16:30
 Date Received: 04/25/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	250	100
p-Chlorotoluene	ND		ug/l	250	100
Hexachlorobutadiene	ND		ug/l	60	100
1,2,4-Trichlorobenzene	ND		ug/l	250	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	113		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	106		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0705909
Report Date: 05/07/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 05/04/07 19:45
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 02-03,05-06 Batch: WG279310-5				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0705909
Report Date: 05/07/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 05/04/07 19:45
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 02-03,05-06 Batch: WG279310-5				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
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	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
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



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0705909
Report Date: 05/07/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 05/04/07 19:45
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 02-03,05-06 Batch: WG279310-5				
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	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	106		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0705909
Report Date: 05/07/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 05/05/07 13:18
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01,04 Batch: WG279310-8				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0705909
Report Date: 05/07/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 05/05/07 13:18
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01,04 Batch: WG279310-8				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
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	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
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

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0705909
Report Date: 05/07/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 05/05/07 13:18
Analyst: PD

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01,04 Batch: WG279310-8				

Parameter	Result	Qualifier	Units	RDL
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	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	113		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0705909

Report Date: 05/07/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02-03,05-06 Batch: WG279310-3 WG279310-4					
Methylene chloride	99	92	70-130	7	25
1,1-Dichloroethane	94	95	70-130	1	25
Chloroform	88	96	70-130	9	25
Carbon tetrachloride	94	99	70-130	5	25
1,2-Dichloropropane	85	85	70-130	0	25
Dibromochloromethane	89	91	70-130	2	25
1,1,2-Trichloroethane	94	87	70-130	8	25
Tetrachloroethene	98	97	70-130	1	25
Chlorobenzene	93	95	70-130	2	25
Trichlorofluoromethane	120	124	70-130	3	25
1,2-Dichloroethane	96	100	70-130	4	25
1,1,1-Trichloroethane	100	104	70-130	4	25
Bromodichloromethane	87	88	70-130	1	25
trans-1,3-Dichloropropene	86	91	70-130	6	25
cis-1,3-Dichloropropene	78	82	70-130	5	25
1,1-Dichloropropene	95	93	70-130	2	25
Bromoform	96	94	70-130	2	50
1,1,2,2-Tetrachloroethane	110	108	70-130	2	25
Benzene	84	85	70-130	1	25
Toluene	94	92	70-130	2	25
Ethylbenzene	96	97	70-130	1	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0705909

Report Date: 05/07/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02-03,05-06 Batch: WG279310-3 WG279310-4					
Chloromethane	106	101	70-130	5	50
Bromomethane	84	73	70-130	14	50
Vinyl chloride	103	93	70-130	10	25
Chloroethane	99	97	70-130	2	25
1,1-Dichloroethene	109	105	70-130	4	25
trans-1,2-Dichloroethene	94	93	70-130	1	25
Trichloroethene	88	88	70-130	0	25
1,2-Dichlorobenzene	97	92	70-130	5	25
1,3-Dichlorobenzene	99	96	70-130	3	25
1,4-Dichlorobenzene	97	94	70-130	3	25
Methyl tert butyl ether	81	82	70-130	1	25
p/m-Xylene	96	97	70-130	1	25
o-Xylene	90	90	70-130	0	25
cis-1,2-Dichloroethene	92	95	70-130	3	25
Dibromomethane	82	80	70-130	2	25
1,2,3-Trichloropropane	112	104	70-130	7	25
Styrene	89	92	70-130	3	25
Dichlorodifluoromethane	120	120	70-130	0	50
Acetone	117	97	70-130	19	50
Carbon disulfide	79	78	70-130	1	25
2-Butanone	119	120	70-130	1	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0705909

Project Number: 0061882

Report Date: 05/07/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02-03,05-06 Batch: WG279310-3 WG279310-4					
4-Methyl-2-pentanone	78	80	70-130	3	50
2-Hexanone	93	104	70-130	11	50
Bromochloromethane	88	92	70-130	4	25
Tetrahydrofuran	83	86	70-130	4	25
2,2-Dichloropropane	90	98	70-130	9	50
1,2-Dibromoethane	90	94	70-130	4	25
1,3-Dichloropropane	91	93	70-130	2	25
1,1,1,2-Tetrachloroethane	91	98	70-130	7	25
Bromobenzene	101	92	70-130	9	25
n-Butylbenzene	100	98	70-130	2	25
sec-Butylbenzene	102	98	70-130	4	25
tert-Butylbenzene	103	96	70-130	7	25
o-Chlorotoluene	98	96	70-130	2	25
p-Chlorotoluene	101	99	70-130	2	25
1,2-Dibromo-3-chloropropane	100	113	70-130	12	50
Hexachlorobutadiene	90	88	70-130	2	25
Isopropylbenzene	104	105	70-130	1	25
p-Isopropyltoluene	107	102	70-130	5	25
Naphthalene	98	88	70-130	11	25
n-Propylbenzene	102	98	70-130	4	25
1,2,3-Trichlorobenzene	93	86	70-130	8	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0705909

Report Date: 05/07/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02-03,05-06 Batch: WG279310-3 WG279310-4					
1,2,4-Trichlorobenzene	91	88	70-130	3	25
1,3,5-Trimethylbenzene	101	96	70-130	5	25
1,2,4-Trimethylbenzene	104	99	70-130	5	25
Ethyl ether	84	92	70-130	9	25
Isopropyl Ether	84	87	70-130	4	25
Ethyl-Tert-Butyl-Ether	86	91	70-130	6	25
Tertiary-Amyl Methyl Ether	97	98	70-130	1	25
1,4-Dioxane	72	80	70-130	11	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113	114	70-130
Toluene-d8	111	107	70-130
4-Bromofluorobenzene	104	98	70-130
Dibromofluoromethane	104	106	70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0705909

Report Date: 05/07/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01,04 Batch: WG279310-6 WG279310-7					
Methylene chloride	104	101	70-130	3	25
1,1-Dichloroethane	110	105	70-130	5	25
Chloroform	109	103	70-130	6	25
Carbon tetrachloride	115	111	70-130	4	25
1,2-Dichloropropane	95	87	70-130	9	25
Dibromochloromethane	99	104	70-130	5	25
1,1,2-Trichloroethane	92	98	70-130	6	25
Tetrachloroethene	102	99	70-130	3	25
Chlorobenzene	98	99	70-130	1	25
Trichlorofluoromethane	138	129	70-130	7	25
1,2-Dichloroethane	115	105	70-130	9	25
1,1,1-Trichloroethane	120	113	70-130	6	25
Bromodichloromethane	101	99	70-130	2	25
trans-1,3-Dichloropropene	93	97	70-130	4	25
cis-1,3-Dichloropropene	89	88	70-130	1	25
1,1-Dichloropropene	99	96	70-130	3	25
Bromoform	99	100	70-130	1	50
1,1,1,2-Tetrachloroethane	104	107	70-130	3	25
Benzene	91	88	70-130	3	25
Toluene	98	97	70-130	1	25
Ethylbenzene	101	101	70-130	0	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0705909

Report Date: 05/07/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01,04 Batch: WG279310-6 WG279310-7					
Chloromethane	112	104	70-130	7	50
Bromomethane	80	71	70-130	12	50
Vinyl chloride	95	94	70-130	1	25
Chloroethane	101	84	70-130	18	25
1,1-Dichloroethene	110	105	70-130	5	25
trans-1,2-Dichloroethene	100	95	70-130	5	25
Trichloroethene	102	90	70-130	13	25
1,2-Dichlorobenzene	98	99	70-130	1	25
1,3-Dichlorobenzene	100	98	70-130	2	25
1,4-Dichlorobenzene	98	96	70-130	2	25
Methyl tert butyl ether	88	87	70-130	1	25
p/m-Xylene	100	100	70-130	0	25
o-Xylene	98	98	70-130	0	25
cis-1,2-Dichloroethene	101	102	70-130	1	25
Dibromomethane	88	89	70-130	1	25
1,2,3-Trichloropropane	105	114	70-130	8	25
Styrene	98	100	70-130	2	25
Dichlorodifluoromethane	125	112	70-130	11	50
Acetone	135	113	70-130	18	50
Carbon disulfide	82	80	70-130	2	25
2-Butanone	107	94	70-130	13	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0705909

Report Date: 05/07/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01,04 Batch: WG279310-6 WG279310-7					
4-Methyl-2-pentanone	82	77	70-130	6	50
2-Hexanone	95	102	70-130	7	50
Bromochloromethane	101	93	70-130	8	25
Tetrahydrofuran	86	92	70-130	7	25
2,2-Dichloropropane	109	105	70-130	4	50
1,2-Dibromoethane	90	97	70-130	7	25
1,3-Dichloropropane	93	100	70-130	7	25
1,1,1,2-Tetrachloroethane	107	108	70-130	1	25
Bromobenzene	97	95	70-130	2	25
n-Butylbenzene	103	99	70-130	4	25
sec-Butylbenzene	102	99	70-130	3	25
tert-Butylbenzene	102	99	70-130	3	25
o-Chlorotoluene	100	98	70-130	2	25
p-Chlorotoluene	104	101	70-130	3	25
1,2-Dibromo-3-chloropropane	100	95	70-130	5	50
Hexachlorobutadiene	88	86	70-130	2	25
Isopropylbenzene	111	110	70-130	1	25
p-Isopropyltoluene	109	104	70-130	5	25
Naphthalene	84	85	70-130	1	25
n-Propylbenzene	100	98	70-130	2	25
1,2,3-Trichlorobenzene	88	90	70-130	2	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0705909

Report Date: 05/07/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01,04 Batch: WG279310-6 WG279310-7					
1,2,4-Trichlorobenzene	86	83	70-130	4	25
1,3,5-Trimethylbenzene	103	102	70-130	1	25
1,2,4-Trimethylbenzene	106	102	70-130	4	25
Ethyl ether	91	91	70-130	0	25
Isopropyl Ether	99	95	70-130	4	25
Ethyl-Tert-Butyl-Ether	72	70	70-130	3	25
Tertiary-Amyl Methyl Ether	106	102	70-130	4	25
1,4-Dioxane	78	66	70-130	17	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125	122	70-130
Toluene-d8	107	109	70-130
4-Bromofluorobenzene	97	92	70-130
Dibromofluoromethane	115	110	70-130

Matrix Spike Analysis Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0705909

Report Date: 05/07/07

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
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Volatile Organics by MCP 8260B Associated sample(s): 01-06 QC Batch ID: WG279310-1 WG279310-2 QC Sample: L0705909-02 Client ID: MW-267M-20070424-01

Methylene chloride	ND	200	210	105	200	100	70-130	5	30
1,1-Dichloroethane	ND	200	220	111	210	106	70-130	5	30
Chloroform	ND	200	220	110	210	104	70-130	6	30
Carbon tetrachloride	ND	200	240	123	220	108	70-130	13	30
1,2-Dichloropropane	ND	200	180	93	180	90	70-130	3	30
Dibromochloromethane	ND	200	200	100	200	101	70-130	1	30
1,1,2-Trichloroethane	ND	200	200	98	180	88	70-130	11	30
Tetrachloroethene	38	200	240	103	220	90	70-130	13	30
Chlorobenzene	ND	200	200	102	190	94	70-130	8	30
1,2-Dichloroethane	ND	200	220	113	220	108	70-130	5	30
1,1,1-Trichloroethane	ND	200	240	121	220	111	70-130	9	30
Bromodichloromethane	ND	200	210	105	200	99	70-130	6	30
trans-1,3-Dichloropropene	ND	200	190	97	190	96	70-130	1	30
cis-1,3-Dichloropropene	ND	200	160	83	170	84	70-130	1	30
Bromoform	ND	200	200	102	210	103	70-130	1	30
1,1,2,2-Tetrachloroethane	ND	200	210	106	220	110	70-130	4	30
Chloromethane	ND	200	220	110	210	103	70-130	7	30
Vinyl chloride	14J	200	200	100	200	100	70-130	0	30
Chloroethane	ND	200	190	94	190	95	70-130	1	30
1,1-Dichloroethene	ND	200	230	115	210	104	70-130	10	30
trans-1,2-Dichloroethene	ND	200	200	98	200	98	70-130	0	30

Matrix Spike Analysis Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0705909
Report Date: 05/07/07

Parameter	Native Sample	MS Added	MS Found	MS	MSD Found	MSD	Recovery Limits	RPD	RPD Limits
				%Recovery		%Recovery			

Volatile Organics by MCP 8260B Associated sample(s): 01-06 QC Batch ID: WG279310-1 WG279310-2 QC Sample: L0705909-02 Client ID: MW-267M-20070424-01

Trichloroethene	630	200	870	120	810	93	70-130	25	30
1,2-Dichlorobenzene	ND	200	200	101	200	101	70-130	0	30
1,3-Dichlorobenzene	ND	200	210	104	200	99	70-130	5	30
1,4-Dichlorobenzene	ND	200	200	102	190	97	70-130	5	30
cis-1,2-Dichloroethene	470	200	690	110	640	86	70-130	24	30
Dichlorodifluoromethane	ND	200	240	123	230	116	70-130	6	30
1,2-Dibromoethane	ND	200	180	91	190	95	70-130	4	30
1,3-Dichloropropane	ND	200	190	97	190	94	70-130	3	30
1,1,1,2-Tetrachloroethane	ND	200	220	111	210	105	70-130	6	30
o-Chlorotoluene	ND	200	210	104	190	97	70-130	7	30
p-Chlorotoluene	ND	200	210	107	200	102	70-130	5	30
Hexachlorobutadiene	ND	200	180	89	180	88	70-130	1	30
1,2,4-Trichlorobenzene	ND	200	160	82	160	81	70-130	1	30

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1,2-Dichloroethane-d4	124		125		70-130
4-Bromofluorobenzene	96		93		70-130
Dibromofluoromethane	113		116		70-130
Toluene-d8	107		106		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0705909**Project Number:** 0061882**Report Date:** 05/07/07**Sample Receipt and Container Information**

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
L0705909-01A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	MCP-8260-04
L0705909-01B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	MCP-8260-04
L0705909-02A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	MCP-8260-04
L0705909-02B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	MCP-8260-04
L0705909-02C	Vial HCl preserved	A	N/A	2.2C	Y	Absent	MCP-8260-04
L0705909-02D	Vial HCl preserved	A	N/A	2.2C	Y	Absent	MCP-8260-04
L0705909-02E	Vial HCl preserved	A	N/A	2.2C	Y	Absent	MCP-8260-04
L0705909-02F	Vial HCl preserved	A	N/A	2.2C	Y	Absent	MCP-8260-04
L0705909-03A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	MCP-8260-04
L0705909-03B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	MCP-8260-04
L0705909-04A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	MCP-8260-04
L0705909-04B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	MCP-8260-04
L0705909-05A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	MCP-8260-04
L0705909-05B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	MCP-8260-04
L0705909-06A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	MCP-8260-04
L0705909-06B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	MCP-8260-04

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0705909
Report Date: 05/07/07

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD- Laboratory Control Sample Duplicate: Refer to LCS.
MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD - Matrix Spike Sample Duplicate: Refer to MS.
NA - Not Applicable.
NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND - Not detected at the reported detection limit for the sample.
RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

- A - Spectra identified as "Aldol Condensation Product".
B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Report Format: Not Specified



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0705909
Report Date: 05/07/07

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.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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





CHAIN OF CUSTODY

PAGE 1 OF 1

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

RAYNHAM, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: *ERH*

Address: *399 BRYLSDEN ST*

Phone: *617-646-2800*

Fax: *617-267-6447*

Email: *jeremy.picard@erh.com*

Project Name: *Pythex Wayland*

Project Location: *WAYLAND, MA*

Project #: *0061882*

Project Manager: *Jeremy Picard*

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: *05/02* Time:

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd In Lab: *4/12/05*

Report Information - Data Deliverables

FAX EMAIL

ADEX Add'l Deliverables

Regulatory Requirements/Report Limits

State / Fed Program

MCP *GW-1*

MAMCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

Yes No Are MCP Analytical Methods Required?

Yes No Are CT RCP (Reasonable Confidence Protocols) Required?

ALPHA Job #: *10705909*

Billing Information

Same as Client info PO #:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials	Container Type	Preservative	Date/Time	Received By	Date/Time	Sample Specific Comments
<i>05909-01</i>	<i>MW-267S-20070424-01</i>	<i>4/12/05</i>	<i>08:40</i>	<i>GW</i>	<i>JM</i>	<i>V</i>	<i>B</i>	<i>12:15</i>	<i>Paul Willcutt</i>	<i>4/12/05</i>	<i>2</i>
<i>-02</i>	<i>MW-267M-20070424-01</i>	<i>4/12/05</i>	<i>09:55</i>	<i>GW</i>	<i>JM</i>	<i>V</i>	<i>B</i>	<i>12:15</i>	<i>Paul Willcutt</i>	<i>4/12/05</i>	<i>2</i>
<i>-02</i>	<i>MW-267M-20070424-01</i>	<i>4/12/05</i>	<i>09:55</i>	<i>GW</i>	<i>JM</i>	<i>V</i>	<i>B</i>	<i>12:15</i>	<i>Paul Willcutt</i>	<i>4/12/05</i>	<i>2</i>
<i>-02</i>	<i>MW-267M-20070424-01</i>	<i>4/12/05</i>	<i>09:55</i>	<i>GW</i>	<i>JM</i>	<i>V</i>	<i>B</i>	<i>12:15</i>	<i>Paul Willcutt</i>	<i>4/12/05</i>	<i>2</i>
<i>-03</i>	<i>MW-266M4-20070424-01</i>	<i>4/12/05</i>	<i>12:15</i>	<i>GW</i>	<i>JM</i>	<i>V</i>	<i>B</i>	<i>12:15</i>	<i>Paul Willcutt</i>	<i>4/12/05</i>	<i>2</i>
<i>-04</i>	<i>MW-266M1B-20070424-01</i>	<i>4/12/05</i>	<i>13:25</i>	<i>GW</i>	<i>JM</i>	<i>V</i>	<i>B</i>	<i>12:15</i>	<i>Paul Willcutt</i>	<i>4/12/05</i>	<i>2</i>
<i>-05</i>	<i>MW-265M-20070424-01</i>	<i>4/12/05</i>	<i>15:30</i>	<i>GW</i>	<i>JM</i>	<i>V</i>	<i>B</i>	<i>12:15</i>	<i>Paul Willcutt</i>	<i>4/12/05</i>	<i>2</i>
<i>-06</i>	<i>MW-268M-20070424-01</i>	<i>4/12/05</i>	<i>16:30</i>	<i>GW</i>	<i>JM</i>	<i>V</i>	<i>B</i>	<i>12:15</i>	<i>Paul Willcutt</i>	<i>4/12/05</i>	<i>2</i>

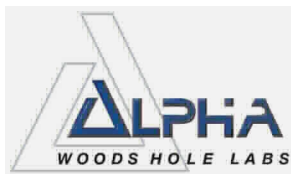
PLEASE ANSWER QUESTIONS ABOVE:
IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By: *Paul Willcutt*

Container Type: *V*
Preservative: *B*

Received By: *Paul Willcutt*
Date/Time: *4/12/05 12:15*

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.



ANALYTICAL REPORT

Lab Number: L0705912

Client: ERM-New England
399 Boylston Street
6th Floor
Boston, MA 02116

ATTN: Jeremy Picard

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Report Date: 05/03/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0705912
Report Date: 05/03/07

Alpha Sample ID	Client ID	Sample Location
L0705912-01	MW-264M-20070424-01	WAYLAND, MA
L0705912-02	TB-002-20070424-01	WAYLAND, MA

Project Name: RAYTHEON WAYLAND

Lab Number: L0705912

Project Number: 0061882

Report Date: 05/03/07

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. 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?	N/A
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?	YES
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0705912
Report Date: 05/03/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Volatile Organics

L0705912-01 was re-analyzed due to overdilution of the original analysis. The results of the re-analysis are reported.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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

Authorized Signature:



Title: Technical Director

Date: 05/03/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND**Lab Number:** L0705912**Project Number:** 0061882**Report Date:** 05/03/07**SAMPLE RESULTS**

Lab ID: L0705912-01 R
 Client ID: MW-264M-20070424-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/03/07 13:29
 Analyst: BT

Date Collected: 04/24/07 15:50
 Date Received: 04/25/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	9.1		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	4.6		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	52		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	72		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L0705912**Project Number:** 0061882**Report Date:** 05/03/07**SAMPLE RESULTS**

Lab ID: L0705912-01 R

Date Collected: 04/24/07 15:50

Client ID: MW-264M-20070424-01

Date Received: 04/25/07

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	115		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0705912**Project Number:** 0061882**Report Date:** 05/03/07**SAMPLE RESULTS**

Lab ID: L0705912-02
 Client ID: TB-002-20070424-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/03/07 04:24
 Analyst: RY

Date Collected: 04/08/07 21:21
 Date Received: 04/25/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L0705912**Project Number:** 0061882**Report Date:** 05/03/07**SAMPLE RESULTS**

Lab ID: L0705912-02
 Client ID: TB-002-20070424-01
 Sample Location: WAYLAND, MA

Date Collected: 04/08/07 21:21
 Date Received: 04/25/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	110		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0705912
Report Date: 05/03/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 05/03/07 09:20
Analyst: BT

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG278538-12				
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

Project Name: RAYTHEON WAYLAND

Lab Number: L0705912

Project Number: 0061882

Report Date: 05/03/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
 Analytical Date: 05/03/07 09:20
 Analyst: BT

Parameter	Result	Qualifier	Units	RDL
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Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG278538-12

p-Chlorotoluene	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
1,2,4-Trichlorobenzene	ND		ug/l	2.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
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1,2-Dichloroethane-d4	116		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0705912
Report Date: 05/03/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 05/02/07 18:38
Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 02 Batch: WG279032-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND

Lab Number: L0705912

Project Number: 0061882

Report Date: 05/03/07

Method Blank Analysis Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 05/02/07 18:38
 Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 02 Batch: WG279032-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
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	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
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

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0705912
Report Date: 05/03/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 05/02/07 18:38
Analyst: RY

Parameter	Result	Qualifier	Units	RDL
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Volatile Organics by MCP 8260B for sample(s): 02 Batch: WG279032-3

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	%Recovery	Qualifier	Acceptance Criteria
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1,2-Dichloroethane-d4	104		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0705912

Report Date: 05/03/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG278538-10 WG278538-11					
Methylene chloride	100	103	70-130	3	25
1,1-Dichloroethane	99	105	70-130	6	25
Chloroform	104	102	70-130	2	25
Carbon tetrachloride	110	110	70-130	0	25
1,2-Dichloropropane	94	93	70-130	1	25
Dibromochloromethane	106	110	70-130	4	25
1,1,2-Trichloroethane	98	98	70-130	0	25
Tetrachloroethene	103	108	70-130	5	25
Chlorobenzene	96	100	70-130	4	25
1,2-Dichloroethane	112	114	70-130	2	25
1,1,1-Trichloroethane	111	112	70-130	1	25
Bromodichloromethane	107	107	70-130	0	25
trans-1,3-Dichloropropene	100	101	70-130	1	25
cis-1,3-Dichloropropene	89	94	70-130	5	25
Bromoform	108	118	70-130	9	50
1,1,2,2-Tetrachloroethane	110	118	70-130	7	25
Chloromethane	85	96	70-130	12	50
Vinyl chloride	85	94	70-130	10	25
Chloroethane	85	99	70-130	15	25
1,1-Dichloroethene	100	112	70-130	11	25
trans-1,2-Dichloroethene	97	102	70-130	5	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0705912

Report Date: 05/03/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG278538-10 WG278538-11					
Trichloroethene	98	98	70-130	0	25
1,2-Dichlorobenzene	102	106	70-130	4	25
1,3-Dichlorobenzene	100	104	70-130	4	25
1,4-Dichlorobenzene	98	104	70-130	6	25
cis-1,2-Dichloroethene	100	100	70-130	0	25
Dichlorodifluoromethane	81	80	70-130	1	50
1,2-Dibromoethane	94	104	70-130	10	25
1,3-Dichloropropane	98	104	70-130	6	25
1,1,1,2-Tetrachloroethane	106	114	70-130	7	25
o-Chlorotoluene	98	101	70-130	3	25
p-Chlorotoluene	100	106	70-130	6	25
Hexachlorobutadiene	89	95	70-130	7	25
1,2,4-Trichlorobenzene	89	94	70-130	5	25

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		115		70-130
Toluene-d8	105		107		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	115		110		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0705912

Report Date: 05/03/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02 Batch: WG279032-1 WG279032-2					
Methylene chloride	101	100	70-130	1	25
1,1-Dichloroethane	105	101	70-130	4	25
Chloroform	103	98	70-130	5	25
Carbon tetrachloride	106	103	70-130	3	25
1,2-Dichloropropane	94	91	70-130	3	25
Dibromochloromethane	93	102	70-130	9	25
1,1,2-Trichloroethane	97	102	70-130	5	25
Tetrachloroethene	106	106	70-130	0	25
Chlorobenzene	103	101	70-130	2	25
Trichlorofluoromethane	129	127	70-130	2	25
1,2-Dichloroethane	111	110	70-130	1	25
1,1,1-Trichloroethane	111	104	70-130	7	25
Bromodichloromethane	98	100	70-130	2	25
trans-1,3-Dichloropropene	90	95	70-130	5	25
cis-1,3-Dichloropropene	91	90	70-130	1	25
1,1-Dichloropropene	99	96	70-130	3	25
Bromoform	95	98	70-130	3	50
1,1,1,2-Tetrachloroethane	114	115	70-130	1	25
Benzene	93	90	70-130	3	25
Toluene	98	99	70-130	1	25
Ethylbenzene	103	102	70-130	1	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0705912

Project Number: 0061882

Report Date: 05/03/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02 Batch: WG279032-1 WG279032-2					
Chloromethane	98	98	70-130	0	50
Bromomethane	88	84	70-130	5	50
Vinyl chloride	92	91	70-130	1	25
Chloroethane	98	98	70-130	0	25
1,1-Dichloroethene	111	107	70-130	4	25
trans-1,2-Dichloroethene	97	97	70-130	0	25
Trichloroethene	103	99	70-130	4	25
1,2-Dichlorobenzene	100	97	70-130	3	25
1,3-Dichlorobenzene	103	98	70-130	5	25
1,4-Dichlorobenzene	102	99	70-130	3	25
Methyl tert butyl ether	96	101	70-130	5	25
p/m-Xylene	102	102	70-130	0	25
o-Xylene	99	101	70-130	2	25
cis-1,2-Dichloroethene	104	98	70-130	6	25
Dibromomethane	103	100	70-130	3	25
1,2,3-Trichloropropane	111	116	70-130	4	25
Styrene	99	101	70-130	2	25
Dichlorodifluoromethane	92	90	70-130	2	50
Acetone	127	140	70-130	10	50
Carbon disulfide	86	88	70-130	2	25
2-Butanone	129	136	70-130	5	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0705912

Report Date: 05/03/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02 Batch: WG279032-1 WG279032-2					
4-Methyl-2-pentanone	95	92	70-130	3	50
2-Hexanone	100	116	70-130	15	50
Bromochloromethane	104	104	70-130	0	25
Tetrahydrofuran	98	102	70-130	4	25
2,2-Dichloropropane	98	99	70-130	1	50
1,2-Dibromoethane	100	100	70-130	0	25
1,3-Dichloropropane	95	103	70-130	8	25
1,1,1,2-Tetrachloroethane	102	104	70-130	2	25
Bromobenzene	102	98	70-130	4	25
n-Butylbenzene	105	97	70-130	8	25
sec-Butylbenzene	103	97	70-130	6	25
tert-Butylbenzene	103	100	70-130	3	25
o-Chlorotoluene	102	97	70-130	5	25
p-Chlorotoluene	104	100	70-130	4	25
1,2-Dibromo-3-chloropropane	104	114	70-130	9	50
Hexachlorobutadiene	92	87	70-130	6	25
Isopropylbenzene	109	110	70-130	1	25
p-Isopropyltoluene	109	103	70-130	6	25
Naphthalene	105	102	70-130	3	25
n-Propylbenzene	104	98	70-130	6	25
1,2,3-Trichlorobenzene	101	95	70-130	6	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0705912

Report Date: 05/03/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02 Batch: WG279032-1 WG279032-2					
1,2,4-Trichlorobenzene	97	93	70-130	4	25
1,3,5-Trimethylbenzene	106	100	70-130	6	25
1,2,4-Trimethylbenzene	107	99	70-130	8	25
Ethyl ether	102	105	70-130	3	25
Isopropyl Ether	100	99	70-130	1	25
Ethyl-Tert-Butyl-Ether	76	86	70-130	12	25
Tertiary-Amyl Methyl Ether	106	97	70-130	9	25
1,4-Dioxane	95	106	70-130	11	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115	115	70-130
Toluene-d8	103	106	70-130
4-Bromofluorobenzene	98	95	70-130
Dibromofluoromethane	106	103	70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0705912**Project Number:** 0061882**Report Date:** 05/03/07**Sample Receipt and Container Information**

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
L0705912-01A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	MCP-8260-04
L0705912-01B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	MCP-8260-04
L0705912-02A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	MCP-8260-04

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0705912
Report Date: 05/03/07

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD- Laboratory Control Sample Duplicate: Refer to LCS.
MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD - Matrix Spike Sample Duplicate: Refer to MS.
NA - Not Applicable.
NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND - Not detected at the reported detection limit for the sample.
RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

- A - Spectra identified as "Aldol Condensation Product".
B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Report Format: Not Specified



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0705912
Report Date: 05/03/07

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.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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





WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

RAYNHAM, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 1 OF 1

Project Information

Project Name: RAYNHAM, WYCHARD

Project Location: WYCHARD, MA

Project #: 0061882

Project Manager: SEVERY PICAARD

ALPHA Quote #:

Turn-Around Time

Phone: 617-646-7800

Fax: 617-267-6447

Email: severy.picaard@alpha.com

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 4/25

Report Information - Data Deliverables

Regulatory Requirements/Report Limits

State /Fed Program

Criteria

MCP

MAMCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

Yes No Are MCP Analytical Methods Required?

Yes No Are CT RCP (Reasonable Confidence Protocols) Required?

ALPHA Job #: 20705912

Billing Information

Same as Client info

PO #:

Standard RUSH (only confirmed if pre-approved)
Date Due: 05/02 Time:

ANALYSIS

1	MS912-01	MU-264M20070424-01	4/27	15:50	GU	DM	2
2	V-02	TB. 202.20070424-01	4/27	21:00	GU	ZP	1

TOTAL # BOTTLES

SAMPLE HANDLING

- Done
- Not needed
- Lab to do
- Preservation
- Lab to do

Sample Specific Comments

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By:

Paul Gillis

Container Type Preservative

B

Date/Time

4/25/07 12:15

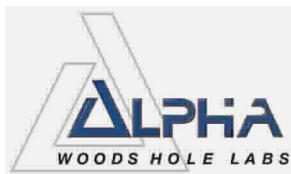
Received By:

Paul Gillis

Date/Time

4/25/07 12:25

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.



ANALYTICAL REPORT

Lab Number: L0714855

Client: ERM-New England
399 Boylston Street
6th Floor
Boston, MA 02116

ATTN: Jeremy Picard

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Report Date: 10/15/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714855
Report Date: 10/15/07

Alpha Sample ID	Client ID	Sample Location
L0714855-01	DEP-19S-20071004-01	WAYLAND, MA
L0714855-02	DEP-19D-20071004-01	WAYLAND, MA
L0714855-03	DUP-002-20071004-01	WAYLAND, MA

Project Name: RAYTHEON WAYLAND

Lab Number: L0714855

Project Number: 0061882

Report Date: 10/15/07

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. 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 methods(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?	N/A
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?	YES
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714855
Report Date: 10/15/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives


Volatile Organics

L0714855-01, -02, and -03 were processed against a calibration curve that utilized a quadratic fit for 2-Butanone.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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

Authorized Signature: 

Title: Technical Director/Representative

Date: 10/15/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714855**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714855-01
Client ID: DEP-19S-20071004-01
Sample Location: WAYLAND, MA
Matrix: Water
Anaytical Method: 60,8260B
Analytical Date: 10/13/07 19:32
Analyst: BS

Date Collected: 10/04/07 08:00
Date Received: 10/05/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714855**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714855-01

Date Collected: 10/04/07 08:00

Client ID: DEP-19S-20071004-01

Date Received: 10/05/07

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	106		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714855**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714855-02
Client ID: DEP-19D-20071004-01
Sample Location: WAYLAND, MA
Matrix: Water
Anaytical Method: 60,8260B
Analytical Date: 10/13/07 20:11
Analyst: BS

Date Collected: 10/04/07 08:10
Date Received: 10/05/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	0.84		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714855**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714855-02
 Client ID: DEP-19D-20071004-01
 Sample Location: WAYLAND, MA

Date Collected: 10/04/07 08:10
 Date Received: 10/05/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	109		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714855**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714855-03
 Client ID: DUP-002-20071004-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/13/07 20:49
 Analyst: BS

Date Collected: 10/04/07 00:00
 Date Received: 10/05/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	0.70		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714855**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714855-03
 Client ID: DUP-002-20071004-01
 Sample Location: WAYLAND, MA

Date Collected: 10/04/07 00:00
 Date Received: 10/05/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	110		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714855
Report Date: 10/15/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/13/07 16:57
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-03 Batch: WG298110-3				
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
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

Project Name: RAYTHEON WAYLAND

Lab Number: L0714855

Project Number: 0061882

Report Date: 10/15/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B

Analytical Date: 10/13/07 16:57

Analyst: BS

Parameter	Result	Qualifier	Units	RDL
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Volatile Organics by MCP 8260B for sample(s): 01-03 Batch: WG298110-3				
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o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
1,2,4-Trichlorobenzene	ND		ug/l	2.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714855

Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03 Batch: WG298110-1 WG298110-2					
Methylene chloride	86	84	70-130	2	25
1,1-Dichloroethane	82	83	70-130	1	25
Chloroform	84	86	70-130	2	25
Carbon tetrachloride	79	79	70-130	0	25
1,2-Dichloropropane	81	84	70-130	4	25
Dibromochloromethane	86	86	70-130	0	25
1,1,2-Trichloroethane	77	80	70-130	4	25
Tetrachloroethene	81	82	70-130	1	25
Chlorobenzene	80	83	70-130	4	25
1,2-Dichloroethane	81	82	70-130	1	25
1,1,1-Trichloroethane	82	84	70-130	2	25
Bromodichloromethane	83	83	70-130	0	25
trans-1,3-Dichloropropene	77	78	70-130	1	25
cis-1,3-Dichloropropene	82	84	70-130	2	25
Bromoform	85	86	70-130	1	50
1,1,1,2-Tetrachloroethane	89	93	70-130	4	25
Chloromethane	88	88	70-130	0	50
Vinyl chloride	82	86	70-130	5	25
Chloroethane	83	86	70-130	4	25
1,1-Dichloroethene	82	87	70-130	6	25
trans-1,2-Dichloroethene	84	88	70-130	5	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714855
Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03 Batch: WG298110-1 WG298110-2					
Trichloroethene	77	80	70-130	4	25
1,2-Dichlorobenzene	82	82	70-130	0	25
1,3-Dichlorobenzene	84	84	70-130	0	25
1,4-Dichlorobenzene	85	84	70-130	1	25
cis-1,2-Dichloroethene	83	84	70-130	1	25
Dichlorodifluoromethane	100	103	70-130	3	50
2,2-Dichloropropane	88	90	70-130	2	50
1,2-Dibromoethane	80	82	70-130	2	25
1,3-Dichloropropane	79	81	70-130	3	25
1,1,1,2-Tetrachloroethane	78	79	70-130	1	25
o-Chlorotoluene	80	82	70-130	2	25
p-Chlorotoluene	82	84	70-130	2	25
Hexachlorobutadiene	79	85	70-130	7	25
1,2,4-Trichlorobenzene	77	80	70-130	4	25

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99	100	70-130
Toluene-d8	97	97	70-130
4-Bromofluorobenzene	100	98	70-130
Dibromofluoromethane	105	105	70-130



Project Name: RAYTHEON WAYLAND**Lab Number:** L0714855**Project Number:** 0061882**Report Date:** 10/15/07**Sample Receipt and Container Information**

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
L0714855-01A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714855-01B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714855-02A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714855-02B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714855-03A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714855-03B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04

Container Comments

L0714855-01A	Temp Probe
L0714855-01B	Temp Probe
L0714855-02A	Temp Probe
L0714855-02B	Temp Probe
L0714855-03A	Temp Probe
L0714855-03B	Temp Probe

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714855
Report Date: 10/15/07

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD- Laboratory Control Sample Duplicate: Refer to LCS.
MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD - Matrix Spike Sample Duplicate: Refer to MS.
NA - Not Applicable.
NI - Not Ignitable.
NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND - Not detected at the reported detection limit for the sample.
RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

- A - Spectra identified as "Aldol Condensation Product".
B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

- H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Not Specified



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714855
Report Date: 10/15/07

REFERENCES

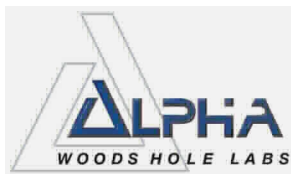
- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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





ANALYTICAL REPORT

Lab Number: L0714851

Client: ERM-New England
399 Boylston Street
6th Floor
Boston, MA 02116

ATTN: Jeremy Picard

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Report Date: 10/15/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714851
Report Date: 10/15/07

Alpha Sample ID	Client ID	Sample Location
L0714851-01	DEP-20-20071004-01	WAYLAND, MA
L0714851-02	DEP-21-20071004-01	WAYLAND, MA

Project Name: RAYTHEON WAYLAND

Lab Number: L0714851

Project Number: 0061882

Report Date: 10/15/07

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. 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 methods(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?	N/A
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?	YES
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714851
Report Date: 10/15/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Volatile Organics

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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

Authorized Signature: 

Title: Technical Director/Representative

Date: 10/15/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714851**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714851-01
 Client ID: DEP-20-20071004-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/14/07 01:33
 Analyst: RY

Date Collected: 10/04/07 08:20
 Date Received: 10/05/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714851**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714851-01
 Client ID: DEP-20-20071004-01
 Sample Location: WAYLAND, MA

Date Collected: 10/04/07 08:20
 Date Received: 10/05/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	112		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714851**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714851-02
 Client ID: DEP-21-20071004-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/14/07 02:03
 Analyst: RY

Date Collected: 10/04/07 08:30
 Date Received: 10/05/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	1.5		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	21		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714851**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714851-02
 Client ID: DEP-21-20071004-01
 Sample Location: WAYLAND, MA

Date Collected: 10/04/07 08:30
 Date Received: 10/05/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	107		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714851
Report Date: 10/15/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/13/07 17:03
Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-02 Batch: WG298054-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714851
Report Date: 10/15/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/13/07 17:03
Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-02 Batch: WG298054-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
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	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
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

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714851
Report Date: 10/15/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/13/07 17:03
Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-02 Batch: WG298054-3				
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	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	107		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714851

Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-02 Batch: WG298054-1 WG298054-2					
Methylene chloride	88	79	70-130	11	25
1,1-Dichloroethane	87	80	70-130	8	25
Chloroform	95	86	70-130	10	25
Carbon tetrachloride	108	98	70-130	10	25
1,2-Dichloropropane	88	82	70-130	7	25
Dibromochloromethane	88	79	70-130	11	25
1,1,2-Trichloroethane	81	74	70-130	9	25
Tetrachloroethene	91	82	70-130	10	25
Chlorobenzene	86	79	70-130	8	25
Trichlorofluoromethane	114	103	70-130	10	25
1,2-Dichloroethane	105	95	70-130	10	25
1,1,1-Trichloroethane	101	93	70-130	8	25
Bromodichloromethane	100	91	70-130	9	25
trans-1,3-Dichloropropene	82	76	70-130	8	25
cis-1,3-Dichloropropene	95	84	70-130	12	25
1,1-Dichloropropene	90	81	70-130	11	25
Bromoform	88	80	70-130	10	50
1,1,1,2-Tetrachloroethane	75	70	70-130	7	25
Benzene	88	79	70-130	11	25
Toluene	80	72	70-130	11	25
Ethylbenzene	88	78	70-130	12	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0714851

Project Number: 0061882

Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-02 Batch: WG298054-1 WG298054-2					
Chloromethane	82	78	70-130	5	50
Bromomethane	89	87	70-130	2	50
Vinyl chloride	84	78	70-130	7	25
Chloroethane	100	91	70-130	9	25
1,1-Dichloroethene	95	85	70-130	11	25
trans-1,2-Dichloroethene	90	77	70-130	16	25
Trichloroethene	97	86	70-130	12	25
1,2-Dichlorobenzene	88	78	70-130	12	25
1,3-Dichlorobenzene	92	80	70-130	14	25
1,4-Dichlorobenzene	89	80	70-130	11	25
Methyl tert butyl ether	86	77	70-130	11	25
p/m-Xylene	89	81	70-130	9	25
o-Xylene	89	82	70-130	8	25
cis-1,2-Dichloroethene	90	81	70-130	11	25
Dibromomethane	100	90	70-130	11	25
1,2,3-Trichloropropane	90	79	70-130	13	25
Styrene	92	86	70-130	7	25
Dichlorodifluoromethane	104	93	70-130	11	50
Acetone	203	106	70-130	63	50
Carbon disulfide	98	87	70-130	12	25
2-Butanone	110	91	70-130	19	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0714851

Project Number: 0061882

Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-02 Batch: WG298054-1 WG298054-2					
4-Methyl-2-pentanone	101	88	70-130	14	50
2-Hexanone	92	79	70-130	15	50
Bromochloromethane	98	89	70-130	10	25
Tetrahydrofuran	82	71	70-130	14	25
2,2-Dichloropropane	106	94	70-130	12	50
1,2-Dibromoethane	84	76	70-130	10	25
1,3-Dichloropropane	80	72	70-130	11	25
1,1,1,2-Tetrachloroethane	93	84	70-130	10	25
Bromobenzene	87	77	70-130	12	25
n-Butylbenzene	98	84	70-130	15	25
sec-Butylbenzene	92	82	70-130	11	25
tert-Butylbenzene	89	79	70-130	12	25
o-Chlorotoluene	83	74	70-130	11	25
p-Chlorotoluene	84	77	70-130	9	25
1,2-Dibromo-3-chloropropane	86	73	70-130	16	50
Hexachlorobutadiene	96	79	70-130	19	25
Isopropylbenzene	100	91	70-130	9	25
p-Isopropyltoluene	98	87	70-130	12	25
Naphthalene	78	71	70-130	9	25
n-Propylbenzene	84	76	70-130	10	25
1,2,3-Trichlorobenzene	84	77	70-130	9	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0714851

Project Number: 0061882

Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-02 Batch: WG298054-1 WG298054-2					
1,2,4-Trichlorobenzene	87	78	70-130	11	25
1,3,5-Trimethylbenzene	88	78	70-130	12	25
1,2,4-Trimethylbenzene	92	81	70-130	13	25
Ethyl ether	82	72	70-130	13	25
Isopropyl Ether	78	71	70-130	9	25
Ethyl-Tert-Butyl-Ether	81	75	70-130	8	25
Tertiary-Amyl Methyl Ether	86	78	70-130	10	25
1,4-Dioxane	124	119	70-130	4	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115	112	70-130
Toluene-d8	92	92	70-130
4-Bromofluorobenzene	94	91	70-130
Dibromofluoromethane	109	109	70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714851**Project Number:** 0061882**Report Date:** 10/15/07**Sample Receipt and Container Information**

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
L0714851-01A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714851-01B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714851-02A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714851-02B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04

Container Comments

L0714851-01A	Temp Probe
L0714851-01B	Temp Probe
L0714851-02A	Temp Probe
L0714851-02B	Temp Probe

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714851
Report Date: 10/15/07

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
 LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
 LCSD- Laboratory Control Sample Duplicate: Refer to LCS.
 MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
 MSD - Matrix Spike Sample Duplicate: Refer to MS.
 NA - Not Applicable.
 NI - Not Ignitable.
 NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
 ND - Not detected at the reported detection limit for the sample.
 RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
 RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

- A - Spectra identified as "Aldol Condensation Product".
 B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
 E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
 J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

- H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Not Specified



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714851
Report Date: 10/15/07

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.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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





CHAIN OF CUSTODY

PAGE 1 OF 1

WESTBORO, MA
 TEL: 508-898-9220
 FAX: 508-898-9193

RAYNHAM, MA
 TEL: 508-822-9300
 FAX: 508-822-3288

Client Information

Client: BRN
 Address: 599 BOSTON ST

Phone: 617 646-7800

Fax: 617-267-6447

Email: steven.picard@brn.com

These samples have been previously analyzed by Alpha
 Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: ERTHSON, WAREND

Project Location: WAREND, MA

Project #: 0761882

Project Manager: JENNIFER PICARD

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: 10/12/07 Time:

Date Rec'd in Lab: 10/5/07

Report Information - Data Deliverables

FAX EMAIL

INDEX 241 Deliverables

Regulatory Requirements/Report Limits

State / Fed Program MCP Criteria 600-1

MAMCPR PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

Yes No Are MCP Analytical Methods Required?
 Yes No Are CT RCP (Reasonable Confidence Protocol(s)) Required?

ALPHA Job #: 20714851

Billing Information

Same as Client Info PO #:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		

14851-01	DOB-20-20071004-01	10/1/07	8:20	GIS	JM
	-02 DEP-21-20071005-01	10/1/07	8:30	GIS	JM

ANALYSIS (HCL)
20071208

SAMPLE HANDLING

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

Sample Specific Comments

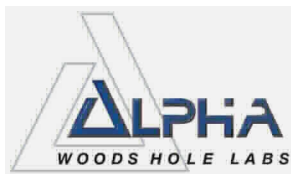
PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
 MAMCPR or CT RCP?

Container Type	Preservative
<u>V</u>	<u>B</u>

Relinquished By:	Date/Time	Received By:	Date/Time
<u>DMB</u>	<u>10/5/07</u>	<u>Dan Samb</u>	<u>10/5/07 12:40</u>
<u>Dan Samb</u>	<u>10/5/07 14:10</u>		

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.



ANALYTICAL REPORT

Lab Number: L0714847

Client: ERM-New England
399 Boylston Street
6th Floor
Boston, MA 02116

ATTN: Jeremy Picard

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Report Date: 10/15/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714847
Report Date: 10/15/07

Alpha Sample ID	Client ID	Sample Location
L0714847-01	MW-553-20071004-01	WAYLAND, MA
L0714847-02	MW-552-20071004-01	WAYLAND, MA
L0714847-03	MW-551-20071004-01	WAYLAND, MA

Project Name: RAYTHEON WAYLAND

Lab Number: L0714847

Project Number: 0061882

Report Date: 10/15/07

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. 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?	N/A

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?	YES
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO

For any questions answered "No", please refer to the case narrative section on the following page(s).

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714847
Report Date: 10/15/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Volatile Organics

L0714847-01, -02, and -03 were processed against a calibration curve that utilized a quadratic fit for 2-Butanone.

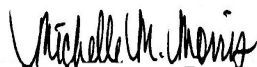
L0714847-01 and -02 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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

Authorized Signature:



Title: Technical Director/Representative

Date: 10/15/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714847**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714847-01
 Client ID: MW-553-20071004-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/14/07 00:01
 Analyst: BS

Date Collected: 10/04/07 12:00
 Date Received: 10/05/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	25	5
1,1-Dichloroethane	ND		ug/l	3.8	5
Chloroform	ND		ug/l	3.8	5
Carbon tetrachloride	ND		ug/l	2.5	5
1,2-Dichloropropane	ND		ug/l	8.8	5
Dibromochloromethane	ND		ug/l	2.5	5
1,1,2-Trichloroethane	ND		ug/l	3.8	5
Tetrachloroethene	22		ug/l	2.5	5
Chlorobenzene	ND		ug/l	2.5	5
1,2-Dichloroethane	ND		ug/l	2.5	5
1,1,1-Trichloroethane	ND		ug/l	2.5	5
Bromodichloromethane	ND		ug/l	2.5	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	5
Bromoform	ND		ug/l	10	5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	5
Chloromethane	ND		ug/l	12	5
Vinyl chloride	ND		ug/l	5.0	5
Chloroethane	ND		ug/l	5.0	5
1,1-Dichloroethene	ND		ug/l	2.5	5
trans-1,2-Dichloroethene	ND		ug/l	3.8	5
Trichloroethene	250		ug/l	2.5	5
1,2-Dichlorobenzene	ND		ug/l	12	5
1,3-Dichlorobenzene	ND		ug/l	12	5
1,4-Dichlorobenzene	ND		ug/l	12	5
cis-1,2-Dichloroethene	65		ug/l	2.5	5
Dichlorodifluoromethane	ND		ug/l	25	5
2,2-Dichloropropane	ND		ug/l	12	5
1,2-Dibromoethane	ND		ug/l	10	5
1,3-Dichloropropane	ND		ug/l	12	5

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714847**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714847-01

Date Collected: 10/04/07 12:00

Client ID: MW-553-20071004-01

Date Received: 10/05/07

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	5
o-Chlorotoluene	ND		ug/l	12	5
p-Chlorotoluene	ND		ug/l	12	5
Hexachlorobutadiene	ND		ug/l	3.0	5
1,2,4-Trichlorobenzene	ND		ug/l	12	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714847**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714847-02
 Client ID: MW-552-20071004-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/14/07 00:39
 Analyst: BS

Date Collected: 10/04/07 12:30
 Date Received: 10/05/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	1000	200
1,1-Dichloroethane	ND		ug/l	150	200
Chloroform	ND		ug/l	150	200
Carbon tetrachloride	ND		ug/l	100	200
1,2-Dichloropropane	ND		ug/l	350	200
Dibromochloromethane	ND		ug/l	100	200
1,1,2-Trichloroethane	ND		ug/l	150	200
Tetrachloroethene	260		ug/l	100	200
Chlorobenzene	ND		ug/l	100	200
1,2-Dichloroethane	ND		ug/l	100	200
1,1,1-Trichloroethane	ND		ug/l	100	200
Bromodichloromethane	ND		ug/l	100	200
trans-1,3-Dichloropropene	ND		ug/l	100	200
cis-1,3-Dichloropropene	ND		ug/l	100	200
Bromoform	ND		ug/l	400	200
1,1,2,2-Tetrachloroethane	ND		ug/l	100	200
Chloromethane	ND		ug/l	500	200
Vinyl chloride	ND		ug/l	200	200
Chloroethane	ND		ug/l	200	200
1,1-Dichloroethene	ND		ug/l	100	200
trans-1,2-Dichloroethene	ND		ug/l	150	200
Trichloroethene	5400		ug/l	100	200
1,2-Dichlorobenzene	ND		ug/l	500	200
1,3-Dichlorobenzene	ND		ug/l	500	200
1,4-Dichlorobenzene	ND		ug/l	500	200
cis-1,2-Dichloroethene	490		ug/l	100	200
Dichlorodifluoromethane	ND		ug/l	1000	200
2,2-Dichloropropane	ND		ug/l	500	200
1,2-Dibromoethane	ND		ug/l	400	200
1,3-Dichloropropane	ND		ug/l	500	200

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714847**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714847-02
 Client ID: MW-552-20071004-01
 Sample Location: WAYLAND, MA

Date Collected: 10/04/07 12:30
 Date Received: 10/05/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	100	200
o-Chlorotoluene	ND		ug/l	500	200
p-Chlorotoluene	ND		ug/l	500	200
Hexachlorobutadiene	ND		ug/l	120	200
1,2,4-Trichlorobenzene	ND		ug/l	500	200

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	110		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714847**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714847-03
 Client ID: MW-551-20071004-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/14/07 01:18
 Analyst: BS

Date Collected: 10/04/07 14:05
 Date Received: 10/05/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	45		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714847**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714847-03

Date Collected: 10/04/07 14:05

Client ID: MW-551-20071004-01

Date Received: 10/05/07

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714847
Report Date: 10/15/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/13/07 16:57
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-03 Batch: WG298110-3				
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
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

Project Name: RAYTHEON WAYLAND

Lab Number: L0714847

Project Number: 0061882

Report Date: 10/15/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B

Analytical Date: 10/13/07 16:57

Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-03 Batch: WG298110-3				

o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
1,2,4-Trichlorobenzene	ND		ug/l	2.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0714847

Project Number: 0061882

Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03 Batch: WG298110-1 WG298110-2					
Methylene chloride	86	84	70-130	2	25
1,1-Dichloroethane	82	83	70-130	1	25
Chloroform	84	86	70-130	2	25
Carbon tetrachloride	79	79	70-130	0	25
1,2-Dichloropropane	81	84	70-130	4	25
Dibromochloromethane	86	86	70-130	0	25
1,1,2-Trichloroethane	77	80	70-130	4	25
Tetrachloroethene	81	82	70-130	1	25
Chlorobenzene	80	83	70-130	4	25
1,2-Dichloroethane	81	82	70-130	1	25
1,1,1-Trichloroethane	82	84	70-130	2	25
Bromodichloromethane	83	83	70-130	0	25
trans-1,3-Dichloropropene	77	78	70-130	1	25
cis-1,3-Dichloropropene	82	84	70-130	2	25
Bromoform	85	86	70-130	1	50
1,1,2,2-Tetrachloroethane	89	93	70-130	4	25
Chloromethane	88	88	70-130	0	50
Vinyl chloride	82	86	70-130	5	25
Chloroethane	83	86	70-130	4	25
1,1-Dichloroethene	82	87	70-130	6	25
trans-1,2-Dichloroethene	84	88	70-130	5	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0714847

Project Number: 0061882

Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03 Batch: WG298110-1 WG298110-2					
Trichloroethene	77	80	70-130	4	25
1,2-Dichlorobenzene	82	82	70-130	0	25
1,3-Dichlorobenzene	84	84	70-130	0	25
1,4-Dichlorobenzene	85	84	70-130	1	25
cis-1,2-Dichloroethene	83	84	70-130	1	25
Dichlorodifluoromethane	100	103	70-130	3	50
2,2-Dichloropropane	88	90	70-130	2	50
1,2-Dibromoethane	80	82	70-130	2	25
1,3-Dichloropropane	79	81	70-130	3	25
1,1,1,2-Tetrachloroethane	78	79	70-130	1	25
o-Chlorotoluene	80	82	70-130	2	25
p-Chlorotoluene	82	84	70-130	2	25
Hexachlorobutadiene	79	85	70-130	7	25
1,2,4-Trichlorobenzene	77	80	70-130	4	25

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		100		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	100		98		70-130
Dibromofluoromethane	105		105		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714847**Project Number:** 0061882**Report Date:** 10/15/07**Sample Receipt and Container Information**

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
L0714847-01A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714847-01B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714847-02A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714847-02B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714847-03A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714847-03B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04

Container Comments

L0714847-01A	Temp Probe
L0714847-01B	Temp Probe
L0714847-02A	Temp Probe
L0714847-02B	Temp Probe
L0714847-03A	Temp Probe
L0714847-03B	Temp Probe

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714847
Report Date: 10/15/07

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD- Laboratory Control Sample Duplicate: Refer to LCS.
MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD - Matrix Spike Sample Duplicate: Refer to MS.
NA - Not Applicable.
NI - Not Ignitable.
NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND - Not detected at the reported detection limit for the sample.
RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Not Specified



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714847
Report Date: 10/15/07

REFERENCES

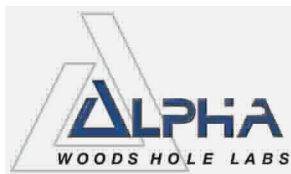
- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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





ANALYTICAL REPORT

Lab Number: L0714750

Client: ERM-New England
399 Boylston Street
6th Floor
Boston, MA 02116

ATTN: Jeremy Picard

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Report Date: 10/15/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714750
Report Date: 10/15/07

Alpha Sample ID	Client ID	Sample Location
L0714750-01	MW-267M-20071003-01	WAYLAND, MA
L0714750-02	MW-261S-20071003-01	WAYLAND, MA
L0714750-03	MW-268D-20071003-01	WAYLAND, MA

Project Name: RAYTHEON WAYLAND

Lab Number: L0714750

Project Number: 0061882

Report Date: 10/15/07

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. 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 methods(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?	N/A
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
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714750
Report Date: 10/15/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Volatile Organics

L0714750-01 and -02 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

In reference to question E:

The WG298005-3/4 LCS % recoveries for Hexachlorobutadiene and 1,4-Dioxane are above the individual acceptance criteria for the compounds, but within the overall method allowances. The LCS/LCSD RPD for Hexachlorobutadiene is above method acceptance criteria.

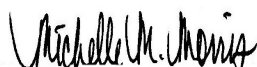
The WG298005-1/2 MS/MSD % recoveries for Trichloroethene are below method acceptance criteria. The MS/MSD RPD for Trichloroethene is above method acceptance criteria.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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

Authorized Signature:



Title: Technical Director/Representative

Date: 10/15/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714750**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714750-01
Client ID: MW-267M-20071003-01
Sample Location: WAYLAND, MA
Matrix: Water
Anaytical Method: 60,8260B
Analytical Date: 10/12/07 17:18
Analyst: BS

Date Collected: 10/03/07 11:05
Date Received: 10/04/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	100	20
1,1-Dichloroethane	ND		ug/l	15	20
Chloroform	ND		ug/l	15	20
Carbon tetrachloride	ND		ug/l	10	20
1,2-Dichloropropane	ND		ug/l	35	20
Dibromochloromethane	ND		ug/l	10	20
1,1,2-Trichloroethane	ND		ug/l	15	20
Tetrachloroethene	34		ug/l	10	20
Chlorobenzene	ND		ug/l	10	20
1,2-Dichloroethane	ND		ug/l	10	20
1,1,1-Trichloroethane	ND		ug/l	10	20
Bromodichloromethane	ND		ug/l	10	20
trans-1,3-Dichloropropene	ND		ug/l	10	20
cis-1,3-Dichloropropene	ND		ug/l	10	20
Bromoform	ND		ug/l	40	20
1,1,2,2-Tetrachloroethane	ND		ug/l	10	20
Chloromethane	ND		ug/l	50	20
Vinyl chloride	ND		ug/l	20	20
Chloroethane	ND		ug/l	20	20
1,1-Dichloroethene	ND		ug/l	10	20
trans-1,2-Dichloroethene	ND		ug/l	15	20
Trichloroethene	540		ug/l	10	20
1,2-Dichlorobenzene	ND		ug/l	50	20
1,3-Dichlorobenzene	ND		ug/l	50	20
1,4-Dichlorobenzene	ND		ug/l	50	20
cis-1,2-Dichloroethene	490		ug/l	10	20
Dichlorodifluoromethane	ND		ug/l	100	20
2,2-Dichloropropane	ND		ug/l	50	20
1,2-Dibromoethane	ND		ug/l	40	20
1,3-Dichloropropane	ND		ug/l	50	20

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714750**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714750-01
 Client ID: MW-267M-20071003-01
 Sample Location: WAYLAND, MA

Date Collected: 10/03/07 11:05
 Date Received: 10/04/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	10	20
o-Chlorotoluene	ND		ug/l	50	20
p-Chlorotoluene	ND		ug/l	50	20
Hexachlorobutadiene	ND		ug/l	12	20
1,2,4-Trichlorobenzene	ND		ug/l	50	20
1,4-Dioxane	ND		ug/l	5000	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	100		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714750**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714750-02
Client ID: MW-261S-20071003-01
Sample Location: WAYLAND, MA
Matrix: Water
Anaytical Method: 60,8260B
Analytical Date: 10/12/07 17:56
Analyst: BS

Date Collected: 10/03/07 09:30
Date Received: 10/04/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	500	100
1,1-Dichloroethane	ND		ug/l	75	100
Chloroform	ND		ug/l	75	100
Carbon tetrachloride	ND		ug/l	50	100
1,2-Dichloropropane	ND		ug/l	180	100
Dibromochloromethane	ND		ug/l	50	100
1,1,2-Trichloroethane	ND		ug/l	75	100
Tetrachloroethene	79		ug/l	50	100
Chlorobenzene	ND		ug/l	50	100
1,2-Dichloroethane	ND		ug/l	50	100
1,1,1-Trichloroethane	ND		ug/l	50	100
Bromodichloromethane	ND		ug/l	50	100
trans-1,3-Dichloropropene	ND		ug/l	50	100
cis-1,3-Dichloropropene	ND		ug/l	50	100
Bromoform	ND		ug/l	200	100
1,1,2,2-Tetrachloroethane	ND		ug/l	50	100
Chloromethane	ND		ug/l	250	100
Vinyl chloride	ND		ug/l	100	100
Chloroethane	ND		ug/l	100	100
1,1-Dichloroethene	ND		ug/l	50	100
trans-1,2-Dichloroethene	ND		ug/l	75	100
Trichloroethene	3300		ug/l	50	100
1,2-Dichlorobenzene	ND		ug/l	250	100
1,3-Dichlorobenzene	ND		ug/l	250	100
1,4-Dichlorobenzene	ND		ug/l	250	100
cis-1,2-Dichloroethene	130		ug/l	50	100
Dichlorodifluoromethane	ND		ug/l	500	100
2,2-Dichloropropane	ND		ug/l	250	100
1,2-Dibromoethane	ND		ug/l	200	100
1,3-Dichloropropane	ND		ug/l	250	100

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714750**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714750-02
 Client ID: MW-261S-20071003-01
 Sample Location: WAYLAND, MA

Date Collected: 10/03/07 09:30
 Date Received: 10/04/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	50	100
o-Chlorotoluene	ND		ug/l	250	100
p-Chlorotoluene	ND		ug/l	250	100
Hexachlorobutadiene	ND		ug/l	60	100
1,2,4-Trichlorobenzene	ND		ug/l	250	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	103		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714750**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714750-03
 Client ID: MW-268D-20071003-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/12/07 18:35
 Analyst: BS

Date Collected: 10/03/07 12:05
 Date Received: 10/04/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	2.0		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	85		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	2.4		ug/l	0.50	1
trans-1,2-Dichloroethene	3.2		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	130		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714750**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714750-03
 Client ID: MW-268D-20071003-01
 Sample Location: WAYLAND, MA

Date Collected: 10/03/07 12:05
 Date Received: 10/04/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,4-Dioxane	ND		ug/l	250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714750
Report Date: 10/15/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/12/07 10:47
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-03 Batch: WG298005-5				
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
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

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714750
Report Date: 10/15/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/12/07 10:47
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-03 Batch: WG298005-5				

o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714750

Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03 Batch: WG298005-3 WG298005-4					
Methylene chloride	106	97	70-130	9	25
1,1-Dichloroethane	103	97	70-130	6	25
Chloroform	102	96	70-130	6	25
Carbon tetrachloride	104	100	70-130	4	25
1,2-Dichloropropane	106	99	70-130	7	25
Dibromochloromethane	112	107	70-130	5	25
1,1,2-Trichloroethane	108	97	70-130	11	25
Tetrachloroethene	108	97	70-130	11	25
Chlorobenzene	111	98	70-130	12	25
1,2-Dichloroethane	104	95	70-130	9	25
1,1,1-Trichloroethane	104	97	70-130	7	25
Bromodichloromethane	112	102	70-130	9	25
trans-1,3-Dichloropropene	114	97	70-130	16	25
cis-1,3-Dichloropropene	114	102	70-130	11	25
Bromoform	119	111	70-130	7	50
1,1,1,2-Tetrachloroethane	121	109	70-130	10	25
Chloromethane	98	86	70-130	13	50
Vinyl chloride	96	86	70-130	11	25
Chloroethane	98	93	70-130	5	25
1,1-Dichloroethene	102	95	70-130	7	25
trans-1,2-Dichloroethene	107	98	70-130	9	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714750

Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03 Batch: WG298005-3 WG298005-4					
Trichloroethene	98	90	70-130	9	25
1,2-Dichlorobenzene	108	98	70-130	10	25
1,3-Dichlorobenzene	113	100	70-130	12	25
1,4-Dichlorobenzene	114	99	70-130	14	25
cis-1,2-Dichloroethene	110	101	70-130	9	25
Dichlorodifluoromethane	84	78	70-130	7	50
2,2-Dichloropropane	113	103	70-130	9	50
1,2-Dibromoethane	112	99	70-130	12	25
1,3-Dichloropropane	109	97	70-130	12	25
1,1,1,2-Tetrachloroethane	110	100	70-130	10	25
o-Chlorotoluene	108	96	70-130	12	25
p-Chlorotoluene	112	98	70-130	13	25
Hexachlorobutadiene	141	105	70-130	29	25
1,2,4-Trichlorobenzene	120	97	70-130	21	25
1,4-Dioxane	143	119	70-130	18	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714750

Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
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Volatile Organics by MCP 8260B Associated sample(s): 01-03 Batch: WG298005-3 WG298005-4

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		95		70-130
Toluene-d8	99		100		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	98		101		70-130

Matrix Spike Analysis Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714750
Report Date: 10/15/07

Parameter	Native Sample	MS Added	MS Found	MS		MSD		Recovery Limits	RPD	RPD Limits
				%Recovery	MSD Found	%Recovery				
Volatile Organics by MCP 8260B Associated sample(s): 01-03 QC Batch ID: WG298005-1 WG298005-2 QC Sample: L0714750-02 Client ID: MW-261S-20071003-01										
Methylene chloride	ND	1000	1100	113	1100	109	70-130	4	30	
1,1-Dichloroethane	ND	1000	1200	115	1100	115	70-130	0	30	
Chloroform	ND	1000	1200	117	1200	116	70-130	1	30	
Carbon tetrachloride	ND	1000	1100	110	1100	109	70-130	1	30	
1,2-Dichloropropane	ND	1000	1100	113	1100	114	70-130	1	30	
Dibromochloromethane	ND	1000	1100	113	1100	113	70-130	0	30	
1,1,2-Trichloroethane	ND	1000	1100	107	1000	105	70-130	2	30	
Tetrachloroethene	79	1000	1200	107	1100	103	70-130	4	30	
Chlorobenzene	ND	1000	1100	110	1100	108	70-130	2	30	
1,2-Dichloroethane	ND	1000	1100	111	1100	110	70-130	1	30	
1,1,1-Trichloroethane	ND	1000	1100	110	1100	110	70-130	0	30	
Bromodichloromethane	ND	1000	1200	120	1200	120	70-130	0	30	
trans-1,3-Dichloropropene	ND	1000	1100	107	1000	105	70-130	2	30	
cis-1,3-Dichloropropene	ND	1000	1200	116	1100	113	70-130	3	30	
Bromoform	ND	1000	1100	111	1100	111	70-130	0	30	
1,1,2,2-Tetrachloroethane	ND	1000	1200	119	1200	119	70-130	0	30	
Chloromethane	ND	1000	1100	108	1000	103	70-130	5	30	
Vinyl chloride	ND	1000	1000	104	1000	103	70-130	1	30	
Chloroethane	ND	1000	1100	113	1100	109	70-130	4	30	
1,1-Dichloroethene	ND	1000	1100	114	1100	112	70-130	2	30	
trans-1,2-Dichloroethene	ND	1000	1000	102	1100	114	70-130	11	30	

Matrix Spike Analysis Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0714750

Project Number: 0061882

Report Date: 10/15/07

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
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Volatile Organics by MCP 8260B Associated sample(s): 01-03 QC Batch ID: WG298005-1 WG298005-2 QC Sample: L0714750-02 Client ID: MW-261S-20071003-01

Trichloroethene	3300	1000	4000	68	3700	41	70-130	50	30
1,2-Dichlorobenzene	ND	1000	1000	105	1000	105	70-130	0	30
1,3-Dichlorobenzene	ND	1000	1100	110	1000	105	70-130	5	30
1,4-Dichlorobenzene	ND	1000	1100	109	1100	107	70-130	2	30
cis-1,2-Dichloroethene	130	1000	1300	117	1200	113	70-130	3	30
Dichlorodifluoromethane	ND	1000	1000	102	980	98	70-130	4	30
2,2-Dichloropropane	ND	1000	1200	118	1100	114	70-130	3	30
1,2-Dibromoethane	ND	1000	1100	110	1100	109	70-130	1	30
1,3-Dichloropropane	ND	1000	1100	109	1100	108	70-130	1	30
1,1,1,2-Tetrachloroethane	ND	1000	1100	112	1100	107	70-130	5	30
o-Chlorotoluene	ND	1000	1100	107	1000	102	70-130	5	30
p-Chlorotoluene	ND	1000	1100	110	1000	105	70-130	5	30
Hexachlorobutadiene	ND	1000	980	99	980	98	70-130	1	30
1,2,4-Trichlorobenzene	ND	1000	970	97	970	97	70-130	0	30
1,4-Dioxane	ND	100000	85000	85	110000	109	70-130	25	30

Surrogate	MS % Recovery	Qualifier	MSD % Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		98		70-130
4-Bromofluorobenzene	98		98		70-130
Dibromofluoromethane	101		104		70-130
Toluene-d8	98		99		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714750**Project Number:** 0061882**Report Date:** 10/15/07**Sample Receipt and Container Information**

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
L0714750-01A	Vial HCl preserved	A	N/A	2.4 C	Y	Absent	MCP-8260-04
L0714750-01B	Vial HCl preserved	A	N/A	2.4 C	Y	Absent	MCP-8260-04
L0714750-02A	Vial HCl preserved	A	N/A	2.4 C	Y	Absent	MCP-8260-04
L0714750-02B	Vial HCl preserved	A	N/A	2.4 C	Y	Absent	MCP-8260-04
L0714750-02C	Vial HCl preserved	A	N/A	2.4 C	Y	Absent	MCP-8260-04
L0714750-02D	Vial HCl preserved	A	N/A	2.4 C	Y	Absent	MCP-8260-04
L0714750-02E	Vial HCl preserved	A	N/A	2.4 C	Y	Absent	MCP-8260-04
L0714750-02F	Vial HCl preserved	A	N/A	2.4 C	Y	Absent	MCP-8260-04
L0714750-03A	Vial HCl preserved	A	N/A	2.4 C	Y	Absent	MCP-8260-04
L0714750-03B	Vial HCl preserved	A	N/A	2.4 C	Y	Absent	MCP-8260-04

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714750
Report Date: 10/15/07

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD- Laboratory Control Sample Duplicate: Refer to LCS.
MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD - Matrix Spike Sample Duplicate: Refer to MS.
NA - Not Applicable.
NI - Not Ignitable.
NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND - Not detected at the reported detection limit for the sample.
RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

- A - Spectra identified as "Aldol Condensation Product".
B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

- H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Not Specified



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714750
Report Date: 10/15/07

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.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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





CHAIN OF CUSTODY

PAGE 1 OF 1

WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

RAYNHAM MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: CR201

Address: 399 BOSTON ST

BOSTON, MA 02116

Phone: 617-646-2800

Fax: 617-267-6447

Email: leah@alpha.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: WYTHEV. WYTHEV

Project Location: WYTHEV, MA

Project #: 0261882

Project Manager: SEAN PIERCE

ALPHA Quote #:

Turn-Around Time

Standard

RUSH (only confirmed if pre-approved!)

Date Due: 10/11

Time:

Date Recd in Lab: 10/14

Report Information - Data Deliverables

FAX EMAIL

PDEX Deliverables

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

MCP

GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

Yes No Are MCP Analytical Methods Required?
 Yes No Are CT RCP (Reasonable Confidence Probocols) Required?

SAMPLE HANDLING

- Done
 - Not needed
 - Lab to do
 - Preservation
 - Lab to do
- (Please specify below)

Sample Specific Comments

ANALYSIS 8021C
14-DIGIT
267M & 268D ONLY

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Date	Time	Container Type Preservative	Date/Time	Received By:	Date/Time	Sample Specific Comments
		Date	Time									
2750	MW-267M-20071003-01	10/3/07	11:05 AM	GW	JM	10/3/07	11:05	V	10/4/07	Don Lamb	10/4/07	
2	MW-2615-20071003-01	10/3/07	9:30	GW	JA	10/3/07	9:30	V	10/4/07	Don Lamb	10/4/07	
2	MW-2615-20071003-01-MSD	10/3/07	9:30	GW	JA	10/3/07	9:30	V	10/4/07	Don Lamb	10/4/07	
3	MW-268D-20071003-01	10/3/07	12:05	GW	JA	10/3/07	12:05	V	10/4/07	Don Lamb	10/4/07	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

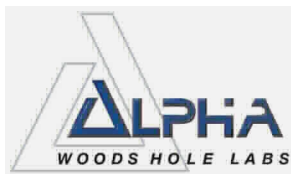
Requested By:

Date/Time

Received By:

Date/Time

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alphas Payment Terms. See reverse side.



ANALYTICAL REPORT

Lab Number: L0714605

Client: ERM-New England
399 Boylston Street
6th Floor
Boston, MA 02116

ATTN: Jeremy Picard

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Report Date: 10/12/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714605
Report Date: 10/12/07

Alpha Sample ID	Client ID	Sample Location
L0714605-01	MW-264M-20071002-01	WAYLAND, MA



Project Name: RAYTHEON WAYLAND

Lab Number: L0714605

Project Number: 0061882

Report Date: 10/12/07

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. 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?	N/A
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
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714605
Report Date: 10/12/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Volatile Organics

L0714605-01 has elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the sample.

In reference to question E:

The WG297742-1/-2 LCS/LCSD % recoveries for Dichlorodifluoromethane are below, and the LCS/LCSD % recoveries for 1,4-Dioxane are above, the individual acceptance criteria for the compounds, but within the overall method allowances. These are both difficult analytes.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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

Authorized Signature: 

Title: Technical Director/Representative

Date: 10/12/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714605**Project Number:** 0061882**Report Date:** 10/12/07**SAMPLE RESULTS**

Lab ID: L0714605-01
Client ID: MW-264M-20071002-01
Sample Location: WAYLAND, MA
Matrix: Water
Anaytical Method: 60,8260B
Analytical Date: 10/11/07 19:27
Analyst: BS

Date Collected: 10/02/07 15:20
Date Received: 10/03/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	10	2
1,1-Dichloroethane	ND		ug/l	1.5	2
Chloroform	ND		ug/l	1.5	2
Carbon tetrachloride	ND		ug/l	1.0	2
1,2-Dichloropropane	ND		ug/l	3.5	2
Dibromochloromethane	ND		ug/l	1.0	2
1,1,2-Trichloroethane	ND		ug/l	1.5	2
Tetrachloroethene	11		ug/l	1.0	2
Chlorobenzene	ND		ug/l	1.0	2
1,2-Dichloroethane	ND		ug/l	1.0	2
1,1,1-Trichloroethane	ND		ug/l	1.0	2
Bromodichloromethane	ND		ug/l	1.0	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	2
Bromoform	ND		ug/l	4.0	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	2
Chloromethane	ND		ug/l	5.0	2
Vinyl chloride	12		ug/l	2.0	2
Chloroethane	ND		ug/l	2.0	2
1,1-Dichloroethene	ND		ug/l	1.0	2
trans-1,2-Dichloroethene	ND		ug/l	1.5	2
Trichloroethene	34		ug/l	1.0	2
1,2-Dichlorobenzene	ND		ug/l	5.0	2
1,3-Dichlorobenzene	ND		ug/l	5.0	2
1,4-Dichlorobenzene	ND		ug/l	5.0	2
cis-1,2-Dichloroethene	150		ug/l	1.0	2
Dichlorodifluoromethane	ND		ug/l	10	2
2,2-Dichloropropane	ND		ug/l	5.0	2
1,2-Dibromoethane	ND		ug/l	4.0	2
1,3-Dichloropropane	ND		ug/l	5.0	2

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714605**Project Number:** 0061882**Report Date:** 10/12/07**SAMPLE RESULTS**

Lab ID: L0714605-01
 Client ID: MW-264M-20071002-01
 Sample Location: WAYLAND, MA

Date Collected: 10/02/07 15:20
 Date Received: 10/03/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	1.0	2
o-Chlorotoluene	ND		ug/l	5.0	2
p-Chlorotoluene	ND		ug/l	5.0	2
Hexachlorobutadiene	ND		ug/l	1.2	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	109		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714605
Report Date: 10/12/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/11/07 14:50
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
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Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG297742-3

Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714605
Report Date: 10/12/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/11/07 14:50
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG297742-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
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	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
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

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714605
Report Date: 10/12/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/11/07 14:50
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
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Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG297742-3

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	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0714605

Project Number: 0061882

Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG297742-1 WG297742-2					
Methylene chloride	100	96	70-130	4	25
1,1-Dichloroethane	105	99	70-130	6	25
Chloroform	112	106	70-130	6	25
Carbon tetrachloride	124	118	70-130	5	25
1,2-Dichloropropane	104	99	70-130	5	25
Dibromochloromethane	107	103	70-130	4	25
1,1,2-Trichloroethane	99	95	70-130	4	25
Tetrachloroethene	116	111	70-130	4	25
Chlorobenzene	105	100	70-130	5	25
Trichlorofluoromethane	124	115	70-130	8	25
1,2-Dichloroethane	111	110	70-130	1	25
1,1,1-Trichloroethane	117	111	70-130	5	25
Bromodichloromethane	111	107	70-130	4	25
trans-1,3-Dichloropropene	103	99	70-130	4	25
cis-1,3-Dichloropropene	107	105	70-130	2	25
1,1-Dichloropropene	108	102	70-130	6	25
Bromoform	110	108	70-130	2	50
1,1,2,2-Tetrachloroethane	92	91	70-130	1	25
Benzene	104	100	70-130	4	25
Toluene	101	98	70-130	3	25
Ethylbenzene	105	100	70-130	5	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714605

Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG297742-1 WG297742-2					
Chloromethane	77	72	70-130	7	50
Bromomethane	97	94	70-130	3	50
Vinyl chloride	88	81	70-130	8	25
Chloroethane	108	100	70-130	8	25
1,1-Dichloroethene	113	105	70-130	7	25
trans-1,2-Dichloroethene	106	102	70-130	4	25
Trichloroethene	110	105	70-130	5	25
1,2-Dichlorobenzene	97	96	70-130	1	25
1,3-Dichlorobenzene	102	100	70-130	2	25
1,4-Dichlorobenzene	99	100	70-130	1	25
Methyl tert butyl ether	103	100	70-130	3	25
p/m-Xylene	107	103	70-130	4	25
o-Xylene	110	104	70-130	6	25
cis-1,2-Dichloroethene	108	103	70-130	5	25
Dibromomethane	111	111	70-130	0	25
1,2,3-Trichloropropane	102	102	70-130	0	25
Styrene	108	104	70-130	4	25
Dichlorodifluoromethane	65	60	70-130	8	50
Acetone	120	102	70-130	16	50
Carbon disulfide	95	89	70-130	7	25
2-Butanone	100	98	70-130	2	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714605

Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG297742-1 WG297742-2					
4-Methyl-2-pentanone	95	98	70-130	3	50
2-Hexanone	91	87	70-130	4	50
Bromochloromethane	113	109	70-130	4	25
Tetrahydrofuran	98	91	70-130	7	25
2,2-Dichloropropane	120	111	70-130	8	50
1,2-Dibromoethane	104	99	70-130	5	25
1,3-Dichloropropane	98	95	70-130	3	25
1,1,1,2-Tetrachloroethane	111	106	70-130	5	25
Bromobenzene	103	102	70-130	1	25
n-Butylbenzene	100	95	70-130	5	25
sec-Butylbenzene	106	102	70-130	4	25
tert-Butylbenzene	106	104	70-130	2	25
o-Chlorotoluene	98	97	70-130	1	25
p-Chlorotoluene	98	94	70-130	4	25
1,2-Dibromo-3-chloropropane	83	89	70-130	7	50
Hexachlorobutadiene	79	74	70-130	7	25
Isopropylbenzene	118	113	70-130	4	25
p-Isopropyltoluene	108	104	70-130	4	25
Naphthalene	81	83	70-130	2	25
n-Propylbenzene	104	101	70-130	3	25
1,2,3-Trichlorobenzene	87	86	70-130	1	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714605

Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG297742-1 WG297742-2					
1,2,4-Trichlorobenzene	90	88	70-130	2	25
1,3,5-Trimethylbenzene	105	102	70-130	3	25
1,2,4-Trimethylbenzene	104	101	70-130	3	25
Ethyl ether	102	99	70-130	3	25
Isopropyl Ether	96	94	70-130	2	25
Ethyl-Tert-Butyl-Ether	105	98	70-130	7	25
Tertiary-Amyl Methyl Ether	104	100	70-130	4	25
1,4-Dioxane	139	137	70-130	1	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103	102	70-130
Toluene-d8	96	96	70-130
4-Bromofluorobenzene	96	97	70-130
Dibromofluoromethane	105	103	70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714605**Project Number:** 0061882**Report Date:** 10/12/07**Sample Receipt and Container Information**

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
L0714605-01A	Vial HCl preserved	A	NA	3.9 C	Y	Absent	MCP-8260-04
L0714605-01B	Vial HCl preserved	A	NA	3.9 C	Y	Absent	MCP-8260-04

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714605
Report Date: 10/12/07

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
 LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
 LCSD- Laboratory Control Sample Duplicate: Refer to LCS.
 MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
 MSD - Matrix Spike Sample Duplicate: Refer to MS.
 NA - Not Applicable.
 NI - Not Ignitable.
 NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
 ND - Not detected at the reported detection limit for the sample.
 RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
 RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

- A - Spectra identified as "Aldol Condensation Product".
 B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
 E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
 J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

- H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714605
Report Date: 10/12/07

REFERENCES

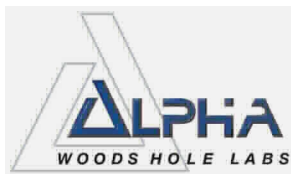
- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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





ANALYTICAL REPORT

Lab Number: L0714603

Client: ERM-New England
399 Boylston Street
6th Floor
Boston, MA 02116

ATTN: Jeremy Picard

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Report Date: 10/12/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714603
Report Date: 10/12/07

Alpha Sample ID	Client ID	Sample Location
L0714603-01	MW-265M-20071002-01	WAYLAND, MA
L0714603-02	MW-266MB-20071002-01	WAYLAND, MA
L0714603-03	MW-266MA-20071002-01	WAYLAND, MA
L0714603-04	MW-268M-20071002-01	WAYLAND, MA
L0714603-05	MW-267S-20071002-01	WAYLAND, MA
L0714603-06	DUP-003-20071002-01	WAYLAND, MA

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714603
Report Date: 10/12/07

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. 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 methods(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?	N/A
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
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: RAYTHEON WAYLAND
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Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Volatile Organics

L0714603-01R, -05, and -06R were processed against a calibration curve that utilized a quadratic fit for 1,4-Dioxane

L0714603-01 and -06 were re-analyzed due to over dilution of the original analyses. The results of the re-analyses are reported.

L0714603-01R, -02, -04, -05, and -06R have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

In reference to question E:

The WG297499-1/2 LCS % recovery for 1,4-Dioxane is above, and the LCSD % recovery for Bromoform is below, the individual acceptance criteria for the compounds, but within the overall method allowances. These are both difficult analytes.

The WG297742-1/2 LCS/LCSD % recoveries for Dichlorodifluoromethane, a difficult analyte, are below and the % recoveries for 1,4-Dioxane are above, the individual acceptance criteria for the compound, but within the overall method allowances.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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

Authorized Signature:



Title: Technical Director/Representative

Date: 10/12/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714603**Project Number:** 0061882**Report Date:** 10/12/07**SAMPLE RESULTS**

Lab ID: L0714603-01 R
 Client ID: MW-265M-20071002-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/11/07 15:42
 Analyst: BS

Date Collected: 10/02/07 11:15
 Date Received: 10/03/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	50	10
1,1-Dichloroethane	ND		ug/l	7.5	10
Chloroform	ND		ug/l	7.5	10
Carbon tetrachloride	ND		ug/l	5.0	10
1,2-Dichloropropane	ND		ug/l	18	10
Dibromochloromethane	ND		ug/l	5.0	10
1,1,2-Trichloroethane	ND		ug/l	7.5	10
Tetrachloroethene	31		ug/l	5.0	10
Chlorobenzene	ND		ug/l	5.0	10
1,2-Dichloroethane	ND		ug/l	5.0	10
1,1,1-Trichloroethane	ND		ug/l	5.0	10
Bromodichloromethane	ND		ug/l	5.0	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	10
Bromoform	ND		ug/l	20	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	10
Chloromethane	ND		ug/l	25	10
Vinyl chloride	70		ug/l	10	10
Chloroethane	ND		ug/l	10	10
1,1-Dichloroethene	ND		ug/l	5.0	10
trans-1,2-Dichloroethene	ND		ug/l	7.5	10
Trichloroethene	200		ug/l	5.0	10
1,2-Dichlorobenzene	ND		ug/l	25	10
1,3-Dichlorobenzene	ND		ug/l	25	10
1,4-Dichlorobenzene	ND		ug/l	25	10
cis-1,2-Dichloroethene	420		ug/l	5.0	10
Dichlorodifluoromethane	ND		ug/l	50	10
2,2-Dichloropropane	ND		ug/l	25	10
1,2-Dibromoethane	ND		ug/l	20	10
1,3-Dichloropropane	ND		ug/l	25	10

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714603**Project Number:** 0061882**Report Date:** 10/12/07**SAMPLE RESULTS**

Lab ID: L0714603-01 R
 Client ID: MW-265M-20071002-01
 Sample Location: WAYLAND, MA

Date Collected: 10/02/07 11:15
 Date Received: 10/03/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	10
o-Chlorotoluene	ND		ug/l	25	10
p-Chlorotoluene	ND		ug/l	25	10
Hexachlorobutadiene	ND		ug/l	6.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714603**Project Number:** 0061882**Report Date:** 10/12/07**SAMPLE RESULTS**

Lab ID: L0714603-02
 Client ID: MW-266MB-20071002-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/10/07 18:58
 Analyst: BS

Date Collected: 10/02/07 12:30
 Date Received: 10/03/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	25	5
1,1-Dichloroethane	ND		ug/l	3.8	5
Chloroform	ND		ug/l	3.8	5
Carbon tetrachloride	ND		ug/l	2.5	5
1,2-Dichloropropane	ND		ug/l	8.8	5
Dibromochloromethane	ND		ug/l	2.5	5
1,1,2-Trichloroethane	ND		ug/l	3.8	5
Tetrachloroethene	22		ug/l	2.5	5
Chlorobenzene	ND		ug/l	2.5	5
1,2-Dichloroethane	ND		ug/l	2.5	5
1,1,1-Trichloroethane	ND		ug/l	2.5	5
Bromodichloromethane	ND		ug/l	2.5	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	5
Bromoform	ND		ug/l	10	5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	5
Chloromethane	ND		ug/l	12	5
Vinyl chloride	ND		ug/l	5.0	5
Chloroethane	ND		ug/l	5.0	5
1,1-Dichloroethene	ND		ug/l	2.5	5
trans-1,2-Dichloroethene	ND		ug/l	3.8	5
Trichloroethene	150		ug/l	2.5	5
1,2-Dichlorobenzene	ND		ug/l	12	5
1,3-Dichlorobenzene	ND		ug/l	12	5
1,4-Dichlorobenzene	ND		ug/l	12	5
cis-1,2-Dichloroethene	160		ug/l	2.5	5
Dichlorodifluoromethane	ND		ug/l	25	5
2,2-Dichloropropane	ND		ug/l	12	5
1,2-Dibromoethane	ND		ug/l	10	5
1,3-Dichloropropane	ND		ug/l	12	5

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714603**Project Number:** 0061882**Report Date:** 10/12/07**SAMPLE RESULTS**

Lab ID: L0714603-02

Date Collected: 10/02/07 12:30

Client ID: MW-266MB-20071002-01

Date Received: 10/03/07

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	5
o-Chlorotoluene	ND		ug/l	12	5
p-Chlorotoluene	ND		ug/l	12	5
Hexachlorobutadiene	ND		ug/l	3.0	5
1,2,4-Trichlorobenzene	ND		ug/l	12	5
1,4-Dioxane	ND		ug/l	1200	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	102		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714603**Project Number:** 0061882**Report Date:** 10/12/07**SAMPLE RESULTS**

Lab ID: L0714603-03

Date Collected: 10/02/07 13:40

Client ID: MW-266MA-20071002-01

Date Received: 10/03/07

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Matrix: Water

Analytical Method: 60,8260B

Analytical Date: 10/10/07 19:37

Analyst: BS

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	0.61		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	28		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	7.6		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714603**Project Number:** 0061882**Report Date:** 10/12/07**SAMPLE RESULTS**

Lab ID: L0714603-03

Date Collected: 10/02/07 13:40

Client ID: MW-266MA-20071002-01

Date Received: 10/03/07

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1
1,4-Dioxane	ND		ug/l	250	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	102		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714603**Project Number:** 0061882**Report Date:** 10/12/07**SAMPLE RESULTS**

Lab ID: L0714603-04
 Client ID: MW-268M-20071002-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/10/07 20:16
 Analyst: BS

Date Collected: 10/02/07 12:20
 Date Received: 10/03/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	500	100
1,1-Dichloroethane	ND		ug/l	75	100
Chloroform	ND		ug/l	75	100
Carbon tetrachloride	ND		ug/l	50	100
1,2-Dichloropropane	ND		ug/l	180	100
Dibromochloromethane	ND		ug/l	50	100
1,1,2-Trichloroethane	ND		ug/l	75	100
Tetrachloroethene	ND		ug/l	50	100
Chlorobenzene	ND		ug/l	50	100
1,2-Dichloroethane	ND		ug/l	50	100
1,1,1-Trichloroethane	ND		ug/l	50	100
Bromodichloromethane	ND		ug/l	50	100
trans-1,3-Dichloropropene	ND		ug/l	50	100
cis-1,3-Dichloropropene	ND		ug/l	50	100
Bromoform	ND		ug/l	200	100
1,1,2,2-Tetrachloroethane	ND		ug/l	50	100
Chloromethane	ND		ug/l	250	100
Vinyl chloride	ND		ug/l	100	100
Chloroethane	ND		ug/l	100	100
1,1-Dichloroethene	ND		ug/l	50	100
trans-1,2-Dichloroethene	ND		ug/l	75	100
Trichloroethene	1700		ug/l	50	100
1,2-Dichlorobenzene	ND		ug/l	250	100
1,3-Dichlorobenzene	ND		ug/l	250	100
1,4-Dichlorobenzene	ND		ug/l	250	100
cis-1,2-Dichloroethene	3000		ug/l	50	100
Dichlorodifluoromethane	ND		ug/l	500	100
2,2-Dichloropropane	ND		ug/l	250	100
1,2-Dibromoethane	ND		ug/l	200	100
1,3-Dichloropropane	ND		ug/l	250	100

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714603**Project Number:** 0061882**Report Date:** 10/12/07**SAMPLE RESULTS**

Lab ID: L0714603-04
 Client ID: MW-268M-20071002-01
 Sample Location: WAYLAND, MA

Date Collected: 10/02/07 12:20
 Date Received: 10/03/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	50	100
o-Chlorotoluene	ND		ug/l	250	100
p-Chlorotoluene	ND		ug/l	250	100
Hexachlorobutadiene	ND		ug/l	60	100
1,2,4-Trichlorobenzene	ND		ug/l	250	100
1,4-Dioxane	ND		ug/l	25000	100

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	102		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714603**Project Number:** 0061882**Report Date:** 10/12/07**SAMPLE RESULTS**

Lab ID: L0714603-05
 Client ID: MW-267S-20071002-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 10/11/07 16:21
 Analyst: BS

Date Collected: 10/02/07 16:15
 Date Received: 10/03/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	25	5
1,1-Dichloroethane	ND		ug/l	3.8	5
Chloroform	ND		ug/l	3.8	5
Carbon tetrachloride	ND		ug/l	2.5	5
1,2-Dichloropropane	ND		ug/l	8.8	5
Dibromochloromethane	ND		ug/l	2.5	5
1,1,2-Trichloroethane	ND		ug/l	3.8	5
Tetrachloroethene	13		ug/l	2.5	5
Chlorobenzene	ND		ug/l	2.5	5
1,2-Dichloroethane	ND		ug/l	2.5	5
1,1,1-Trichloroethane	ND		ug/l	2.5	5
Bromodichloromethane	ND		ug/l	2.5	5
trans-1,3-Dichloropropene	ND		ug/l	2.5	5
cis-1,3-Dichloropropene	ND		ug/l	2.5	5
Bromoform	ND		ug/l	10	5
1,1,2,2-Tetrachloroethane	ND		ug/l	2.5	5
Chloromethane	ND		ug/l	12	5
Vinyl chloride	ND		ug/l	5.0	5
Chloroethane	ND		ug/l	5.0	5
1,1-Dichloroethene	ND		ug/l	2.5	5
trans-1,2-Dichloroethene	ND		ug/l	3.8	5
Trichloroethene	540		ug/l	2.5	5
1,2-Dichlorobenzene	ND		ug/l	12	5
1,3-Dichlorobenzene	ND		ug/l	12	5
1,4-Dichlorobenzene	ND		ug/l	12	5
cis-1,2-Dichloroethene	78		ug/l	2.5	5
Dichlorodifluoromethane	ND		ug/l	25	5
2,2-Dichloropropane	ND		ug/l	12	5
1,2-Dibromoethane	ND		ug/l	10	5
1,3-Dichloropropane	ND		ug/l	12	5

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714603**Project Number:** 0061882**Report Date:** 10/12/07**SAMPLE RESULTS**

Lab ID: L0714603-05
 Client ID: MW-267S-20071002-01
 Sample Location: WAYLAND, MA

Date Collected: 10/02/07 16:15
 Date Received: 10/03/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	5
o-Chlorotoluene	ND		ug/l	12	5
p-Chlorotoluene	ND		ug/l	12	5
Hexachlorobutadiene	ND		ug/l	3.0	5
1,2,4-Trichlorobenzene	ND		ug/l	12	5
1,4-Dioxane	ND		ug/l	1200	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	106		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714603**Project Number:** 0061882**Report Date:** 10/12/07**SAMPLE RESULTS**

Lab ID: L0714603-06 R
Client ID: DUP-003-20071002-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 10/12/07 11:26
Analyst: BS

Date Collected: 10/02/07 00:00
Date Received: 10/03/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	50	10
1,1-Dichloroethane	ND		ug/l	7.5	10
Chloroform	ND		ug/l	7.5	10
Carbon tetrachloride	ND		ug/l	5.0	10
1,2-Dichloropropane	ND		ug/l	18	10
Dibromochloromethane	ND		ug/l	5.0	10
1,1,2-Trichloroethane	ND		ug/l	7.5	10
Tetrachloroethene	15		ug/l	5.0	10
Chlorobenzene	ND		ug/l	5.0	10
1,2-Dichloroethane	ND		ug/l	5.0	10
1,1,1-Trichloroethane	ND		ug/l	5.0	10
Bromodichloromethane	ND		ug/l	5.0	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	10
Bromoform	ND		ug/l	20	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	10
Chloromethane	ND		ug/l	25	10
Vinyl chloride	ND		ug/l	10	10
Chloroethane	ND		ug/l	10	10
1,1-Dichloroethene	ND		ug/l	5.0	10
trans-1,2-Dichloroethene	ND		ug/l	7.5	10
Trichloroethene	570		ug/l	5.0	10
1,2-Dichlorobenzene	ND		ug/l	25	10
1,3-Dichlorobenzene	ND		ug/l	25	10
1,4-Dichlorobenzene	ND		ug/l	25	10
cis-1,2-Dichloroethene	98		ug/l	5.0	10
Dichlorodifluoromethane	ND		ug/l	50	10
2,2-Dichloropropane	ND		ug/l	25	10
1,2-Dibromoethane	ND		ug/l	20	10
1,3-Dichloropropane	ND		ug/l	25	10

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714603**Project Number:** 0061882**Report Date:** 10/12/07**SAMPLE RESULTS**

Lab ID: L0714603-06 R
 Client ID: DUP-003-20071002-01
 Sample Location: WAYLAND, MA

Date Collected: 10/02/07 00:00
 Date Received: 10/03/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	10
o-Chlorotoluene	ND		ug/l	25	10
p-Chlorotoluene	ND		ug/l	25	10
Hexachlorobutadiene	ND		ug/l	6.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	102		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714603
Report Date: 10/12/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/10/07 11:19
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 02-04 Batch: WG297499-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714603
Report Date: 10/12/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/10/07 11:19
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 02-04 Batch: WG297499-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
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	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
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

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714603
Report Date: 10/12/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/10/07 11:19
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 02-04 Batch: WG297499-3				

Parameter	Result	Qualifier	Units	RDL
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	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	102		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714603
Report Date: 10/12/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/11/07 14:50
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01,05 Batch: WG297742-3				

Parameter	Result	Qualifier	Units	RDL
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714603
Report Date: 10/12/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/11/07 14:50
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01,05 Batch: WG297742-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
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	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
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

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714603
Report Date: 10/12/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/11/07 14:50
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01,05 Batch: WG297742-3				

Parameter	Result	Qualifier	Units	RDL
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	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	104		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714603
Report Date: 10/12/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/12/07 10:47
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 06 Batch: WG297742-6				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714603
Report Date: 10/12/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/12/07 10:47
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 06 Batch: WG297742-6				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
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	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
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

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714603
Report Date: 10/12/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/12/07 10:47
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
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Volatile Organics by MCP 8260B for sample(s): 06 Batch: WG297742-6

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	%Recovery	Qualifier	Acceptance Criteria
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1,2-Dichloroethane-d4	95		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0714603

Project Number: 0061882

Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02-04 Batch: WG297499-1 WG297499-2					
Methylene chloride	87	94	70-130	8	25
1,1-Dichloroethane	104	109	70-130	5	25
Chloroform	107	111	70-130	4	25
Carbon tetrachloride	83	87	70-130	5	25
1,2-Dichloropropane	102	106	70-130	4	25
Dibromochloromethane	78	76	70-130	3	25
1,1,2-Trichloroethane	100	101	70-130	1	25
Tetrachloroethene	84	94	70-130	11	25
Chlorobenzene	91	95	70-130	4	25
Trichlorofluoromethane	134	137	70-130	2	25
1,2-Dichloroethane	116	113	70-130	3	25
1,1,1-Trichloroethane	97	104	70-130	7	25
Bromodichloromethane	101	100	70-130	1	25
trans-1,3-Dichloropropene	98	97	70-130	1	25
cis-1,3-Dichloropropene	95	96	70-130	1	25
1,1-Dichloropropene	100	108	70-130	8	25
Bromoform	73	68	70-130	7	50
1,1,2,2-Tetrachloroethane	105	104	70-130	1	25
Benzene	94	101	70-130	7	25
Toluene	91	97	70-130	6	25
Ethylbenzene	93	100	70-130	7	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0714603

Project Number: 0061882

Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02-04 Batch: WG297499-1 WG297499-2					
Chloromethane	96	104	70-130	8	50
Bromomethane	97	90	70-130	7	50
Vinyl chloride	93	100	70-130	7	25
Chloroethane	121	123	70-130	2	25
1,1-Dichloroethene	104	112	70-130	7	25
trans-1,2-Dichloroethene	91	98	70-130	7	25
Trichloroethene	96	106	70-130	10	25
1,2-Dichlorobenzene	91	91	70-130	0	25
1,3-Dichlorobenzene	89	93	70-130	4	25
1,4-Dichlorobenzene	90	93	70-130	3	25
Methyl tert butyl ether	109	113	70-130	4	25
p/m-Xylene	90	98	70-130	9	25
o-Xylene	95	102	70-130	7	25
cis-1,2-Dichloroethene	95	99	70-130	4	25
Dibromomethane	105	102	70-130	3	25
1,2,3-Trichloropropane	123	121	70-130	2	25
Styrene	95	99	70-130	4	25
Dichlorodifluoromethane	81	86	70-130	6	50
Acetone	123	145	70-130	8	50
Carbon disulfide	106	117	70-130	10	25
2-Butanone	121	122	70-130	1	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0714603

Project Number: 0061882

Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02-04 Batch: WG297499-1 WG297499-2					
4-Methyl-2-pentanone	104	108	70-130	4	50
2-Hexanone	110	108	70-130	2	50
Bromochloromethane	96	98	70-130	2	25
Tetrahydrofuran	125	132	70-130	5	25
2,2-Dichloropropane	102	112	70-130	9	50
1,2-Dibromoethane	101	101	70-130	0	25
1,3-Dichloropropane	106	107	70-130	1	25
1,1,1,2-Tetrachloroethane	80	81	70-130	1	25
Bromobenzene	93	92	70-130	1	25
n-Butylbenzene	99	108	70-130	9	25
sec-Butylbenzene	95	107	70-130	12	25
tert-Butylbenzene	91	102	70-130	11	25
o-Chlorotoluene	98	103	70-130	5	25
p-Chlorotoluene	99	102	70-130	3	25
1,2-Dibromo-3-chloropropane	104	100	70-130	4	50
Hexachlorobutadiene	76	89	70-130	16	25
Isopropylbenzene	98	108	70-130	10	25
p-Isopropyltoluene	94	103	70-130	9	25
Naphthalene	95	93	70-130	2	25
n-Propylbenzene	97	108	70-130	11	25
1,2,3-Trichlorobenzene	90	91	70-130	1	25

Lab Control Sample Analysis Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714603
Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02-04 Batch: WG297499-1 WG297499-2					
1,2,4-Trichlorobenzene	86	87	70-130	1	25
1,3,5-Trimethylbenzene	92	99	70-130	7	25
1,2,4-Trimethylbenzene	95	99	70-130	4	25
Ethyl ether	128	127	70-130	1	25
Isopropyl Ether	105	108	70-130	3	25
Ethyl-Tert-Butyl-Ether	107	109	70-130	2	25
Tertiary-Amyl Methyl Ether	105	108	70-130	3	25
1,4-Dioxane	120	138	70-130	14	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		113		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	109		107		70-130
Dibromofluoromethane	100		101		70-130



Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0714603

Project Number: 0061882

Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01,05 Batch: WG297742-1 WG297742-2					
Methylene chloride	100	96	70-130	4	25
1,1-Dichloroethane	105	99	70-130	6	25
Chloroform	112	106	70-130	6	25
Carbon tetrachloride	124	118	70-130	5	25
1,2-Dichloropropane	104	99	70-130	5	25
Dibromochloromethane	107	103	70-130	4	25
1,1,2-Trichloroethane	99	95	70-130	4	25
Tetrachloroethene	116	111	70-130	4	25
Chlorobenzene	105	100	70-130	5	25
Trichlorofluoromethane	124	115	70-130	8	25
1,2-Dichloroethane	111	110	70-130	1	25
1,1,1-Trichloroethane	117	111	70-130	5	25
Bromodichloromethane	111	107	70-130	4	25
trans-1,3-Dichloropropene	103	99	70-130	4	25
cis-1,3-Dichloropropene	107	105	70-130	2	25
1,1-Dichloropropene	108	102	70-130	6	25
Bromoform	110	108	70-130	2	50
1,1,2,2-Tetrachloroethane	92	91	70-130	1	25
Benzene	104	100	70-130	4	25
Toluene	101	98	70-130	3	25
Ethylbenzene	105	100	70-130	5	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0714603

Project Number: 0061882

Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01,05 Batch: WG297742-1 WG297742-2					
Chloromethane	77	72	70-130	7	50
Bromomethane	97	94	70-130	3	50
Vinyl chloride	88	81	70-130	8	25
Chloroethane	108	100	70-130	8	25
1,1-Dichloroethene	113	105	70-130	7	25
trans-1,2-Dichloroethene	106	102	70-130	4	25
Trichloroethene	110	105	70-130	5	25
1,2-Dichlorobenzene	97	96	70-130	1	25
1,3-Dichlorobenzene	102	100	70-130	2	25
1,4-Dichlorobenzene	99	100	70-130	1	25
Methyl tert butyl ether	103	100	70-130	3	25
p/m-Xylene	107	103	70-130	4	25
o-Xylene	110	104	70-130	6	25
cis-1,2-Dichloroethene	108	103	70-130	5	25
Dibromomethane	111	111	70-130	0	25
1,2,3-Trichloropropane	102	102	70-130	0	25
Styrene	108	104	70-130	4	25
Dichlorodifluoromethane	65	60	70-130	8	50
Acetone	120	102	70-130	16	50
Carbon disulfide	95	89	70-130	7	25
2-Butanone	100	98	70-130	2	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0714603

Project Number: 0061882

Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01,05 Batch: WG297742-1 WG297742-2					
4-Methyl-2-pentanone	95	98	70-130	3	50
2-Hexanone	91	87	70-130	4	50
Bromochloromethane	113	109	70-130	4	25
Tetrahydrofuran	98	91	70-130	7	25
2,2-Dichloropropane	120	111	70-130	8	50
1,2-Dibromoethane	104	99	70-130	5	25
1,3-Dichloropropane	98	95	70-130	3	25
1,1,1,2-Tetrachloroethane	111	106	70-130	5	25
Bromobenzene	103	102	70-130	1	25
n-Butylbenzene	100	95	70-130	5	25
sec-Butylbenzene	106	102	70-130	4	25
tert-Butylbenzene	106	104	70-130	2	25
o-Chlorotoluene	98	97	70-130	1	25
p-Chlorotoluene	98	94	70-130	4	25
1,2-Dibromo-3-chloropropane	83	89	70-130	7	50
Hexachlorobutadiene	79	74	70-130	7	25
Isopropylbenzene	118	113	70-130	4	25
p-Isopropyltoluene	108	104	70-130	4	25
Naphthalene	81	83	70-130	2	25
n-Propylbenzene	104	101	70-130	3	25
1,2,3-Trichlorobenzene	87	86	70-130	1	25

Lab Control Sample Analysis Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714603
Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01,05 Batch: WG297742-1 WG297742-2					
1,2,4-Trichlorobenzene	90	88	70-130	2	25
1,3,5-Trimethylbenzene	105	102	70-130	3	25
1,2,4-Trimethylbenzene	104	101	70-130	3	25
Ethyl ether	102	99	70-130	3	25
Isopropyl Ether	96	94	70-130	2	25
Ethyl-Tert-Butyl-Ether	105	98	70-130	7	25
Tertiary-Amyl Methyl Ether	104	100	70-130	4	25
1,4-Dioxane	139	137	70-130	1	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		102		70-130
Toluene-d8	96		96		70-130
4-Bromofluorobenzene	96		97		70-130
Dibromofluoromethane	105		103		70-130



Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0714603

Project Number: 0061882

Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 06 Batch: WG297742-4 WG297742-5					
Methylene chloride	97	106	70-130	9	25
1,1-Dichloroethane	97	103	70-130	6	25
Chloroform	96	102	70-130	6	25
Carbon tetrachloride	100	104	70-130	4	25
1,2-Dichloropropane	99	106	70-130	7	25
Dibromochloromethane	107	112	70-130	5	25
1,1,2-Trichloroethane	97	108	70-130	11	25
Tetrachloroethene	97	108	70-130	11	25
Chlorobenzene	98	111	70-130	12	25
Trichlorofluoromethane	97	103	70-130	6	25
1,2-Dichloroethane	95	104	70-130	9	25
1,1,1-Trichloroethane	97	104	70-130	7	25
Bromodichloromethane	102	112	70-130	9	25
trans-1,3-Dichloropropene	97	114	70-130	16	25
cis-1,3-Dichloropropene	102	114	70-130	11	25
1,1-Dichloropropene	99	109	70-130	10	25
Bromoform	111	119	70-130	7	50
1,1,2,2-Tetrachloroethane	109	121	70-130	10	25
Benzene	97	107	70-130	10	25
Toluene	98	108	70-130	10	25
Ethylbenzene	98	108	70-130	10	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0714603

Project Number: 0061882

Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 06 Batch: WG297742-4 WG297742-5					
Chloromethane	86	98	70-130	13	50
Bromomethane	94	104	70-130	10	50
Vinyl chloride	86	96	70-130	11	25
Chloroethane	93	98	70-130	5	25
1,1-Dichloroethene	95	102	70-130	7	25
trans-1,2-Dichloroethene	98	107	70-130	9	25
Trichloroethene	90	98	70-130	9	25
1,2-Dichlorobenzene	98	108	70-130	10	25
1,3-Dichlorobenzene	100	113	70-130	12	25
1,4-Dichlorobenzene	99	114	70-130	14	25
Methyl tert butyl ether	96	106	70-130	10	25
p/m-Xylene	102	112	70-130	9	25
o-Xylene	104	113	70-130	8	25
cis-1,2-Dichloroethene	101	110	70-130	9	25
Dibromomethane	102	114	70-130	11	25
1,2,3-Trichloropropane	105	122	70-130	15	25
Styrene	104	116	70-130	11	25
Dichlorodifluoromethane	78	84	70-130	7	50
Acetone	95	120	70-130	23	50
Carbon disulfide	83	99	70-130	18	25
2-Butanone	101	107	70-130	6	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0714603

Project Number: 0061882

Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 06 Batch: WG297742-4 WG297742-5					
4-Methyl-2-pentanone	111	114	70-130	3	50
2-Hexanone	102	109	70-130	7	50
Bromochloromethane	100	116	70-130	15	25
Tetrahydrofuran	98	101	70-130	3	25
2,2-Dichloropropane	103	113	70-130	9	50
1,2-Dibromoethane	99	112	70-130	12	25
1,3-Dichloropropane	97	109	70-130	12	25
1,1,1,2-Tetrachloroethane	100	110	70-130	10	25
Bromobenzene	99	113	70-130	13	25
n-Butylbenzene	104	123	70-130	17	25
sec-Butylbenzene	102	115	70-130	12	25
tert-Butylbenzene	100	113	70-130	12	25
o-Chlorotoluene	96	108	70-130	12	25
p-Chlorotoluene	98	112	70-130	13	25
1,2-Dibromo-3-chloropropane	104	118	70-130	13	50
Hexachlorobutadiene	105	141	70-130	29	25
Isopropylbenzene	106	116	70-130	9	25
p-Isopropyltoluene	104	122	70-130	16	25
Naphthalene	104	118	70-130	13	25
n-Propylbenzene	100	111	70-130	10	25
1,2,3-Trichlorobenzene	96	120	70-130	22	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0714603

Project Number: 0061882

Report Date: 10/12/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 06 Batch: WG297742-4 WG297742-5					
1,2,4-Trichlorobenzene	97	120	70-130	21	25
1,3,5-Trimethylbenzene	100	110	70-130	10	25
1,2,4-Trimethylbenzene	100	112	70-130	11	25
Ethyl ether	98	103	70-130	5	25
Isopropyl Ether	95	101	70-130	6	25
Ethyl-Tert-Butyl-Ether	100	109	70-130	9	25
Tertiary-Amyl Methyl Ether	102	109	70-130	7	25
1,4-Dioxane	119	143	70-130	18	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		96		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	100		101		70-130
Dibromofluoromethane	101		98		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714603**Project Number:** 0061882**Report Date:** 10/12/07**Sample Receipt and Container Information**

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
L0714603-01A	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714603-01B	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714603-02A	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714603-02B	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714603-03A	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714603-03B	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714603-04A	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714603-04B	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714603-05A	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714603-05B	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714603-06A	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04
L0714603-06B	Vial HCl preserved	A	N/A	3.9 C	Y	Absent	MCP-8260-04

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714603
Report Date: 10/12/07

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
 LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
 LCSD- Laboratory Control Sample Duplicate: Refer to LCS.
 MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
 MSD - Matrix Spike Sample Duplicate: Refer to MS.
 NA - Not Applicable.
 NI - Not Ignitable.
 NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
 ND - Not detected at the reported detection limit for the sample.
 RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
 RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714603
Report Date: 10/12/07

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.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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





WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

MANFIELD, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 1 OF 1

Client Information

Client: **BLM**

Address: **399 BOSTON ST**

6TH FLOOR, BOSTON, MA 02116

Phone: **617 646 7800**

Fax: **617 267 6449**

Email: **jeremy.pietrod@blm.com**

Project Information

Project Name: **24th Street W/turnout**

Project Location: **W/turnout, MA**

Project #: **0615682**

Project Manager: **Jeremy Pietrod**

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: **10/10** Time:

Other Project Specific Requirements/Comments/Detection Limits:

Date Recd in Lab: **10/3**

Report Information - Data Deliverables

FAX EMAIL

ADEX Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program **MCP** Criteria **GLW-1**

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

Yes No Are MCP Analytical Methods Required?
 Yes No Are CT RCP (Reasonable Confidence Protocols) Required?

Billing Information

ALPHA Job #: **10714603**

Same as Client info PO #:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		

4603.1	MW-265M-20071002-01	10/2/07	11:15	GW	MGM	2			
2	MW-266MB-20071002-01	10/2/07	12:30	GW	MGM	2			
3	MW-266MA-20071002-01	10/2/07	13:40	GW	MGM	2			
4	MW-268M-20071002-01	10/2/07	12:20	GW	HEA	2			
5	MW-267S-20071002-01	10/2/07	10:15	GW	HEA	2			
6	DUP-003-20071002-01	10/2/07	24:00	GW	HEA	2			

ANALYSIS
C by 8260
VOCs 5021 & (MCA)

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

Sample Specific Comments

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO: 01-01 (rev. 30-JUL-07)

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	10/3/07 1400	<i>[Signature]</i>	10/3/07 1135

Container Type	Preservative
V	B

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.

Certificate of Analysis: Quantitative Gene-Trac *Dehalococcoides* Assay

Customer: Jason Flattery, ERM

SiREM Reference: S-1251

Project: Raytheon Wayland

Report Issued: 25-Mar-08

Customer Reference: 0079387

Data Files: DHC-UP-0437/0437

QPCR-0325/QPCR check-gel-0232

Table 1: Test Results

Customer Sample ID	SiREM Sample ID	Sample Collection Date	Sample Matrix	Percent Dhc ^A	<i>Dehalococcoides</i> Enumeration ^B
MW-261S-20080306-01	DHC-3788	6-Mar-08	Groundwater	NA ⁽¹⁾	ND ⁽²⁾
MW-265M-20080306-01	DHC-3790	6-Mar-08	Groundwater	NA ⁽¹⁾	ND ⁽²⁾
MW-266Ma-20080306-01	DHC-3791	6-Mar-08	Groundwater	0.0003-0.001%	3 x 10 ³ /liter ⁽³⁾
MW-266Mb-20080306-01	DHC-3792	6-Mar-08	Groundwater	NA ⁽¹⁾	ND ⁽²⁾
MW-267S-20080306-01	DHC-3793	6-Mar-08	Groundwater	NA ⁽¹⁾	ND ^(2,4)
MW-267M-20080306-01	DHC-3794	6-Mar-08	Groundwater	NA ⁽¹⁾	ND ^(2,4)
MW-268M-20080306-01	DHC-3795	6-Mar-08	Groundwater	NA ⁽¹⁾	ND ^(2,4)
MW-268D-20080306-01	DHC-3796	6-Mar-08	Groundwater	0.01-0.04%	6 x 10 ⁴ /liter
MW-551-20080306-01	DHC-3797	6-Mar-08	Groundwater	NA ⁽¹⁾	ND ⁽²⁾
MW-552-20080306-01	DHC-3798	6-Mar-08	Groundwater	NA ⁽¹⁾	ND ^(2,4)
MW-553-20080306-01	DHC-3799	6-Mar-08	Groundwater	NA ⁽¹⁾	ND ⁽²⁾
DUP-001-20080306-01	DHC-3800	6-Mar-08	Groundwater	NA ⁽¹⁾	ND ^(2,4)

Certificate of Analysis: Quantitative Gene-Trac *Dehalococcoides* Assay

Notes:

^A Percent *Dehalococcoides* (Dhc) in microbial population. This value is calculated by dividing the number of Dhc 16S ribosomal ribonucleic acid (rRNA) gene copies by the total number of bacteria as estimated by the mass of DNA extracted from the sample.

^BBased on quantification of Dhc 16S rRNA gene copies. Dhc are generally reported to contain one 16S rRNA gene copy per cell; therefore, this number is often interpreted to represent the number of Dhc cells present in the sample.

NA = not applicable

ND= not detected

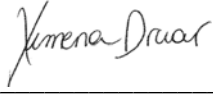
¹Not applicable as *Dehalococcoides* not detected.

²Not detected. The quantitation limit is 4×10^3 /liter.

³*Dehalococcoides* DNA detected but below sample specific quantitation limit. The sample specific quantitation limit is 4×10^3 /liter. Additional explanation provided in: Interpretation of Quantitative Gene-Trac *Dehalococcoides* Test Results.

⁴Sample inhibited testing; this increases the probability that test result is a false negative.

Analyst: 
Jennifer Wilkinson
Biotechnology Technologist

Approved: 
Ximena Druar, B.Sc.
Molecular Biology Coordinator

Certificate of Analysis: Gene-Trac-VC, Vinyl Chloride Reductase Assay (*vcrA*) Assay

Customer: Jason Flattery, ERM
Project: Raytheon Wayland
Customer Reference: 0079387

SiREM Reference: S-1251
Report Issued: 25-Mar-08
Data Files: VC-QPCR-0119

Table 1: Test Results

Customer Sample ID	SiREM Sample ID	Sample Collection Date	Sample Matrix	Percent <i>vcrA</i> ^A	Vinyl Chloride Reductase (<i>vcrA</i>) Gene Copies
MW-266Ma-20080306-01	VCR-0781	6-Mar-08	Groundwater	NA ⁽¹⁾	ND ⁽²⁾
MW-268D-20080306-01	VCR-0782	6-Mar-08	Groundwater	NA ⁽¹⁾	ND ⁽²⁾


Notes:

^A Percent *vcrA* in microbial population. This value is calculated by dividing the number of vinyl chloride reductase A (*vcrA*) gene copies quantified by the total number of bacteria estimated to be in the sample based on the mass of DNA extracted from the sample. Range represents normal variation in enumeration of *vcrA*.

NA = not applicable
ND= not detected

¹Not applicable as *vcrA* not detected.

²Not detected. The sample specific quantitation limit is 4 x 10³/liter.

Analyst: 
Jennifer Wilkinson
Biotechnology Technologist


Approved: 
Ximena Druar, B.Sc.
Molecular Biology Coordinator

Table 2.1: Detailed Test Parameters, Gene-Trac Test Reference S-1251

Customer Sample ID	MW-261S-20080306-01	MW-265M-20080306-01	MW-266Ma-20080306-01	MW-266Mb-20080306-01
SiREM Test ID	DHC-3788	DHC-3790	DHC-3791/VCR-0781	DHC-3792
Date Received	7-Mar-08	7-Mar-08	7-Mar-08	7-Mar-08
Sample Temperature	8.5 °C	8.5 °C	8.5 °C	8.5 °C
Volume Used for DNA Extraction	500 mL	500 mL	500 mL	500 mL
DNA Extraction Date	18-Mar-08	18-Mar-08	18-Mar-08	18-Mar-08
DNA Concentration in Sample (extractable)	2665 ng/L	1324 ng/L	2505 ng/L	2612 ng/L
Extracted DNA Quality Test (universal PCR primers)	ND	ND	ND	ND
Secondary DNA Purification	R	R	R	R
DNA Repurification Date	24-Mar-08	24-Mar-08	24-Mar-08	24-Mar-08
Extracted DNA Quality Test (after repurification)	Passed	Passed	Passed	Passed
Dhc qPCR Analysis Date	24-Mar-08	24-Mar-08	24-Mar-08	24-Mar-08
vcrA qPCR Analysis Date	NA	NA	25-Mar-08	NA
qPCR Controls (see Table 3)	Passed	Passed	Passed	Passed
Comments	--	--	--	--

Notes:

Refer to Table 3 & 4 for detailed results of control
 NR = not required
 ND = not detected
 °C = degrees Celsius

PCR = polymerase chain reaction
 qPCR = quantitative PCR
 Dhc = *Dehalococcoides*

ng/L = nanograms per liter
 mL = milliliters
 DNA = Deoxyribonucleic acid

Table 2.2: Detailed Test Parameters, Gene-Trac Test Reference S-1251

Customer Sample ID	MW-267S-20080306-01	MW-267M-20080306-01	MW-268M-20080306-01	MW-268D-20080306-01
SiREM Test ID	DHC-3793	DHC-3794	DHC-3795	DHC-3796/VCR-0782
Date Received	7-Mar-08	7-Mar-08	7-Mar-08	7-Mar-08
Sample Temperature	8.5 °C	8.5 °C	8.5 °C	8.5 °C
Volume Used for DNA Extraction	500 mL	500 mL	500 mL	500 mL
DNA Extraction Date	18-Mar-08	18-Mar-08	18-Mar-08	18-Mar-08
DNA Concentration in Sample (extractable)	1547 ng/L	1497 ng/L	1582 ng/L	863 ng/L
Extracted DNA Quality Test (universal PCR primers)	ND	ND	ND	ND
Secondary DNA Purification	R	R	R	R
DNA Repurification Date	24-Mar-08	24-Mar-08	24-Mar-08	24-Mar-08
Extracted DNA Quality Test (after repurification)	ND	ND	ND	Passed
Dhc qPCR Analysis Date	24-Mar-08	24-Mar-08	24-Mar-08	24-Mar-08
vcrA qPCR Analysis Date	NA	NA	NA	25-Mar-08
qPCR Controls (see Table 3)	Passed	Passed	Passed	Passed
Comments	--	--		--

Notes:

Refer to Table 3 & 4 for detailed results of control

NR = not required

ND = not detected

°C = degrees Celsius

PCR = polymerase chain reaction

qPCR = quantitative PCR

Dhc = *Dehalococcoides*

ng/L = nanograms per liter

mL = milliliters

DNA = Deoxyribonucleic acid

Table 2.3: Detailed Test Parameters, Gene-Trac Test Reference S-1251

Customer Sample ID	MW-551-20080306-01	MW-552-20080306-01	MW-553-20080306-01	DUP-001-20080306-01
SiREM Test ID	DHC-3797	DHC-3798	DHC-3799	DHC-3800
Date Received	7-Mar-08	7-Mar-08	7-Mar-08	7-Mar-08
Sample Temperature	8.5 °C	8.5 °C	8.5 °C	8.5 °C
Volume Used for DNA Extraction	500 mL	500 mL	500 mL	500 mL
DNA Extraction Date	18-Mar-08	18-Mar-08	18-Mar-08	18-Mar-08
DNA Concentration in Sample (extractable)	911 ng/L	1147 ng/L	953 ng/L	936 ng/L
Extracted DNA Quality Test (universal PCR primers)	ND	ND	ND	ND
Secondary DNA Purification	R	R	R	R
DNA Repurification Date	24-Mar-08	24-Mar-08	24-Mar-08	24-Mar-08
Extracted DNA Quality Test (after repurification)	Passed	ND	Passed	ND
Dhc qPCR Analysis Date	24-Mar-08	24-Mar-08	24-Mar-08	24-Mar-08
vcrA qPCR Analysis Date	NA	NA	NA	NA
qPCR Controls (see Table 3)	Passed	Passed	Passed	Passed
Comments	--	--		--

Notes:

Refer to Table 3 & 4 for detailed results of control

NR = not required

ND = not detected

°C = degrees Celsius

PCR = polymerase chain reaction

qPCR = quantitative PCR

Dhc = *Dehalococcoides*

ng/L = nanograms per liter

mL = milliliters

DNA = Deoxyribonucleic acid

Table 3: Gene-Trac-DHC Experimental Control Results, Gene-Trac Test Reference S-1251

Laboratory Control	Analysis Date	Control Description	Spiked Dhc 16S rRNA Gene Copies per Reaction	Recovered Dhc 16S rRNA Gene Copies per Reaction	Comments
Positive Control Low Concentration	24-Mar-08	qPCR with cloned Dhc gene (9.13 x 10 ⁵ copies)	9.13 x 10 ⁵	1.33 x 10 ⁶	Normal ¹
Positive Control High Concentration	24-Mar-08	qPCR with cloned Dhc gene (9.13 x 10 ⁷ copies)	9.13 x 10 ⁷	9.05 x 10 ⁷	Normal ¹
DNA Extraction Blank	24-Mar-08	DNA extraction sterile water (DB-0737)	0	ND	Normal
Negative Control	24-Mar-08	Tris Reagent Blank	0	ND	Normal

Notes:

¹ Within defined limits of +/- 50%

Dhc = *Dehalococcoides*

DNA = Deoxyribonucleic acid

NA = not applicable

ND = not detected

qPCR = quantitative PCR

16S rRNA = 16S ribosomal ribonucleic acid

Table 4: Gene-Trac-VC Experimental Control Results, Gene-Trac Test Reference S-1251

Laboratory Control	Analysis Date	Control Description	Spiked <i>vcrA</i> reductase Gene Copies per Reaction	Recovered <i>vcrA</i> reductase Gene Copies per Reaction	Comments
Positive Control Low Concentration	25-Mar-08	qPCR with cloned vinyl chloride dehalogenase gene (1.41 x 10 ⁵ copies)	1.41 x 10 ⁵	1.36 x 10 ⁵	Normal ¹
Positive Control High Concentration	25-Mar-08	qPCR with cloned vinyl chloride dehalogenase gene (1.41 x 10 ⁷ copies)	1.41 x 10 ⁷	1.34 x 10 ⁷	Normal ¹
DNA Extraction Blank	25-Mar-08	DNA extraction sterile water (DB-0737)	0	ND	Normal
Negative Control	25-Mar-08	Tris Reagent Blank	0	ND	Normal

Notes:

NA = not applicable

ND = not detected

¹ Within defined limits of +/- 50%

qPCR = quantitative PCR

Dhc = *Dehalococcoides*

DNA = Deoxyribonucleic acid

16S rRNA = 16S ribosomal ribonucleic acid

vcrA = vinyl chloride reductase

Certificate of Analysis: Quantitative Gene-Trac *Dehalococcoides* Assay

Customer: Jason Flattery, ERM

SiREM Reference: S-1251

Project: Raytheon Wayland

Report Issued: 25-Mar-08

Customer Reference: 0079387

Data Files: DHC-UP-0437/0437
 QPCR-0325/QPCR check-gel-0232

Table 1: Test Results

Customer Sample ID	SiREM Sample ID	Sample Collection Date	Sample Matrix	Percent Dhc ^A	<i>Dehalococcoides</i> Enumeration ^B
MW-264M-20080306-01	DHC-3789	6-Mar-08	Groundwater	NA ⁽¹⁾	ND ⁽²⁾

Notes:

^A Percent *Dehalococcoides* (Dhc) in microbial population. This value is calculated by dividing the number of Dhc 16S ribosomal ribonucleic acid (rRNA) gene copies by the total number of bacteria as estimated by the mass of DNA extracted from the sample. Range represents normal variation in Dhc enumeration.

^BBased on quantification of Dhc 16S rRNA gene copies. Dhc are generally reported to contain one 16S rRNA gene copy per cell; therefore, this number is often interpreted to represent the number of Dhc cells present in the sample.

NA = not applicable

ND= not detected

¹Not applicable as *Dehalococcoides* not detected.

²Not detected. The quantitation limit is 4 x 10³/liter.

Analyst:



Jennifer Wilkinson
 Biotechnology Technologist

Approved:



Ximena Druar, B.Sc.
 Molecular Biology Coordinator

Table 2: Detailed Test Parameters, Gene-Trac Test Reference S-1251

Customer Sample ID	MW-264M-20080306-01
SiREM Test ID	DHC-3789
Date Received	7-Mar-08
Sample Temperature	8.5 °C
Volume Used for DNA Extraction	500 mL
DNA Extraction Date	18-Mar-08
DNA Concentration in Sample (extractable)	1102 ng/L
Extracted DNA Quality Test (universal PCR primers)	ND
Secondary DNA Purification	R
DNA Repurification Date	39531
Extracted DNA Quality Test (after repurification)	Passed
Dhc qPCR Analysis Date	24-Mar-08
qPCR Controls (see Table 3)	Passed
Comments	--

Notes:

Refer to Table 3 for detailed results of controls.
 NA = not applicable
 ND = not detected
 mL = milliliters

PCR = polymerase chain reaction
 qPCR = quantitative PCR
 Dhc = *Dehalococcoides*
 ng/L = nanograms per liter

NR = not required
 R = required
 DNA = Deoxyribonucleic acid
 °C = degrees Celsius

Table 3: Experimental Control Results, Test Reference S-1251

Laboratory Control	Analysis Date	Control Description	Spiked Dhc 16S rRNA Gene Copies per Reaction	Recovered Dhc 16S rRNA Gene Copies per Reaction	Comments
Positive Control Low Concentration	24-Mar-08	qPCR with cloned Dhc gene (9.13 x 10 ⁵ copies)	9.13 x 10 ⁵	1.33 x 10 ⁶	Normal ¹
Positive Control High Concentration	24-Mar-08	qPCR with cloned Dhc gene (9.13 x 10 ⁷ copies)	9.13 x 10 ⁷	9.05 x 10 ⁷	Normal ¹
DNA Extraction Blank	24-Mar-08	DNA extraction sterile water (DB-0737)	0	ND	Normal
Negative Control	24-Mar-08	Tris Reagent Blank	0	ND	Normal

Notes:

¹ Within defined limits of +/- 50%

Dhc = *Dehalococcoides*

DNA = Deoxyribonucleic acid

NA = not applicable

ND = not detected

qPCR = quantitative PCR

16S rRNA = 16S ribosomal ribonucleic acid



CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab:

ALPHA Job #: S-1251

WESTBORO, MA TEL: 508-898-9220
RAYNHAM, MA TEL: 508-822-9300
FAX: 508-898-9193 FAX: 508-822-3288

Project Information

Project Name: Ryan Weyland
Project Location: Weyland MA
Project #: 0079387
Project Manager: S. Claffey
ALPHA Quote #:

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #:

Client Information

Client: ERM
Address: 319 Boylston St.
Boston MA 02166
Phone: 617-646-7800
Fax: 617-267-6447
Email: Jason.Claffey@erm.com
 These samples have been previously analyzed by Alpha

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: Time:

Regulatory Requirements/Report Limits

State /Fed Program: MA Criteria: GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

Yes No Are MCP Analytical Methods Required?
 Yes No Are CT RCP (Reasonable Confidence Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS
Gene Trac VC
Gene Trac D/E

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

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Sample Specific Comments	TOTAL # BOTTLES
		Date	Time				
	<u>MAW-552-20080306-01</u>	<u>3/6/08</u>	<u>1442</u>		<u>J J</u>		<u>1</u>
	<u>MAW-553-20070306-01</u>	<u>↓</u>	<u>1641</u>		<u>X X</u>		<u>1</u>
	<u>DUP-001-20080306-01</u>	<u>↓</u>	<u>2400</u>		<u>X</u>		<u>1</u>
<hr/>							

PLEASE ANSWER QUESTIONS ABOVE!
IS YOUR PROJECT MA MCP or CT RCP?

Container Type: P
Preservative: AX

Relinquished By:	Date/Time	Received By:	Date/Time
		<u>J. Wilkerson</u>	<u>3/7/08 12:30</u>

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.

Client Name: ERM
Contact: Jason Flattery
Address: 399 Boylston Street
6th Floor
Boston, MA 02116

Page: Page 1 of 15
Lab Proj #: P0803069
Report Date: 03/18/08
Client Proj Name: Wayland
Client Proj #: Wayland

Laboratory Results

Total pages in data package: _____

Lab Sample #	Client Sample ID		
P0803069-01	DEP-19M-20080306-0 1	P0803069-14	DUP-001-20080306-0 1
P0803069-02	MW-261S-20080306-0 1		
P0803069-03	MW-264M-20080306-01		
P0803069-04	MW-265M-20080306-01		
P0803069-05	MW-266MA-20080306-01		
P0803069-06	MW-266MB-20080306-01		
P0803069-07	MW-267S-20080306-01		
P0803069-08	MW-267M-20080306-01		
P0803069-09	MW-268M-20080306-01		
P0803069-10	MW-268D-20080306-01		
P0803069-11	MW-551-20080306-01		
P0803069-12	MW552-20080306-01		
P0803069-13	MW-553-20080306-01		

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: _____ **Date:** _____

Project Manager: Debbie Hallo

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

*As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.*

Case Narrative:

Client Name: ERM
Contact: Jason Flattery
Address: 399 Boylston Street
6th Floor
Boston, MA 02116

Page: Page 2 of 15
Lab Proj #: P0803069
Report Date: 03/18/08
Client Proj Name: Wayland
Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
DEP-19M-20080306-01	Water	P0803069-01	06 Mar. 08 16:15	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<u>RiskAnalysis</u>						
N Ethane	0.039	0.025	ug/L	AM20GAX	3/17/08	rw
N Ethene	0.130	0.025	ug/L	AM20GAX	3/17/08	rw
N Methane	0.480	0.100	ug/L	AM20GAX	3/17/08	rw



Client Name: ERM
 Contact: Jason Flattery
 Address: 399 Boylston Street
 6th Floor
 Boston, MA 02116

Page: Page 3 of 15
 Lab Proj #: P0803069
 Report Date: 03/18/08
 Client Proj Name: Wayland
 Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW-261S-20080306-01	Water	P0803069-02	06 Mar. 08 12:00	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<u>RiskAnalysis</u>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	rw
N Ethene	0.100	0.025	ug/L	AM20GAX	3/17/08	rw
N Methane	0.270	0.100	ug/L	AM20GAX	3/17/08	rw



Client Name: ERM
 Contact: Jason Flattery
 Address: 399 Boylston Street
 6th Floor
 Boston, MA 02116

Page: Page 4 of 15
 Lab Proj #: P0803069
 Report Date: 03/18/08
 Client Proj Name: Wayland
 Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW-264M-20080306-01	Water	P0803069-03	06 Mar. 08 14:45	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<u>RiskAnalysis</u>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	rw
N Ethene	0.200	0.025	ug/L	AM20GAX	3/17/08	rw
N Methane	7.900	0.100	ug/L	AM20GAX	3/17/08	rw



Client Name: ERM
 Contact: Jason Flattery
 Address: 399 Boylston Street
 6th Floor
 Boston, MA 02116

Page: Page 5 of 15
 Lab Proj #: P0803069
 Report Date: 03/18/08
 Client Proj Name: Wayland
 Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW-265M-20080306-01	Water	P0803069-04	06 Mar. 08 9:45	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<u>RiskAnalysis</u>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	rw
N Ethene	1.800	0.025	ug/L	AM20GAX	3/17/08	rw
N Methane	4.700	0.100	ug/L	AM20GAX	3/17/08	rw



Client Name: ERM
 Contact: Jason Flattery
 Address: 399 Boylston Street
 6th Floor
 Boston, MA 02116

Page: Page 6 of 15
 Lab Proj #: P0803069
 Report Date: 03/18/08
 Client Proj Name: Wayland
 Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW-266MA-20080306-01	Water	P0803069-05	06 Mar. 08 13:45	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<u>RiskAnalysis</u>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	rw
N Ethene	0.034	0.025	ug/L	AM20GAX	3/17/08	rw
N Methane	19.000	0.100	ug/L	AM20GAX	3/17/08	rw



Client Name: ERM
Contact: Jason Flattery
Address: 399 Boylston Street
6th Floor
Boston, MA 02116

Page: Page 7 of 15
Lab Proj #: P0803069
Report Date: 03/18/08
Client Proj Name: Wayland
Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW-266MB-20080306-01	Water	P0803069-06	06 Mar. 08 15:25	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<u>RiskAnalysis</u>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	rw
N Ethene	0.370	0.025	ug/L	AM20GAX	3/17/08	rw
N Methane	4.500	0.100	ug/L	AM20GAX	3/17/08	rw



Client Name: ERM
 Contact: Jason Flattery
 Address: 399 Boylston Street
 6th Floor
 Boston, MA 02116

Page: Page 8 of 15
 Lab Proj #: P0803069
 Report Date: 03/18/08
 Client Proj Name: Wayland
 Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW-267S-20080306-01	Water	P0803069-07	06 Mar. 08 10:00	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<u>RiskAnalysis</u>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	rw
N Ethene	0.680	0.025	ug/L	AM20GAX	3/17/08	rw
N Methane	440.000	0.100	ug/L	AM20GAX	3/17/08	rw



Client Name: ERM
 Contact: Jason Flattery
 Address: 399 Boylston Street
 6th Floor
 Boston, MA 02116

Page: Page 9 of 15
 Lab Proj #: P0803069
 Report Date: 03/18/08
 Client Proj Name: Wayland
 Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW-267M-20080306-01	Water	P0803069-08	06 Mar. 08 11:20	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<u>RiskAnalysis</u>						
N Ethane	0.028	0.025	ug/L	AM20GAX	3/17/08	rw
N Ethene	0.490	0.025	ug/L	AM20GAX	3/17/08	rw
N Methane	59.000	0.100	ug/L	AM20GAX	3/17/08	rw



Client Name: ERM
Contact: Jason Flattery
Address: 399 Boylston Street
6th Floor
Boston, MA 02116

Page: Page 10 of 15
Lab Proj #: P0803069
Report Date: 03/18/08
Client Proj Name: Wayland
Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW-268M-20080306-01	Water	P0803069-09	06 Mar. 08 11:45	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<u>RiskAnalysis</u>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	rw
N Ethene	1.800	0.025	ug/L	AM20GAX	3/17/08	rw
N Methane	37.000	0.100	ug/L	AM20GAX	3/17/08	rw



Client Name: ERM
Contact: Jason Flattery
Address: 399 Boylston Street
6th Floor
Boston, MA 02116

Page: Page 11 of 15
Lab Proj #: P0803069
Report Date: 03/18/08
Client Proj Name: Wayland
Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW-268D-20080306-01	Water	P0803069-10	06 Mar. 08 12:30	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<u>RiskAnalysis</u>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	rw
N Ethene	<0.025	0.025	ug/L	AM20GAX	3/17/08	rw
N Methane	23.000	0.100	ug/L	AM20GAX	3/17/08	rw



Client Name: ERM
 Contact: Jason Flattery
 Address: 399 Boylston Street
 6th Floor
 Boston, MA 02116

Page: Page 12 of 15
 Lab Proj #: P0803069
 Report Date: 03/18/08
 Client Proj Name: Wayland
 Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW-551-20080306-01	Water	P0803069-11	06 Mar. 08 16:30	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<u>RiskAnalysis</u>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	mm
N Ethene	<0.025	0.025	ug/L	AM20GAX	3/17/08	mm
N Methane	1.600	0.100	ug/L	AM20GAX	3/17/08	mm



Client Name: ERM
 Contact: Jason Flattery
 Address: 399 Boylston Street
 6th Floor
 Boston, MA 02116

Page: Page 13 of 15
 Lab Proj #: P0803069
 Report Date: 03/18/08
 Client Proj Name: Wayland
 Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW552-20080306-01	Water	P0803069-12	06 Mar. 08 14:42	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<u>RiskAnalysis</u>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	mm
N Ethene	0.300	0.025	ug/L	AM20GAX	3/17/08	mm
N Methane	27.000	0.100	ug/L	AM20GAX	3/17/08	mm



Client Name: ERM
 Contact: Jason Flattery
 Address: 399 Boylston Street
 6th Floor
 Boston, MA 02116

Page: Page 14 of 15
 Lab Proj #: P0803069
 Report Date: 03/18/08
 Client Proj Name: Wayland
 Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
MW-553-20080306-01	Water	P0803069-13	06 Mar. 08 16:41	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<u>RiskAnalysis</u>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	mm
N Ethene	0.170	0.025	ug/L	AM20GAX	3/17/08	mm
N Methane	0.940	0.100	ug/L	AM20GAX	3/17/08	mm



Client Name: ERM
 Contact: Jason Flattery
 Address: 399 Boylston Street
 6th Floor
 Boston, MA 02116

Page: Page 15 of 15
 Lab Proj #: P0803069
 Report Date: 03/18/08
 Client Proj Name: Wayland
 Client Proj #: Wayland

<u>Sample Description</u>	<u>Matrix</u>	<u>Lab Sample #</u>	<u>Sampled Date/Time</u>	<u>Received</u>		
DUP-001-20080306-01	Water	P0803069-14	06 Mar. 08 0:00	07 Mar. 08 10:23		
<u>Analyte(s)</u>	<u>Result</u>	<u>PQL</u>	<u>Units</u>	<u>Method #</u>	<u>Analysis Date</u>	<u>By</u>
<u>RiskAnalysis</u>						
N Ethane	<0.025	0.025	ug/L	AM20GAX	3/17/08	mm
N Ethene	1.600	0.025	ug/L	AM20GAX	3/17/08	mm
N Methane	32.000	0.100	ug/L	AM20GAX	3/17/08	mm





ANALYTICAL REPORT

Lab Number:	L0803236
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Project Name:	RAYTHEON-WAYLAND
Project Number:	0079387
Report Date:	03/14/08

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0803236
Report Date: 03/14/08

Alpha Sample ID	Client ID	Sample Location
L0803236-01	MW-261S-20080306-01	WAYLAND, MA
L0803236-02	MW-265M-20080306-01	WAYLAND, MA
L0803236-03	MW-266MA-20080306-01	WAYLAND, MA
L0803236-04	MW-266MB-20080306-01	WAYLAND, MA
L0803236-05	MW-267S-20080306-01	WAYLAND, MA
L0803236-06	MW-267M-20080306-01	WAYLAND, MA
L0803236-07	MW-268M-20080306-01	WAYLAND, MA
L0803236-08	MW-268D-20080306-01	WAYLAND, MA
L0803236-09	MW-551-20080306-01	WAYLAND, MA
L0803236-10	MW-552-20080306-01	WAYLAND, MA
L0803236-11	MW-553-20080306-01	WAYLAND, MA
L0803236-12	DUP-001-20080306-01	WAYLAND, MA
L0803236-13	DUP-002-20080306	WAYLAND, MA
L0803236-14	TB-001-20080306-01	WAYLAND, MA

Project Name: RAYTHEON-WAYLAND

Lab Number: L0803236

Project Number: 0079387

Report Date: 03/14/08

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. 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 methods(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?	N/A
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?	YES
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0803236
Report Date: 03/14/08

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Report Submission

The analysis of Volatile Organics by Method 8260B was performed at our Mansfield facility. The report is included as an addendum, and the results can be viewed on ADEx under Alpha Job L0803480.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Metals

In reference to question F:

All samples were analyzed for a subset of MCP elements per the Chain of Custody.

Non-MCP Related Narratives

Sulfate

L0803236-01, -05, -06, -07, and -12 have elevated detection limits due to the dilutions required to quantitate the results within the calibration curve.

TOC

L0803236-05, -07, -11, and -12 have elevated detection limits due to the dilutions required by the matrix of the samples.

Total Phosphorus

L0803236-05 has an elevated detection limit due to the dilution required to quantitate the result within the calibration curve.

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

Authorized Signature:



Title: Technical Director/Representative

Date: 03/14/08

METALS

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0803236**Project Number:** 0079387**Report Date:** 03/14/08**SAMPLE RESULTS**

Lab ID: L0803236-01

Date Collected: 03/06/08 12:00

Client ID: MW-261S-20080306-01

Date Received: 03/07/08

Sample Location: WAYLAND, MA

Field Prep: Field Filtered

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Iron, Dissolved	5.8		mg/l	0.05	1	03/08/08 13:45	03/10/08 14:05	EPA 3005A	60,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0803236**Project Number:** 0079387**Report Date:** 03/14/08**SAMPLE RESULTS**

Lab ID: L0803236-02

Date Collected: 03/06/08 09:45

Client ID: MW-265M-20080306-01

Date Received: 03/07/08

Sample Location: WAYLAND, MA

Field Prep: Field Filtered

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Iron, Dissolved	0.52		mg/l	0.05	1	03/08/08 13:45	03/10/08 14:08	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0803236**Project Number:** 0079387**Report Date:** 03/14/08**SAMPLE RESULTS**

Lab ID: L0803236-03

Date Collected: 03/06/08 13:45

Client ID: MW-266MA-20080306-01

Date Received: 03/07/08

Sample Location: WAYLAND, MA

Field Prep: Field Filtered

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Iron, Dissolved	4.9		mg/l	0.05	1	03/08/08 13:45	03/10/08 14:11	EPA 3005A	60,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0803236**Project Number:** 0079387**Report Date:** 03/14/08**SAMPLE RESULTS**

Lab ID: L0803236-04

Date Collected: 03/06/08 15:25

Client ID: MW-266MB-20080306-01

Date Received: 03/07/08

Sample Location: WAYLAND, MA

Field Prep: Field Filtered

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Iron, Dissolved	21		mg/l	0.05	1	03/08/08 13:45	03/10/08 14:15	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0803236**Project Number:** 0079387**Report Date:** 03/14/08**SAMPLE RESULTS**

Lab ID: L0803236-05

Date Collected: 03/06/08 10:00

Client ID: MW-267S-20080306-01

Date Received: 03/07/08

Sample Location: WAYLAND, MA

Field Prep: Field Filtered

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Iron, Dissolved	23		mg/l	0.05	1	03/08/08 13:45	03/10/08 14:18	EPA 3005A	60,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0803236**Project Number:** 0079387**Report Date:** 03/14/08**SAMPLE RESULTS**

Lab ID: L0803236-06

Date Collected: 03/06/08 11:20

Client ID: MW-267M-20080306-01

Date Received: 03/07/08

Sample Location: WAYLAND, MA

Field Prep: Field Filtered

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Iron, Dissolved	20		mg/l	0.05	1	03/08/08 13:45	03/10/08 14:21	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0803236**Project Number:** 0079387**Report Date:** 03/14/08**SAMPLE RESULTS**

Lab ID: L0803236-07

Date Collected: 03/06/08 11:45

Client ID: MW-268M-20080306-01

Date Received: 03/07/08

Sample Location: WAYLAND, MA

Field Prep: Field Filtered

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Iron, Dissolved	21		mg/l	0.05	1	03/08/08 13:45	03/10/08 14:25	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0803236**Project Number:** 0079387**Report Date:** 03/14/08**SAMPLE RESULTS**

Lab ID: L0803236-08

Date Collected: 03/06/08 12:30

Client ID: MW-268D-20080306-01

Date Received: 03/07/08

Sample Location: WAYLAND, MA

Field Prep: Field Filtered

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Iron, Dissolved	0.08		mg/l	0.05	1	03/08/08 13:45	03/10/08 14:31	EPA 3005A	60,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0803236**Project Number:** 0079387**Report Date:** 03/14/08**SAMPLE RESULTS**

Lab ID: L0803236-09

Date Collected: 03/06/08 16:30

Client ID: MW-551-20080306-01

Date Received: 03/07/08

Sample Location: WAYLAND, MA

Field Prep: Field Filtered

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Iron, Dissolved	3.2		mg/l	0.05	1	03/08/08 13:45	03/10/08 14:34	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0803236**Project Number:** 0079387**Report Date:** 03/14/08**SAMPLE RESULTS**

Lab ID: L0803236-10

Date Collected: 03/06/08 14:42

Client ID: MW-552-20080306-01

Date Received: 03/07/08

Sample Location: WAYLAND, MA

Field Prep: Field Filtered

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Iron, Dissolved	0.07		mg/l	0.05	1	03/08/08 13:45	03/10/08 14:37	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0803236**Project Number:** 0079387**Report Date:** 03/14/08**SAMPLE RESULTS**

Lab ID: L0803236-11

Date Collected: 03/06/08 16:41

Client ID: MW-553-20080306-01

Date Received: 03/07/08

Sample Location: WAYLAND, MA

Field Prep: Field Filtered

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Iron, Dissolved	ND		mg/l	0.05	1	03/08/08 13:45	03/10/08 14:58	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0803236**Project Number:** 0079387**Report Date:** 03/14/08**SAMPLE RESULTS**

Lab ID: L0803236-12

Date Collected: 03/06/08 00:00

Client ID: DUP-001-20080306-01

Date Received: 03/07/08

Sample Location: WAYLAND, MA

Field Prep: Field Filtered

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Iron, Dissolved	21		mg/l	0.05	1	03/08/08 13:45	03/10/08 15:01	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND

Lab Number: L0803236

Project Number: 0079387

Report Date: 03/14/08

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series for sample(s): 01-12 Batch: WG313976-1								
Iron, Dissolved	ND	mg/l	0.05	1	03/08/08 13:45	03/10/08 13:13	60,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0803236

Project Number: 0079387

Report Date: 03/14/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals by MCP 6000/7000 series Associated sample(s): 01-12 Batch: WG313976-2 WG313976-3					
Iron, Dissolved	94	92	80-120	2	20

INORGANICS & MISCELLANEOUS

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0803236
Report Date: 03/14/08

SAMPLE RESULTS

Lab ID: L0803236-01
Client ID: MW-261S-20080306-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 03/06/08 12:00
Date Received: 03/07/08
Field Prep: Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Nitrogen, Nitrate	ND		mg/l	0.10	1	-	03/07/08 21:58	30,4500NO3-F	DD
Phosphorus, Total	0.04		mg/l	0.01	1	-	03/11/08 15:00	30,4500P-E	HS
Sulfate	70		mg/l	20	2	03/11/08 14:30	03/11/08 14:30	1,9038	ST
Total Organic Carbon	1.1		mg/l	0.50	1	-	03/14/08 06:20	1,9060	DW



Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0803236
Report Date: 03/14/08

SAMPLE RESULTS

Lab ID: L0803236-02
Client ID: MW-265M-20080306-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 03/06/08 09:45
Date Received: 03/07/08
Field Prep: Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Nitrogen, Nitrate	ND		mg/l	0.10	1	-	03/07/08 21:58	30,4500NO3-F	DD
Phosphorus, Total	ND		mg/l	0.01	1	-	03/11/08 15:00	30,4500P-E	HS
Sulfate	34		mg/l	10	1	03/11/08 14:30	03/11/08 14:30	1,9038	ST
Total Organic Carbon	2.6		mg/l	0.50	1	-	03/14/08 06:20	1,9060	DW



Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0803236
Report Date: 03/14/08

SAMPLE RESULTS

Lab ID: L0803236-03
Client ID: MW-266MA-20080306-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 03/06/08 13:45
Date Received: 03/07/08
Field Prep: Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Nitrogen, Nitrate	ND		mg/l	0.10	1	-	03/07/08 21:59	30,4500NO3-F	DD
Phosphorus, Total	ND		mg/l	0.01	1	-	03/11/08 15:00	30,4500P-E	HS
Sulfate	24		mg/l	10	1	03/11/08 14:30	03/11/08 14:30	1,9038	ST
Total Organic Carbon	0.68		mg/l	0.50	1	-	03/14/08 06:20	1,9060	DW



Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0803236
Report Date: 03/14/08

SAMPLE RESULTS

Lab ID: L0803236-04
Client ID: MW-266MB-20080306-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 03/06/08 15:25
Date Received: 03/07/08
Field Prep: Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Nitrogen, Nitrate	ND		mg/l	0.10	1	-	03/07/08 22:00	30,4500NO3-F	DD
Phosphorus, Total	0.05		mg/l	0.01	1	-	03/11/08 15:00	30,4500P-E	HS
Sulfate	30		mg/l	10	1	03/11/08 14:30	03/11/08 14:30	1,9038	ST
Total Organic Carbon	1.1		mg/l	0.50	1	-	03/14/08 06:20	1,9060	DW



Project Name: RAYTHEON-WAYLAND

Lab Number: L0803236

Project Number: 0079387

Report Date: 03/14/08

SAMPLE RESULTS

Lab ID: L0803236-05
 Client ID: MW-267S-20080306-01
 Sample Location: WAYLAND, MA
 Matrix: Water

Date Collected: 03/06/08 10:00
 Date Received: 03/07/08
 Field Prep: Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Nitrogen, Nitrate	ND		mg/l	0.10	1	-	03/07/08 22:00	30,4500NO3-F	DD
Phosphorus, Total	2.3		mg/l	0.05	5	-	03/11/08 15:00	30,4500P-E	HS
Sulfate	63		mg/l	20	2	03/11/08 14:30	03/11/08 14:30	1,9038	ST
Total Organic Carbon	1.2		mg/l	1.0	2	-	03/14/08 06:20	1,9060	DW



Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0803236
Report Date: 03/14/08

SAMPLE RESULTS

Lab ID: L0803236-06
Client ID: MW-267M-20080306-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 03/06/08 11:20
Date Received: 03/07/08
Field Prep: Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Nitrogen, Nitrate	ND		mg/l	0.10	1	-	03/07/08 22:01	30,4500NO3-F	DD
Phosphorus, Total	0.07		mg/l	0.01	1	-	03/11/08 15:00	30,4500P-E	HS
Sulfate	56		mg/l	20	2	03/11/08 14:30	03/11/08 14:30	1,9038	ST
Total Organic Carbon	1.2		mg/l	0.50	1	-	03/14/08 06:20	1,9060	DW



Project Name: RAYTHEON-WAYLAND

Lab Number: L0803236

Project Number: 0079387

Report Date: 03/14/08

SAMPLE RESULTS

Lab ID: L0803236-07
 Client ID: MW-268M-20080306-01
 Sample Location: WAYLAND, MA
 Matrix: Water

Date Collected: 03/06/08 11:45
 Date Received: 03/07/08
 Field Prep: Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Nitrogen, Nitrate	ND		mg/l	0.10	1	-	03/07/08 22:11	30,4500NO3-F	DD
Phosphorus, Total	0.84		mg/l	0.01	1	-	03/11/08 15:00	30,4500P-E	HS
Sulfate	64		mg/l	20	2	03/11/08 14:30	03/11/08 14:30	1,9038	ST
Total Organic Carbon	2.4		mg/l	1.0	2	-	03/14/08 06:20	1,9060	DW



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0803236**Project Number:** 0079387**Report Date:** 03/14/08**SAMPLE RESULTS**

Lab ID: L0803236-08
Client ID: MW-268D-20080306-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 03/06/08 12:30
Date Received: 03/07/08
Field Prep: Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Nitrogen, Nitrate	ND		mg/l	0.10	1	-	03/07/08 22:11	30,4500NO3-F	DD
Phosphorus, Total	0.04		mg/l	0.01	1	-	03/11/08 15:00	30,4500P-E	HS
Sulfate	36		mg/l	10	1	03/11/08 14:30	03/11/08 14:30	1,9038	ST
Total Organic Carbon	0.55		mg/l	0.50	1	-	03/14/08 06:20	1,9060	DW



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0803236**Project Number:** 0079387**Report Date:** 03/14/08**SAMPLE RESULTS**

Lab ID: L0803236-09
Client ID: MW-551-20080306-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 03/06/08 16:30
Date Received: 03/07/08
Field Prep: Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Nitrogen, Nitrate	0.10		mg/l	0.10	1	-	03/07/08 22:12	30,4500NO3-F	DD
Phosphorus, Total	0.09		mg/l	0.01	1	-	03/11/08 15:00	30,4500P-E	HS
Sulfate	34		mg/l	10	1	03/11/08 14:30	03/11/08 14:30	1,9038	ST
Total Organic Carbon	0.57		mg/l	0.50	1	-	03/14/08 06:20	1,9060	DW



Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0803236
Report Date: 03/14/08

SAMPLE RESULTS

Lab ID: L0803236-10
Client ID: MW-552-20080306-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 03/06/08 14:42
Date Received: 03/07/08
Field Prep: Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Nitrogen, Nitrate	ND		mg/l	0.10	1	-	03/07/08 22:13	30,4500NO3-F	DD
Phosphorus, Total	0.04		mg/l	0.01	1	-	03/11/08 15:00	30,4500P-E	HS
Sulfate	38		mg/l	10	1	03/11/08 14:30	03/11/08 14:30	1,9038	ST
Total Organic Carbon	1.9		mg/l	0.50	1	-	03/14/08 06:20	1,9060	DW



Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0803236
Report Date: 03/14/08

SAMPLE RESULTS

Lab ID: L0803236-11
Client ID: MW-553-20080306-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 03/06/08 16:41
Date Received: 03/07/08
Field Prep: Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Nitrogen, Nitrate	ND		mg/l	0.10	1	-	03/07/08 22:14	30,4500NO3-F	DD
Phosphorus, Total	0.07		mg/l	0.01	1	-	03/11/08 15:00	30,4500P-E	HS
Sulfate	25		mg/l	10	1	03/11/08 14:30	03/11/08 14:30	1,9038	ST
Total Organic Carbon	1.1		mg/l	1.0	2	-	03/14/08 06:20	1,9060	DW



Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0803236
Report Date: 03/14/08

SAMPLE RESULTS

Lab ID: L0803236-12
Client ID: DUP-001-20080306-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 03/06/08 00:00
Date Received: 03/07/08
Field Prep: Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Nitrogen, Nitrate	ND		mg/l	0.10	1	-	03/07/08 22:15	30,4500NO3-F	DD
Phosphorus, Total	0.79		mg/l	0.01	1	-	03/11/08 15:00	30,4500P-E	HS
Sulfate	61		mg/l	20	2	03/11/08 14:30	03/11/08 14:30	1,9038	ST
Total Organic Carbon	2.2		mg/l	1.0	2	-	03/14/08 06:20	1,9060	DW



Project Name: RAYTHEON-WAYLAND

Lab Number: L0803236

Project Number: 0079387

Report Date: 03/14/08

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry for sample(s): 01-12 Batch: WG313926-2								
Nitrogen, Nitrate	ND	mg/l	0.10	1	-	03/07/08 21:57	30,4500NO3-F	DD
General Chemistry for sample(s): 01-12 Batch: WG314166-1								
Sulfate	ND	mg/l	10	1	03/11/08 14:30	03/11/08 14:30	1,9038	ST
General Chemistry for sample(s): 01-12 Batch: WG314220-1								
Phosphorus, Total	ND	mg/l	0.01	1	-	03/11/08 15:00	30,4500P-E	HS
General Chemistry for sample(s): 01-12 Batch: WG314534-1								
Total Organic Carbon	ND	mg/l	0.50	1	-	03/14/08 06:20	1,9060	DW

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Project Number: 0079387

Lab Number: L0803236

Report Date: 03/14/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Associated sample(s): 01-12 Batch: WG313926-1					
Nitrogen, Nitrate	104	-	90-110	-	
Associated sample(s): 01-12 Batch: WG314166-2					
Sulfate	105	-	84-108	-	
Associated sample(s): 01-12 Batch: WG314220-2					
Phosphorus, Total	105	-	85-115	-	
Associated sample(s): 01-12 Batch: WG314534-2					
Total Organic Carbon	98	-	90-110	-	

Matrix Spike Analysis Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0803236

Project Number: 0079387

Report Date: 03/14/08

Parameter	Native Sample	MS Added	MS Found	MS	MSD Found	MSD	Recovery Limits	RPD	RPD Limits
				%Recovery		%Recovery			
Associated sample(s): 01-12 QC Batch ID: WG313926-3 QC Sample: L0803236-08 Client ID: MW-268D-20080306-01									
Nitrogen, Nitrate	ND	4	4.2	105	-	-	83-120	-	6
Associated sample(s): 01-12 QC Batch ID: WG314166-3 QC Sample: L0803236-11 Client ID: MW-553-20080306-01									
Sulfate	25	40	70	112	-	-	55-147	-	14
Associated sample(s): 01-12 QC Batch ID: WG314220-4 QC Sample: L0803236-02 Client ID: MW-265M-20080306-01									
Phosphorus, Total	ND	0.5	0.49	99	-	-	80-120	-	20
Associated sample(s): 01-12 QC Batch ID: WG314534-3 QC Sample: L0803236-06 Client ID: MW-267M-20080306-01									
Total Organic Carbon	1.2	4	5.0	94	-	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Project Number: 0079387

Lab Number: L0803236

Report Date: 03/14/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Associated sample(s): 01-12 QC Batch ID: WG313926-4 QC Sample: L0803236-10 Client ID: MW-552-20080306-01					
Nitrogen, Nitrate	ND	ND	mg/l	NC	6
Associated sample(s): 01-12 QC Batch ID: WG314166-4 QC Sample: L0803236-11 Client ID: MW-553-20080306-01					
Sulfate	25	24	mg/l	4	14
Associated sample(s): 01-12 QC Batch ID: WG314220-3 QC Sample: L0803236-01 Client ID: MW-261S-20080306-01					
Phosphorus, Total	0.04	0.04	mg/l	5	20
Associated sample(s): 01-12 QC Batch ID: WG314534-4 QC Sample: L0803236-04 Client ID: MW-266MB-20080306-01					
Total Organic Carbon	1.1	1.0	mg/l	10	20

Project Name: RAYTHEON-WAYLAND

Lab Number: L0803236

Project Number: 0079387

Report Date: 03/14/08

Sample Receipt and Container Information

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
L0803236-01A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-01B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-01C	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-01D	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-01E	Plastic 250ml HNO3 preserved	A	<2	2.2C	Y	Absent	MCP-FE-6010S
L0803236-01F	Plastic 500ml unpreserved	A	7	2.2C	Y	Absent	NO3-4500,SO4-9038
L0803236-01G	Plastic 500ml H2SO4 preserved	A	<2	2.2C	Y	Absent	TPHOS-4500
L0803236-02A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-02B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-02C	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-02D	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-02E	Plastic 250ml HNO3 preserved	A	<2	2.2C	Y	Absent	MCP-FE-6010S
L0803236-02F	Plastic 500ml unpreserved	A	7	2.2C	Y	Absent	NO3-4500,SO4-9038
L0803236-02G	Plastic 500ml H2SO4 preserved	A	<2	2.2C	Y	Absent	TPHOS-4500
L0803236-03A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-03B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-03C	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-03D	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-03E	Plastic 250ml HNO3 preserved	A	<2	2.2C	Y	Absent	MCP-FE-6010S
L0803236-03F	Plastic 500ml unpreserved	A	7	2.2C	Y	Absent	NO3-4500,SO4-9038
L0803236-03G	Plastic 500ml H2SO4 preserved	A	<2	2.2C	Y	Absent	TPHOS-4500
L0803236-04A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-04B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-04C	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-04D	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-04E	Plastic 250ml HNO3 preserved	A	<2	2.2C	Y	Absent	MCP-FE-6010S
L0803236-04F	Plastic 500ml unpreserved	A	7	2.2C	Y	Absent	NO3-4500,SO4-9038
L0803236-04G	Plastic 500ml H2SO4 preserved	A	<2	2.2C	Y	Absent	TPHOS-4500
L0803236-05A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-05B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260

Project Name: RAYTHEON-WAYLAND

Project Number: 0079387

Lab Number: L0803236

Report Date: 03/14/08

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0803236-05C	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-05D	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-05E	Plastic 250ml HNO3 preserved	A	<2	2.2C	Y	Absent	MCP-FE-6010S
L0803236-05F	Plastic 500ml unpreserved	A	7	2.2C	Y	Absent	NO3-4500,SO4-9038
L0803236-05G	Plastic 500ml H2SO4 preserved	A	<2	2.2C	Y	Absent	TPHOS-4500
L0803236-06A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-06B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-06C	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-06D	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-06E	Plastic 250ml HNO3 preserved	A	<2	2.2C	Y	Absent	MCP-FE-6010S
L0803236-06F	Plastic 500ml unpreserved	A	7	2.2C	Y	Absent	NO3-4500,SO4-9038
L0803236-06G	Plastic 500ml H2SO4 preserved	A	<2	2.2C	Y	Absent	TPHOS-4500
L0803236-07A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-07B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-07C	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-07D	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-07E	Plastic 250ml HNO3 preserved	A	<2	2.2C	Y	Absent	MCP-FE-6010S
L0803236-07F	Plastic 500ml unpreserved	A	7	2.2C	Y	Absent	NO3-4500,SO4-9038
L0803236-07G	Plastic 500ml H2SO4 preserved	A	<2	2.2C	Y	Absent	TPHOS-4500
L0803236-08A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-08B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-08C	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-08D	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-08E	Plastic 250ml HNO3 preserved	A	<2	2.2C	Y	Absent	MCP-FE-6010S
L0803236-08F	Plastic 500ml unpreserved	A	7	2.2C	Y	Absent	NO3-4500,SO4-9038
L0803236-08G	Plastic 500ml H2SO4 preserved	A	<2	2.2C	Y	Absent	TPHOS-4500
L0803236-09A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-09B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-09C	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-09D	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-09E	Plastic 250ml HNO3 preserved	A	<2	2.2C	Y	Absent	MCP-FE-6010S
L0803236-09F	Plastic 500ml unpreserved	A	7	2.2C	Y	Absent	NO3-4500,SO4-9038
L0803236-09G	Plastic 500ml H2SO4 preserved	A	<2	2.2C	Y	Absent	TPHOS-4500
L0803236-10A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-10B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-10C	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060

Project Name: RAYTHEON-WAYLAND

Project Number: 0079387

Lab Number: L0803236

Report Date: 03/14/08

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0803236-10D	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-10E	Plastic 250ml HNO3 preserved	A	<2	2.2C	Y	Absent	MCP-FE-6010S
L0803236-10F	Plastic 500ml unpreserved	A	7	2.2C	Y	Absent	NO3-4500,SO4-9038
L0803236-10G	Plastic 500ml H2SO4 preserved	A	<2	2.2C	Y	Absent	TPHOS-4500
L0803236-11A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-11B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-11C	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-11D	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-11E	Plastic 250ml HNO3 preserved	A	<2	2.2C	Y	Absent	MCP-FE-6010S
L0803236-11F	Plastic 500ml unpreserved	A	7	2.2C	Y	Absent	NO3-4500,SO4-9038
L0803236-11G	Plastic 500ml H2SO4 preserved	A	<2	2.2C	Y	Absent	TPHOS-4500
L0803236-12A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-12B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-12C	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-12D	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803236-12E	Plastic 250ml HNO3 preserved	A	<2	2.2C	Y	Absent	MCP-FE-6010S
L0803236-12F	Plastic 500ml unpreserved	A	7	2.2C	Y	Absent	NO3-4500,SO4-9038
L0803236-12G	Plastic 500ml H2SO4 preserved	A	<2	2.2C	Y	Absent	TPHOS-4500
L0803236-13A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-13B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803236-14A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0803236
Report Date: 03/14/08

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
 LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
 LCSD- Laboratory Control Sample Duplicate: Refer to LCS.
 MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
 MSD - Matrix Spike Sample Duplicate: Refer to MS.
 NA - Not Applicable.
 NI - Not Ignitable.
 NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
 ND - Not detected at the reported detection limit for the sample.
 RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
 RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Not Specified



Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0803236
Report Date: 03/14/08

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 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.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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



ALPHA
WATER SOLUTIONS

WESTBORO, MA TEL: 508-898-9220
 RAYNHAM, MA TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-9288

CHAIN OF CUSTODY

PAGE 1 OF 2

Project Information

Project Name: RAYNES WYANDS

Project Location: WYANDS, MA

Project #: 0079387

Project Manager: JASON FLETCHER

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: 3/14/08

Time:

Other Project Specific Requirements/Comments/Detection Limits:

Date Recd in Lab: 3/7/08

Report Information - Data Deliverables

FAX EMAIL

ADEX Add'l Deliverables

Billing Information

Same as Client info

PO #:

ALPHA Job #: 20803236

Regulatory Requirements/Report Limits

State / Fed Program

Criteria

MA MCP

Method 1 GW-1

MA MCP PRESUMPTIVE CERTAINTY -- CT REASONABLE CONFIDENCE PROTOCOLS

Yes No Are MCP Analytical Methods Required?
 Yes No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS
 CROCS 80216 by 8260
 TOTAL PHOSPHORUS
 SULFATE & NITRATE
 DES. Fe (field filtered)
 TOC

SAMPLE HANDLING
 Done
 Lab to do
 Lab to do
 Lab to do
 (please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS						Sample Specific Comments
		Date	Time			CROCS 80216 by 8260	TOTAL PHOSPHORUS	SULFATE & NITRATE	DES. Fe (field filtered)	TOC	Filtration	
03236.1	MW-2615-20030306-01	3/6/08	12:00	GW	JDF	2	1	1	1	2		
2	MW-265M-20030306-01		09:45		EB	2	1	1	1	2		
3	MW-261M-20030306-01		13:45		JM	2	1	1	1	2		
4	MW-261M-20030306-01		15:25		JM	2	1	1	1	2		
5	MW-2615-20030306-01		10:00		JM	2	1	1	1	2		
6	MW-261M-20030306-01		11:20		JM	2	1	1	1	2		
7	MW-261M-20030306-01		11:45		EB	2	1	1	1	2		
8	MW-261D-20030306-01		12:30		EB	2	1	1	1	2		
9	MW-551-20030306-01		16:30		EB	2	1	1	1	2		
10	MW-552-20030306-01		14:42		JDF	2	1	1	1	2		

PLEASE ANSWER QUESTIONS ABOVE!

**IS YOUR PROJECT
 MA MCP or CT RCP?**

Relinquished By:

Date/Time

Received By:

Date/Time

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

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities resolved. All samples submitted subject to Alpha's Payment Terms. See reverse side.



WESTBORO, MA
TEL: 508-822-9300
FAX: 508-822-3288

RAYNHAM, MA
TEL: 508-822-9300
FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 2 OF 2

Project Information

Project Name: Raytheon-Wayland

Project Location: Wayland, MA

Project #: 0279337

Project Manager: Susan Flattery

ALPHA Quote #:

Turn-Around Time

Address: 399 Boston St. 02116

Phone: 617-646-7800

Fax: 617-267-6447

Email: Jason.Flattery@com.com

Other Project Specific Requirements/Comments/Detection Limits:

Date Recd in Lab: 3/17/08

Report Information - Data Deliverables

FAX EMAIL

ADEX Add'l Deliverables

Regulatory Requirements/Report Limits

State /Fed Program MA MCP Criteria Method 1 GW-1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

Yes No Are MCP Analytical Methods Required?
 Yes No Are CT RCP (Reasonable Confidence Protocols) Required?

Billing Information

Same as Client info PO #:

ALPHA Job #: 20803236

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS												
		Date	Time			CVOCs 80218 by 8260 TOTAL PHOSPHORUS SULFATE & NITRATE Diss. Fe (field filtered) TOC												
03236.11	MW-553-20080306-01	3/6/08	16:41	GW	JDF	2	1	1	1	2								
12	DUP-001-20080306-01		24:00		EB	2	1	1	1	2								
13	DUP-002-20080306-01		24:00		JDF	2												
14	TB-001-20080306-01	2/4/08	14:30	TB	KOSB	1												

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

Relinquished By:	Date/Time	Received By:	Date/Time
<u>[Signature]</u>	<u>3/10/08 11:44 AM</u>	<u>[Signature]</u>	<u>3/10/08 11:57</u>

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

FORM NO: 01-01 (rev. 10-OCT-05)

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.



ANALYTICAL REPORT

Prepared for:
Alpha Analytical - Westborough
8 Walkup Drive
Westborough, MA 01581

Project: L0803236 - ERM BOSTON
ETR: 0803047
Report Date: March 14, 2008

Certifications and Accreditations

Massachusetts M-MA030
Connecticut PH-0141
New Hampshire 2206
Rhode Island LAO00289
New Jersey MA015
Maine MA0030
New York 11627
Louisiana 03090
Florida E87814
Pennsylvania 68-02089
Army Corps of Engineers
Department of the Navy

This report shall not be reproduced except in full, without written approval from the laboratory.



Sample ID Cross Reference

Client: **Alpha Analytical - Westborough**
Project: **L0803236 - ERM BOSTON**

Lab Code: **MA00030**
ETR: **0803047**

Lab Sample ID	Client Sample ID
0803047-01	MW-261S-20080306-01
0803047-02	MW-265M-20080306-01
0803047-03	MW-266Ma-20080306-01
0803047-04	MW-266Mb-20080306-01
0803047-05	MW-267S-20080306-01
0803047-06	MW-267M-20080306-01
0803047-07	MW-268M-20080306-01
0803047-08	MW-268D-20080306-01
0803047-09	MW-551-20080306-01
0803047-10	MW-552-20080306-01
0803047-11	MW-553-20080306-01
0803047-12	DUP-001-20080306-01
0803047-13	DUP-002-20080306-01
0803047-14	TB-001-20080306-01

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Alpha Analytical

Project Number: 0803047

Project Location: MCP RTN #¹:

This Form provides certifications for the following data set: [Laboratory Sample ID Number(s)]:

0803047-01 through 0803047-14

Sample Matrices: **Groundwater** **Soil/Sediment** **Drinking Water** **Other:**

MCP SW-846 Methods used (as specified in MADEP Compendium of Analytical Methods)

Check all that apply:

8260B (X)	8151A ()	8330 ()	6010B ()	7470A/1A ()
8270C ()	8081A ()	VPH ()	6020 ()	9014M ² ()
8082 ()	8021B ()	EPH ()	7000 S ³ ()	Other:

¹ – List Release Tracking Number (RTN), if known.

²M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method.

³S – SW-846 Methods 7000 Series. List individual method and analyte.

An affirmative response to question A, B, C and D is required for "Presumptive Certainty" status.

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No ¹
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?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No ¹
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No ¹
D	<i>VPH and EPH methods only:</i> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective Methods)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No ¹

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

E	Were all analytical QC performance standards and recommendations for the specified methods achieved?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No ¹
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No ¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory 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 analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Peter Henriksen **Position:** Project Manager

Printed Name: Peter Henriksen **Date:** 3-14-08

CASE NARRATIVE

Alpha Analytical

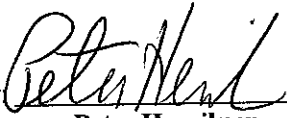
ETR: 0803047**Project: L0803236-ERM BOSTON**

All analyses were performed according to Alpha Analytical quality assurance program and documented Standard Operating Procedures (SOPs). The analytical results contained in this report were performed within holding time, and with appropriate quality control measures, except where noted. All soil/sediment results are reported on a dry weight basis unless otherwise noted. A summary of all state and federal accreditations is provided within this report. Blank correction of results is not performed in the laboratory for any parameter. Alpha Analytical certifies that the test results within meet all of the requirements of NELAC, for all NELAC accredited parameters.

Volatile Organics by 8260

1. The initial calibrations had values for compounds outside of the 15% RSD QC advisory limit. Refer to the Form VI Initial Calibration Summary reports for specific outliers. These initial calibrations meet the acceptability criteria.
2. Per client request, only a subset of the MCP analyte list for SW-846 Method 8260B Volatile Organic Compounds by GC/MS were reported.
3. Several samples were initially analyzed at dilution due to historical data. Refer to the individual report forms for specific dilution requirements.
4. Sample MW-267S-20080306-01 (0803047-05) had Trichloroethene detected above the calibration range of the instrument as denoted with an "E" qualifier. The sample was re-analyzed at a

The enclosed results of analyses are representative of the samples as received by the laboratory. Alpha Analytical makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Alpha Analytical. To the best of my knowledge, the information contained in this report is accurate and complete. For any questions regarding this report, please contact the signatory below at 508-822-9300.

Approved by  Title: Project Manager Date: 3/14/08
Peter Henriksen

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VOLATILE ORGANICS

Form I

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803236 - ERM BOSTON**
 Client ID: **MW-261S-20080306-01**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803047**
 Lab ID: **0803047-01**
 Associated Blank: **VW031308B08**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
03/06/08	03/11/08	03/13/08	5	5	20	ALM

Parameter	Result
Dichlorodifluoromethane	40.0 U
Chloromethane	40.0 U
Vinyl chloride	40.0 U
Chloroethane	40.0 U
1,1-Dichloroethene	40.0 U
Methylene chloride	100 U
trans-1,2-Dichloroethene	40.0 U
1,1-Dichloroethane	40.0 U
cis-1,2-Dichloroethene	108
1,1,1-Trichloroethane	40.0 U
Carbon tetrachloride	40.0 U
1,2-Dichloroethane	40.0 U
Trichloroethene	3080
1,2-Dichloropropane	40.0 U
Bromodichloromethane	40.0 U
cis-1,3-Dichloropropene	40.0 U
trans-1,3-Dichloropropene	40.0 U
1,1,2-Trichloroethane	40.0 U
Tetrachloroethene	70.8
1,3-Dichloropropane	40.0 U
Dibromochloromethane	40.0 U
1,2-Dibromoethane	40.0 U
Chlorobenzene	40.0 U
1,1,1,2-Tetrachloroethane	40.0 U
Bromoform	40.0 U
1,1,2,2-Tetrachloroethane	40.0 U
2-Chlorotoluene	40.0 U
4-Chlorotoluene	40.0 U
1,3-Dichlorobenzene	40.0 U
1,4-Dichlorobenzene	40.0 U
1,2-Dichlorobenzene	40.0 U
1,2,4-Trichlorobenzene	40.0 U
Hexachlorobutadiene	40.0 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	99	70-130
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803236 - ERM BOSTON**
 Client ID: **MW-265M-20080306-01**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803047**
 Lab ID: **0803047-02**
 Associated Blank: **VW031208B02**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
03/06/08	03/11/08	03/12/08	5	5	10	ALM

Parameter	Result
Dichlorodifluoromethane	20.0 U
Chloromethane	20.0 U
Vinyl chloride	36.8
Chloroethane	20.0 U
1,1-Dichloroethene	20.0 U
Methylene chloride	50.0 U
trans-1,2-Dichloroethene	20.0 U
1,1-Dichloroethane	20.0 U
cis-1,2-Dichloroethene	454
1,1,1-Trichloroethane	20.0 U
Carbon tetrachloride	20.0 U
1,2-Dichloroethane	20.0 U
Trichloroethene	622
1,2-Dichloropropane	20.0 U
Bromodichloromethane	20.0 U
cis-1,3-Dichloropropene	20.0 U
trans-1,3-Dichloropropene	20.0 U
1,1,2-Trichloroethane	20.0 U
Tetrachloroethene	39.3
1,3-Dichloropropane	20.0 U
Dibromochloromethane	20.0 U
1,2-Dibromoethane	20.0 U
Chlorobenzene	20.0 U
1,1,1,2-Tetrachloroethane	20.0 U
Bromoform	20.0 U
1,1,2,2-Tetrachloroethane	20.0 U
2-Chlorotoluene	20.0 U
4-Chlorotoluene	20.0 U
1,3-Dichlorobenzene	20.0 U
1,4-Dichlorobenzene	20.0 U
1,2-Dichlorobenzene	20.0 U
1,2,4-Trichlorobenzene	20.0 U
Hexachlorobutadiene	20.0 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	106	70-130
1,2-Dichloroethane-d4	119	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803236 - ERM BOSTON**
 Client ID: **MW-266Ma-20080306-01**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803047**
 Lab ID: **0803047-03**
 Associated Blank: **VW031208B02**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
03/06/08	03/11/08	03/12/08	5	5	1	ALM

Parameter	Result
Dichlorodifluoromethane	2.00 U
Chloromethane	2.00 U
Vinyl chloride	2.00 U
Chloroethane	2.00 U
1,1-Dichloroethene	2.00 U
Methylene chloride	5.00 U
trans-1,2-Dichloroethene	2.00 U
1,1-Dichloroethane	2.00 U
cis-1,2-Dichloroethene	2.82
1,1,1-Trichloroethane	2.00 U
Carbon tetrachloride	2.00 U
1,2-Dichloroethane	2.00 U
Trichloroethene	11.5
1,2-Dichloropropane	2.00 U
Bromodichloromethane	2.00 U
cis-1,3-Dichloropropene	2.00 U
trans-1,3-Dichloropropene	2.00 U
1,1,2-Trichloroethane	2.00 U
Tetrachloroethene	2.00 U
1,3-Dichloropropane	2.00 U
Dibromochloromethane	2.00 U
1,2-Dibromoethane	2.00 U
Chlorobenzene	2.00 U
1,1,1,2-Tetrachloroethane	2.00 U
Bromoform	2.00 U
1,1,2,2-Tetrachloroethane	2.00 U
2-Chlorotoluene	2.00 U
4-Chlorotoluene	2.00 U
1,3-Dichlorobenzene	2.00 U
1,4-Dichlorobenzene	2.00 U
1,2-Dichlorobenzene	2.00 U
1,2,4-Trichlorobenzene	2.00 U
Hexachlorobutadiene	2.00 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	104	70-130
1,2-Dichloroethane-d4	111	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	97	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803236 - ERM BOSTON**
 Client ID: **MW-266Mb-20080306-01**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803047**
 Lab ID: **0803047-04**
 Associated Blank: **VW031308B08**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
03/06/08	03/11/08	03/13/08	5	5	2	ALM

Parameter	Result
Dichlorodifluoromethane	4.00 U
Chloromethane	4.00 U
Vinyl chloride	15.0
Chloroethane	4.00 U
1,1-Dichloroethene	4.00 U
Methylene chloride	10.0 U
trans-1,2-Dichloroethene	4.00 U
1,1-Dichloroethane	4.00 U
cis-1,2-Dichloroethene	222
1,1,1-Trichloroethane	4.00 U
Carbon tetrachloride	4.00 U
1,2-Dichloroethane	4.00 U
Trichloroethene	183
1,2-Dichloropropane	4.00 U
Bromodichloromethane	4.00 U
cis-1,3-Dichloropropene	4.00 U
trans-1,3-Dichloropropene	4.00 U
1,1,2-Trichloroethane	4.00 U
Tetrachloroethene	32.7
1,3-Dichloropropane	4.00 U
Dibromochloromethane	4.00 U
1,2-Dibromoethane	4.00 U
Chlorobenzene	4.00 U
1,1,1,2-Tetrachloroethane	4.00 U
Bromoform	4.00 U
1,1,2,2-Tetrachloroethane	4.00 U
2-Chlorotoluene	4.00 U
4-Chlorotoluene	4.00 U
1,3-Dichlorobenzene	4.00 U
1,4-Dichlorobenzene	4.00 U
1,2-Dichlorobenzene	4.00 U
1,2,4-Trichlorobenzene	4.00 U
Hexachlorobutadiene	4.00 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	102	70-130
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	98	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803236 - ERM BOSTON**
 Client ID: **MW-267S-20080306-01**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803047**
 Lab ID: **0803047-05**
 Associated Blank: **VW031208B02**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
03/06/08	03/11/08	03/12/08	5	5	1	ALM

Parameter	Result
Dichlorodifluoromethane	2.00 U
Chloromethane	2.00 U
Vinyl chloride	2.00 U
Chloroethane	2.00 U
1,1-Dichloroethene	2.00 U
Methylene chloride	5.00 U
trans-1,2-Dichloroethene	2.00 U
1,1-Dichloroethane	2.00 U
cis-1,2-Dichloroethene	94.7
1,1,1-Trichloroethane	2.00 U
Carbon tetrachloride	2.00 U
1,2-Dichloroethane	2.00 U
Trichloroethene	532 E
1,2-Dichloropropane	2.00 U
Bromodichloromethane	2.00 U
cis-1,3-Dichloropropene	2.00 U
trans-1,3-Dichloropropene	2.00 U
1,1,2-Trichloroethane	2.00 U
Tetrachloroethene	9.81
1,3-Dichloropropane	2.00 U
Dibromochloromethane	2.00 U
1,2-Dibromoethane	2.00 U
Chlorobenzene	2.00 U
1,1,1,2-Tetrachloroethane	2.00 U
Bromoform	2.00 U
1,1,2,2-Tetrachloroethane	2.00 U
2-Chlorotoluene	2.00 U
4-Chlorotoluene	2.00 U
1,3-Dichlorobenzene	2.00 U
1,4-Dichlorobenzene	2.00 U
1,2-Dichlorobenzene	2.00 U
1,2,4-Trichlorobenzene	2.00 U
Hexachlorobutadiene	2.00 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	104	70-130
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	97	70-130

N/A - Not Applicable

E - Estimated value, exceeds the upper limit of calibration.

U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803236 - ERM BOSTON**
 Client ID: **MW-267S-20080306-01**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803047**
 Lab ID: **0803047-05E**
 Associated Blank: **VW031408B04**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
03/06/08	03/11/08	03/14/08	5	5	5	ALM

Parameter	Result
Dichlorodifluoromethane	10.0 U
Chloromethane	10.0 U
Vinyl chloride	10.0 U
Chloroethane	10.0 U
1,1-Dichloroethene	10.0 U
Methylene chloride	25.0 U
trans-1,2-Dichloroethene	10.0 U
1,1-Dichloroethane	10.0 U
cis-1,2-Dichloroethene	90.2
1,1,1-Trichloroethane	10.0 U
Carbon tetrachloride	10.0 U
1,2-Dichloroethane	10.0 U
Trichloroethene	555
1,2-Dichloropropane	10.0 U
Bromodichloromethane	10.0 U
cis-1,3-Dichloropropene	10.0 U
trans-1,3-Dichloropropene	10.0 U
1,1,2-Trichloroethane	10.0 U
Tetrachloroethene	10.0 U
1,3-Dichloropropane	10.0 U
Dibromochloromethane	10.0 U
1,2-Dibromoethane	10.0 U
Chlorobenzene	10.0 U
1,1,1,2-Tetrachloroethane	10.0 U
Bromoform	10.0 U
1,1,2,2-Tetrachloroethane	10.0 U
2-Chlorotoluene	10.0 U
4-Chlorotoluene	10.0 U
1,3-Dichlorobenzene	10.0 U
1,4-Dichlorobenzene	10.0 U
1,2-Dichlorobenzene	10.0 U
1,2,4-Trichlorobenzene	10.0 U
Hexachlorobutadiene	10.0 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	103	70-130
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	91	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803236 - ERM BOSTON**
 Client ID: **MW-267M-20080306-01**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803047**
 Lab ID: **0803047-06**
 Associated Blank: **VW031308B08**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
03/06/08	03/11/08	03/13/08	5	5	5	ALM

Parameter	Result
Dichlorodifluoromethane	10.0 U
Chloromethane	10.0 U
Vinyl chloride	23.8
Chloroethane	10.0 U
1,1-Dichloroethene	10.0 U
Methylene chloride	25.0 U
trans-1,2-Dichloroethene	10.0 U
1,1-Dichloroethane	10.0 U
cis-1,2-Dichloroethene	661
1,1,1-Trichloroethane	10.0 U
Carbon tetrachloride	10.0 U
1,2-Dichloroethane	10.0 U
Trichloroethene	768
1,2-Dichloropropane	10.0 U
Bromodichloromethane	10.0 U
cis-1,3-Dichloropropene	10.0 U
trans-1,3-Dichloropropene	10.0 U
1,1,2-Trichloroethane	10.0 U
Tetrachloroethene	45.3
1,3-Dichloropropane	10.0 U
Dibromochloromethane	10.0 U
1,2-Dibromoethane	10.0 U
Chlorobenzene	10.0 U
1,1,1,2-Tetrachloroethane	10.0 U
Bromoform	10.0 U
1,1,2,2-Tetrachloroethane	10.0 U
2-Chlorotoluene	10.0 U
4-Chlorotoluene	10.0 U
1,3-Dichlorobenzene	10.0 U
1,4-Dichlorobenzene	10.0 U
1,2-Dichlorobenzene	10.0 U
1,2,4-Trichlorobenzene	10.0 U
Hexachlorobutadiene	10.0 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	104	70-130
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	96	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803236 - ERM BOSTON**
 Client ID: **MW-268M-20080306-01**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803047**
 Lab ID: **0803047-07**
 Associated Blank: **VW031308B08**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
03/06/08	03/11/08	03/13/08	5	5	20	ALM

Parameter	Result
Dichlorodifluoromethane	40.0 U
Chloromethane	40.0 U
Vinyl chloride	112
Chloroethane	40.0 U
1,1-Dichloroethene	40.0 U
Methylene chloride	100 U
trans-1,2-Dichloroethene	40.0 U
1,1-Dichloroethane	40.0 U
cis-1,2-Dichloroethene	3310
1,1,1-Trichloroethane	40.0 U
Carbon tetrachloride	40.0 U
1,2-Dichloroethane	40.0 U
Trichloroethene	1990
1,2-Dichloropropane	40.0 U
Bromodichloromethane	40.0 U
cis-1,3-Dichloropropene	40.0 U
trans-1,3-Dichloropropene	40.0 U
1,1,2-Trichloroethane	40.0 U
Tetrachloroethene	57.6
1,3-Dichloropropane	40.0 U
Dibromochloromethane	40.0 U
1,2-Dibromoethane	40.0 U
Chlorobenzene	40.0 U
1,1,1,2-Tetrachloroethane	40.0 U
Bromoform	40.0 U
1,1,2,2-Tetrachloroethane	40.0 U
2-Chlorotoluene	40.0 U
4-Chlorotoluene	40.0 U
1,3-Dichlorobenzene	40.0 U
1,4-Dichlorobenzene	40.0 U
1,2-Dichlorobenzene	40.0 U
1,2,4-Trichlorobenzene	40.0 U
Hexachlorobutadiene	40.0 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	97	70-130
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	95	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803236 - ERM BOSTON**
 Client ID: **MW-268D-20080306-01**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803047**
 Lab ID: **0803047-08**
 Associated Blank: **VW031208B02**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
03/06/08	03/11/08	03/12/08	5	5	1	ALM

Parameter	Result
Dichlorodifluoromethane	2.00 U
Chloromethane	2.00 U
Vinyl chloride	2.00 U
Chloroethane	2.00 U
1,1-Dichloroethene	2.00 U
Methylene chloride	5.00 U
trans-1,2-Dichloroethene	2.00 U
1,1-Dichloroethane	2.00 U
cis-1,2-Dichloroethene	9.55
1,1,1-Trichloroethane	2.00 U
Carbon tetrachloride	2.00 U
1,2-Dichloroethane	2.00 U
Trichloroethene	9.41
1,2-Dichloropropane	2.00 U
Bromodichloromethane	2.00 U
cis-1,3-Dichloropropene	2.00 U
trans-1,3-Dichloropropene	2.00 U
1,1,2-Trichloroethane	2.00 U
Tetrachloroethene	2.00 U
1,3-Dichloropropane	2.00 U
Dibromochloromethane	2.00 U
1,2-Dibromoethane	2.00 U
Chlorobenzene	2.00 U
1,1,1,2-Tetrachloroethane	2.00 U
Bromoform	2.00 U
1,1,2,2-Tetrachloroethane	2.00 U
2-Chlorotoluene	2.00 U
4-Chlorotoluene	2.00 U
1,3-Dichlorobenzene	2.00 U
1,4-Dichlorobenzene	2.00 U
1,2-Dichlorobenzene	2.00 U
1,2,4-Trichlorobenzene	2.00 U
Hexachlorobutadiene	2.00 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	107	70-130
1,2-Dichloroethane-d4	115	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803236 - ERM BOSTON**
 Client ID: **MW-551-20080306-01**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803047**
 Lab ID: **0803047-09**
 Associated Blank: **VW031208B02**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
03/06/08	03/11/08	03/12/08	5	5	1	ALM

Parameter	Result
Dichlorodifluoromethane	2.00 U
Chloromethane	2.00 U
Vinyl chloride	2.00 U
Chloroethane	2.00 U
1,1-Dichloroethene	2.00 U
Methylene chloride	5.00 U
trans-1,2-Dichloroethene	2.00 U
1,1-Dichloroethane	2.00 U
cis-1,2-Dichloroethene	2.00 U
1,1,1-Trichloroethane	2.00 U
Carbon tetrachloride	2.00 U
1,2-Dichloroethane	2.00 U
Trichloroethene	16.8
1,2-Dichloropropane	2.00 U
Bromodichloromethane	2.00 U
cis-1,3-Dichloropropene	2.00 U
trans-1,3-Dichloropropene	2.00 U
1,1,2-Trichloroethane	2.00 U
Tetrachloroethene	2.00 U
1,3-Dichloropropane	2.00 U
Dibromochloromethane	2.00 U
1,2-Dibromoethane	2.00 U
Chlorobenzene	2.00 U
1,1,1,2-Tetrachloroethane	2.00 U
Bromoform	2.00 U
1,1,1,2-Tetrachloroethane	2.00 U
2-Chlorotoluene	2.00 U
4-Chlorotoluene	2.00 U
1,3-Dichlorobenzene	2.00 U
1,4-Dichlorobenzene	2.00 U
1,2-Dichlorobenzene	2.00 U
1,2,4-Trichlorobenzene	2.00 U
Hexachlorobutadiene	2.00 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	107	70-130
1,2-Dichloroethane-d4	116	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	98	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803236 - ERM BOSTON**
 Client ID: **MW-552-20080306-01**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803047**
 Lab ID: **0803047-10**
 Associated Blank: **VW031308B08**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
03/06/08	03/11/08	03/13/08	5	5	50	ALM

Parameter	Result
Dichlorodifluoromethane	100 U
Chloromethane	100 U
Vinyl chloride	100 U
Chloroethane	100 U
1,1-Dichloroethene	100 U
Methylene chloride	250 U
trans-1,2-Dichloroethene	100 U
1,1-Dichloroethane	100 U
cis-1,2-Dichloroethene	325
1,1,1-Trichloroethane	100 U
Carbon tetrachloride	100 U
1,2-Dichloroethane	100 U
Trichloroethene	4020
1,2-Dichloropropane	100 U
Bromodichloromethane	100 U
cis-1,3-Dichloropropene	100 U
trans-1,3-Dichloropropene	100 U
1,1,2-Trichloroethane	100 U
Tetrachloroethene	170
1,3-Dichloropropane	100 U
Dibromochloromethane	100 U
1,2-Dibromoethane	100 U
Chlorobenzene	100 U
1,1,1,2-Tetrachloroethane	100 U
Bromoform	100 U
1,1,2,2-Tetrachloroethane	100 U
2-Chlorotoluene	100 U
4-Chlorotoluene	100 U
1,3-Dichlorobenzene	100 U
1,4-Dichlorobenzene	100 U
1,2-Dichlorobenzene	100 U
1,2,4-Trichlorobenzene	100 U
Hexachlorobutadiene	100 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	105	70-130
1,2-Dichloroethane-d4	114	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803236 - ERM BOSTON**
 Client ID: **DUP-001-20080306-01**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803047**
 Lab ID: **0803047-12**
 Associated Blank: **VW031308B08**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
03/06/08	03/11/08	03/13/08	5	5	20	ALM

Parameter	Result
Dichlorodifluoromethane	40.0 U
Chloromethane	40.0 U
Vinyl chloride	117
Chloroethane	40.0 U
1,1-Dichloroethene	40.0 U
Methylene chloride	100 U
trans-1,2-Dichloroethene	40.0 U
1,1-Dichloroethane	40.0 U
cis-1,2-Dichloroethene	3440
1,1,1-Trichloroethane	40.0 U
Carbon tetrachloride	40.0 U
1,2-Dichloroethane	40.0 U
Trichloroethene	1990
1,2-Dichloropropane	40.0 U
Bromodichloromethane	40.0 U
cis-1,3-Dichloropropene	40.0 U
trans-1,3-Dichloropropene	40.0 U
1,1,2-Trichloroethane	40.0 U
Tetrachloroethene	57.6
1,3-Dichloropropane	40.0 U
Dibromochloromethane	40.0 U
1,2-Dibromoethane	40.0 U
Chlorobenzene	40.0 U
1,1,1,2-Tetrachloroethane	40.0 U
Bromoform	40.0 U
1,1,2,2-Tetrachloroethane	40.0 U
2-Chlorotoluene	40.0 U
4-Chlorotoluene	40.0 U
1,3-Dichlorobenzene	40.0 U
1,4-Dichlorobenzene	40.0 U
1,2-Dichlorobenzene	40.0 U
1,2,4-Trichlorobenzene	40.0 U
Hexachlorobutadiene	40.0 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	100	70-130
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803236 - ERM BOSTON**
 Client ID: **DUP-002-20080306-01**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803047**
 Lab ID: **0803047-13**
 Associated Blank: **VW031308B08**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
03/06/08	03/11/08	03/13/08	5	5	20	ALM

Parameter	Result
Dichlorodifluoromethane	40.0 U
Chloromethane	40.0 U
Vinyl chloride	40.0 U
Chloroethane	40.0 U
1,1-Dichloroethene	40.0 U
Methylene chloride	100 U
trans-1,2-Dichloroethene	40.0 U
1,1-Dichloroethane	40.0 U
cis-1,2-Dichloroethene	117
1,1,1-Trichloroethane	40.0 U
Carbon tetrachloride	40.0 U
1,2-Dichloroethane	40.0 U
Trichloroethene	3310
1,2-Dichloropropane	40.0 U
Bromodichloromethane	40.0 U
cis-1,3-Dichloropropene	40.0 U
trans-1,3-Dichloropropene	40.0 U
1,1,2-Trichloroethane	40.0 U
Tetrachloroethene	71.6
1,3-Dichloropropane	40.0 U
Dibromochloromethane	40.0 U
1,2-Dibromoethane	40.0 U
Chlorobenzene	40.0 U
1,1,1,2-Tetrachloroethane	40.0 U
Bromoform	40.0 U
1,1,1,2,2-Tetrachloroethane	40.0 U
2-Chlorotoluene	40.0 U
4-Chlorotoluene	40.0 U
1,3-Dichlorobenzene	40.0 U
1,4-Dichlorobenzene	40.0 U
1,2-Dichlorobenzene	40.0 U
1,2,4-Trichlorobenzene	40.0 U
Hexachlorobutadiene	40.0 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	99	70-130
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803236 - ERM BOSTON**
 Client ID: **TB-001-20080306-01**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803047**
 Lab ID: **0803047-14**
 Associated Blank: **VW031208B02**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
02/04/08	03/11/08	03/12/08	5	5	1	ALM

Parameter	Result
Dichlorodifluoromethane	2.00 U
Chloromethane	2.00 U
Vinyl chloride	2.00 U
Chloroethane	2.00 U
1,1-Dichloroethene	2.00 U
Methylene chloride	5.00 U
trans-1,2-Dichloroethene	2.00 U
1,1-Dichloroethane	2.00 U
cis-1,2-Dichloroethene	2.00 U
1,1,1-Trichloroethane	2.00 U
Carbon tetrachloride	2.00 U
1,2-Dichloroethane	2.00 U
Trichloroethene	2.00 U
1,2-Dichloropropane	2.00 U
Bromodichloromethane	2.00 U
cis-1,3-Dichloropropene	2.00 U
trans-1,3-Dichloropropene	2.00 U
1,1,2-Trichloroethane	2.00 U
Tetrachloroethene	2.00 U
1,3-Dichloropropane	2.00 U
Dibromochloromethane	2.00 U
1,2-Dibromoethane	2.00 U
Chlorobenzene	2.00 U
1,1,1,2-Tetrachloroethane	2.00 U
Bromoform	2.00 U
1,1,2,2-Tetrachloroethane	2.00 U
2-Chlorotoluene	2.00 U
4-Chlorotoluene	2.00 U
1,3-Dichlorobenzene	2.00 U
1,4-Dichlorobenzene	2.00 U
1,2-Dichlorobenzene	2.00 U
1,2,4-Trichlorobenzene	2.00 U
Hexachlorobutadiene	2.00 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	100	70-130
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803236 - ERM BOSTON**
 Client ID: **Blank**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803047**
 Lab ID: **VW031208B02**
 Associated Blank: **N/A**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/12/08	5	5	1	ALM

Parameter	Result
Dichlorodifluoromethane	2.00 U
Chloromethane	2.00 U
Vinyl chloride	2.00 U
Chloroethane	2.00 U
1,1-Dichloroethene	2.00 U
Methylene chloride	5.00 U
trans-1,2-Dichloroethene	2.00 U
1,1-Dichloroethane	2.00 U
cis-1,2-Dichloroethene	2.00 U
1,1,1-Trichloroethane	2.00 U
Carbon tetrachloride	2.00 U
1,2-Dichloroethane	2.00 U
Trichloroethene	2.00 U
1,2-Dichloropropane	2.00 U
Bromodichloromethane	2.00 U
cis-1,3-Dichloropropene	2.00 U
trans-1,3-Dichloropropene	2.00 U
1,1,2-Trichloroethane	2.00 U
Tetrachloroethene	2.00 U
1,3-Dichloropropane	2.00 U
Dibromochloromethane	2.00 U
1,2-Dibromoethane	2.00 U
Chlorobenzene	2.00 U
1,1,1,2-Tetrachloroethane	2.00 U
Bromoform	2.00 U
1,1,2,2-Tetrachloroethane	2.00 U
2-Chlorotoluene	2.00 U
4-Chlorotoluene	2.00 U
1,3-Dichlorobenzene	2.00 U
1,4-Dichlorobenzene	2.00 U
1,2-Dichlorobenzene	2.00 U
1,2,4-Trichlorobenzene	2.00 U
Hexachlorobutadiene	2.00 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	102	70-130
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	96	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803236 - ERM BOSTON**
 Client ID: **Blank**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803047**
 Lab ID: **VW031308B08**
 Associated Blank: **N/A**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/13/08	5	5	1	ALM

Parameter	Result
Dichlorodifluoromethane	2.00 U
Chloromethane	2.00 U
Vinyl chloride	2.00 U
Chloroethane	2.00 U
1,1-Dichloroethene	2.00 U
Methylene chloride	5.00 U
trans-1,2-Dichloroethene	2.00 U
1,1-Dichloroethane	2.00 U
cis-1,2-Dichloroethene	2.00 U
1,1,1-Trichloroethane	2.00 U
Carbon tetrachloride	2.00 U
1,2-Dichloroethane	2.00 U
Trichloroethene	2.00 U
1,2-Dichloropropane	2.00 U
Bromodichloromethane	2.00 U
cis-1,3-Dichloropropene	2.00 U
trans-1,3-Dichloropropene	2.00 U
1,1,2-Trichloroethane	2.00 U
Tetrachloroethene	2.00 U
1,3-Dichloropropane	2.00 U
Dibromochloromethane	2.00 U
1,2-Dibromoethane	2.00 U
Chlorobenzene	2.00 U
1,1,1,2-Tetrachloroethane	2.00 U
Bromoform	2.00 U
1,1,2,2-Tetrachloroethane	2.00 U
2-Chlorotoluene	2.00 U
4-Chlorotoluene	2.00 U
1,3-Dichlorobenzene	2.00 U
1,4-Dichlorobenzene	2.00 U
1,2-Dichlorobenzene	2.00 U
1,2,4-Trichlorobenzene	2.00 U
Hexachlorobutadiene	2.00 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	97	70-130
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803236 - ERM BOSTON**
 Client ID: **Blank**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803047**
 Lab ID: **VW031408B04**
 Associated Blank: **N/A**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/14/08	5	5	1	ALM

Parameter	Result
Dichlorodifluoromethane	2.00 U
Chloromethane	2.00 U
Vinyl chloride	2.00 U
Chloroethane	2.00 U
1,1-Dichloroethene	2.00 U
Methylene chloride	5.00 U
trans-1,2-Dichloroethene	2.00 U
1,1-Dichloroethane	2.00 U
cis-1,2-Dichloroethene	2.00 U
1,1,1-Trichloroethane	2.00 U
Carbon tetrachloride	2.00 U
1,2-Dichloroethane	2.00 U
Trichloroethene	2.00 U
1,2-Dichloropropane	2.00 U
Bromodichloromethane	2.00 U
cis-1,3-Dichloropropene	2.00 U
trans-1,3-Dichloropropene	2.00 U
1,1,2-Trichloroethane	2.00 U
Tetrachloroethene	2.00 U
1,3-Dichloropropane	2.00 U
Dibromochloromethane	2.00 U
1,2-Dibromoethane	2.00 U
Chlorobenzene	2.00 U
1,1,1,2-Tetrachloroethane	2.00 U
Bromoform	2.00 U
1,1,2,2-Tetrachloroethane	2.00 U
2-Chlorotoluene	2.00 U
4-Chlorotoluene	2.00 U
1,3-Dichlorobenzene	2.00 U
1,4-Dichlorobenzene	2.00 U
1,2-Dichlorobenzene	2.00 U
1,2,4-Trichlorobenzene	2.00 U
Hexachlorobutadiene	2.00 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	103	70-130
1,2-Dichloroethane-d4	110	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	92	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Form III Spike Recovery Summary Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803236 - ERM BOSTON**
 Client ID: **Laboratory Control Sample**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803047**
 Lab ID: **See Below**
 Associated Blank: **VW031208B02**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/12/08	5	5	1	ALM

Lab ID: VW031208B02 VW031208LCS01 VW031208LCSD01

Parameter	Blank		LCS		LCSD		% RPD	RPD - % Recovery	
	Conc.		Conc.	% Recovery	Conc.	% Recovery		Limit	Limits
Dichlorodifluoromethane	2.00	U	21.6	108	21.0	105	3	25	70-130
Chloromethane	2.00	U	21.1	106	19.9	99	6	25	70-130
Vinyl chloride	2.00	U	22.2	111	22.1	111	0	25	70-130
Chloroethane	2.00	U	24.6	123	23.0	115	7	25	70-130
1,1-Dichloroethene	2.00	U	19.3	96	19.0	95	1	25	70-130
Methylene chloride	5.00	U	18.9	94	18.8	94	0	25	70-130
trans-1,2-Dichloroethene	2.00	U	19.5	97	18.9	94	3	25	70-130
1,1-Dichloroethane	2.00	U	19.5	97	18.9	94	3	25	70-130
cis-1,2-Dichloroethene	2.00	U	19.7	98	19.0	95	4	25	70-130
1,1,1-Trichloroethane	2.00	U	19.8	99	19.1	95	4	25	70-130
Carbon tetrachloride	2.00	U	19.4	97	18.7	94	3	25	70-130
1,2-Dichloroethane	2.00	U	19.6	98	19.5	98	1	25	70-130
Trichloroethene	2.00	U	20.1	100	19.5	98	3	25	70-130
1,2-Dichloropropane	2.00	U	19.4	97	19.5	97	0	25	70-130
Bromodichloromethane	2.00	U	19.7	99	19.2	96	3	25	70-130
cis-1,3-Dichloropropene	2.00	U	19.4	97	19.3	96	1	25	70-130
trans-1,3-Dichloropropene	2.00	U	19.4	97	19.1	96	2	25	70-130
1,1,2-Trichloroethane	2.00	U	19.6	98	19.4	97	1	25	70-130
Tetrachloroethene	2.00	U	20.3	102	19.4	97	5	25	70-130
1,3-Dichloropropane	2.00	U	19.7	99	19.4	97	1	25	70-130
Dibromochloromethane	2.00	U	19.6	98	20.0	100	2	25	70-130
1,2-Dibromoethane	2.00	U	19.6	98	19.5	98	1	25	70-130
Chlorobenzene	2.00	U	19.7	98	19.2	96	3	25	70-130
1,1,1,2-Tetrachloroethane	2.00	U	19.7	98	19.7	98	0	25	70-130
Bromoform	2.00	U	19.7	98	18.7	93	5	25	70-130
1,1,2,2-Tetrachloroethane	2.00	U	19.7	99	19.3	96	2	25	70-130
2-Chlorotoluene	2.00	U	19.8	99	19.0	95	4	25	70-130
4-Chlorotoluene	2.00	U	19.0	95	18.3	91	4	25	70-130
1,3-Dichlorobenzene	2.00	U	20.0	100	19.2	96	4	25	70-130
1,4-Dichlorobenzene	2.00	U	19.6	98	19.5	97	1	25	70-130
1,2-Dichlorobenzene	2.00	U	20.3	101	19.4	97	4	25	70-130
1,2,4-Trichlorobenzene	2.00	U	20.3	101	19.4	97	5	25	70-130
Hexachlorobutadiene	2.00	U	21.9	110	19.5	98	11	25	70-130

Surrogate	% Recovery		Acceptance Range (%)
Dibromofluoromethane	98	98	70-130
1,2-Dichloroethane-d4	97	97	70-130
Toluene-d8	100	102	70-130
4-Bromofluorobenzene	100	99	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

03/14/08 11:07

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Form III Spike Recovery Summary Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803236 - ERM BOSTON**
 Client ID: **Laboratory Control Sample**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803047**
 Lab ID: **See Below**
 Associated Blank: **VW031308B08**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/13/08	5	5	1	ALM

Lab ID: VW031308B08 VW031308LCS04 VW031308LCSD04

Parameter	Blank Conc.	U	LCS		LCSD		% RPD	RPD Limit	% Recovery Limits
			Conc.	% Recovery	Conc.	% Recovery			
Dichlorodifluoromethane	2.00	U	17.8	89	17.8	89	0	25	70-130
Chloromethane	2.00	U	16.4	82	16.9	85	3	25	70-130
Vinyl chloride	2.00	U	18.3	92	18.5	93	1	25	70-130
Chloroethane	2.00	U	17.4	87	18.0	90	4	25	70-130
1,1-Dichloroethene	2.00	U	20.5	103	20.6	103	0	25	70-130
Methylene chloride	5.00	U	19.9	99	20.3	102	2	25	70-130
trans-1,2-Dichloroethene	2.00	U	18.8	94	20.0	100	6	25	70-130
1,1-Dichloroethane	2.00	U	19.3	96	19.8	99	3	25	70-130
cis-1,2-Dichloroethene	2.00	U	18.4	92	19.4	97	5	25	70-130
1,1,1-Trichloroethane	2.00	U	19.0	95	19.8	99	4	25	70-130
Carbon tetrachloride	2.00	U	19.1	95	19.7	99	3	25	70-130
1,2-Dichloroethane	2.00	U	18.6	93	18.7	94	1	25	70-130
Trichloroethene	2.00	U	19.9	99	20.4	102	3	25	70-130
1,2-Dichloropropane	2.00	U	20.6	103	20.3	102	1	25	70-130
Bromodichloromethane	2.00	U	19.2	96	19.9	100	4	25	70-130
cis-1,3-Dichloropropene	2.00	U	19.7	99	19.7	99	0	25	70-130
trans-1,3-Dichloropropene	2.00	U	19.3	97	19.5	98	1	25	70-130
1,1,2-Trichloroethane	2.00	U	19.8	99	19.8	99	0	25	70-130
Tetrachloroethene	2.00	U	21.3	106	22.2	111	4	25	70-130
1,3-Dichloropropane	2.00	U	19.5	98	19.6	98	0	25	70-130
Dibromochloromethane	2.00	U	19.9	99	20.1	100	1	25	70-130
1,2-Dibromoethane	2.00	U	19.9	99	20.6	103	3	25	70-130
Chlorobenzene	2.00	U	19.6	98	20.0	100	2	25	70-130
1,1,1,2-Tetrachloroethane	2.00	U	20.1	100	20.4	102	2	25	70-130
Bromoform	2.00	U	19.8	99	19.9	99	0	25	70-130
1,1,2,2-Tetrachloroethane	2.00	U	19.5	97	18.8	94	4	25	70-130
2-Chlorotoluene	2.00	U	19.0	95	19.9	100	5	25	70-130
4-Chlorotoluene	2.00	U	19.1	95	19.8	99	4	25	70-130
1,3-Dichlorobenzene	2.00	U	20.0	100	20.7	103	3	25	70-130
1,4-Dichlorobenzene	2.00	U	19.7	98	20.2	101	3	25	70-130
1,2-Dichlorobenzene	2.00	U	19.8	99	20.4	102	3	25	70-130
1,2,4-Trichlorobenzene	2.00	U	20.0	100	20.1	101	1	25	70-130
Hexachlorobutadiene	2.00	U	20.6	103	20.3	102	2	25	70-130

Surrogate	% Recovery		Acceptance Range (%)
Dibromofluoromethane	96	96	70-130
1,2-Dichloroethane-d4	90	90	70-130
Toluene-d8	100	100	70-130
4-Bromofluorobenzene	98	100	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

03/14/08 11:08

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Form III Spike Recovery Summary Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803236 - ERM BOSTON**
 Client ID: **Laboratory Control Sample**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803047**
 Lab ID: **See Below**
 Associated Blank: **VW031408B04**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/14/08	5	5	1	ALM

Lab ID: **VW031408B04 VW031408LCS03 VW031408LCSD03**

Parameter	Blank Conc.	U	LCS		LCSD		% RPD	RPD - % Recovery	
			Conc.	% Recovery	Conc.	% Recovery		Limit	Limits
Dichlorodifluoromethane	2.00	U	18.9	94	19.1	95	1	25	70-130
Chloromethane	2.00	U	19.0	95	19.0	95	0	25	70-130
Vinyl chloride	2.00	U	20.6	103	21.0	105	2	25	70-130
Chloroethane	2.00	U	20.1	101	20.2	101	0	25	70-130
1,1-Dichloroethene	2.00	U	19.4	97	20.0	100	3	25	70-130
Methylene chloride	5.00	U	17.0	85	17.2	86	1	25	70-130
trans-1,2-Dichloroethene	2.00	U	18.8	94	19.3	96	3	25	70-130
1,1-Dichloroethane	2.00	U	18.8	94	19.2	96	2	25	70-130
cis-1,2-Dichloroethene	2.00	U	18.8	94	18.7	93	1	25	70-130
1,1,1-Trichloroethane	2.00	U	17.1	85	17.4	87	2	25	70-130
Carbon tetrachloride	2.00	U	15.2	76	15.6	78	3	25	70-130
1,2-Dichloroethane	2.00	U	19.6	98	19.8	99	1	25	70-130
Trichloroethene	2.00	U	16.2	81	16.7	84	3	25	70-130
1,2-Dichloropropane	2.00	U	17.4	87	17.9	89	3	25	70-130
Bromodichloromethane	2.00	U	17.0	85	17.6	88	4	25	70-130
cis-1,3-Dichloropropene	2.00	U	17.8	89	17.9	90	1	25	70-130
trans-1,3-Dichloropropene	2.00	U	17.6	88	17.7	88	0	25	70-130
1,1,2-Trichloroethane	2.00	U	17.6	88	17.8	89	1	25	70-130
Tetrachloroethene	2.00	U	16.5	82	16.8	84	2	25	70-130
1,3-Dichloropropane	2.00	U	17.8	89	18.1	91	2	25	70-130
Dibromochloromethane	2.00	U	16.9	84	16.8	84	1	25	70-130
1,2-Dibromoethane	2.00	U	17.4	87	17.8	89	2	25	70-130
Chlorobenzene	2.00	U	19.1	95	19.4	97	2	25	70-130
1,1,1,2-Tetrachloroethane	2.00	U	17.8	89	18.4	92	3	25	70-130
Bromoform	2.00	U	17.2	86	17.1	86	0	25	70-130
1,1,2,2-Tetrachloroethane	2.00	U	19.4	97	19.4	97	0	25	70-130
2-Chlorotoluene	2.00	U	19.0	95	19.0	95	0	25	70-130
4-Chlorotoluene	2.00	U	19.5	97	19.5	98	0	25	70-130
1,3-Dichlorobenzene	2.00	U	19.4	97	19.4	97	0	25	70-130
1,4-Dichlorobenzene	2.00	U	18.9	94	19.0	95	1	25	70-130
1,2-Dichlorobenzene	2.00	U	19.6	98	19.5	97	0	25	70-130
1,2,4-Trichlorobenzene	2.00	U	18.4	92	18.2	91	1	25	70-130
Hexachlorobutadiene	2.00	U	20.0	100	19.5	97	3	25	70-130

Surrogate	% Recovery	Acceptance Range (%)	
Dibromofluoromethane	100	101	70-130
1,2-Dichloroethane-d4	106	106	70-130
Toluene-d8	98	97	70-130
4-Bromofluorobenzene	99	99	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

03/14/08 13:29

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Supporting Quality Control Results

Form II

Surrogate Recovery

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803236 - ERM BOSTON**

Lab Code: **MA00030**

ETR: **0803047**

Matrix: **Water**

Case: **N/A** SDG: **N/A**

Client ID	Lab ID	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
LCS	VW031208LCS01	98	97	100	100
LCSD	VW031208LCSD01	98	97	102	99
Blank	VW031208B02	102	101	101	96
TB-001-20080306-01	0803047-14	100	102	99	96
MW-266Ma-20080306-01	0803047-03	104	111	93	97
MW-267S-20080306-01	0803047-05	104	113	91	97
MW-268D-20080306-01	0803047-08	107	115	99	99
MW-551-20080306-01	0803047-09	107	116	92	98
MW-265M-20080306-01	0803047-02	106	119	101	99
LCS	VW031308LCS04	96	90	100	98
LCSD	VW031308LCSD04	96	90	100	100
Blank	VW031308B08	97	95	98	96
MW-261S-20080306-01	0803047-01	99	102	99	96
MW-268M-20080306-01	0803047-07	97	100	99	95
DUP-001-20080306-01	0803047-12	100	107	99	96
DUP-002-20080306-01	0803047-13	99	107	99	96
MW-266Mb-20080306-01	0803047-04	102	108	94	98
MW-267M-20080306-01	0803047-06	104	109	102	96
MW-552-20080306-01	0803047-10	105	114	99	98

N/A - Not Applicable

Surrogate	QC Limit
Dibromofluoromethane	70-130
1,2-Dichloroethane-d4	70-130
Toluene-d8	70-130
4-Bromofluorobenzene	70-130

**Form II
Surrogate Recovery
Volatile Organics by 8260**

Client: **Alpha Analytical - Westborough**Project: **L0803236 - ERM BOSTON**Case: **N/A** SDG: **N/A**Lab Code: **MA00030**ETR: **0803047**Matrix: **Water**

Client ID	Lab ID	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
LCS	VW031408LCS03	100	106	98	99
LCSD	VW031408LCSD03	101	106	97	99
Blank	VW031408B04	103	110	92	92
MW-267S-20080306-01	0803047-05E	103	107	93	91
MW-553-20080306-01	0803047-11	103	110	93	91

N/A - Not Applicable

Surrogate	QC Limit
Dibromofluoromethane	70-130
1,2-Dichloroethane-d4	70-130
Toluene-d8	70-130
4-Bromofluorobenzene	70-130

**Form IV
Method Blank Summary
Volatile Organics by 8260**

Client: **Alpha Analytical - Westborough**Project: **L0803236 - ERM BOSTON**Case: **N/A** SDG: **N/A**Lab Code: **MA00030**ETR: **0803047**Lab ID: **VW031208B02**Date Analyzed: **03/12/08 16:51**

Client ID	Lab ID	Date/Time Analyzed
LCS	VW031208LCS01	03/12/08 15:19
LCSD	VW031208LCSD01	03/12/08 15:50
TB-001-20080306-01	0803047-14	03/12/08 17:22
MW-266Ma-20080306-01	0803047-03	03/12/08 19:55
MW-267S-20080306-01	0803047-05	03/12/08 20:26
MW-268D-20080306-01	0803047-08	03/12/08 20:57
MW-551-20080306-01	0803047-09	03/12/08 21:27
MW-265M-20080306-01	0803047-02	03/12/08 22:29

N/A - Not Applicable

**Form IV
Method Blank Summary
Volatile Organics by 8260**

Client: **Alpha Analytical - Westborough**Project: **L0803236 - ERM BOSTON**Case: **N/A** SDG: **N/A**Lab Code: **MA00030**ETR: **0803047**Lab ID: **VW031308B08**Date Analyzed: **03/13/08 18:52**

Client ID	Lab ID	Date/Time Analyzed
LCS	VW031308LCS04	03/13/08 17:20
LCSD	VW031308LCSD04	03/13/08 17:50
MW-261S-20080306-01	0803047-01	03/13/08 19:56
MW-268M-20080306-01	0803047-07	03/13/08 20:29
DUP-001-20080306-01	0803047-12	03/13/08 21:02
DUP-002-20080306-01	0803047-13	03/13/08 21:36
MW-266Mb-20080306-01	0803047-04	03/13/08 22:09
MW-267M-20080306-01	0803047-06	03/13/08 22:42
MW-552-20080306-01	0803047-10	03/13/08 23:16

N/A - Not Applicable

**Form IV
Method Blank Summary
Volatile Organics by 8260**



Client: **Alpha Analytical - Westborough**

Project: **L0803236 - ERM BOSTON**

Case: N/A SDG: N/A

Lab Code: **MA00030**

ETR: **0803047**

Lab ID: **VW031408B04**

Date Analyzed: **03/14/08 10:44**

Client ID	Lab ID	Date/Time Analyzed
LCS	VW031408LCS03	03/14/08 09:48
LCSD	VW031408LCSD03	03/14/08 10:16
MW-267S-20080306-01	0803047-05E	03/14/08 11:15
MW-553-20080306-01	0803047-11	03/14/08 12:17

N/A - Not Applicable

**Form V
Tune Summary
Volatile Organics by 8260**

Client: **Alpha Analytical - Westborough**Project: **L0803236 - ERM BOSTON**Case: **N/A** SDG: **N/A**Lab Code: **MA00030**ETR: **0803047**Lab ID: **T1031201**Date Analyzed: **03/12/08 08:39**

Target Mass	Relative To Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result
50	95	15	40	21.4	45101	Pass
75	95	30	60	47.1	99181	Pass
95	95	100	100	100	210496	Pass
96	95	5	9	6.6	13976	Pass
173	174	0	2	0	0	Pass
174	95	50	100	69.2	145600	Pass
175	174	5	9	7.7	11160	Pass
176	174	95	101	97.7	142208	Pass
177	176	5	9	6.6	9418	Pass

Client ID	Lab ID	Date/Time Analyzed
Initial Calibration	I1031201	03/12/08 09:10
Initial Calibration	I1031202	03/12/08 09:41
Initial Calibration	I1031204	03/12/08 10:42
Initial Calibration	I1031205	03/12/08 11:13
Initial Calibration	I1031206	03/12/08 11:44
Initial Calibration	I1031207	03/12/08 14:17

N/A - Not Applicable

Form V Tune Summary Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**Project: **L0803236 - ERM BOSTON**Case: **N/A** SDG: **N/A**Lab Code: **MA00030**ETR: **0803047**Lab ID: **T1031202**Date Analyzed: **03/12/08 13:47**

Target Mass	Relative To Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result
50	95	15	40	21.5	44045	Pass
75	95	30	60	46.4	94901	Pass
95	95	100	100	100	204693	Pass
96	95	5	9	6.9	14054	Pass
173	174	0	2	0	0	Pass
174	95	50	100	71.6	146475	Pass
175	174	5	9	7.5	11025	Pass
176	174	95	101	95.6	140075	Pass
177	176	5	9	6.4	8962	Pass

Client ID	Lab ID	Date/Time Analyzed
CCV	C1031201	03/12/08 14:48
LCS	VW031208LCS01	03/12/08 15:19
LCSD	VW031208LCSD01	03/12/08 15:50
Blank	VW031208B02	03/12/08 16:51
TB-001-20080306-01	0803047-14	03/12/08 17:22
MW-266Ma-20080306-01	0803047-03	03/12/08 19:55
MW-267S-20080306-01	0803047-05	03/12/08 20:26
MW-268D-20080306-01	0803047-08	03/12/08 20:57
MW-551-20080306-01	0803047-09	03/12/08 21:27
MW-265M-20080306-01	0803047-02	03/12/08 22:29

N/A - Not Applicable

**Form V
Tune Summary
Volatile Organics by 8260**

Client: **Alpha Analytical - Westborough**Project: **L0803236 - ERM BOSTON**Case: **N/A** SDG: **N/A**Lab Code: **MA00030**ETR: **0803047**Lab ID: **T1031301**Date Analyzed: **03/13/08 08:44**

Target Mass	Relative To Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result
50	95	15	40	24.5	43397	Pass
75	95	30	60	51.1	90472	Pass
95	95	100	100	100	177152	Pass
96	95	5	9	6.1	10803	Pass
173	174	0	2	0	0	Pass
174	95	50	100	63.1	111861	Pass
175	174	5	9	7.8	8708	Pass
176	174	95	101	97.1	108616	Pass
177	176	5	9	6.4	6997	Pass

Client ID	Lab ID	Date/Time Analyzed
Initial Calibration	I1031301	03/13/08 11:42
Initial Calibration	I1031302	03/13/08 12:12
Initial Calibration	I1031303	03/13/08 12:43
Initial Calibration	I1031304	03/13/08 13:14
Initial Calibration	I1031305	03/13/08 13:45
Initial Calibration	I1031306	03/13/08 14:15

N/A - Not Applicable

**Form V
Tune Summary
Volatile Organics by 8260**

Client: **Alpha Analytical - Westborough**Project: **L0803236 - ERM BOSTON**Case: **N/A** SDG: **N/A**Lab Code: **MA00030**ETR: **0803047**Lab ID: **T3031301**Date Analyzed: **03/13/08 11:21**

Target Mass	Relative To Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result
50	95	15	40	25.4	61944	Pass
75	95	30	60	56.5	137792	Pass
95	95	100	100	100	243712	Pass
96	95	5	9	6.8	16672	Pass
173	174	0	2	0	0	Pass
174	95	50	100	67.3	163904	Pass
175	174	5	9	7.3	12039	Pass
176	174	95	101	95.7	156928	Pass
177	176	5	9	6.8	10683	Pass

Client ID	Lab ID	Date/Time Analyzed
Initial Calibration	I3031301	03/13/08 11:49
Initial Calibration	I3031302	03/13/08 12:17
Initial Calibration	I3031303	03/13/08 12:45
Initial Calibration	I3031304	03/13/08 13:14
Initial Calibration	I3031305	03/13/08 13:42
Initial Calibration	I3031306	03/13/08 14:10

N/A - Not Applicable

**Form V
Tune Summary
Volatile Organics by 8260**

Client: **Alpha Analytical - Westborough**Project: **L0803236 - ERM BOSTON**Case: **N/A** SDG: **N/A**Lab Code: **MA00030**ETR: **0803047**Lab ID: **T1031302**Date Analyzed: **03/13/08 16:18**

Target Mass	Relative To Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result
50	95	15	40	20.6	42256	Pass
75	95	30	60	47	96448	Pass
95	95	100	100	100	205376	Pass
96	95	5	9	6.5	13449	Pass
173	174	0	2	0	0	Pass
174	95	50	100	68.7	141099	Pass
175	174	5	9	7.9	11150	Pass
176	174	95	101	96.6	136320	Pass
177	176	5	9	6.8	9229	Pass

Client ID	Lab ID	Date/Time Analyzed
CCV	C1031303	03/13/08 16:49
LCS	VW031308LCS04	03/13/08 17:20
LCSD	VW031308LCSD04	03/13/08 17:50
Blank	VW031308B08	03/13/08 18:52
MW-261S-20080306-01	0803047-01	03/13/08 19:56
MW-268M-20080306-01	0803047-07	03/13/08 20:29
DUP-001-20080306-01	0803047-12	03/13/08 21:02
DUP-002-20080306-01	0803047-13	03/13/08 21:36
MW-266Mb-20080306-01	0803047-04	03/13/08 22:09
MW-267M-20080306-01	0803047-06	03/13/08 22:42
MW-552-20080306-01	0803047-10	03/13/08 23:16

N/A - Not Applicable

**Form V
Tune Summary
Volatile Organics by 8260**

Client: **Alpha Analytical - Westborough**Project: **L0803236 - ERM BOSTON**Case: **N/A** SDG: **N/A**Lab Code: **MA00030**ETR: **0803047**Lab ID: **T3031401**Date Analyzed: **03/14/08 08:51**

Target Mass	Relative To Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result
50	95	15	40	27.1	52371	Pass
75	95	30	60	57.6	111309	Pass
95	95	100	100	100	193152	Pass
96	95	5	9	6.3	12223	Pass
173	174	0	2	0	0	Pass
174	95	50	100	65.8	127163	Pass
175	174	5	9	7.5	9592	Pass
176	174	95	101	99.1	125968	Pass
177	176	5	9	6.9	8721	Pass

Client ID	Lab ID	Date/Time Analyzed
CCV	C3031401	03/14/08 09:19
LCS	VW031408LCS03	03/14/08 09:48
LCSD	VW031408LCSD03	03/14/08 10:16
Blank	VW031408B04	03/14/08 10:44
MW-267S-20080306-01	0803047-05E	03/14/08 11:15
MW-553-20080306-01	0803047-11	03/14/08 12:17

N/A - Not Applicable

Form VI

Initial Calibration Summary

Volatile Organics by 8260



Client: Alpha Analytical - Westborough

Project: L0803236 - ERM BOSTON

Lab Code: MA00030

ETR: 0803047

Case: N/A SDG: N/A

Lab ID	Date/Time Analyzed
I1031201	03/12/08 09:10
I1031202	03/12/08 09:41
I1031204	03/12/08 10:42
I1031205	03/12/08 11:13
I1031206	03/12/08 11:44
I1031207	03/12/08 14:17

Parameter	Response Factors						Mean	% RSD
	2	5	50	100	200	20		
Dichlorodifluoromethane	0.88	1.12	1.34	1.53	1.37	1.51	1.29	19.2 ^a
Chloromethane	0.99	1.26	1.35	1.54	1.39	1.48	1.34	14.7
Vinyl chloride	0.65	0.84	0.92	1.05	0.99	1.02	0.91	16.3
Chloroethane	0.32	0.43	0.42	0.48	0.23	0.47	0.39	24.5 ^a
1,1-Dichloroethene	1.42	1.48	1.52	1.45	1.34	1.35	1.43	5.1
Methylene chloride		1.17	1.09	1.08	1.04	1.04	1.08	5.1
trans-1,2-Dichloroethene	1.32	1.55	1.56	1.50	1.40	1.39	1.45	6.6
1,1-Dichloroethane	1.80	2.02	1.92	1.87	1.75	1.78	1.86	5.4
cis-1,2-Dichloroethene	1.48	1.61	1.65	1.54	1.51	1.48	1.55	4.6
1,1,1-Trichloroethane	1.30	1.52	1.51	1.48	1.41	1.40	1.44	5.8
Carbon tetrachloride	1.27	1.41	1.39	1.37	1.29	1.30	1.34	4.3
1,2-Dichloroethane	1.41	1.63	1.56	1.53	1.40	1.43	1.50	6.3
Trichloroethene	0.44	0.48	0.47	0.46	0.47	0.45	0.46	3.2
1,2-Dichloropropane	0.48	0.53	0.50	0.49	0.49	0.47	0.49	3.8
Bromodichloromethane	0.66	0.71	0.69	0.68	0.69	0.65	0.68	3.0
cis-1,3-Dichloropropene	0.74	0.82	0.82	0.81	0.80	0.77	0.79	4.0
trans-1,3-Dichloropropene	0.60	0.74	0.75	0.74	0.74	0.68	0.71	8.3
1,1,2-Trichloroethane	0.35	0.43	0.40	0.40	0.40	0.38	0.39	6.8
Tetrachloroethene	0.35	0.38	0.38	0.39	0.41	0.36	0.38	5.3
1,3-Dichloropropane	0.69	0.81	0.77	0.77	0.77	0.73	0.75	5.4
Dibromochloromethane	0.51	0.59	0.61	0.62	0.63	0.57	0.59	7.6
1,2-Dibromoethane	0.46	0.53	0.53	0.54	0.55	0.49	0.52	6.9
Chlorobenzene	0.85	0.90	0.86	0.86	0.88	0.82	0.86	3.0
1,1,1,2-Tetrachloroethane	0.30	0.34	0.35	0.35	0.34	0.32	0.33	5.9
Bromoform	0.18	0.23	0.25	0.25	0.26	0.21	0.23	12.6
1,1,1,2,2-Tetrachloroethane	0.40	0.45	0.48	0.48	0.47	0.44	0.45	6.9
2-Chlorotoluene	0.80	0.88	0.90	0.89	0.91	0.83	0.87	5.1
4-Chlorotoluene	0.93	1.03	1.07	1.05	1.07	0.95	1.02	5.9
1,3-Dichlorobenzene	0.53	0.57	0.62	0.63	0.64	0.57	0.59	7.4
1,4-Dichlorobenzene	0.54	0.62	0.66	0.66	0.69	0.58	0.63	8.9
1,2-Dichlorobenzene	0.50	0.56	0.62	0.63	0.65	0.56	0.59	9.5
1,2,4-Trichlorobenzene	0.23	0.25	0.30	0.31	0.33	0.27	0.28	13.6

N/A - Not Applicable

^a - Value outside of QC advisory limits.

Form VI
Initial Calibration Summary
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**Project: **L0803236 - ERM BOSTON**Lab Code: **MA00030**ETR: **0803047**Case: **N/A** SDG: **N/A**

Lab ID	Date/Time Analyzed
I1031201	03/12/08 09:10
I1031202	03/12/08 09:41
I1031204	03/12/08 10:42
I1031205	03/12/08 11:13
I1031206	03/12/08 11:44
I1031207	03/12/08 14:17

Parameter	Response Factors						Mean	% RSD
	2	5	50	100	200	20		
Hexachlorobutadiene	0.081	0.079	0.092	0.094	0.098	0.085	0.088	8.5
Dibromofluoromethane	0.89	0.90	0.90	0.89	0.82	0.88	0.88	3.3
1,2-Dichloroethane-d4	0.81	0.83	0.83	0.82	0.74	0.81	0.81	4.0
Toluene-d8	1.23	1.24	1.25	1.25	1.26	1.24	1.25	0.9
4-Bromofluorobenzene	0.55	0.56	0.59	0.58	0.57	0.57	0.57	2.4
Average RSD								7.3

N/A - Not Applicable

Form VI

Initial Calibration Summary

Volatile Organics by 8260



Client: Alpha Analytical - Westborough

Project: L0803236 - ERM BOSTON

Lab Code: MA00030

ETR: 0803047

Case: N/A SDG: N/A

Lab ID	Date/Time Analyzed
I1031301	03/13/08 11:42
I1031302	03/13/08 12:12
I1031303	03/13/08 12:43
I1031304	03/13/08 13:14
I1031305	03/13/08 13:45
I1031306	03/13/08 14:15

Parameter	Response Factors						Mean	% RSD
	2	5	20	50	100	200		
Dichlorodifluoromethane	1.45	1.45	1.52	1.65	1.55	1.35	1.50	6.9
Chloromethane	1.78	1.56	1.49	1.64	1.56	1.42	1.58	7.9
Vinyl chloride	1.05	1.01	1.09	1.18	1.10	0.97	1.07	6.8
Chloroethane	0.59	0.51	0.49	0.54	0.51	0.41	0.51	11.8
1,1-Dichloroethene	1.51	1.35	1.36	1.44	1.37	1.22	1.37	7.1
Methylene chloride		1.05	1.01	1.08	1.05	0.99	1.04	3.4
trans-1,2-Dichloroethene	1.67	1.45	1.45	1.56	1.47	1.31	1.49	8.0
1,1-Dichloroethane	2.07	1.87	1.79	1.98	1.83	1.67	1.87	7.5
cis-1,2-Dichloroethene	1.83	1.57	1.59	1.70	1.64	1.45	1.63	8.0
1,1,1-Trichloroethane	1.70	1.48	1.48	1.56	1.50	1.36	1.51	7.5
Carbon tetrachloride	1.53	1.35	1.34	1.43	1.35	1.23	1.37	7.3
1,2-Dichloroethane	1.64	1.65	1.58	1.71	1.63	1.38	1.60	7.0
Trichloroethene	0.58	0.49	0.44	0.49	0.48	0.46	0.49	10.3
1,2-Dichloropropane	0.53	0.50	0.49	0.53	0.51	0.49	0.51	3.9
Bromodichloromethane	0.73	0.68	0.67	0.75	0.73	0.69	0.71	5.0
cis-1,3-Dichloropropene	0.81	0.77	0.78	0.87	0.85	0.81	0.81	4.9
trans-1,3-Dichloropropene	0.69	0.68	0.71	0.79	0.78	0.73	0.73	6.3
1,1,2-Trichloroethane	0.40	0.40	0.39	0.42	0.42	0.40	0.40	3.1
Tetrachloroethene	0.40	0.35	0.34	0.39	0.39	0.40	0.38	7.2
1,3-Dichloropropane	0.76	0.77	0.75	0.81	0.81	0.76	0.77	3.6
Dibromochloromethane	0.61	0.54	0.57	0.64	0.64	0.63	0.60	6.9
1,2-Dibromoethane	0.50	0.49	0.49	0.55	0.56	0.53	0.52	5.5
Chlorobenzene	0.95	0.83	0.80	0.88	0.88	0.86	0.87	5.9
1,1,1,2-Tetrachloroethane	0.35	0.32	0.32	0.36	0.35	0.33	0.34	5.2
Bromoform	0.20	0.19	0.22	0.24	0.25	0.24	0.22	10.9
1,1,1,2,2-Tetrachloroethane	0.42	0.42	0.45	0.48	0.47	0.44	0.45	5.4
2-Chlorotoluene	0.98	0.84	0.84	0.96	0.92	0.90	0.91	6.4
4-Chlorotoluene	1.03	0.92	0.99	1.12	1.09	1.07	1.04	7.0
1,3-Dichlorobenzene	0.57	0.53	0.56	0.65	0.64	0.63	0.60	8.5
1,4-Dichlorobenzene	0.63	0.57	0.61	0.69	0.68	0.67	0.64	7.2
1,2-Dichlorobenzene	0.56	0.53	0.57	0.64	0.64	0.62	0.59	8.0
1,2,4-Trichlorobenzene	0.26	0.24	0.27	0.32	0.32	0.32	0.29	12.4

N/A - Not Applicable

Form VI
Initial Calibration Summary
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**Project: **L0803236 - ERM BOSTON**Lab Code: **MA00030**ETR: **0803047**Case: **N/A** SDG: **N/A**

Lab ID	Date/Time Analyzed
11031301	03/13/08 11:42
11031302	03/13/08 12:12
11031303	03/13/08 12:43
11031304	03/13/08 13:14
11031305	03/13/08 13:45
11031306	03/13/08 14:15

Parameter	Response Factors						Mean	% RSD
	2	5	20	50	100	200		
Hexachlorobutadiene	0.11	0.083	0.083	0.097	0.096	0.095	0.094	10.7
Dibromofluoromethane	0.90	0.91	0.92	0.91	0.89	0.84	0.90	3.2
1,2-Dichloroethane-d4	0.85	0.91	0.90	0.88	0.84	0.74	0.85	7.1
Toluene-d8	1.28	1.27	1.26	1.30	1.30	1.31	1.29	1.5
4-Bromofluorobenzene	0.57	0.58	0.59	0.61	0.60	0.58	0.59	2.5
Average RSD								6.7

N/A - Not Applicable

Form VI

Initial Calibration Summary

Volatile Organics by 8260



Client: Alpha Analytical - Westborough

Project: L0803236 - ERM BOSTON

Lab Code: MA00030

ETR: 0803047

Case: N/A SDG: N/A

Lab ID	Date/Time Analyzed
I3031301	03/13/08 11:49
I3031302	03/13/08 12:17
I3031303	03/13/08 12:45
I3031304	03/13/08 13:14
I3031305	03/13/08 13:42
I3031306	03/13/08-14:10

Parameter	Response Factors						Mean	% RSD
	2	5	20	50	100	200		
Dichlorodifluoromethane	0.83	0.85	0.86	0.86	0.84	0.76	0.83	4.5
Chloromethane	1.15	1.04	0.97	0.98	0.96	0.90	1.00	8.8
Vinyl chloride	0.79	0.75	0.72	0.73	0.71	0.66	0.73	6.0
Chloroethane	0.45	0.42	0.40	0.40	0.38		0.41	6.3
1,1-Dichloroethene	0.93	0.84	0.79	0.80	0.78	0.72	0.81	9.0
Methylene chloride	0.68	0.51	0.44	0.55	0.54	0.50	0.54	15.2 ^a
trans-1,2-Dichloroethene	1.02	0.91	0.89	0.94	0.93	0.86	0.92	6.0
1,1-Dichloroethane	1.36	1.21	1.16	1.23	1.20	1.10	1.21	7.3
cis-1,2-Dichloroethene	0.91	0.91	0.87	0.94	0.94	0.91	0.91	2.8
1,1,1-Trichloroethane	0.85	0.77	0.76	0.83	0.83	0.81	0.81	4.4
Carbon tetrachloride	0.68	0.58	0.54	0.60	0.61	0.61	0.60	7.7
1,2-Dichloroethane	1.06	1.00	0.95	1.00	1.01	0.95	0.99	4.1
Trichloroethene	0.25	0.21	0.20	0.22	0.22	0.22	0.22	7.2
1,2-Dichloropropane	0.28	0.25	0.25	0.27	0.27	0.26	0.26	4.2
Bromodichloromethane	0.30	0.28	0.28	0.31	0.32	0.32	0.30	6.1
cis-1,3-Dichloropropene	0.32	0.33	0.35	0.40	0.41	0.40	0.37	11.5
trans-1,3-Dichloropropene	0.30	0.29	0.32	0.37	0.39	0.39	0.34	13.0
1,1,2-Trichloroethane	0.19	0.18	0.18	0.19	0.19	0.19	0.19	3.7
Tetrachloroethene	0.18	0.17	0.16	0.17	0.17	0.17	0.17	3.9
1,3-Dichloropropane	0.38	0.37	0.38	0.42	0.42	0.40	0.39	5.0
Dibromochloromethane	0.17	0.16	0.17	0.19	0.20	0.21	0.18	10.8
1,2-Dibromoethane	0.18	0.18	0.18	0.20	0.20	0.20	0.19	4.9
Chlorobenzene	0.80	0.76	0.74	0.82	0.83	0.80	0.79	4.4
1,1,1,2-Tetrachloroethane	0.24	0.23	0.25	0.28	0.30	0.29	0.26	10.9
Bromoforn	0.11	0.12	0.14	0.17	0.19	0.19	0.15	23.8 ^a
1,1,2,2-Tetrachloroethane	0.39	0.38	0.40	0.45	0.45	0.43	0.42	7.2
2-Chlorotoluene	0.77	0.75	0.82	0.96	0.97	0.95	0.87	11.6
4-Chlorotoluene	0.80	0.82	0.89	1.03	1.05	1.02	0.94	11.9
1,3-Dichlorobenzene	0.50	0.46	0.49	0.56	0.57	0.55	0.52	8.6
1,4-Dichlorobenzene	0.52	0.48	0.51	0.58	0.59	0.57	0.54	8.2
1,2-Dichlorobenzene	0.46	0.44	0.48	0.55	0.55	0.53	0.50	9.4
1,2,4-Trichlorobenzene	0.23	0.21	0.23	0.28	0.30	0.29	0.26	15.5 ^a

N/A - Not Applicable

^a - Value outside of QC advisory limits.

Form VI
Initial Calibration Summary
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**Lab Code: **MA00030**Project: **L0803236 - ERM BOSTON**ETR: **0803047**Case: **N/A** SDG: **N/A**

Lab ID	Date/Time Analyzed
I3031301	03/13/08 11:49
I3031302	03/13/08 12:17
I3031303	03/13/08 12:45
I3031304	03/13/08 13:14
I3031305	03/13/08 13:42
I3031306	03/13/08 14:10

Parameter	Response Factors					Mean	% RSD
	2	5	20	50	100		
Hexachlorobutadiene	0.11	0.073	0.079	0.089	0.092	0.091	12.8
Dibromofluoromethane	0.59	0.58	0.59	0.59	0.58	0.57	1.5
1,2-Dichloroethane-d4	0.97	0.94	0.96	0.95	0.97	0.94	1.4
Toluene-d8	1.01	1.02	1.01	0.99	1.00	0.99	1.1
4-Bromofluorobenzene	0.52	0.52	0.52	0.53	0.53	0.52	0.9
Average RSD							7.6

N/A - Not Applicable

Form VII Calibration Verification Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**Project: **L0803236 - ERM BOSTON**Case: **N/A** SDG: **N/A**Lab Code: **MA00030**ETR: **0803047**Lab ID: **C1031201**

Parameter	Ave. RF	CCV RF	Percent Deviation	Deviation Limit
Dichlorodifluoromethane	1.29	1.22	5.3	30
Chloromethane	1.34	1.25	6.4	30
Vinyl chloride	0.91	0.86	6.0	20
Chloroethane	0.39	0.40	0.6	30
1,1-Dichloroethene	1.43	1.42	0.2	20
Methylene chloride	1.08	1.06	2.3	30
trans-1,2-Dichloroethene	1.45	1.47	0.8	30
1,1-Dichloroethane	1.86	1.81	2.6	30
cis-1,2-Dichloroethene	1.55	1.53	1.1	30
1,1,1-Trichloroethane	1.44	1.44	0.1	30
Carbon tetrachloride	1.34	1.32	1.6	30
1,2-Dichloroethane	1.50	1.49	0.8	30
Trichloroethene	0.46	0.47	2.0	30
1,2-Dichloropropane	0.49	0.49	0.6	20
Bromodichloromethane	0.68	0.69	1.1	30
cis-1,3-Dichloropropene	0.79	0.81	1.4	30
trans-1,3-Dichloropropene	0.71	0.73	2.7	30
1,1,2-Trichloroethane	0.39	0.40	3.0	30
Tetrachloroethene	0.38	0.38	1.5	30
1,3-Dichloropropane	0.75	0.77	2.6	30
Dibromochloromethane	0.59	0.62	4.6	30
1,2-Dibromoethane	0.52	0.54	3.8	30
Chlorobenzene	0.86	0.86	0.6	30
1,1,1,2-Tetrachloroethane	0.33	0.34	2.3	30
Bromoform	0.23	0.25	6.4	30
1,1,1,2,2-Tetrachloroethane	0.45	0.47	3.8	30
2-Chlorotoluene	0.87	0.88	1.7	30
4-Chlorotoluene	1.02	1.03	1.5	30
1,3-Dichlorobenzene	0.59	0.61	3.8	30
1,4-Dichlorobenzene	0.63	0.64	2.2	30
1,2-Dichlorobenzene	0.59	0.61	4.8	30
1,2,4-Trichlorobenzene	0.28	0.30	4.8	30
Hexachlorobutadiene	0.088	0.090	2.0	30
Dibromofluoromethane	0.88	0.87	1.5	30
1,2-Dichloroethane-d4	0.81	0.79	1.9	30
Toluene-d8	1.25	1.28	2.4	30
4-Bromofluorobenzene	0.57	0.58	1.0	30
Average % D			2.5	

N/A - Not Applicable

Form VII Calibration Verification Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**Project: **L0803236 - ERM BOSTON**Case: **N/A** SDG: **N/A**Lab Code: **MA00030**ETR: **0803047**Lab ID: **C1031303**

Parameter	Ave. RF	CCV RF	Percent Deviation	Deviation Limit
Dichlorodifluoromethane	1.50	1.45	3.0	30
Chloromethane	1.58	1.40	11.2	30
Vinyl chloride	1.07	0.98	8.2	20
Chloroethane	0.51	0.46	9.1	30
1,1-Dichloroethene	1.37	1.27	7.5	20
Methylene chloride	1.04	1.01	2.6	30
trans-1,2-Dichloroethene	1.49	1.35	9.0	30
1,1-Dichloroethane	1.87	1.72	8.3	30
cis-1,2-Dichloroethene	1.63	1.51	7.1	30
1,1,1-Trichloroethane	1.51	1.40	7.6	30
Carbon tetrachloride	1.37	1.26	8.0	30
1,2-Dichloroethane	1.60	1.50	6.0	30
Trichloroethene	0.49	0.47	4.8	30
1,2-Dichloropropane	0.51	0.49	3.1	20
Bromodichloromethane	0.71	0.70	2.0	30
cis-1,3-Dichloropropene	0.81	0.80	1.4	30
trans-1,3-Dichloropropene	0.73	0.73	0.5	30
1,1,2-Trichloroethane	0.40	0.40	1.0	30
Tetrachloroethene	0.38	0.38	0.3	30
1,3-Dichloropropane	0.77	0.76	2.5	30
Dibromochloromethane	0.60	0.62	2.2	30
1,2-Dibromoethane	0.52	0.53	2.4	30
Chlorobenzene	0.87	0.84	3.1	30
1,1,1,2-Tetrachloroethane	0.34	0.33	1.5	30
Bromoform	0.22	0.23	3.9	30
1,1,2,2-Tetrachloroethane	0.45	0.44	2.1	30
2-Chlorotoluene	0.91	0.87	4.0	30
4-Chlorotoluene	1.04	1.03	1.0	30
1,3-Dichlorobenzene	0.60	0.61	1.8	30
1,4-Dichlorobenzene	0.64	0.64	0.3	30
1,2-Dichlorobenzene	0.59	0.60	0.7	30
1,2,4-Trichlorobenzene	0.29	0.30	2.1	30
Hexachlorobutadiene	0.094	0.089	5.7	30
Dibromofluoromethane	0.90	0.88	2.1	30
1,2-Dichloroethane-d4	0.85	0.80	6.6	30
Toluene-d8	1.29	1.31	1.3	30
4-Bromofluorobenzene	0.59	0.59	0.1	30
Average % D			3.9	

N/A - Not Applicable

Form VII Calibration Verification Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**Project: **L0803236 - ERM BOSTON**Case: **N/A** SDG: **N/A**Lab Code: **MA00030**ETR: **0803047**Lab ID: **C3031401**

Parameter	Ave. RF	CCV RF	Percent Deviation	Deviation Limit
Dichlorodifluoromethane	0.83	0.88	5.6	30
Chloromethane	1.00	1.01	1.3	30
Vinyl chloride	0.73	0.78	6.7	20
Chloroethane	0.41	0.44	7.0	30
1,1-Dichloroethene	0.81	0.88	8.3	20
Methylene chloride	0.54	0.49	9.2	30
trans-1,2-Dichloroethene	0.92	0.94	2.3	30
1,1-Dichloroethane	1.21	1.25	3.1	30
cis-1,2-Dichloroethene	0.91	0.95	3.9	30
1,1,1-Trichloroethane	0.81	0.82	1.6	30
Carbon tetrachloride	0.60	0.57	6.2	30
1,2-Dichloroethane	0.99	1.05	5.6	30
Trichloroethene	0.22	0.22	1.1	30
1,2-Dichloropropane	0.26	0.26	0.4	20
Bromodichloromethane	0.30	0.30	0.3	30
cis-1,3-Dichloropropene	0.37	0.39	5.7	30
trans-1,3-Dichloropropene	0.34	0.37	6.3	30
1,1,2-Trichloroethane	0.19	0.19	0.6	30
Tetrachloroethene	0.17	0.17	0.6	30
1,3-Dichloropropane	0.39	0.40	2.4	30
Dibromochloromethane	0.18	0.18	0.2	30
1,2-Dibromoethane	0.19	0.19	0.8	30
Chlorobenzene	0.79	0.84	6.0	30
1,1,1,2-Tetrachloroethane	0.26	0.28	5.4	30
Bromoform	0.15	0.17	7.9	30
1,1,2,2-Tetrachloroethane	0.42	0.46	9.8	30
2-Chlorotoluene	0.87	0.98	13.0	30
4-Chlorotoluene	0.94	1.08	15.1	30
1,3-Dichlorobenzene	0.52	0.58	12.0	30
1,4-Dichlorobenzene	0.54	0.59	10.2	30
1,2-Dichlorobenzene	0.50	0.57	13.0	30
1,2,4-Trichlorobenzene	0.26	0.28	8.8	30
Hexachlorobutadiene	0.088	0.092	4.0	30
Dibromofluoromethane	0.58	0.60	3.4	30
1,2-Dichloroethane-d4	0.95	1.02	7.0	30
Toluene-d8	1.00	1.00	0.2	30
4-Bromofluorobenzene	0.52	0.53	0.8	30
Average % D			5.3	

N/A - Not Applicable

Form VIII

Internal Standard Summary

Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**Project: **L0803236 - ERM BOSTON**Case: **N/A** SDG: **N/A**Lab Code: **MA00030**ETR: **0803047**Lab ID: **C1031201**

	Pentafluorobenzene		Fluorobenzene		Chlorobenzene-D5	
	Area	RT	Area	RT	Area	RT
Standard:	309617	5.67	707642	6.40	1005235	10.67
Upper Limit:	619234	6.17	1415284	6.90	2010470	11.17
Lower Limit:	154808	5.17	353821	5.90	502618	10.17

Client ID	Lab ID	Area	RT	Area	RT	Area	RT
LCS	VW031208LCS01	315245	5.67	722079	6.40	1000948	10.66
LCSD	VW031208LCSD01	311768	5.67	709298	6.40	1003320	10.67
Blank	VW031208B02	299831	5.67	689387	6.40	954353	10.66
TB-001-20080306-01	0803047-14	295331	5.67	669932	6.40	938054	10.67
MW-266Ma-20080306-01	0803047-03	264297	5.66	612347	6.39	874901	10.65
MW-267S-20080306-01	0803047-05	257676	5.66	599865	6.39	846262	10.65
MW-268D-20080306-01	0803047-08	245299	5.66	580923	6.39	821454	10.65
MW-551-20080306-01	0803047-09	247253	5.65	586248	6.39	827947	10.65
MW-265M-20080306-01	0803047-02	240338	5.65	580633	6.38	812238	10.65

N/A - Not Applicable

Area Upper Limit = +100% of internal standard.

Area Lower Limit = -50% of internal standard.

RT = Retention Time.

RT Upper Limit = +0.5 minutes of internal standard RT.

RT Lower Limit = -0.5 minutes of internal standard RT.

Form VIII Internal Standard Summary Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**Project: **L0803236 - ERM BOSTON**Case: **N/A** SDG: **N/A**Lab Code: **MA00030**ETR: **0803047**Lab ID: **C1031303**

	Client ID	Lab ID	Pentafluorobenzene		Fluorobenzene		Chlorobenzene-D5	
			Area	RT	Area	RT	Area	RT
Standard:			300650	5.63	681462	6.37	998678	10.63
Upper Limit:			601300	6.13	1362924	6.87	1997356	11.13
Lower Limit:			150325	5.13	340731	5.87	499339	10.13
LCS		VW031308LCS04	306283	5.64	683768	6.37	987486	10.63
LCSD		VW031308LCSD04	304003	5.64	675769	6.37	975180	10.63
Blank		VW031308B08	290770	5.64	666016	6.37	933650	10.63
MW-261S-20080306-01		0803047-01	267004	5.64	627426	6.37	882118	10.63
MW-268M-20080306-01		0803047-07	271639	5.64	623288	6.37	880136	10.63
DUP-001-20080306-01		0803047-12	257177	5.64	607178	6.37	862728	10.63
DUP-002-20080306-01		0803047-13	248110	5.64	585276	6.37	839672	10.63
MW-266Mb-20080306-01		0803047-04	241250	5.64	567830	6.37	798437	10.63
MW-267M-20080306-01		0803047-06	233537	5.64	541804	6.37	787670	10.63
MW-552-20080306-01		0803047-10	225033	5.64	552794	6.37	780704	10.63

N/A - Not Applicable

Area Upper Limit = +100% of internal standard.

Area Lower Limit = -50% of internal standard.

RT = Retention Time.

RT Upper Limit = +0.5 minutes of internal standard RT.

RT Lower Limit = -0.5 minutes of internal standard RT.

Form VIII

Internal Standard Summary

Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**Project: **L0803236 - ERM BOSTON**Lab Code: **MA00030**ETR: **0803047**Lab ID: **C3031401**Case: **N/A** SDG: **N/A**

	Client ID	Lab ID	Pentafluorobenzene		Fluorobenzene		Chlorobenzene-D5	
			Area	RT	Area	RT	Area	RT
Standard:			621796	6.37	1605667	7.16	1052776	11.54
Upper Limit:			1243592	6.87	3211334	7.66	2105552	12.04
Lower Limit:			310898	5.87	802834	6.66	526388	11.04
LCS	VW031408LCS03		624149	6.37	1624237	7.16	1037136	11.54
LCSD	VW031408LCSD03		629953	6.37	1629658	7.16	1045341	11.54
Blank	VW031408B04		583074	6.37	1576351	7.16	983660	11.54
MW-267S-20080306-01	0803047-05E		579310	6.37	1535049	7.16	966649	11.54
MW-553-20080306-01	0803047-11		558339	6.37	1491975	7.16	932559	11.54

N/A - Not Applicable

Area Upper Limit = +100% of internal standard.

Area Lower Limit = -50% of internal standard.

RT = Retention Time.

RT Upper Limit = +0.5 minutes of internal standard RT.

RT Lower Limit = -0.5 minutes of internal standard RT.

Chain of Custody Records

CHAIN OF CUSTODY

PAGE 1 OF 2

Date Recd In Lab: 3/7/08

ALPHA Job #: 20863236

ALPHA
 WESTBORO, MA
 TEL: 508-898-9220
 FAX: 508-898-9193

RAYNHAM, MA
 TEL: 508-822-8900
 FAX: 508-822-8288

Client Information

Client: ERM Bureau

Address: 399 Boston St 6th Floor
Boston, MA 02116

Phone: (617) 646-7800

Fax: (617) 267-6447

Email: Jason.Hatters@erm.com

Project Name: Rayne WYRMS

Project Location: WYRMS, MA

Project #: 0079387

Project Manager: JASON FLETCHER

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: 3/14/08 Time:

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: Rayne WYRMS

Project Location: WYRMS, MA

Project #: 0079387

Project Manager: JASON FLETCHER

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: 3/14/08 Time:

Other Project Specific Requirements/Comments/Detection Limits:

Report Information - Data Deliverables

FAX EMAIL

ADEX Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program

Criteria

MA MCP

MAMCP PRESUMPTIVE CERTAINTY - CT REASONABLE CONFIDENCE PROTOCOL

Are MCP Analytical Methods Required? Yes No

Are CT RCP (Reasonable Confidence Protocols) Required? Yes No

Billing Information

Same as Client Info

PO #:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials
		Date	Time		
03236.1	MW-2615-20030306-01	3/6/08	12:00	GW	JDF
2	MW-2654-20030306-01		09:45		EB
3	MW-2661A-20030306-01		13:45		JM
4	MW-2661B-20030306-01		15:25		JM
5	MW-2675-20030306-01		10:00		JM
6	MW-2674-20030306-01		11:20		JM
7	MW-2681-20030306-01		11:45		EB
8	MW-2682-20030306-01		12:30		EB
9	MW-551-20030306-01		16:30		EB
10	MW-552-20030306-01		14:42		JDF

ANALYSIS
 CROCS 80216 by 8260
 TOTAL PHOSPHORUS
 SULFATE & NITRATE
 DES. FS (field filtered)
 TOC

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

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
 MA MCP or CT RCP?

Container Type	Preservative	Date/Time	Received By	Date/Time
Y	P	11:47	JDF	3/7/08
B	D			
A	A			
C	C			
D	D			

FORM NO. 01-01 (rev. 10-OCT-05)

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time info will not start until any ambiguities resolved. All samples submitted subject to Alpha's Payment Term See reverse side.

CHAIN OF CUSTODY

PAGE 2 OF 2

ALPHA
 WOODS POND, LLC
 RAVENHAM, MA
 TEL: 508-898-9220
 FAX: 508-898-9193

TEL: 508-822-9300
 FAX: 508-822-3288

Client Information

Client: ERM-Boston

Address: 399 Boston St. 6th Fl.

Phone: 617-646-3800

Fax: 617-267-6447

Email: 1530.Staffing@erm.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: Raytheon-Wayland

Project Location: Wayland, MA

Project #: 0279337

Project Manager: Susan Fleckney

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: 3/11/08 Time:

Date Rec'd In Lab: 3/7/08

ALPHA Job #: 20803236

Report Information - Data Deliverables

FAX EMAIL

ADEX Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program Criteria

MA MCP Method 1 GW-1

MAMC/PRESUMPTIVE CERTAINTY...CT REASONABLE CONFIDENCE PROTOCOLS

Yes No Are MCP Analytical Methods Required?

Yes No Are CT RCP (Reasonable Confidence Protocols) Required?

ANALYSIS
 CVOCS 80218 by 8260
 TOTAL PHOSPHORUS
 SULFATE & NITRATE
 Diss. Fe (field filtered)
 TOC

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

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Container Type		Date/Time	Received By	Date/Time
		Date	Time			VP	PP			
03236.11	MW. 553-20080306-01	3/6/08	16:41	GW	JDF	2	1	1	1	2
12	DWP-001-20080306-01		24:00		EB	2	1	1	1	2
13	DWP-002-20080306-01		24:00		JDF	2				
14	TB-001-20080306-01	2/4/08	19:30	TB	KOSB	1				

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
 MA MCP or CT RCP?

Relinquished By: [Signature]

Date/Time: 3/10/08 14:15

Received By: [Signature]

Date/Time: 3/10/08 1:15

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities resolved. All samples submitted subject to Alpha's Payment Terms See reverse side.



Sample Delivery Group Form

Laboratory Job No: LCB03236
 Receipt Date/Time: 3/7/08 1715

Client: EQM-MA
 SDG Reviewer: wm

Samples Delivered By:

Alpha Courier Client UPS FedEx Other _____
 Bill of Laden: Yes Unavailable Tracking #: _____

Chain of Custody: Present Absent: _____

Custody Seals: Absent Present/Intact Present/Broken

Cooler/Sample Temperature:

Is/Ice/Blue Ice present? Yes No N/A _____

Temp taken from: Temp Blank: (a) 2.2 (b) _____ (c) _____ (d) _____ (e) _____

IR Gun: (a) _____ (b) _____ (c) _____ (d) _____ (e) _____

Was Temp: 2-6 Celsius

<2 Celsius ... were samples frozen upon receipt? Yes No

>6 Celsius ... were samples delivered direct from site? Yes No

Containers Received: Intact

Broken/Leaking Sample IDs: _____

Sample IDs: _____

All Containers Accounted For? Yes

No: _____

Extra Samples Received? No

Yes: _____

Do Sample Labels and COC agree? Yes

No: _____

Are Samples in Appropriate Containers? Yes

No: _____

Are samples rec'd within holding time? Yes

No: _____

* Please note: the analysis of pH will always be performed beyond the regulatory-required holding time of 15 min. from the time of collection.

pH of samples upon receipt: N/A <2 >12 and/or 7

Are samples properly preserved? Yes No If No then.....

Initial pH= _____ preserved In-House with HCL H₂SO₄ HNO₃ <<Final pH = _____>>

Other Issues: _____

Chlorine Check: N/A Present Absent

VOA/MPH vials: Yes No

Aqueous: vials contain head space? No Yes: _____

Soils: MeOH covering soil? Yes No: _____

Reagent H₂O Preserved vials Frozen @ date/time: _____

Frozen by Client? No Yes @ date/time: _____

Was Client notified of any discrepancies listed above?

Yes No N/A

If Yes: Call Tracker # _____

Sample Receipt Checklist

Page 1 of 1

Client: <u>Alpha Analytical</u>	Receipt Date: <u>3/11/08</u>
Project: <u>40803236-ERM</u>	Log-in Date: <u>3/12/08</u>
ETR #: <u>0803047</u>	Inspection by: <u>Jm</u> Login by: <u>lr</u>

ALL SECTIONS BELOW MUST BE COMPLETED

Comments / Notes

Were samples shipped? Yes, FedEx / UPS / Other: _____ No, <u>Alpha Analytical Courier pick-up</u> / Hand delivered	Sample storage refrigerator #: <u>VOA</u>
Is bill of lading retained? Yes, Tracking #: _____ No, Unavailable / <u>NA</u>	Sample storage freezer #: _____
Number of coolers received for this project delivery: <u>1</u>	Cooler 2: _____ Cooler 3: _____
Indicate cooler temperature upon opening (if multiple coolers, record <u>all</u> temps): Note: If <u>all</u> coolers are 2-6°C, use one checklist, if NOT, use separate checklists and note <u>all</u> samples received <u>above</u> 6°C.	Cooler 4: _____ Cooler 5: _____
Cooler 1: Temperature(s) taken from: <u>5°</u> IR Gun, <u>6°</u> Temp. Blank, / NA	Cooler 6: _____ Cooler 7: _____
Were samples received on ice? <u>Yes</u> / No	More: _____
Chain-of-Custody present? <u>Yes</u> / No	
Complete? <u>Yes</u> / No	
Custody seals present on Cooler? Yes / <u>No</u>	
on Bottles? Yes / <u>No</u>	
Intact? Yes / No / <u>NA</u>	
Note: Affix custody seals to back of this page.	
Were sample containers intact? <u>Yes</u> / No If No, list samples: →	
Did VOA/VPH waters contain headspace (>5mm)? Yes / <u>No</u> / NA If Yes, list samples: →	
Were 5035 VOA soils, or VPH soils, covered with MeOH? Yes / No / <u>NA</u> If No, list samples: →	
Was a sufficient amount of sample received for each test indicated on the COC? <u>Yes</u> / No If No, list samples: →	
If chemical preservation is appropriate - Were samples field preserved? <u>Yes</u> / No / NA <input checked="" type="checkbox"/> C=HCl <input type="checkbox"/> M=MeOH <input type="checkbox"/> S=H ₂ SO ₄ <input type="checkbox"/> H=NaOH <input type="checkbox"/> N=HNO ₃ <input type="checkbox"/> Other: _____ <input type="checkbox"/> U=Unknown	Chemical preservation OK for ALL samples? Yes / No / <u>NA</u>
Preservation (pH) verified at lab for <u>EVERY</u> bottle? (<u>Not</u> : VOA / VPH / Sulfide) YES: <2 or >12 (CN) or NO NA If No, why?:	If No, list samples below: <u>rec'd 40803236-14A</u> <u>NOT ON COC</u>
Were samples received within hold time? <u>Yes</u> / No If No, list samples: →	
Discrepancy between samples rec'd & COC? <u>Yes</u> / No If Yes, list samples: →	
Was the Project Manager notified of any other problems? Yes / No / NA	
Project Manager Acknowledgement: _____ Date: _____	Please use back for any additional notes!

Certificate/Approval Program Summary



Method numbers assume the most recent EPA revisions. For a complete listing of analytes for the referenced methods please contact your Alpha Woods Hole Lab Project Manager or the Quality Assurance Manager.

Connecticut Department of Public Health Certificate/Lab ID : PH-0141 - *Wastewater* (General Chemistry: EPA 120.1, 150.1, 160.1, 160.2, 180.1, 300.0, 310.1, 335.2; Metals: 200.8, 245.1; Organics: 608-PCB, ETPH)
Solid Waste/Soil (General Chemistry: 1010, 9010/9014, 9045, 9060; Metals: 6020, 7470, 7471; Organics: 8081, 8082, 8260, 8270, ETPH).

Florida Department of Health Certificate/Lab ID : E87814 - Primary NELAP Accreditation Authority for Air & Emissions. Secondary NELAP Accreditation for Wastewater and Solid & Hazardous Waste. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 335.2, SM2320B, SM2340B, SM2540G, SM4500NH₃; Metals: 245.1; Organics: 608-PCB). *Solid and Hazardous Waste* (General Chemistry: 9010/9014, 9045, 9050, 9056, 9065, Reactivity 7.3; Metals: 6020, 7470, 7471; Organics: 8081, 8082, 8260, 8270). *Air & Emissions* (Organics: EPA TO-15).

Louisiana Department of Environmental Quality Certificate/Lab ID : 03090 - Primary NELAP Accrediting Authority for Wastewater, Solid & Hazardous Waste. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 376.2, 9010/9014, 9056, SM2540G; Metals: 200.8, 245.1, 6020; Organics: 608-PCB, 8015-DRO, 8081, 8082, 8260, 8270). *Solid and Hazardous Waste* (General Chemistry: 1010, 1311, 9010/9014, 9040, 9045, 9056, 9060, Reactivity 7.3; Metals: 6020, 7196, 7470, 7471; Organics: 8015-DRO, 8081, 8082, 8260, 8270).

Maine Department of Human Services Certificate/Lab ID : MA0030 - *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 160.1/SM2540C, 160.2/SM2540D, 300.0, 310.1/SM2320B, 335.2; Metals: EPA 245.1; Organics: 608-PCB).

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030 - *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 300.0, 310.1/SM2320B, 335.2; Metals: EPA 245.1; Organics: EPA 608-PCB).

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206 - Secondary NELAP Accreditation. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 376.2, SM2540G; Metals: 200.8, 245.4; Organics: 608-PCB).

New Jersey Department of Environmental Protection Certificate/Lab ID : MA015 - Secondary NELAP Accreditation. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 376.2, 9010/9014, 9056, SM2540G; Metals: 200.8, 245.1 6020; Organics: 608-PCB, 8081, 8082, 8260, 8270). *Solid & Hazardous Waste* (General Chemistry: EPA 1010, 1311, 9010/9014, 9040, 9045, 9056, 9060; Metals: 6020, 7196, 7470, 7471; Organics: 8015-DRO, 8081, 8082, 8260, 8270). *Air & Emissions* (Organics: EPA TO-15).

New York Department of Health Certificate/Lab ID : 11627 - Secondary NELAP Accreditation. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 300.0, 310.1/SM2320B, 376.2; Metals: 200.8, 245.1; Organics: 608-PCB). *Solid and Hazardous Waste* (General Chemistry: EPA 1010, 1311; : 200.8; 8020; 7041; Organics: 8081, 8082, 8260, 8270). *Air & Emissions* (Organics: EPA TO-15).

Rhode Island Department of Health Certificate/Lab ID : LAO00289 - Chemistry: *Organic and Inorganic in Non-Poratable Water, Wastewater/Sewage and Soil* (Refer to LADEQ and MADEP certificates for method numbers.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-02089 - Registered laboratory

U.S. Army Corps of Engineers

Department of the Navy



ANALYTICAL REPORT

Lab Number:	L0803223
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Project Name:	RAYTHEON-WAYLAND
Project Number:	0079387
Report Date:	03/14/08

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0803223
Report Date: 03/14/08

Alpha Sample ID	Client ID	Sample Location
L0803223-01	DEP-19M-20080306-01	WAYLAND, MA
L0803223-02	MW-264M-20080306-01	WAYLAND, MA

Project Name: RAYTHEON-WAYLAND

Lab Number: L0803223

Project Number: 0079387

Report Date: 03/14/08

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. 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?	N/A
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?	YES
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0803223
Report Date: 03/14/08

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Report Submission

The analysis of Volatile Organics by Method 8260B was performed at our Mansfield facility. The report is included as an addendum, and the results can be viewed on ADEx under Alpha Job L0803479.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Metals

In reference to question F:

All samples were analyzed for a subset of MCP elements per the Chain of Custody.

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

Authorized Signature:



Title: Technical Director/Representative

Date: 03/14/08

METALS

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0803223**Project Number:** 0079387**Report Date:** 03/14/08**SAMPLE RESULTS**

Lab ID: L0803223-02

Date Collected: 03/06/08 14:45

Client ID: MW-264M-20080306-01

Date Received: 03/07/08

Sample Location: WAYLAND, MA

Field Prep: Field Filtered

Matrix: Water

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Iron, Dissolved	11		mg/l	0.05	1	03/08/08 13:45	03/10/08 13:43	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND

Lab Number: L0803223

Project Number: 0079387

Report Date: 03/14/08

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series for sample(s): 02 Batch: WG313976-1									
Iron, Dissolved	ND		mg/l	0.05	1	03/08/08 13:45	03/10/08 13:13	60,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0803223

Project Number: 0079387

Report Date: 03/14/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals by MCP 6000/7000 series Associated sample(s): 02 Batch: WG313976-2 WG313976-3					
Iron, Dissolved	94	92	80-120	2	20

INORGANICS & MISCELLANEOUS

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0803223**Project Number:** 0079387**Report Date:** 03/14/08**SAMPLE RESULTS**

Lab ID: L0803223-01
Client ID: DEP-19M-20080306-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 03/06/08 16:15
Date Received: 03/07/08
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Total Organic Carbon	1.0		mg/l	0.50	1	-	03/14/08 06:20	1,9060	DW



Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0803223
Report Date: 03/14/08

SAMPLE RESULTS

Lab ID: L0803223-02
Client ID: MW-264M-20080306-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 03/06/08 14:45
Date Received: 03/07/08
Field Prep: Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry									
Nitrogen, Nitrate	ND		mg/l	0.10	1	-	03/07/08 21:02	30,4500NO3-F	DD
Phosphorus, Total	0.05		mg/l	0.01	1	-	03/11/08 15:00	30,4500P-E	HS
Sulfate	28		mg/l	10	1	03/11/08 14:30	03/11/08 14:30	1,9038	ST
Total Organic Carbon	1.3		mg/l	0.50	1	-	03/14/08 06:20	1,9060	DW



Project Name: RAYTHEON-WAYLAND

Lab Number: L0803223

Project Number: 0079387

Report Date: 03/14/08

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry for sample(s): 02 Batch: WG313918-2								
Nitrogen, Nitrate	ND	mg/l	0.10	1	-	03/07/08 20:38	30,4500NO3-F	DD
General Chemistry for sample(s): 02 Batch: WG314166-1								
Sulfate	ND	mg/l	10	1	03/11/08 14:30	03/11/08 14:30	1,9038	ST
General Chemistry for sample(s): 02 Batch: WG314220-1								
Phosphorus, Total	ND	mg/l	0.01	1	-	03/11/08 15:00	30,4500P-E	HS
General Chemistry for sample(s): 01-02 Batch: WG314534-1								
Total Organic Carbon	ND	mg/l	0.50	1	-	03/14/08 06:20	1,9060	DW

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Project Number: 0079387

Lab Number: L0803223

Report Date: 03/14/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Associated sample(s): 02 Batch: WG313918-1					
Nitrogen, Nitrate	102	-	90-110	-	
Associated sample(s): 02 Batch: WG314166-2					
Sulfate	105	-	84-108	-	
Associated sample(s): 02 Batch: WG314220-2					
Phosphorus, Total	105	-	85-115	-	
Associated sample(s): 01-02 Batch: WG314534-2					
Total Organic Carbon	98	-	90-110	-	

Matrix Spike Analysis Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0803223

Project Number: 0079387

Report Date: 03/14/08

Parameter	Native Sample	MS Added	MS Found	MS		MSD		Recovery Limits	RPD	RPD Limits
				%Recovery	MSD Found	%Recovery				
Associated sample(s): 02 QC Batch ID: WG313918-3 QC Sample: L0803212-02 Client ID: MS Sample										
Nitrogen, Nitrate	11	4	15	100	-	-	83-120	-	6	
Associated sample(s): 02 QC Batch ID: WG314166-3 QC Sample: L0803236-11 Client ID: MS Sample										
Sulfate	25	40	70	112	-	-	55-147	-	14	
Associated sample(s): 02 QC Batch ID: WG314220-4 QC Sample: L0803236-02 Client ID: MS Sample										
Phosphorus, Total	ND	0.5	0.49	99	-	-	80-120	-	20	
Associated sample(s): 01-02 QC Batch ID: WG314534-3 QC Sample: L0803236-06 Client ID: MS Sample										
Total Organic Carbon	1.2	4	5.0	94	-	-	80-120	-	20	

Lab Duplicate Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Project Number: 0079387

Lab Number: L0803223

Report Date: 03/14/08

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Associated sample(s): 02 QC Batch ID: WG313918-4 QC Sample: L0803212-01 Client ID: DUP Sample					
Nitrogen, Nitrate	12	12	mg/l	0	6
Associated sample(s): 02 QC Batch ID: WG314166-4 QC Sample: L0803236-11 Client ID: DUP Sample					
Sulfate	25	24	mg/l	4	14
Associated sample(s): 02 QC Batch ID: WG314220-3 QC Sample: L0803236-01 Client ID: DUP Sample					
Phosphorus, Total	0.04	0.04	mg/l	5	20
Associated sample(s): 01-02 QC Batch ID: WG314534-4 QC Sample: L0803236-04 Client ID: DUP Sample					
Total Organic Carbon	1.1	1.0	mg/l	10	20

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0803223**Project Number:** 0079387**Report Date:** 03/14/08**Sample Receipt and Container Information**

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
L0803223-01A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803223-01B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803223-01C	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803223-01D	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803223-02A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803223-02B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	SUB-MAN-8260
L0803223-02C	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803223-02D	Vial H2SO4 preserved	A	N/A	2.2C	Y	Absent	TOC-9060
L0803223-02E	Plastic 250ml HNO3 preserved	A	<2	2.2C	Y	Absent	MCP-FE-6010S
L0803223-02F	Plastic 500ml unpreserved	A	7	2.2C	Y	Absent	NO3-4500,SO4-9038
L0803223-02G	Plastic 500ml H2SO4 preserved	A	<2	2.2C	Y	Absent	TPHOS-4500

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0803223
Report Date: 03/14/08

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
 LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
 LCSD- Laboratory Control Sample Duplicate: Refer to LCS.
 MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
 MSD - Matrix Spike Sample Duplicate: Refer to MS.
 NA - Not Applicable.
 NI - Not Ignitable.
 NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
 ND - Not detected at the reported detection limit for the sample.
 RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
 RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Not Specified



Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0803223
Report Date: 03/14/08

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 30 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.
- 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.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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



CHAIN OF CUSTODY

PAGE 1 OF 1



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

RAYNHAM, MA
TEL: 508-822-9300
FAX: 508-822-3288

Client Information

Client: ERM-Boston

Address: 399 Bowdoin St. 6th Floor

Phone: 617-646-7800

Fax: 617-267-6447

Email: Jason.Flatley@erm.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: Raytheon-Wayland

Project Location: Wayland, MA

Project #: 0034337

Project Manager: Jason Ferragary

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)
Date Due: 3/11/08 Time:

Date Rec'd in Lab: 3/7/08

Report Information - Data Deliverables

FAX EMAIL Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program MA MCP Criteria Method 1 GW-1

MAMCP PRESUMPTIVE CERTAINTY ... CT REASONABLE CONFIDENCE PROTOCOL

Are MCP Analytical Methods Required? Yes No

Are CT RCP (Reasonable Confidence Protocol) Required? Yes No

Billing Information

Same as Client info PO #:

ALPHA Job #: 20803223

ANALYSIS
8021B by 8260 (EVS)
TOTAL PHOSPHORUS
SILFATE & NITRATE
Diss. Fe (Filtered)
TOC

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

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Date	Time	Sample Matrix	Sampler's Initials	Date/Time	Container Type	Preservative	Date/Time	Received By:	Date/Time	Sample Specific Comments
		Date	Time													
03223.1	DEP-1911-20080504-01	3/6/08	16:15	GW	JDF						V	P	3/10/08 11:17	James Spalace 3/10/08 11:17		
	2 MW-ZGM-20080506-01	3/6/08	14:45	GW	EB						V	P	3/7/08 17:15	Leanne Spalace 3/7/08 17:15		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

FORM NO: 01-01 (rev. 10-OCT-05)

Relinquished By: James Spalace 3/7/08 Date/Time: 3/10/08 11:17

Received By: Leanne Spalace 3/7/08 17:15 Date/Time: 3/7/08 17:15

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time doc will not start until any ambiguities resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.



ANALYTICAL REPORT

Prepared for:
Alpha Analytical - Westborough
8 Walkup Drive
Westborough, MA 01581

Project: L0803223 - ERM BOSTON
ETR: 0803046
Report Date: March 14, 2008

Certifications and Accreditations

Massachusetts M-MA030
Connecticut PH-0141
New Hampshire 2206
Rhode Island LAO00289
New Jersey MA015
Maine MA0030
New York 11627
Louisiana 03090
Florida E87814
Pennsylvania 68-02089
Army Corps of Engineers
Department of the Navy

This report shall not be reproduced except in full, without written approval from the laboratory.



Sample ID Cross Reference

Client: **Alpha Analytical - Westborough**
Project: **L0803223 - ERM BOSTON**

Lab Code: **MA00030**
ETR: **0803046**

Lab Sample ID	Client Sample ID
<u>0803046-01</u>	<u>DEP-19M-20080306-01</u>
<u>0803046-02</u>	<u>MW-264M-20080306-01</u>

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Alpha Analytical
Project Number: 0803046
Project Location: MCP RTN #¹:

This Form provides certifications for the following data set: [Laboratory Sample ID Number(s)]:

0803046-01 through 0803046-02

Sample Matrices: **Groundwater** **Soil/Sediment** **Drinking Water** **Other:**

MCP SW-846 Methods used (as specified in MADEP Compendium of Analytical Methods)

Check all that apply:

8260B (X)	8151A ()	8330 ()	6010B ()	7470A/1A ()
8270C ()	8081A ()	VPH ()	6020 ()	9014M ² ()
8082 ()	8021B ()	EPH ()	7000 S ³ ()	Other:

¹ – List Release Tracking Number (RTN), if known.

²M – SW-846 Method 9014 or MADEP Physiologically Available Cyanide (PAC) Method.

³S – SW-846 Methods 7000 Series. List individual method and analyte.

An affirmative response to question A, B, C and D is required for "Presumptive Certainty" status.

A	Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No¹
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?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No¹
C	Does the data included in this report meet all the analytical requirements for "Presumptive Certainty", as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for Acquisition and Reporting of Analytical Data"?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No¹
D	<i>VPH and EPH methods only:</i> Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective Methods)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No¹

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

E	Were all analytical QC performance standards and recommendations for the specified methods achieved?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No¹
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No¹

¹ All Negative responses must be addressed in an attached Environmental Laboratory 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 analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Peter Henriksen **Position:** Project Manager

Printed Name: Peter Henriksen **Date:** 3-14-08

CASE NARRATIVE

Alpha Analytical

ETR: 0803046


Project: L0803223-ERM BOSTON

All analyses were performed according to Alpha Analytical quality assurance program and documented Standard Operating Procedures (SOPs). The analytical results contained in this report were performed within holding time, and with appropriate quality control measures, except where noted. All soil/sediment results are reported on a dry weight basis unless otherwise noted. A summary of all state and federal accreditations is provided within this report. Blank correction of results is not performed in the laboratory for any parameter. Alpha Analytical certifies that the test results within meet all of the requirements of NELAC, for all NELAC accredited parameters.

Volatile Organics by 8260

1. The initial calibration had values for compounds outside of the 15% RSD QC advisory limit. Refer to the Form VI Initial Calibration Summary report for specific outliers. This initial calibration meets the acceptability criteria.
2. Per client request, only a subset of the MCP analyte list for SW-846 Method 8260B Volatile Organic Compounds by GC/MS were reported.

The enclosed results of analyses are representative of the samples as received by the laboratory. Alpha Analytical makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Alpha Analytical. To the best of my knowledge, the information contained in this report is accurate and complete. For any questions regarding this report, please contact the signatory below at 508-822-9300.

Approved by:  _____ Title: Project Manager Date: 3/14/08
Peter Henriksen

i

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VOLATILE ORGANICS

Form I

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803223 - ERM BOSTON**
 Client ID: **DEP-19M-20080306-01**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803046**
 Lab ID: **0803046-01**
 Associated Blank: **VW031208B02**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
03/06/08	03/11/08	03/12/08	5	5	1	ALM

Parameter	Result
Dichlorodifluoromethane	2.00 U
Chloromethane	2.00 U
Vinyl chloride	2.00 U
Chloroethane	2.00 U
1,1-Dichloroethene	2.00 U
Methylene chloride	5.00 U
trans-1,2-Dichloroethene	2.00 U
1,1-Dichloroethane	2.00 U
cis-1,2-Dichloroethene	14.7
1,1,1-Trichloroethane	2.00 U
Carbon tetrachloride	2.00 U
1,2-Dichloroethane	2.00 U
Trichloroethene	2.65
1,2-Dichloropropane	2.00 U
Bromodichloromethane	2.00 U
cis-1,3-Dichloropropene	2.00 U
trans-1,3-Dichloropropene	2.00 U
1,1,2-Trichloroethane	2.00 U
Tetrachloroethene	2.00 U
1,3-Dichloropropane	2.00 U
Dibromochloromethane	2.00 U
1,2-Dibromoethane	2.00 U
Chlorobenzene	2.00 U
1,1,1,2-Tetrachloroethane	2.00 U
Bromoform	2.00 U
1,1,2,2-Tetrachloroethane	2.00 U
2-Chlorotoluene	2.00 U
4-Chlorotoluene	2.00 U
1,3-Dichlorobenzene	2.00 U
1,4-Dichlorobenzene	2.00 U
1,2-Dichlorobenzene	2.00 U
1,2,4-Trichlorobenzene	2.00 U
Hexachlorobutadiene	2.00 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	101	70-130
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	90	70-130
4-Bromofluorobenzene	98	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803223 - ERM BOSTON**
 Client ID: **MW-264M-20080306-01**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803046**
 Lab ID: **0803046-02**
 Associated Blank: **VW031308B08**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
03/06/08	03/11/08	03/13/08	5	5	1	ALM

Parameter	Result
Dichlorodifluoromethane	2.00 U
Chloromethane	2.00 U
Vinyl chloride	2.74
Chloroethane	2.00 U
1,1-Dichloroethene	2.00 U
Methylene chloride	5.00 U
trans-1,2-Dichloroethene	2.00 U
1,1-Dichloroethane	2.00 U
cis-1,2-Dichloroethene	48.9
1,1,1-Trichloroethane	2.00 U
Carbon tetrachloride	2.00 U
1,2-Dichloroethane	2.00 U
Trichloroethene	43.9
1,2-Dichloropropane	2.00 U
Bromodichloromethane	2.00 U
cis-1,3-Dichloropropene	2.00 U
trans-1,3-Dichloropropene	2.00 U
1,1,2-Trichloroethane	2.00 U
Tetrachloroethene	8.05
1,3-Dichloropropane	2.00 U
Dibromochloromethane	2.00 U
1,2-Dibromoethane	2.00 U
Chlorobenzene	2.00 U
1,1,1,2-Tetrachloroethane	2.00 U
Bromoform	2.00 U
1,1,2,2-Tetrachloroethane	2.00 U
2-Chlorotoluene	2.00 U
4-Chlorotoluene	2.00 U
1,3-Dichlorobenzene	2.00 U
1,4-Dichlorobenzene	2.00 U
1,2-Dichlorobenzene	2.00 U
1,2,4-Trichlorobenzene	2.00 U
Hexachlorobutadiene	2.00 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	98	70-130
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	88	70-130
4-Bromofluorobenzene	94	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803223 - ERM BOSTON**
 Client ID: **Blank**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803046**
 Lab ID: **VW031208B02**
 Associated Blank: **N/A**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/12/08	5	5	1	ALM

Parameter	Result
Dichlorodifluoromethane	2.00 U
Chloromethane	2.00 U
Vinyl chloride	2.00 U
Chloroethane	2.00 U
1,1-Dichloroethene	2.00 U
Methylene chloride	5.00 U
trans-1,2-Dichloroethene	2.00 U
1,1-Dichloroethane	2.00 U
cis-1,2-Dichloroethene	2.00 U
1,1,1-Trichloroethane	2.00 U
Carbon tetrachloride	2.00 U
1,2-Dichloroethane	2.00 U
Trichloroethene	2.00 U
1,2-Dichloropropane	2.00 U
Bromodichloromethane	2.00 U
cis-1,3-Dichloropropene	2.00 U
trans-1,3-Dichloropropene	2.00 U
1,1,2-Trichloroethane	2.00 U
Tetrachloroethene	2.00 U
1,3-Dichloropropane	2.00 U
Dibromochloromethane	2.00 U
1,2-Dibromoethane	2.00 U
Chlorobenzene	2.00 U
1,1,1,2-Tetrachloroethane	2.00 U
Bromoform	2.00 U
1,1,2,2-Tetrachloroethane	2.00 U
2-Chlorotoluene	2.00 U
4-Chlorotoluene	2.00 U
1,3-Dichlorobenzene	2.00 U
1,4-Dichlorobenzene	2.00 U
1,2-Dichlorobenzene	2.00 U
1,2,4-Trichlorobenzene	2.00 U
Hexachlorobutadiene	2.00 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	102	70-130
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	96	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803223 - ERM BOSTON**
 Client ID: **Blank**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803046**
 Lab ID: **VW031308B08**
 Associated Blank: **N/A**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/13/08	5	5	1	ALM

Parameter	Result
Dichlorodifluoromethane	2.00 U
Chloromethane	2.00 U
Vinyl chloride	2.00 U
Chloroethane	2.00 U
1,1-Dichloroethene	2.00 U
Methylene chloride	5.00 U
trans-1,2-Dichloroethene	2.00 U
1,1-Dichloroethane	2.00 U
cis-1,2-Dichloroethene	2.00 U
1,1,1-Trichloroethane	2.00 U
Carbon tetrachloride	2.00 U
1,2-Dichloroethane	2.00 U
Trichloroethene	2.00 U
1,2-Dichloropropane	2.00 U
Bromodichloromethane	2.00 U
cis-1,3-Dichloropropene	2.00 U
trans-1,3-Dichloropropene	2.00 U
1,1,2-Trichloroethane	2.00 U
Tetrachloroethene	2.00 U
1,3-Dichloropropane	2.00 U
Dibromochloromethane	2.00 U
1,2-Dibromoethane	2.00 U
Chlorobenzene	2.00 U
1,1,1,2-Tetrachloroethane	2.00 U
Bromoform	2.00 U
1,1,2,2-Tetrachloroethane	2.00 U
2-Chlorotoluene	2.00 U
4-Chlorotoluene	2.00 U
1,3-Dichlorobenzene	2.00 U
1,4-Dichlorobenzene	2.00 U
1,2-Dichlorobenzene	2.00 U
1,2,4-Trichlorobenzene	2.00 U
Hexachlorobutadiene	2.00 U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	97	70-130
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	96	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Form III Spike Recovery Summary Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803223 - ERM BOSTON**
 Client ID: **Laboratory Control Sample**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803046**
 Lab ID: **See Below**
 Associated Blank: **VW031208B02**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/12/08	5	5	1	ALM

Lab ID: VW031208B02 VW031208LCS01 VW031208LCSD01

Parameter	Blank Conc.	U	LCS		LCSD		% RPD	RPD - % Recovery	
			Conc.	% Recovery	Conc.	% Recovery		Limit	Limits
Dichlorodifluoromethane	2.00	U	21.6	108	21.0	105	3	25	70-130
Chloromethane	2.00	U	21.1	106	19.9	99	6	25	70-130
Vinyl chloride	2.00	U	22.2	111	22.1	111	0	25	70-130
Chloroethane	2.00	U	24.6	123	23.0	115	7	25	70-130
1,1-Dichloroethene	2.00	U	19.3	96	19.0	95	1	25	70-130
Methylene chloride	5.00	U	18.9	94	18.8	94	0	25	70-130
trans-1,2-Dichloroethene	2.00	U	19.5	97	18.9	94	3	25	70-130
1,1-Dichloroethane	2.00	U	19.5	97	18.9	94	3	25	70-130
cis-1,2-Dichloroethene	2.00	U	19.7	98	19.0	95	4	25	70-130
1,1,1-Trichloroethane	2.00	U	19.8	99	19.1	95	4	25	70-130
Carbon tetrachloride	2.00	U	19.4	97	18.7	94	3	25	70-130
1,2-Dichloroethane	2.00	U	19.6	98	19.5	98	1	25	70-130
Trichloroethene	2.00	U	20.1	100	19.5	98	3	25	70-130
1,2-Dichloropropane	2.00	U	19.4	97	19.5	97	0	25	70-130
Bromodichloromethane	2.00	U	19.7	99	19.2	96	3	25	70-130
cis-1,3-Dichloropropene	2.00	U	19.4	97	19.3	96	1	25	70-130
trans-1,3-Dichloropropene	2.00	U	19.4	97	19.1	96	2	25	70-130
1,1,2-Trichloroethane	2.00	U	19.6	98	19.4	97	1	25	70-130
Tetrachloroethene	2.00	U	20.3	102	19.4	97	5	25	70-130
1,3-Dichloropropane	2.00	U	19.7	99	19.4	97	1	25	70-130
Dibromochloromethane	2.00	U	19.6	98	20.0	100	2	25	70-130
1,2-Dibromoethane	2.00	U	19.6	98	19.5	98	1	25	70-130
Chlorobenzene	2.00	U	19.7	98	19.2	96	3	25	70-130
1,1,1,2-Tetrachloroethane	2.00	U	19.7	98	19.7	98	0	25	70-130
Bromoform	2.00	U	19.7	98	18.7	93	5	25	70-130
1,1,2,2-Tetrachloroethane	2.00	U	19.7	99	19.3	96	2	25	70-130
2-Chlorotoluene	2.00	U	19.8	99	19.0	95	4	25	70-130
4-Chlorotoluene	2.00	U	19.0	95	18.3	91	4	25	70-130
1,3-Dichlorobenzene	2.00	U	20.0	100	19.2	96	4	25	70-130
1,4-Dichlorobenzene	2.00	U	19.6	98	19.5	97	1	25	70-130
1,2-Dichlorobenzene	2.00	U	20.3	101	19.4	97	4	25	70-130
1,2,4-Trichlorobenzene	2.00	U	20.3	101	19.4	97	5	25	70-130
Hexachlorobutadiene	2.00	U	21.9	110	19.5	98	11	25	70-130

Surrogate	% Recovery		Acceptance Range (%)
Dibromofluoromethane	98	98	70-130
1,2-Dichloroethane-d4	97	97	70-130
Toluene-d8	100	102	70-130
4-Bromofluorobenzene	100	99	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

03/14/08 11:24

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Form III Spike Recovery Summary Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803223 - ERM BOSTON**
 Client ID: **Laboratory Control Sample**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0803046**
 Lab ID: **See Below**
 Associated Blank: **VW031308B08**
 Concentration Units: **µg/L**

Date Collected	Date Received	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/13/08	5	5	1	ALM

Lab ID: VW031308B08 VW031308LCS04 VW031308LCSD04

Parameter	Blank Conc.	U	LCS		LCSD		% RPD	RPD - % Recovery	
			Conc.	% Recovery	Conc.	% Recovery		Limit	Limits
Dichlorodifluoromethane	2.00	U	17.8	89	17.8	89	0	25	70-130
Chloromethane	2.00	U	16.4	82	16.9	85	3	25	70-130
Vinyl chloride	2.00	U	18.3	92	18.5	93	1	25	70-130
Chloroethane	2.00	U	17.4	87	18.0	90	4	25	70-130
1,1-Dichloroethene	2.00	U	20.5	103	20.6	103	0	25	70-130
Methylene chloride	5.00	U	19.9	99	20.3	102	2	25	70-130
trans-1,2-Dichloroethene	2.00	U	18.8	94	20.0	100	6	25	70-130
1,1-Dichloroethane	2.00	U	19.3	96	19.8	99	3	25	70-130
cis-1,2-Dichloroethene	2.00	U	18.4	92	19.4	97	5	25	70-130
1,1,1-Trichloroethane	2.00	U	19.0	95	19.8	99	4	25	70-130
Carbon tetrachloride	2.00	U	19.1	95	19.7	99	3	25	70-130
1,2-Dichloroethane	2.00	U	18.6	93	18.7	94	1	25	70-130
Trichloroethene	2.00	U	19.9	99	20.4	102	3	25	70-130
1,2-Dichloropropane	2.00	U	20.6	103	20.3	102	1	25	70-130
Bromodichloromethane	2.00	U	19.2	96	19.9	100	4	25	70-130
cis-1,3-Dichloropropene	2.00	U	19.7	99	19.7	99	0	25	70-130
trans-1,3-Dichloropropene	2.00	U	19.3	97	19.5	98	1	25	70-130
1,1,2-Trichloroethane	2.00	U	19.8	99	19.8	99	0	25	70-130
Tetrachloroethene	2.00	U	21.3	106	22.2	111	4	25	70-130
1,3-Dichloropropane	2.00	U	19.5	98	19.6	98	0	25	70-130
Dibromochloromethane	2.00	U	19.9	99	20.1	100	1	25	70-130
1,2-Dibromoethane	2.00	U	19.9	99	20.6	103	3	25	70-130
Chlorobenzene	2.00	U	19.6	98	20.0	100	2	25	70-130
1,1,1,2-Tetrachloroethane	2.00	U	20.1	100	20.4	102	2	25	70-130
Bromoform	2.00	U	19.8	99	19.9	99	0	25	70-130
1,1,2,2-Tetrachloroethane	2.00	U	19.5	97	18.8	94	4	25	70-130
2-Chlorotoluene	2.00	U	19.0	95	19.9	100	5	25	70-130
4-Chlorotoluene	2.00	U	19.1	95	19.8	99	4	25	70-130
1,3-Dichlorobenzene	2.00	U	20.0	100	20.7	103	3	25	70-130
1,4-Dichlorobenzene	2.00	U	19.7	98	20.2	101	3	25	70-130
1,2-Dichlorobenzene	2.00	U	19.8	99	20.4	102	3	25	70-130
1,2,4-Trichlorobenzene	2.00	U	20.0	100	20.1	101	1	25	70-130
Hexachlorobutadiene	2.00	U	20.6	103	20.3	102	2	25	70-130

Surrogate	% Recovery		Acceptance Range (%)
Dibromofluoromethane	96	96	70-130
1,2-Dichloroethane-d4	90	90	70-130
Toluene-d8	100	100	70-130
4-Bromofluorobenzene	98	100	70-130

N/A - Not Applicable

U - The analyte was analyzed for but not detected at the sample specific level reported.

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

03/14/08 11:25
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Supporting Quality Control Results

Form II
Surrogate Recovery
Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803223 - ERM BOSTON**

Lab Code: **MA00030**

ETR: **0803046**

Matrix: **Water**

Case: **N/A** SDG: **N/A**

Client ID	Lab ID	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
LCS	VW031208LCS01	98	97	100	100
LCSD	VW031208LCSD01	98	97	102	99
Blank	VW031208B02	102	101	101	96
DEP-19M-20080306-01	0803046-01	101	106	90	98
LCS	VW031308LCS04	96	90	100	98
LCSD	VW031308LCSD04	96	90	100	100
Blank	VW031308B08	97	95	98	96
MW-264M-20080306-01	0803046-02	98	98	88	94

N/A - Not Applicable

Surrogate	QC Limit
Dibromofluoromethane	70-130
1,2-Dichloroethane-d4	70-130
Toluene-d8	70-130
4-Bromofluorobenzene	70-130

**Form IV
Method Blank Summary
Volatile Organics by 8260**



Client: **Alpha Analytical - Westborough**

Project: **L0803223 - ERM BOSTON**

Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**

ETR: **0803046**

Lab ID: **VW031208B02**

Date Analyzed: **03/12/08 16:51**

Client ID	Lab ID	Date/Time Analyzed
LCS	VW031208LCS01	03/12/08 15:19
LCSD	VW031208LCSD01	03/12/08 15:50
DEP-19M-20080306-01	0803046-01	03/12/08 17:53

N/A - Not Applicable

**Form IV
Method Blank Summary
Volatile Organics by 8260**



Client: **Alpha Analytical - Westborough**

Project: **L0803223 - ERM BOSTON**

Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**

ETR: **0803046**

Lab ID: **VW031308B08**

Date Analyzed: **03/13/08 18:52**

Client ID	Lab ID	Date/Time Analyzed
LCS	VW031308LCS04	03/13/08 17:20
LCSD	VW031308LCSD04	03/13/08 17:50
MW-264M-20080306-01	0803046-02	03/13/08 19:22

N/A - Not Applicable

**Form V
Tune Summary
Volatile Organics by 8260**

Client: **Alpha Analytical - Westborough**Project: **L0803223 - ERM BOSTON**Case: **N/A** SDG: **N/A**Lab Code: **MA00030**ETR: **0803046**Lab ID: **T1031201**Date Analyzed: **03/12/08 08:39**

Target Mass	Relative To Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result
50	95	15	40	21.4	45101	Pass
75	95	30	60	47.1	99181	Pass
95	95	100	100	100	210496	Pass
96	95	5	9	6.6	13976	Pass
173	174	0	2	0	0	Pass
174	95	50	100	69.2	145600	Pass
175	174	5	9	7.7	11160	Pass
176	174	95	101	97.7	142208	Pass
177	176	5	9	6.6	9418	Pass

Client ID	Lab ID	Date/Time Analyzed
Initial Calibration	I1031201	03/12/08 09:10
Initial Calibration	I1031202	03/12/08 09:41
Initial Calibration	I1031204	03/12/08 10:42
Initial Calibration	I1031205	03/12/08 11:13
Initial Calibration	I1031206	03/12/08 11:44
Initial Calibration	I1031207	03/12/08 14:17

N/A - Not Applicable

**Form V
Tune Summary
Volatile Organics by 8260**

Client: **Alpha Analytical - Westborough**Project: **L0803223 - ERM BOSTON**Case: **N/A** SDG: **N/A**Lab Code: **MA00030**ETR: **0803046**Lab ID: **T1031202**Date Analyzed: **03/12/08 13:47**

Target Mass	Relative To Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result
50	95	15	40	21.5	44045	Pass
75	95	30	60	46.4	94901	Pass
95	95	100	100	100	204693	Pass
96	95	5	9	6.9	14054	Pass
173	174	0	2	0	0	Pass
174	95	50	100	71.6	146475	Pass
175	174	5	9	7.5	11025	Pass
176	174	95	101	95.6	140075	Pass
177	176	5	9	6.4	8962	Pass

Client ID	Lab ID	Date/Time Analyzed
CCV	C1031201	03/12/08 14:48
LCS	VW031208LCS01	03/12/08 15:19
LCSD	VW031208LCSD01	03/12/08 15:50
Blank	VW031208B02	03/12/08 16:51
DEP-19M-20080306-01	0803046-01	03/12/08 17:53

N/A - Not Applicable

**Form V
Tune Summary
Volatile Organics by 8260**

Client: **Alpha Analytical - Westborough**Project: **L0803223 - ERM BOSTON**Case: **N/A** SDG: **N/A**Lab Code: **MA00030**ETR: **0803046**Lab ID: **T1031301**Date Analyzed: **03/13/08 08:44**

Target Mass	Relative To Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result
50	95	15	40	24.5	43397	Pass
75	95	30	60	51.1	90472	Pass
95	95	100	100	100	177152	Pass
96	95	5	9	6.1	10803	Pass
173	174	0	2	0	0	Pass
174	95	50	100	63.1	111861	Pass
175	174	5	9	7.8	8708	Pass
176	174	95	101	97.1	108616	Pass
177	176	5	9	6.4	6997	Pass

Client ID	Lab ID	Date/Time Analyzed
Initial Calibration	11031301	03/13/08 11:42
Initial Calibration	11031302	03/13/08 12:12
Initial Calibration	11031303	03/13/08 12:43
Initial Calibration	11031304	03/13/08 13:14
Initial Calibration	11031305	03/13/08 13:45
Initial Calibration	11031306	03/13/08 14:15

N/A - Not Applicable

**Form V
Tune Summary
Volatile Organics by 8260**

Client: **Alpha Analytical - Westborough**Project: **L0803223 - ERM BOSTON**Case: **N/A** SDG: **N/A**Lab Code: **MA00030**ETR: **0803046**Lab ID: **T1031302**Date Analyzed: **03/13/08 16:18**

Target Mass	Relative To Mass	Lower Limit %	Upper Limit %	Relative Abundance %	Raw Abundance	Result
50	95	15	40	20.6	42256	Pass
75	95	30	60	47	96448	Pass
95	95	100	100	100	205376	Pass
96	95	5	9	6.5	13449	Pass
173	174	0	2	0	0	Pass
174	95	50	100	68.7	141099	Pass
175	174	5	9	7.9	11150	Pass
176	174	95	101	96.6	136320	Pass
177	176	5	9	6.8	9229	Pass

Client ID	Lab ID	Date/Time Analyzed
CCV	C1031303	03/13/08 16:49
LCS	VW031308LCS04	03/13/08 17:20
LCSD	VW031308LCSD04	03/13/08 17:50
Blank	VW031308B08	03/13/08 18:52
MW-264M-20080306-01	0803046-02	03/13/08 19:22

N/A - Not Applicable

Form VI

Initial Calibration Summary

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803223 - ERM BOSTON**

Lab Code: **MA00030**

ETR: **0803046**

Case: **N/A** SDG: **N/A**

Lab ID	Date/Time Analyzed
I1031201	03/12/08 09:10
I1031202	03/12/08 09:41
I1031204	03/12/08 10:42
I1031205	03/12/08 11:13
I1031206	03/12/08 11:44
I1031207	03/12/08 14:17

Parameter	Response Factors						Mean	% RSD
	2	5	50	100	200	20		
Dichlorodifluoromethane	0.88	1.12	1.34	1.53	1.37	1.51	1.29	19.2 ^a
Chloromethane	0.99	1.26	1.35	1.54	1.39	1.48	1.34	14.7
Vinyl chloride	0.65	0.84	0.92	1.05	0.99	1.02	0.91	16.3
Chloroethane	0.32	0.43	0.42	0.48	0.23	0.47	0.39	24.5 ^a
1,1-Dichloroethene	1.42	1.48	1.52	1.45	1.34	1.35	1.43	5.1
Methylene chloride		1.17	1.09	1.08	1.04	1.04	1.08	5.1
trans-1,2-Dichloroethene	1.32	1.55	1.56	1.50	1.40	1.39	1.45	6.6
1,1-Dichloroethane	1.80	2.02	1.92	1.87	1.75	1.78	1.86	5.4
cis-1,2-Dichloroethene	1.48	1.61	1.65	1.54	1.51	1.48	1.55	4.6
1,1,1-Trichloroethane	1.30	1.52	1.51	1.48	1.41	1.40	1.44	5.8
Carbon tetrachloride	1.27	1.41	1.39	1.37	1.29	1.30	1.34	4.3
1,2-Dichloroethane	1.41	1.63	1.56	1.53	1.40	1.43	1.50	6.3
Trichloroethene	0.44	0.48	0.47	0.46	0.47	0.45	0.46	3.2
1,2-Dichloropropane	0.48	0.53	0.50	0.49	0.49	0.47	0.49	3.8
Bromodichloromethane	0.66	0.71	0.69	0.68	0.69	0.65	0.68	3.0
cis-1,3-Dichloropropene	0.74	0.82	0.82	0.81	0.80	0.77	0.79	4.0
trans-1,3-Dichloropropene	0.60	0.74	0.75	0.74	0.74	0.68	0.71	8.3
1,1,2-Trichloroethane	0.35	0.43	0.40	0.40	0.40	0.38	0.39	6.8
Tetrachloroethene	0.35	0.38	0.38	0.39	0.41	0.36	0.38	5.3
1,3-Dichloropropane	0.69	0.81	0.77	0.77	0.77	0.73	0.75	5.4
Dibromochloromethane	0.51	0.59	0.61	0.62	0.63	0.57	0.59	7.6
1,2-Dibromoethane	0.46	0.53	0.53	0.54	0.55	0.49	0.52	6.9
Chlorobenzene	0.85	0.90	0.86	0.86	0.88	0.82	0.86	3.0
1,1,1,2-Tetrachloroethane	0.30	0.34	0.35	0.35	0.34	0.32	0.33	5.9
Bromoform	0.18	0.23	0.25	0.25	0.26	0.21	0.23	12.6
1,1,1,2,2-Tetrachloroethane	0.40	0.45	0.48	0.48	0.47	0.44	0.45	6.9
2-Chlorotoluene	0.80	0.88	0.90	0.89	0.91	0.83	0.87	5.1
4-Chlorotoluene	0.93	1.03	1.07	1.05	1.07	0.95	1.02	5.9
1,3-Dichlorobenzene	0.53	0.57	0.62	0.63	0.64	0.57	0.59	7.4
1,4-Dichlorobenzene	0.54	0.62	0.66	0.66	0.69	0.58	0.63	8.9
1,2-Dichlorobenzene	0.50	0.56	0.62	0.63	0.65	0.56	0.59	9.5
1,2,4-Trichlorobenzene	0.23	0.25	0.30	0.31	0.33	0.27	0.28	13.6

N/A - Not Applicable

^a - Value outside of QC advisory limits.

Form VI
Initial Calibration Summary
Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803223 - ERM BOSTON**

Lab Code: **MA00030**
 ETR: **0803046**

Case: **N/A** SDG: **N/A**

Lab ID	Date/Time Analyzed
I1031201	03/12/08 09:10
I1031202	03/12/08 09:41
I1031204	03/12/08 10:42
I1031205	03/12/08 11:13
I1031206	03/12/08 11:44
I1031207	03/12/08 14:17

Parameter	Response Factors						Mean	% RSD
	2	5	50	100	200	20		
Hexachlorobutadiene	0.081	0.079	0.092	0.094	0.098	0.085	0.088	8.5
Dibromofluoromethane	0.89	0.90	0.90	0.89	0.82	0.88	0.88	3.3
1,2-Dichloroethane-d4	0.81	0.83	0.83	0.82	0.74	0.81	0.81	4.0
Toluene-d8	1.23	1.24	1.25	1.25	1.26	1.24	1.25	0.9
4-Bromofluorobenzene	0.55	0.56	0.59	0.58	0.57	0.57	0.57	2.4
Average RSD								7.3

N/A - Not Applicable

Form VI

Initial Calibration Summary

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803223 - ERM BOSTON**

Lab Code: **MA00030**
 ETR: **0803046**

Case: **N/A** SDG: **N/A**

Lab ID	Date/Time Analyzed
I1031301	03/13/08 11:42
I1031302	03/13/08 12:12
I1031303	03/13/08 12:43
I1031304	03/13/08 13:14
I1031305	03/13/08 13:45
I1031306	03/13/08 14:15

Parameter	Response Factors						Mean	% RSD
	2	5	20	50	100	200		
Dichlorodifluoromethane	1.45	1.45	1.52	1.65	1.55	1.35	1.50	6.9
Chloromethane	1.78	1.56	1.49	1.64	1.56	1.42	1.58	7.9
Vinyl chloride	1.05	1.01	1.09	1.18	1.10	0.97	1.07	6.8
Chloroethane	0.59	0.51	0.49	0.54	0.51	0.41	0.51	11.8
1,1-Dichloroethene	1.51	1.35	1.36	1.44	1.37	1.22	1.37	7.1
Methylene chloride		1.05	1.01	1.08	1.05	0.99	1.04	3.4
trans-1,2-Dichloroethene	1.67	1.45	1.45	1.56	1.47	1.31	1.49	8.0
1,1-Dichloroethane	2.07	1.87	1.79	1.98	1.83	1.67	1.87	7.5
cis-1,2-Dichloroethene	1.83	1.57	1.59	1.70	1.64	1.45	1.63	8.0
1,1,1-Trichloroethane	1.70	1.48	1.48	1.56	1.50	1.36	1.51	7.5
Carbon tetrachloride	1.53	1.35	1.34	1.43	1.35	1.23	1.37	7.3
1,2-Dichloroethane	1.64	1.65	1.58	1.71	1.63	1.38	1.60	7.0
Trichloroethene	0.58	0.49	0.44	0.49	0.48	0.46	0.49	10.3
1,2-Dichloropropane	0.53	0.50	0.49	0.53	0.51	0.49	0.51	3.9
Bromodichloromethane	0.73	0.68	0.67	0.75	0.73	0.69	0.71	5.0
cis-1,3-Dichloropropene	0.81	0.77	0.78	0.87	0.85	0.81	0.81	4.9
trans-1,3-Dichloropropene	0.69	0.68	0.71	0.79	0.78	0.73	0.73	6.3
1,1,2-Trichloroethane	0.40	0.40	0.39	0.42	0.42	0.40	0.40	3.1
Tetrachloroethene	0.40	0.35	0.34	0.39	0.39	0.40	0.38	7.2
1,3-Dichloropropane	0.76	0.77	0.75	0.81	0.81	0.76	0.77	3.6
Dibromochloromethane	0.61	0.54	0.57	0.64	0.64	0.63	0.60	6.9
1,2-Dibromoethane	0.50	0.49	0.49	0.55	0.56	0.53	0.52	5.5
Chlorobenzene	0.95	0.83	0.80	0.88	0.88	0.86	0.87	5.9
1,1,1,2-Tetrachloroethane	0.35	0.32	0.32	0.36	0.35	0.33	0.34	5.2
Bromoform	0.20	0.19	0.22	0.24	0.25	0.24	0.22	10.9
1,1,2,2-Tetrachloroethane	0.42	0.42	0.45	0.48	0.47	0.44	0.45	5.4
2-Chlorotoluene	0.98	0.84	0.84	0.96	0.92	0.90	0.91	6.4
4-Chlorotoluene	1.03	0.92	0.99	1.12	1.09	1.07	1.04	7.0
1,3-Dichlorobenzene	0.57	0.53	0.56	0.65	0.64	0.63	0.60	8.5
1,4-Dichlorobenzene	0.63	0.57	0.61	0.69	0.68	0.67	0.64	7.2
1,2-Dichlorobenzene	0.56	0.53	0.57	0.64	0.64	0.62	0.59	8.0
1,2,4-Trichlorobenzene	0.26	0.24	0.27	0.32	0.32	0.32	0.29	12.4

N/A - Not Applicable

Form VI
Initial Calibration Summary
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**Project: **L0803223 - ERM BOSTON**Lab Code: **MA00030**ETR: **0803046**Case: **N/A** SDG: **N/A**

Lab ID	Date/Time Analyzed
I1031301	03/13/08 11:42
I1031302	03/13/08 12:12
I1031303	03/13/08 12:43
I1031304	03/13/08 13:14
I1031305	03/13/08 13:45
I1031306	03/13/08 14:15

Parameter	Response Factors						Mean	% RSD
	2	5	20	50	100	200		
Hexachlorobutadiene	0.11	0.083	0.083	0.097	0.096	0.095	0.094	10.7
Dibromofluoromethane	0.90	0.91	0.92	0.91	0.89	0.84	0.90	3.2
1,2-Dichloroethane-d4	0.85	0.91	0.90	0.88	0.84	0.74	0.85	7.1
Toluene-d8	1.28	1.27	1.26	1.30	1.30	1.31	1.29	1.5
4-Bromofluorobenzene	0.57	0.58	0.59	0.61	0.60	0.58	0.59	2.5
Average RSD								6.7

N/A - Not Applicable

Form VII Calibration Verification Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
Project: **L0803223 - ERM BOSTON**

Lab Code: **MA00030**

ETR: **0803046**

Lab ID: **C1031201**

Case: **N/A** SDG: **N/A**

Parameter	Ave. RF	CCV RF	Percent Deviation	Deviation Limit
Dichlorodifluoromethane	1.29	1.22	5.3	30
Chloromethane	1.34	1.25	6.4	30
Vinyl chloride	0.91	0.86	6.0	20
Chloroethane	0.39	0.40	0.6	30
1,1-Dichloroethene	1.43	1.42	0.2	20
Methylene chloride	1.08	1.06	2.3	30
trans-1,2-Dichloroethene	1.45	1.47	0.8	30
1,1-Dichloroethane	1.86	1.81	2.6	30
cis-1,2-Dichloroethene	1.55	1.53	1.1	30
1,1,1-Trichloroethane	1.44	1.44	0.1	30
Carbon tetrachloride	1.34	1.32	1.6	30
1,2-Dichloroethane	1.50	1.49	0.8	30
Trichloroethene	0.46	0.47	2.0	30
1,2-Dichloropropane	0.49	0.49	0.6	20
Bromodichloromethane	0.68	0.69	1.1	30
cis-1,3-Dichloropropene	0.79	0.81	1.4	30
trans-1,3-Dichloropropene	0.71	0.73	2.7	30
1,1,2-Trichloroethane	0.39	0.40	3.0	30
Tetrachloroethene	0.38	0.38	1.5	30
1,3-Dichloropropane	0.75	0.77	2.6	30
Dibromochloromethane	0.59	0.62	4.6	30
1,2-Dibromoethane	0.52	0.54	3.8	30
Chlorobenzene	0.86	0.86	0.6	30
1,1,1,2-Tetrachloroethane	0.33	0.34	2.3	30
Bromoform	0.23	0.25	6.4	30
1,1,2,2-Tetrachloroethane	0.45	0.47	3.8	30
2-Chlorotoluene	0.87	0.88	1.7	30
4-Chlorotoluene	1.02	1.03	1.5	30
1,3-Dichlorobenzene	0.59	0.61	3.8	30
1,4-Dichlorobenzene	0.63	0.64	2.2	30
1,2-Dichlorobenzene	0.59	0.61	4.8	30
1,2,4-Trichlorobenzene	0.28	0.30	4.8	30
Hexachlorobutadiene	0.088	0.090	2.0	30
Dibromofluoromethane	0.88	0.87	1.5	30
1,2-Dichloroethane-d4	0.81	0.79	1.9	30
Toluene-d8	1.25	1.28	2.4	30
4-Bromofluorobenzene	0.57	0.58	1.0	30
Average % D			2.5	

N/A - Not Applicable

Form VII Calibration Verification Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803223 - ERM BOSTON**
 Case: **N/A** SDG: **N/A**

Lab Code: **MA00030**
 ETR: **0803046**
 Lab ID: **C1031303**

Parameter	Ave. RF	CCV RF	Percent Deviation	Deviation Limit
Dichlorodifluoromethane	1.50	1.45	3.0	30
Chloromethane	1.58	1.40	11.2	30
Vinyl chloride	1.07	0.98	8.2	20
Chloroethane	0.51	0.46	9.1	30
1,1-Dichloroethene	1.37	1.27	7.5	20
Methylene chloride	1.04	1.01	2.6	30
trans-1,2-Dichloroethene	1.49	1.35	9.0	30
1,1-Dichloroethane	1.87	1.72	8.3	30
cis-1,2-Dichloroethene	1.63	1.51	7.1	30
1,1,1-Trichloroethane	1.51	1.40	7.6	30
Carbon tetrachloride	1.37	1.26	8.0	30
1,2-Dichloroethane	1.60	1.50	6.0	30
Trichloroethene	0.49	0.47	4.8	30
1,2-Dichloropropane	0.51	0.49	3.1	20
Bromodichloromethane	0.71	0.70	2.0	30
cis-1,3-Dichloropropene	0.81	0.80	1.4	30
trans-1,3-Dichloropropene	0.73	0.73	0.5	30
1,1,2-Trichloroethane	0.40	0.40	1.0	30
Tetrachloroethene	0.38	0.38	0.3	30
1,3-Dichloropropane	0.77	0.76	2.5	30
Dibromochloromethane	0.60	0.62	2.2	30
1,2-Dibromoethane	0.52	0.53	2.4	30
Chlorobenzene	0.87	0.84	3.1	30
1,1,1,2-Tetrachloroethane	0.34	0.33	1.5	30
Bromoform	0.22	0.23	3.9	30
1,1,2,2-Tetrachloroethane	0.45	0.44	2.1	30
2-Chlorotoluene	0.91	0.87	4.0	30
4-Chlorotoluene	1.04	1.03	1.0	30
1,3-Dichlorobenzene	0.60	0.61	1.8	30
1,4-Dichlorobenzene	0.64	0.64	0.3	30
1,2-Dichlorobenzene	0.59	0.60	0.7	30
1,2,4-Trichlorobenzene	0.29	0.30	2.1	30
Hexachlorobutadiene	0.094	0.089	5.7	30
Dibromofluoromethane	0.90	0.88	2.1	30
1,2-Dichloroethane-d4	0.85	0.80	6.6	30
Toluene-d8	1.29	1.31	1.3	30
4-Bromofluorobenzene	0.59	0.59	0.1	30
Average % D			3.9	

N/A - Not Applicable

Form VIII
Internal Standard Summary
Volatile Organics by 8260

Client: **Alpha Analytical - Westborough**Project: **L0803223 - ERM BOSTON**Lab Code: **MA00030**ETR: **0803046**Lab ID: **C1031201**Case: **N/A** SDG: **N/A**

	Pentafluorobenzene		Fluorobenzene		Chlorobenzene-D5		
	Area	RT	Area	RT	Area	RT	
Standard:	309617	5.67	707642	6.40	1005235	10.67	
Upper Limit:	619234	6.17	1415284	6.90	2010470	11.17	
Lower Limit:	154808	5.17	353821	5.90	502618	10.17	
Client ID	Lab ID						
LCS	VW031208LCS01	315245	5.67	722079	6.40	1000948	10.66
LCSD	VW031208LCSD01	311768	5.67	709298	6.40	1003320	10.67
Blank	VW031208B02	299831	5.67	689387	6.40	954353	10.66
DEP-19M-20080306-01	0803046-01	285427	5.66	650771	6.40	914750	10.66

N/A - Not Applicable

Area Upper Limit = +100% of internal standard.

Area Lower Limit = -50% of internal standard.

RT = Retention Time.

RT Upper Limit = +0.5 minutes of internal standard RT.

RT Lower Limit = -0.5 minutes of internal standard RT.

Form VIII

Internal Standard Summary

Volatile Organics by 8260



Client: **Alpha Analytical - Westborough**
 Project: **L0803223 - ERM BOSTON**

Lab Code: **MA00030**

ETR: **0803046**

Lab ID: **C1031303**

Case: **N/A** SDG: **N/A**

	Pentafluorobenzene		Fluorobenzene		Chlorobenzene-D5		
	Area	RT	Area	RT	Area	RT	
Standard:	300650	5.63	681462	6.37	998678	10.63	
Upper Limit:	601300	6.13	1362924	6.87	1997356	11.13	
Lower Limit:	150325	5.13	340731	5.87	499339	10.13	
Client ID	Lab ID						
LCS	VW031308LCS04	306283	5.64	683768	6.37	987486	10.63
LCSD	VW031308LCSD04	304003	5.64	675769	6.37	975180	10.63
Blank	VW031308B08	290770	5.64	666016	6.37	933650	10.63
MW-264M-20080306-01	0803046-02	283645	5.64	636285	6.37	913522	10.63

N/A - Not Applicable

Area Upper Limit = +100% of internal standard.

Area Lower Limit = -50% of internal standard.

RT = Retention Time.

RT Upper Limit = +0.5 minutes of internal standard RT.

RT Lower Limit = -0.5 minutes of internal standard RT.

Chain of Custody Records

CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA Job #: 20803223

Date Rec'd in Lab: 3/7/08

Project Information
Project Name: Raytheon-Wayland
Project Location: Wayland, MA
Project #: 0079387
Project Manager: Jason Ferraro
ALPHA Quote #: _____
Turn-Around Time _____

Project Information
Project Name: Raytheon-Wayland
Project Location: Wayland, MA
Project #: 0079387
Project Manager: Jason Ferraro
ALPHA Quote #: _____
Turn-Around Time _____

Client Information
Client: ERM-Boston
Address: 399 Boylston St. 16th Floor
Boston, MA 02116
Phone: 617-646-7800
Fax: 617-267-6447
Email: Jason.Ferraro@erm.com

Regulatory Requirements/Report Limits
State/Fed Program: MA MCP
Method: GW-1
MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOL

Regulatory Requirements/Report Limits
State/Fed Program: MA MCP
Method: GW-1
MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOL

Other Project Specific Requirements/Comments/Detection Limits:
 Standard RUSH (only confirmed if pre-approved!)
Date Due: 3/14/08 Time: _____
 These samples have been previously analyzed by Alpha

Report Information - Data Deliverables
 FAX EMAIL
 ADEs Add'l Deliverables

Other Project Specific Requirements/Comments/Detection Limits:
 Yes No Are MCP Analytical Methods Required?
 Yes No Are CT RCP (Reasonable Confidence Protocols) Required?

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials
03223.1	DEP-19M-20080506-01	3/6/08	16:15	GW	JDF
2	MW-26M-20080506-01	3/6/08	14:45	GW	EB

802 RB by 8260 (KXG)
TOTAL PARAMETERS
SULFATE X/NITRATE
DISS. Fe (ppb)
TDC

ANALYSIS

Sample Handling
Filtration Done
 Not needed
 Lab to do
Preservation Lab to do
(Please specify below)

Sample Specific Comments

PLEASE ANSWER QUESTIONS ABOVE!
IS YOUR PROJECT MA MCP or CT RCP?
Relinquished By: ARyan Date/Time: 3/7/08 11:00 AM
Received By: Michael Jackson Date/Time: 3/7/08 11:18 AM

Container Type: V P P V
Preservative: BEA HNO3
Date/Time: 3/7/08 11:00 AM
Received By: Michael Jackson
Date/Time: 3/7/08 11:18 AM

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.



Sample Delivery Group Form

Laboratory Job No: 2080 3223
 Receipt Date/Time: 3/7/08 1715

Client: ERM - Boston
 SDG Reviewer: wm

Samples Delivered By:

Alpha Courier Client UPS FedEx Other _____
 Bill of Laden: Yes Unavailable Tracking #: _____

Chain of Custody: Present Absent: _____

Custody Seals: Absent Present/Intact Present/Broken

Cooler/Sample Temperature:

Is Ice/Blue Ice present? Yes No N/A _____

Temp taken from: Temp Blank: (a) 2.2° (b) _____ (c) _____ (d) _____ (e) _____

IR Gun: (a) _____ (b) _____ (c) _____ (d) _____ (e) _____

Was Temp: 2-6 Celsius

<2 Celsius ... were samples frozen upon receipt? Yes No

>6 Celsius ... were samples delivered direct from site? Yes No

Containers Received:

Intact
 Broken/Leaking Sample IDs: _____
 Sample IDs: _____

All Containers Accounted For? Yes

No: _____

Extra Samples Received? No

Yes: _____

Do Sample Labels and COC agree? Yes

No: _____

Are Samples in Appropriate Containers? Yes

No: _____

Are samples rec'd within holding time? Yes

No: _____

* Please note: the analysis of pH will always be performed beyond the regulatory-required holding time of 15 min. from the time of collection.

pH of samples upon receipt: N/A <2 >12 and/or 7 _____

Are samples properly preserved? Yes No If No then.....

Initial pH= _____ preserved In-House with HCL H₂SO₄ HNO₃ <<Final pH = _____>>

Other Issues: _____

Chlorine Check: N/A Present Absent

VOANPH vials: Yes No

Aqueous: vials contain head space? No Yes: _____

Soils: MeOH covering soil? Yes No: _____

Reagent H₂O Preserved vials Frozen @ date/time: _____

Frozen by Client? No Yes @ date/time: _____

Was Client notified of any discrepancies listed above?

Yes No N/A

If Yes: Call Tracker # _____

Sample Receipt Checklist

Page 1 of 1

Client: <u>Alpha Analytical</u>	Receipt Date: <u>3/11/08</u>
Project: <u>A0803223-ERM</u>	Log-in Date: <u>3/12/08</u>
ETR #: <u>0803046</u>	Inspection by: <u>Jm</u> Login by: <u>w</u>

ALL SECTIONS BELOW MUST BE COMPLETED

Comments / Notes

Were samples shipped? Yes, FedEx / UPS / Other: _____ <u>No</u> , <u>Alpha Analytical Courier pick-up</u> / Hand delivered	Sample storage refrigerator #: <u>VOA</u>
Is bill of lading retained? Yes, Tracking #: _____ No, Unavailable / <u>NA</u>	Sample storage freezer #: _____
Number of coolers received for this project delivery: <u>1</u>	
Indicate cooler temperature upon opening (if multiple coolers, record <u>all</u> temps): Note: If <u>all</u> coolers are 2-6°C, use one checklist, if NOT, use separate checklists and note <u>all</u> samples received <u>above</u> 6°C. Cooler 1: Temperature(s) taken from: <u>5°</u> IR Gun, <u>6°</u> Temp. Blank, / NA	Cooler 2: _____ Cooler 3: _____ Cooler 4: _____ Cooler 5: _____ Cooler 6: _____ Cooler 7: _____ More: _____
Were samples received on ice? <u>Yes</u> / No	
Chain-of-Custody present? <u>Yes</u> / No Complete? <u>Yes</u> / No	
Custody seals present on Cooler? Yes / <u>No</u> on Bottles? Yes / <u>No</u> Intact? Yes / No / <u>NA</u>	
Note: Affix custody seals to back of this page.	
Were sample containers intact? <u>Yes</u> / No If No, list samples: →	
Did VOA/VPH waters contain headspace (>5mm)? Yes / <u>No</u> / NA If Yes, list samples: →	
Were 5035 VOA soils, or VPH soils, covered with MeOH? Yes / No / <u>NA</u> If No, list samples: →	
Was a sufficient amount of sample received for each test indicated on the COC? <u>Yes</u> / No If No, list samples: →	
If chemical preservation is appropriate - Were samples field preserved? <u>Yes</u> / No / NA <input checked="" type="checkbox"/> C=HCl <input type="checkbox"/> M=MeOH <input type="checkbox"/> S=H ₂ SO ₄ <input type="checkbox"/> H=NaOH <input type="checkbox"/> N=HNO ₃ <input type="checkbox"/> Other: _____ <input type="checkbox"/> U=Unknown	Chemical preservation OK for ALL samples? Yes / No / <u>NA</u> If No, list samples below:
Preservation (pH) verified at lab for EVERY bottle? (Not: VOA / VPH / Sulfide) YES: <2 or >12 (CN) or NO <u>NA</u> If No, why?:	
Were samples received within hold time? <u>Yes</u> / No If No, list samples: →	
Discrepancy between samples rec'd & COC? Yes / <u>No</u> If Yes, list samples: →	
Was the Project Manager notified of any other problems? Yes / No / NA	
Project Manager Acknowledgement: _____ Date: _____	Please use back for any additional notes!

Certificate/Approval Program Summary



Method numbers assume the most recent EPA revisions. For a complete listing of analytes for the referenced methods please contact your Alpha Woods Hole Lab Project Manager or the Quality Assurance Manager.

Connecticut Department of Public Health Certificate/Lab ID : PH-0141 - *Wastewater* (General Chemistry: EPA 120.1, 150.1, 160.1, 160.2, 180.1, 300.0, 310.1, 335.2; Metals: 200.8, 245.1; Organics: 608-PCB, ETPH)
Solid Waste/Soil (General Chemistry: 1010, 9010/9014, 9045, 9060; Metals: 6020, 7470, 7471; Organics: 8081, 8082, 8260, 8270, ETPH).

Florida Department of Health Certificate/Lab ID : E87814 - Primary NELAP Accreditation Authority for Air & Emissions. Secondary NELAP Accreditation for Wastewater and Solid & Hazardous Waste. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 335.2, SM2320B, SM2340B, SM2540G, SM4500NH3; Metals: 245.1; Organics: 608-PCB). *Solid and Hazardous Waste* (General Chemistry: 9010/9014, 9045, 9050, 9056, 9065, Reactivity 7.3; Metals: 6020, 7470, 7471; Organics: 8081, 8082, 8260, 8270). *Air & Emissions* (Organics: EPA TO-15).

Louisiana Department of Environmental Quality Certificate/Lab ID : 03090 - Primary NELAP Accrediting Authority for Wastewater, Solid & Hazardous Waste. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 376.2, 9010/9014, 9056, SM2540G; Metals: 200.8, 245.1, 6020; Organics: 608-PCB, 8015-DRO, 8081, 8082, 8260, 8270). *Solid and Hazardous Waste* (General Chemistry: 1010, 1311, 9010/9014, 9040, 9045, 9056, 9060, Reactivity 7.3; Metals: 6020, 7196, 7470, 7471; Organics: 8015-DRO, 8081, 8082, 8260, 8270).

Maine Department of Human Services Certificate/Lab ID : MA0030 - *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 160.1/SM2540C, 160.2/SM2540D, 300.0, 310.1/SM2320B, 335.2; Metals: EPA 245.1; Organics: 608-PCB).

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030 - *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 300.0, 310.1/SM2320B, 335.2; Metals: EPA 245.1; Organics: EPA 608-PCB).

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206 - Secondary NELAP Accreditation. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 376.2, SM2540G; Metals: 200.8, 245.4; Organics: 608-PCB).

New Jersey Department of Environmental Protection Certificate/Lab ID : MA015 - Secondary NELAP Accreditation. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 180.1, 300.0, 310.1/SM2320B, 335.2, 376.2, 9010/9014, 9056, SM2540G; Metals: 200.8, 245.1 6020; Organics: 608-PCB, 8081, 8082, 8260, 8270). *Solid & Hazardous Waste* (General Chemistry: EPA 1010, 1311, 9010/9014, 9040, 9045, 9056, 9060; Metals: 6020, 7196, 7470, 7471; Organics: 8015-DRO, 8081, 8082, 8260, 8270). *Air & Emissions* (Organics: EPA TO-15).

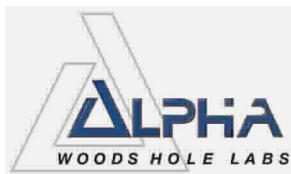
New York Department of Health Certificate/Lab ID : 11627 - Secondary NELAP Accreditation. *Wastewater* (General Chemistry: EPA 120.1/SM2510B, 150.1, 160.1/SM2540C, 160.2/SM2540D, 300.0, 310.1/SM2320B, 376.2; Metals: 200.8, 245.1; Organics: 608-PCB). *Solid and Hazardous Waste* (General Chemistry: EPA 1010, 1311; : 200.8; 6020, 7041; Organics: 8081, 8082, 8260, 8270). *Air & Emissions* (Organics: EPA TO-15).

Rhode Island Department of Health Certificate/Lab ID : LAO00289 - Chemistry: *Organic and Inorganic in Non-Poratable Water, Wastewater/Sewage and Soil* (Refer to LADEQ and MADEP certificates for method numbers.)

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-02089 - Registered laboratory

U.S. Army Corps of Engineers

Department of the Navy



ANALYTICAL REPORT

Lab Number: L0706125

Client: ERM-New England
399 Boylston Street
6th Floor
Boston, MA 02116

ATTN: Jeremy Picard

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Report Date: 05/08/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0706125
Report Date: 05/08/07

Alpha Sample ID	Client ID	Sample Location
L0706125-01	DEP-20-20070426-01	WAYLAND, MA
L0706125-02	DEP-21-20070426-01	WAYLAND, MA
L0706125-03	DUP-001-20070426-01	WAYLAND, MA
L0706125-04	TB-004-20070426-01	WAYLAND, MA

Project Name: RAYTHEON WAYLAND

Lab Number: L0706125

Project Number: 0061882

Report Date: 05/08/07

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. 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 methods(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?	YES
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0706125
Report Date: 05/08/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Volatile Organics

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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

Authorized Signature:



Title: Technical Director

Date: 05/08/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND**Lab Number:** L0706125**Project Number:** 0061882**Report Date:** 05/08/07**SAMPLE RESULTS**

Lab ID: L0706125-01
 Client ID: DEP-20-20070426-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/07/07 18:57
 Analyst: MM

Date Collected: 04/26/07 16:00
 Date Received: 04/27/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L0706125**Project Number:** 0061882**Report Date:** 05/08/07**SAMPLE RESULTS**

Lab ID: L0706125-01
 Client ID: DEP-20-20070426-01
 Sample Location: WAYLAND, MA

Date Collected: 04/26/07 16:00
 Date Received: 04/27/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	106		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0706125**Project Number:** 0061882**Report Date:** 05/08/07**SAMPLE RESULTS**

Lab ID: L0706125-02
 Client ID: DEP-21-20070426-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/07/07 19:29
 Analyst: MM

Date Collected: 04/26/07 16:20
 Date Received: 04/27/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	1.1		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	3.6		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	25		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L0706125**Project Number:** 0061882**Report Date:** 05/08/07**SAMPLE RESULTS**

Lab ID: L0706125-02
 Client ID: DEP-21-20070426-01
 Sample Location: WAYLAND, MA

Date Collected: 04/26/07 16:20
 Date Received: 04/27/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0706125**Project Number:** 0061882**Report Date:** 05/08/07**SAMPLE RESULTS**

Lab ID: L0706125-03
 Client ID: DUP-001-20070426-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/07/07 20:02
 Analyst: MM

Date Collected: 04/27/07 00:00
 Date Received: 04/27/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	2.1		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	5.3		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	26		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L0706125**Project Number:** 0061882**Report Date:** 05/08/07**SAMPLE RESULTS**

Lab ID: L0706125-03
 Client ID: DUP-001-20070426-01
 Sample Location: WAYLAND, MA

Date Collected: 04/27/07 00:00
 Date Received: 04/27/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	105		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0706125**Project Number:** 0061882**Report Date:** 05/08/07**SAMPLE RESULTS**

Lab ID: L0706125-04
 Client ID: TB-004-20070426-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/07/07 20:34
 Analyst: MM

Date Collected: 04/26/07 21:21
 Date Received: 04/27/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	ND		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L0706125**Project Number:** 0061882**Report Date:** 05/08/07**SAMPLE RESULTS**

Lab ID: L0706125-04
 Client ID: TB-004-20070426-01
 Sample Location: WAYLAND, MA

Date Collected: 04/26/07 21:21
 Date Received: 04/27/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	109		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0706125
Report Date: 05/08/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 05/07/07 14:37
Analyst: MM

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-04 Batch: WG279510-3				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0706125
Report Date: 05/08/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 05/07/07 14:37
Analyst: MM

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-04 Batch: WG279510-3				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
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	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
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

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0706125
Report Date: 05/08/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 05/07/07 14:37
Analyst: MM

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-04 Batch: WG279510-3				

Parameter	Result	Qualifier	Units	RDL
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	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0706125

Project Number: 0061882

Report Date: 05/08/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-04 Batch: WG279510-1 WG279510-2					
Methylene chloride	107	109	70-130	2	25
1,1-Dichloroethane	102	103	70-130	1	25
Chloroform	104	109	70-130	5	25
Carbon tetrachloride	86	92	70-130	7	25
1,2-Dichloropropane	96	102	70-130	6	25
Dibromochloromethane	74	84	70-130	13	25
1,1,2-Trichloroethane	95	99	70-130	4	25
Tetrachloroethene	101	97	70-130	4	25
Chlorobenzene	99	97	70-130	2	25
Trichlorofluoromethane	114	115	70-130	1	25
1,2-Dichloroethane	111	114	70-130	3	25
1,1,1-Trichloroethane	99	100	70-130	1	25
Bromodichloromethane	86	93	70-130	8	25
trans-1,3-Dichloropropene	84	86	70-130	2	25
cis-1,3-Dichloropropene	84	90	70-130	7	25
1,1-Dichloropropene	99	96	70-130	3	25
Bromoform	78	80	70-130	3	50
1,1,2,2-Tetrachloroethane	94	92	70-130	2	25
Benzene	101	101	70-130	0	25
Toluene	96	98	70-130	2	25
Ethylbenzene	100	101	70-130	1	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0706125

Project Number: 0061882

Report Date: 05/08/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-04 Batch: WG279510-1 WG279510-2					
Chloromethane	100	108	70-130	8	50
Bromomethane	78	81	70-130	4	50
Vinyl chloride	102	102	70-130	0	25
Chloroethane	104	100	70-130	4	25
1,1-Dichloroethene	100	102	70-130	2	25
trans-1,2-Dichloroethene	94	91	70-130	3	25
Trichloroethene	99	98	70-130	1	25
1,2-Dichlorobenzene	93	93	70-130	0	25
1,3-Dichlorobenzene	94	93	70-130	1	25
1,4-Dichlorobenzene	94	93	70-130	1	25
Methyl tert butyl ether	90	89	70-130	1	25
p/m-Xylene	101	102	70-130	1	25
o-Xylene	99	98	70-130	1	25
cis-1,2-Dichloroethene	97	100	70-130	3	25
Dibromomethane	96	102	70-130	6	25
1,2,3-Trichloropropane	108	106	70-130	2	25
Styrene	100	98	70-130	2	25
Dichlorodifluoromethane	100	98	70-130	2	50
Acetone	109	109	70-130	0	50
Carbon disulfide	78	74	70-130	5	25
2-Butanone	100	101	70-130	1	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0706125

Report Date: 05/08/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-04 Batch: WG279510-1 WG279510-2					
4-Methyl-2-pentanone	90	92	70-130	2	50
2-Hexanone	105	99	70-130	6	50
Bromochloromethane	94	97	70-130	3	25
Tetrahydrofuran	89	91	70-130	2	25
2,2-Dichloropropane	91	92	70-130	1	50
1,2-Dibromoethane	97	98	70-130	1	25
1,3-Dichloropropane	97	100	70-130	3	25
1,1,1,2-Tetrachloroethane	80	90	70-130	12	25
Bromobenzene	92	93	70-130	1	25
n-Butylbenzene	96	92	70-130	4	25
sec-Butylbenzene	99	95	70-130	4	25
tert-Butylbenzene	98	95	70-130	3	25
o-Chlorotoluene	97	95	70-130	2	25
p-Chlorotoluene	98	96	70-130	2	25
1,2-Dibromo-3-chloropropane	73	75	70-130	3	50
Hexachlorobutadiene	90	88	70-130	2	25
Isopropylbenzene	105	108	70-130	3	25
p-Isopropyltoluene	101	99	70-130	2	25
Naphthalene	75	75	70-130	0	25
n-Propylbenzene	99	93	70-130	6	25
1,2,3-Trichlorobenzene	80	81	70-130	1	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0706125

Project Number: 0061882

Report Date: 05/08/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-04 Batch: WG279510-1 WG279510-2					
1,2,4-Trichlorobenzene	81	78	70-130	4	25
1,3,5-Trimethylbenzene	98	96	70-130	2	25
1,2,4-Trimethylbenzene	97	96	70-130	1	25
Ethyl ether	87	83	70-130	5	25
Isopropyl Ether	96	97	70-130	1	25
Ethyl-Tert-Butyl-Ether	96	94	70-130	2	25
Tertiary-Amyl Methyl Ether	90	91	70-130	1	25
1,4-Dioxane	102	108	70-130	6	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		111		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	101		100		70-130
Dibromofluoromethane	101		103		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0706125**Project Number:** 0061882**Report Date:** 05/08/07**Sample Receipt and Container Information**

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
L0706125-01A	Vial HCl preserved	A	NA	2.8C	Y	Absent	MCP-8260-04
L0706125-01B	Vial HCl preserved	A	NA	2.8C	Y	Absent	MCP-8260-04
L0706125-02A	Vial HCl preserved	A	NA	2.8C	Y	Absent	MCP-8260-04
L0706125-02B	Vial HCl preserved	A	NA	2.8C	Y	Absent	MCP-8260-04
L0706125-03A	Vial HCl preserved	A	NA	2.8C	Y	Absent	MCP-8260-04
L0706125-03B	Vial HCl preserved	A	NA	2.8C	Y	Absent	MCP-8260-04
L0706125-04A	Vial HCl preserved	A	NA	2.8C	Y	Absent	MCP-8260-04

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0706125
Report Date: 05/08/07

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
- LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD- Laboratory Control Sample Duplicate: Refer to LCS.
- MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD - Matrix Spike Sample Duplicate: Refer to MS.
- NA - Not Applicable.
- NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- ND - Not detected at the reported detection limit for the sample.
- RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0706125
Report Date: 05/08/07

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-III A (Revision 5). May 2004.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs 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 Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs 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 Woods Hole Labs.

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



CHAIN OF CUSTODY

PAGE 1 OF 1



WESTBORO, MA
TEL: 508-898-9220
FAX: 508-898-9193

RAYNHAM, MA
TEL: 508-922-9300
FAX: 508-922-3288

Client Information

Client: **ERW**

Address: **399 Beal Street 6th Floor**

Phone: **617-646-7800**

Fax: **617-667-6447**

Email: **jeremy.picard@erw.com**

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: **Kayfreen Wayland**

Project Location: **Wayland MA**

Project #: **0061582**

Project Manager: **J. Picard**

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: **5/4/07** Time:

Date Rec'd in Lab: **4/27/07**

Report Information - Data Deliverables

FAX EMAIL

ADEX AAdtl Deliverables

Regulatory Requirements/Report Limits

State / Fed Program: **MA/MCP** Criteria: **SW-1**

MA/MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

ALPHA Job #: **L0706125**

Billing Information

Same as Client Info PO #:

ALPHA Lab ID (Lap Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials
6125-01	VEP-20-20070426-01	4/26/07	16:00	GW	HA 2
-02	DEP-21-2007-0426-01		16:20		HA 2
-03	DUP-001-20070426-01		24:00		HA 2
-04	TB-004-20070426-01	4/26/07	21:21		LP 2

ANALYSIS
8021C

Yes No Are MCP Analytical Methods Required?
 Yes No Are CT RCP (Reasonable Confidence Protocols) Required?

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

Sample Specific Comments

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type	V
Preservative	B

Relinquished By:

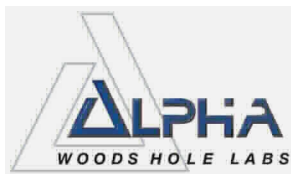
Received By:

Date/Time

Date/Time

FORM NO. 01-01 (rev. 10-OCT-05)

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.



ANALYTICAL REPORT

Lab Number: L0714856

Client: ERM-New England
399 Boylston Street
6th Floor
Boston, MA 02116

ATTN: Jeremy Picard

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Report Date: 10/15/07

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (200305), NJ (MA935), RI (LAO00065), ME (2006012), PA (Registration #68-03671), USDA (Permit #S-72578), US Army Corps of Engineers, Naval FESC.

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714856
Report Date: 10/15/07

Alpha Sample ID	Client ID	Sample Location
L0714856-01	DEP-19M-20071004-01	WAYLAND, MA



Project Name: RAYTHEON WAYLAND

Lab Number: L0714856

Project Number: 0061882

Report Date: 10/15/07

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. 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 methods(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?	N/A
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?	YES
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

Please note that sample matrix information is located in the Sample Results section of this report.



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714856
Report Date: 10/15/07

Case Narrative

The samples were received in accordance with the chain of custody and no significant deviations were encountered during preparation or analysis unless otherwise noted below.

MCP Related Narratives

Volatile Organics

L0714856-01 was processed against a calibration curve that utilized a quadratic fit for 2-Butanone.

In reference to question F:

At the client's request, all submitted samples were not analyzed for the full MCP list of compounds specified for the Method.

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

Authorized Signature: 

Title: Technical Director/Representative

Date: 10/15/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714856**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714856-01
Client ID: DEP-19M-20071004-01
Sample Location: WAYLAND, MA
Matrix: Water
Anaytical Method: 60,8260B
Analytical Date: 10/13/07 21:28
Analyst: BS

Date Collected: 10/04/07 08:05
Date Received: 10/05/07
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	ND		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	5.5		ug/l	0.50	1
Dichlorodifluoromethane	ND		ug/l	5.0	1
2,2-Dichloropropane	ND		ug/l	2.5	1
1,2-Dibromoethane	ND		ug/l	2.0	1
1,3-Dichloropropane	ND		ug/l	2.5	1

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714856**Project Number:** 0061882**Report Date:** 10/15/07**SAMPLE RESULTS**

Lab ID: L0714856-01
 Client ID: DEP-19M-20071004-01
 Sample Location: WAYLAND, MA

Date Collected: 10/04/07 08:05
 Date Received: 10/05/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1
o-Chlorotoluene	ND		ug/l	2.5	1
p-Chlorotoluene	ND		ug/l	2.5	1
Hexachlorobutadiene	ND		ug/l	0.60	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	110		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714856
Report Date: 10/15/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 10/13/07 16:57
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
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Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG298110-3

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
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

Project Name: RAYTHEON WAYLAND

Lab Number: L0714856

Project Number: 0061882

Report Date: 10/15/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
 Analytical Date: 10/13/07 16:57
 Analyst: BS

Parameter	Result	Qualifier	Units	RDL
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Volatil Organic by MCP 8260B for sample(s): 01 Batch: WG298110-3

o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
1,2,4-Trichlorobenzene	ND		ug/l	2.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0714856

Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG298110-1 WG298110-2					
Methylene chloride	86	84	70-130	2	25
1,1-Dichloroethane	82	83	70-130	1	25
Chloroform	84	86	70-130	2	25
Carbon tetrachloride	79	79	70-130	0	25
1,2-Dichloropropane	81	84	70-130	4	25
Dibromochloromethane	86	86	70-130	0	25
1,1,2-Trichloroethane	77	80	70-130	4	25
Tetrachloroethene	81	82	70-130	1	25
Chlorobenzene	80	83	70-130	4	25
1,2-Dichloroethane	81	82	70-130	1	25
1,1,1-Trichloroethane	82	84	70-130	2	25
Bromodichloromethane	83	83	70-130	0	25
trans-1,3-Dichloropropene	77	78	70-130	1	25
cis-1,3-Dichloropropene	82	84	70-130	2	25
Bromoform	85	86	70-130	1	50
1,1,2,2-Tetrachloroethane	89	93	70-130	4	25
Chloromethane	88	88	70-130	0	50
Vinyl chloride	82	86	70-130	5	25
Chloroethane	83	86	70-130	4	25
1,1-Dichloroethene	82	87	70-130	6	25
trans-1,2-Dichloroethene	84	88	70-130	5	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0714856

Project Number: 0061882

Report Date: 10/15/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG298110-1 WG298110-2					
Trichloroethene	77	80	70-130	4	25
1,2-Dichlorobenzene	82	82	70-130	0	25
1,3-Dichlorobenzene	84	84	70-130	0	25
1,4-Dichlorobenzene	85	84	70-130	1	25
cis-1,2-Dichloroethene	83	84	70-130	1	25
Dichlorodifluoromethane	100	103	70-130	3	50
2,2-Dichloropropane	88	90	70-130	2	50
1,2-Dibromoethane	80	82	70-130	2	25
1,3-Dichloropropane	79	81	70-130	3	25
1,1,1,2-Tetrachloroethane	78	79	70-130	1	25
o-Chlorotoluene	80	82	70-130	2	25
p-Chlorotoluene	82	84	70-130	2	25
Hexachlorobutadiene	79	85	70-130	7	25
1,2,4-Trichlorobenzene	77	80	70-130	4	25

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99	100	70-130
Toluene-d8	97	97	70-130
4-Bromofluorobenzene	100	98	70-130
Dibromofluoromethane	105	105	70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0714856**Project Number:** 0061882**Report Date:** 10/15/07**Sample Receipt and Container Information**

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
L0714856-01A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0714856-01B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04

Container Comments

L0714856-01A	Temp Probe
L0714856-01B	Temp Probe

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714856
Report Date: 10/15/07

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD- Laboratory Control Sample Duplicate: Refer to LCS.
MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD - Matrix Spike Sample Duplicate: Refer to MS.
NA - Not Applicable.
NI - Not Ignitable.
NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
ND - Not detected at the reported detection limit for the sample.
RDL - Reported Detection Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

The following data qualifiers have been identified for use under the CT DEP Reasonable Confidence Protocols.

- A - Spectra identified as "Aldol Condensation Product".
B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte.
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
J - Estimated value. The analyte was tentatively identified; the quantitation is an estimation. (Tentatively identified compounds only.)

Standard Qualifiers

- H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

Report Format: Not Specified



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0714856
Report Date: 10/15/07

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.

LIMITATION OF LIABILITIES

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



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