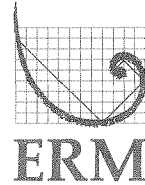


Environmental
Resources
Management

399 Boylston Street
6th Floor
Boston, MA 02116
(617) 646-7800
(617) 267-6447 (fax)

12 June 2008
Reference: 0079387

Ms. Paula Phillips
Congress Group
33 Arch Street
Boston, MA 02110



RE: Transmittal of Groundwater Analytical Data
Former Raytheon Facility
430 Boston Post Road, Wayland, Massachusetts

Dear Ms. Phillips:

On behalf of Raytheon Company (Raytheon), Environmental Resources Management (ERM) is submitting the results of groundwater sample analyses from the Former Raytheon Facility located at 430 Boston Post Road in Wayland, Massachusetts (Site). These results are submitted pursuant to 310 CMR 40.1403(10) of the Massachusetts Contingency Plan (MCP).

ERM collected groundwater samples from 68 wells on portions of the Site within the boundaries of your property between 19 May and 22 May 2008. Samples were analyzed for one or more of the following compounds: permanganate, volatile organic compounds, dissolved sodium, dissolved potassium, and 1,4-dioxane. Sample analysis was conducted by Alpha Woods Hole Laboratories of Westborough, Massachusetts. These analytical data will be provided to the Massachusetts Department of Environmental Protection in the next required MCP submittal.

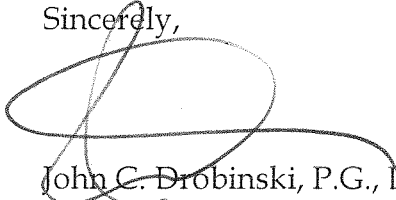
Raytheon has implemented the Public Involvement Process in accordance with 310 CMR 40.1405. Documents pertaining to the Site can be found at the Board of Health, the Wayland Public Library Public Involvement Plan files, or at www.ermne.com (username = raytheon, password = wayland).

Ms. Phillips
Reference: 0079387
12 June 2008
Page 2

Environmental
Resources
Management

If you have any questions or comments, please contact the undersigned at (617) 646-7800 or Louis Burkhardt, Raytheon Company, at (978) 436-8238.

Sincerely,



John C. Drobinski, P.G., LSP
Principal-in-Charge



Jason D. Flattery
Project Manager

enclosures: BWSC-123 - Notice of Environmental Sampling

cc: Louis Burkhardt, Raytheon Company
Ben Gould, CMG Environmental
PIP Repositories



ANALYTICAL REPORT

Lab Number:	L0807583
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Project Name:	RAYTHEON-WAYLAND
Project Number:	0079387
Report Date:	05/30/08

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), 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: L0807583
Report Date: 05/30/08

Alpha Sample ID	Client ID	Sample Location
L0807583-01	MW-202S-20080521-01	WAYLAND, MA
L0807583-02	MW-203D-20080521-01	WAYLAND, MA
L0807583-03	MW-101-20080521-01	WAYLAND, MA
L0807583-04	MW-117-20080521-01	WAYLAND, MA
L0807583-05	IP-16S-20080521-01	WAYLAND, MA
L0807583-06	IP-16D-20080521-01	WAYLAND, MA
L0807583-07	MW-405S-20080521-01	WAYLAND, MA
L0807583-08	MW-404-20080521-01	WAYLAND, MA
L0807583-09	MW-118-20080521-01	WAYLAND, MA

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807583

Project Number: 0079387

Report Date: 05/30/08

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?	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: 0079387

Lab Number: L0807583
Report Date: 05/30/08

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

Report Submission

This report replaces the report issued earlier today. The client identification has been changed on L0807583-09.

MCP Related Narratives

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

1,4-Dioxane

The analysis of 1,4-Dioxane by method 8270-SIM isotope dilution is being performed at our Mansfield facility, and the results will be issued under separate cover.

Volatile Organics

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807583
Report Date: 05/30/08

Case Narrative (continued)

L0807583-03, -05 through -09: The pH of each sample was greater than two; however, the samples were analyzed within the method required holding time.

In reference to question E:

The WG323592-1/2 LCS/LCSD recoveries, associated with L0807583-06 through -09, are below the acceptance criteria for Chloromethane and Dichlorodifluoromethane; however, they have been identified as "difficult" analytes. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for these compounds.

The WG323629-1/2 LCS/LCSD recoveries, associated with L0807583-01 through -05, are below the acceptance criteria for Dichlorodifluoromethane; however, it has been identified as a "difficult" analyte. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

In reference to question F:

All samples were analyzed for a subset of MCP compounds per the Chain of Custody.

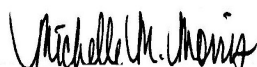
Metals

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: 05/30/08

ORGANICS

VOLATILES

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807583**Project Number:** 0079387**Report Date:** 05/30/08**SAMPLE RESULTS**

Lab ID: L0807583-01
 Client ID: MW-202S-20080521-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/29/08 15:30
 Analyst: GK

Date Collected: 05/21/08 08:40
 Date Received: 05/22/08
 Field Prep: Field Filtered

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
1,1,1,2-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
1,1,1,2,2-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
1,1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807583**Project Number:** 0079387**Report Date:** 05/30/08**SAMPLE RESULTS**

Lab ID: L0807583-01
 Client ID: MW-202S-20080521-01
 Sample Location: WAYLAND, MA

Date Collected: 05/21/08 08:40
 Date Received: 05/22/08
 Field Prep: Field Filtered

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	104		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807583

Project Number: 0079387

Report Date: 05/30/08

SAMPLE RESULTS

Lab ID: L0807583-02
 Client ID: MW-203D-20080521-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/29/08 16:03
 Analyst: GK

Date Collected: 05/21/08 13:15
 Date Received: 05/22/08
 Field Prep: Field Filtered

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
1,1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	4.8		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
1,1,1,2-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	92		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	7.1		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-WAYLAND**Lab Number:** L0807583**Project Number:** 0079387**Report Date:** 05/30/08**SAMPLE RESULTS**

Lab ID: L0807583-02
 Client ID: MW-203D-20080521-01
 Sample Location: WAYLAND, MA

Date Collected: 05/21/08 13:15
 Date Received: 05/22/08
 Field Prep: Field Filtered

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	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	101		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807583**Project Number:** 0079387**Report Date:** 05/30/08**SAMPLE RESULTS**

Lab ID: L0807583-03
 Client ID: MW-101-20080521-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/29/08 16:37
 Analyst: GK

Date Collected: 05/21/08 08:05
 Date Received: 05/22/08
 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
1,1,1,2-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	1.5		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
1,1,1,2,2-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:** L0807583**Project Number:** 0079387**Report Date:** 05/30/08**SAMPLE RESULTS**

Lab ID: L0807583-03
 Client ID: MW-101-20080521-01
 Sample Location: WAYLAND, MA

Date Collected: 05/21/08 08:05
 Date Received: 05/22/08
 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	109		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	101		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807583

Project Number: 0079387

Report Date: 05/30/08

SAMPLE RESULTS

Lab ID: L0807583-04
 Client ID: MW-117-20080521-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/29/08 17:11
 Analyst: GK

Date Collected: 05/21/08 14:00
 Date Received: 05/22/08
 Field Prep: Field Filtered

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	0.86		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
1,1,1-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	0.98		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
1,1,1,2-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	0.51		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:** L0807583**Project Number:** 0079387**Report Date:** 05/30/08**SAMPLE RESULTS**

Lab ID: L0807583-04
 Client ID: MW-117-20080521-01
 Sample Location: WAYLAND, MA

Date Collected: 05/21/08 14:00
 Date Received: 05/22/08
 Field Prep: Field Filtered

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	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	99		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807583**Project Number:** 0079387**Report Date:** 05/30/08**SAMPLE RESULTS**

Lab ID: L0807583-05
 Client ID: IP-16S-20080521-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/29/08 17:44
 Analyst: GK

Date Collected: 05/21/08 09:20
 Date Received: 05/22/08
 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	1.0		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
1,1,1,2-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
1,1,1,2,2-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
1,1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807583**Project Number:** 0079387**Report Date:** 05/30/08**SAMPLE RESULTS**

Lab ID: L0807583-05
 Client ID: IP-16S-20080521-01
 Sample Location: WAYLAND, MA

Date Collected: 05/21/08 09:20
 Date Received: 05/22/08
 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	101		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	96		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807583

Project Number: 0079387

Report Date: 05/30/08

SAMPLE RESULTS

Lab ID: L0807583-06
 Client ID: IP-16D-20080521-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/29/08 15:13
 Analyst: GK

Date Collected: 05/21/08 10:00
 Date Received: 05/22/08
 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	0.88		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
1,1,1,2-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
1,1,1,2,2-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:** L0807583**Project Number:** 0079387**Report Date:** 05/30/08**SAMPLE RESULTS**

Lab ID: L0807583-06
 Client ID: IP-16D-20080521-01
 Sample Location: WAYLAND, MA

Date Collected: 05/21/08 10:00
 Date Received: 05/22/08
 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	105		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	99		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807583**Project Number:** 0079387**Report Date:** 05/30/08**SAMPLE RESULTS**

Lab ID: L0807583-07
 Client ID: MW-405S-20080521-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/29/08 15:47
 Analyst: GK

Date Collected: 05/21/08 11:30
 Date Received: 05/22/08
 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
1,1,1,2-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
1,1,1,2,2-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
1,1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807583**Project Number:** 0079387**Report Date:** 05/30/08**SAMPLE RESULTS**

Lab ID: L0807583-07
 Client ID: MW-405S-20080521-01
 Sample Location: WAYLAND, MA

Date Collected: 05/21/08 11:30
 Date Received: 05/22/08
 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	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	102		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807583

Project Number: 0079387

Report Date: 05/30/08

SAMPLE RESULTS

Lab ID: L0807583-08
 Client ID: MW-404-20080521-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/29/08 16:20
 Analyst: GK

Date Collected: 05/21/08 13:15
 Date Received: 05/22/08
 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	1.2		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
1,1,1,2-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
1,1,1,2,2-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	0.56		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:** L0807583**Project Number:** 0079387**Report Date:** 05/30/08**SAMPLE RESULTS**

Lab ID: L0807583-08
 Client ID: MW-404-20080521-01
 Sample Location: WAYLAND, MA

Date Collected: 05/21/08 13:15
 Date Received: 05/22/08
 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	103		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	103		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807583

Project Number: 0079387

Report Date: 05/30/08

SAMPLE RESULTS

Lab ID: L0807583-09
 Client ID: MW-118-20080521-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/29/08 16:54
 Analyst: GK

Date Collected: 05/21/08 13:45
 Date Received: 05/22/08
 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
1,1,1,2-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
1,1,1,2,2-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:** L0807583**Project Number:** 0079387**Report Date:** 05/30/08**SAMPLE RESULTS**

Lab ID: L0807583-09
 Client ID: MW-118-20080521-01
 Sample Location: WAYLAND, MA

Date Collected: 05/21/08 13:45
 Date Received: 05/22/08
 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	105		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807583
Report Date: 05/30/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/29/08 10:44
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 06-09 Batch: WG323592-3				

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: 0079387

Lab Number: L0807583
Report Date: 05/30/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/29/08 10:44
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 06-09 Batch: WG323592-3				

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-WAYLAND
Project Number: 0079387

Lab Number: L0807583
Report Date: 05/30/08

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 05/29/08 10:44
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 06-09 Batch: WG323592-3				
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

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	95		70-130

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807583
Report Date: 05/30/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/29/08 10:27
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-05 Batch: WG323629-3				

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: 0079387

Lab Number: L0807583
Report Date: 05/30/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/29/08 10:27
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-05 Batch: WG323629-3				

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-WAYLAND
Project Number: 0079387

Lab Number: L0807583
Report Date: 05/30/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/29/08 10:27
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-05 Batch: WG323629-3				

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	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807583

Project Number: 0079387

Report Date: 05/30/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 06-09 Batch: WG323592-1 WG323592-2					
Methylene chloride	90	94	70-130	4	25
1,1-Dichloroethane	97	100	70-130	3	25
Chloroform	96	97	70-130	1	25
Carbon tetrachloride	88	86	70-130	2	25
1,2-Dichloropropane	91	101	70-130	10	25
Dibromochloromethane	100	89	70-130	12	25
1,1,2-Trichloroethane	106	91	70-130	15	25
Tetrachloroethene	93	85	70-130	9	25
Chlorobenzene	97	95	70-130	2	25
Trichlorofluoromethane	101	105	70-130	4	25
1,2-Dichloroethane	105	104	70-130	1	25
1,1,1-Trichloroethane	91	90	70-130	1	25
Bromodichloromethane	96	103	70-130	7	25
trans-1,3-Dichloropropene	97	86	70-130	12	25
cis-1,3-Dichloropropene	90	98	70-130	9	25
1,1-Dichloropropene	93	91	70-130	2	25
Bromoform	101	98	70-130	3	50
1,1,2,2-Tetrachloroethane	104	102	70-130	2	25
Benzene	100	97	70-130	3	25
Toluene	100	88	70-130	13	25
Ethylbenzene	100	96	70-130	4	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807583

Project Number: 0079387

Report Date: 05/30/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 06-09 Batch: WG323592-1 WG323592-2					
Chloromethane	66	68	70-130	3	50
Bromomethane	95	102	70-130	7	50
Vinyl chloride	86	89	70-130	3	25
Chloroethane	92	95	70-130	3	25
1,1-Dichloroethene	89	92	70-130	3	25
trans-1,2-Dichloroethene	92	95	70-130	3	25
Trichloroethene	94	98	70-130	4	25
1,2-Dichlorobenzene	98	103	70-130	5	25
1,3-Dichlorobenzene	95	95	70-130	0	25
1,4-Dichlorobenzene	97	96	70-130	1	25
Methyl tert butyl ether	97	99	70-130	2	25
p/m-Xylene	100	88	70-130	13	25
o-Xylene	97	86	70-130	12	25
cis-1,2-Dichloroethene	95	99	70-130	4	25
Dibromomethane	94	104	70-130	10	25
1,2,3-Trichloropropane	111	120	70-130	8	25
Styrene	96	86	70-130	11	25
Dichlorodifluoromethane	64	67	70-130	5	50
Acetone	108	111	70-130	3	50
Carbon disulfide	75	79	70-130	5	25
2-Butanone	111	105	70-130	6	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807583

Project Number: 0079387

Report Date: 05/30/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 06-09 Batch: WG323592-1 WG323592-2					
4-Methyl-2-pentanone	105	105	70-130	0	50
2-Hexanone	109	96	70-130	13	50
Bromochloromethane	99	98	70-130	1	25
Tetrahydrofuran	108	101	70-130	7	25
2,2-Dichloropropane	94	91	70-130	3	50
1,2-Dibromoethane	100	92	70-130	8	25
1,3-Dichloropropane	103	91	70-130	12	25
1,1,1,2-Tetrachloroethane	97	92	70-130	5	25
Bromobenzene	96	97	70-130	1	25
n-Butylbenzene	102	97	70-130	5	25
sec-Butylbenzene	103	95	70-130	8	25
tert-Butylbenzene	97	93	70-130	4	25
o-Chlorotoluene	96	104	70-130	8	25
p-Chlorotoluene	99	98	70-130	1	25
1,2-Dibromo-3-chloropropane	98	106	70-130	8	50
Hexachlorobutadiene	99	98	70-130	1	25
Isopropylbenzene	125	104	70-130	18	25
p-Isopropyltoluene	102	99	70-130	3	25
Naphthalene	88	93	70-130	6	25
n-Propylbenzene	98	100	70-130	2	25
1,2,3-Trichlorobenzene	106	100	70-130	6	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807583

Project Number: 0079387

Report Date: 05/30/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 06-09 Batch: WG323592-1 WG323592-2					
1,2,4-Trichlorobenzene	98	102	70-130	4	25
1,3,5-Trimethylbenzene	95	99	70-130	4	25
1,2,4-Trimethylbenzene	94	97	70-130	3	25
Ethyl ether	91	96	70-130	5	25
Isopropyl Ether	94	98	70-130	4	25
Ethyl-Tert-Butyl-Ether	96	96	70-130	0	25
Tertiary-Amyl Methyl Ether	93	92	70-130	1	25
1,4-Dioxane	145	143	70-130	1	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		104		70-130
Toluene-d8	103		95		70-130
4-Bromofluorobenzene	96		104		70-130
Dibromofluoromethane	100		101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807583

Project Number: 0079387

Report Date: 05/30/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-05 Batch: WG323629-1 WG323629-2					
Methylene chloride	88	88	70-130	0	25
1,1-Dichloroethane	94	91	70-130	3	25
Chloroform	97	95	70-130	2	25
Carbon tetrachloride	94	87	70-130	8	25
1,2-Dichloropropane	102	101	70-130	1	25
Dibromochloromethane	98	98	70-130	0	25
1,1,2-Trichloroethane	102	104	70-130	2	25
Tetrachloroethene	93	89	70-130	4	25
Chlorobenzene	98	95	70-130	3	25
Trichlorofluoromethane	113	108	70-130	5	25
1,2-Dichloroethane	100	103	70-130	3	25
1,1,1-Trichloroethane	96	92	70-130	4	25
Bromodichloromethane	100	105	70-130	5	25
trans-1,3-Dichloropropene	92	91	70-130	1	25
cis-1,3-Dichloropropene	92	94	70-130	2	25
1,1-Dichloropropene	95	89	70-130	7	25
Bromoform	99	98	70-130	1	50
1,1,2,2-Tetrachloroethane	101	106	70-130	5	25
Benzene	100	95	70-130	5	25
Toluene	106	94	70-130	12	25
Ethylbenzene	106	94	70-130	12	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807583

Project Number: 0079387

Report Date: 05/30/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-05 Batch: WG323629-1 WG323629-2					
Chloromethane	84	81	70-130	4	50
Bromomethane	102	96	70-130	6	50
Vinyl chloride	90	87	70-130	3	25
Chloroethane	105	94	70-130	11	25
1,1-Dichloroethene	94	89	70-130	5	25
trans-1,2-Dichloroethene	90	88	70-130	2	25
Trichloroethene	95	97	70-130	2	25
1,2-Dichlorobenzene	102	108	70-130	6	25
1,3-Dichlorobenzene	95	98	70-130	3	25
1,4-Dichlorobenzene	99	98	70-130	1	25
Methyl tert butyl ether	88	92	70-130	4	25
p/m-Xylene	107	93	70-130	14	25
o-Xylene	100	91	70-130	9	25
cis-1,2-Dichloroethene	94	92	70-130	2	25
Dibromomethane	94	102	70-130	8	25
1,2,3-Trichloropropane	109	120	70-130	10	25
Styrene	100	91	70-130	9	25
Dichlorodifluoromethane	68	64	70-130	6	50
Acetone	72	85	70-130	17	50
Carbon disulfide	73	72	70-130	1	25
2-Butanone	94	94	70-130	0	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807583

Project Number: 0079387

Report Date: 05/30/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-05 Batch: WG323629-1 WG323629-2					
4-Methyl-2-pentanone	92	99	70-130	7	50
2-Hexanone	88	94	70-130	7	50
Bromochloromethane	93	96	70-130	3	25
Tetrahydrofuran	91	89	70-130	2	25
2,2-Dichloropropane	98	92	70-130	6	50
1,2-Dibromoethane	100	98	70-130	2	25
1,3-Dichloropropane	94	96	70-130	2	25
1,1,1,2-Tetrachloroethane	102	97	70-130	5	25
Bromobenzene	96	97	70-130	1	25
n-Butylbenzene	105	112	70-130	6	25
sec-Butylbenzene	97	104	70-130	7	25
tert-Butylbenzene	100	106	70-130	6	25
o-Chlorotoluene	97	99	70-130	2	25
p-Chlorotoluene	98	100	70-130	2	25
1,2-Dibromo-3-chloropropane	101	105	70-130	4	50
Hexachlorobutadiene	95	106	70-130	11	25
Isopropylbenzene	124	116	70-130	7	25
p-Isopropyltoluene	100	105	70-130	5	25
Naphthalene	88	95	70-130	8	25
n-Propylbenzene	101	103	70-130	2	25
1,2,3-Trichlorobenzene	98	110	70-130	12	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807583

Project Number: 0079387

Report Date: 05/30/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-05 Batch: WG323629-1 WG323629-2					
1,2,4-Trichlorobenzene	95	102	70-130	7	25
1,3,5-Trimethylbenzene	98	102	70-130	4	25
1,2,4-Trimethylbenzene	96	104	70-130	8	25
Ethyl ether	85	91	70-130	7	25
Isopropyl Ether	90	83	70-130	8	25
Ethyl-Tert-Butyl-Ether	87	90	70-130	3	25
Tertiary-Amyl Methyl Ether	86	88	70-130	2	25
1,4-Dioxane	124	141	70-130	13	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		102		70-130
Toluene-d8	104		99		70-130
4-Bromofluorobenzene	99		107		70-130
Dibromofluoromethane	102		99		70-130

METALS

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807583
Report Date: 05/30/08

SAMPLE RESULTS

Lab ID: L0807583-01
 Client ID: MW-202S-20080521-01
 Sample Location: WAYLAND, MA
 Matrix: Water

Date Collected: 05/21/08 08:40
 Date Received: 05/22/08
 Field Prep: Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series										
Potassium, Dissolved	ND		mg/l	2.5	1	05/23/08 13:00	05/28/08 18:33	EPA 3005A	60,6010B	AI
Sodium, Dissolved	41		mg/l	2.0	1	05/23/08 13:00	05/28/08 18:33	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807583**Project Number:** 0079387**Report Date:** 05/30/08**SAMPLE RESULTS**

Lab ID: L0807583-02

Date Collected: 05/21/08 13:15

Client ID: MW-203D-20080521-01

Date Received: 05/22/08

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										
Sodium, Dissolved	96		mg/l	2.0	1	05/23/08 13:00	05/28/08 18:36	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807583**Project Number:** 0079387**Report Date:** 05/30/08**SAMPLE RESULTS**

Lab ID: L0807583-04

Date Collected: 05/21/08 14:00

Client ID: MW-117-20080521-01

Date Received: 05/22/08

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										
Sodium, Dissolved	87		mg/l	2.0	1	05/23/08 13:00	05/28/08 18:40	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807583

Project Number: 0079387

Report Date: 05/30/08

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): 01-02,04 Batch: WG323097-1								
Potassium, Dissolved	ND	mg/l	2.5	1	05/23/08 13:00	05/28/08 16:44	60,6010B	AI
Sodium, Dissolved	ND	mg/l	2.0	1	05/23/08 13:00	05/28/08 16:44	60,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Project Number: 0079387

Lab Number: L0807583

Report Date: 05/30/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals by MCP 6000/7000 series Associated sample(s): 01-02,04 Batch: WG323097-2 WG323097-3					
Potassium, Dissolved	97	98	80-120	1	20
Sodium, Dissolved	90	92	80-120	2	20

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807583

Project Number: 0079387

Report Date: 05/30/08

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
L0807583-01A	Plastic 250ml HNO3 preserved	A	<2	2C	Y	Absent	MCP-K-6010S,MCP-NA-6010S
L0807583-01B	Plastic 250ml HNO3 preserved	A	<2	2C	Y	Absent	MCP-K-6010S,MCP-NA-6010S
L0807583-01C	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807583-01D	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807583-02A	Plastic 250ml HNO3 preserved	A	<2	2C	Y	Absent	MCP-NA-6010S
L0807583-02B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807583-02C	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807583-03A	Vial Na2S2O3 preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807583-03B	Vial Na2S2O3 preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807583-04A	Plastic 250ml HNO3 preserved	A	<2	2C	Y	Absent	MCP-NA-6010S
L0807583-04B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807583-04C	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807583-05A	Vial Na2S2O3 preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807583-05B	Vial Na2S2O3 preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807583-06A	Vial Na2S2O3 preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807583-06B	Vial Na2S2O3 preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807583-07A	Vial Na2S2O3 preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807583-07B	Vial Na2S2O3 preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807583-08A	Vial Na2S2O3 preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807583-08B	Vial Na2S2O3 preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807583-09A	Vial Na2S2O3 preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807583-09B	Vial Na2S2O3 preserved	A	N/A	2C	Y	Absent	MCP-8260-04

Container Comments

L0807583-01A	IR Gun
L0807583-01B	IR Gun
L0807583-01C	IR Gun
L0807583-01D	IR Gun
L0807583-02A	IR Gun

Project Name: RAYTHEON-WAYLAND**Project Number:** 0079387**Lab Number:** L0807583**Report Date:** 05/30/08**Container Information**

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
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Container Comments

L0807583-02B IR Gun

L0807583-02C IR Gun

L0807583-03A IR Gun

L0807583-03B IR Gun

L0807583-04A IR Gun

L0807583-04B IR Gun

L0807583-04C IR Gun

L0807583-05A IR Gun

L0807583-05B IR Gun

L0807583-06A IR Gun

L0807583-06B IR Gun

L0807583-07A IR Gun

L0807583-07B IR Gun

L0807583-08A IR Gun

L0807583-08B IR Gun

L0807583-09A IR Gun

L0807583-09B IR Gun

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807583
Report Date: 05/30/08

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.

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807583
Report Date: 05/30/08

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.



05300818:57



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

A

Date Rec'd in Lab: 5/22/08

ALPHA Job #: L080583

Report Information - Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #:

Client Information

Client: ERM-BOSTON
 Address: 399 BOYLSTON ST. 6TH FLOOR
 BOSTON, MA 02116
 Phone: 617-646-7800
 Fax: 617-267-6447
 Email: jason.flattery@erm.com

Project Information

Project Name: RANTHEON-WAMLAND
 Project Location: WAMLAND, MA
 Project #: 0079387
 Project Manager: JASON FLATTERY
 ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: 5/30/08 Time:

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Regulatory Requirements/Report Limits

State /Fed Program: MCP/GW-1
 Criteria:

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

DISS. K (CFE)
 DISS. NA (CFE)
 BODIC (by 0260)
 1,4-DIOXANE
 BODIC (by 0260)

SAMPLE HANDLING

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

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS	
		Date	Time			DISS. K (CFE)	DISS. NA (CFE)
07583-1	MW-2025-20080521-01	5/21/08	08:40	GW	DM	1	1 2
2	MW-2030-20080521-01	5/21/08	13:15	GW	DM	1	2
3	MW-101-20080521-01	5/21/08	08:05	GW	JDF		2 2
4	MW-117-20080521-01	5/21/08	14:00	GW	JDF	1	2
5	IP-165-20080521-01	5/21/08	09:20	GW	MS		2 2
6	IP-160-20080521-01	5/21/08	10:00	GW	MS		2 2
7	MW-4055-20080521-01	5/21/08	11:30	GW	MS		2 2
8	MW-404-20080521-01	5/21/08	13:15	GW	MS		2 2
9	MW-118-20080521-01	5/21/08	13:45	GW	MS		2

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
 MA MCP or CT RCP?

Container Type	P	P	V	A	V
Preservative	C	C	B	H	H

Relinquished By: [Signature] Date/Time: 5/22/08 10:00
 Received By: [Signature] Date/Time: 5/22/08 10:00

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:	L0807485
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Project Name:	RAYTHEON-WAYLAND
Project Number:	0079387
Report Date:	05/29/08

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), 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: L0807485
Report Date: 05/29/08

Alpha Sample ID	Client ID	Sample Location
L0807485-01	MW-208S-20080520-01	WAYLAND, MA
L0807485-02	MW-208M-20080520-01	WAYLAND, MA
L0807485-03	DUP-008-20080520-01	WAYLAND, MA
L0807485-04	MW-203M-20080520-01	WAYLAND, MA
L0807485-05	MW-106M-20080520-01	WAYLAND, MA
L0807485-06	MW-106-20080520-01	WAYLAND, MA
L0807485-07	MW-105M-20080520-01	WAYLAND, MA
L0807485-08	MW-105-20080520-01	WAYLAND, MA
L0807485-09	MW-104-20080520-01	WAYLAND, MA
L0807485-10	DUP-006-20080520-01	WAYLAND, MA
L0807485-11	MW-43S-20080520-01	WAYLAND, MA
L0807485-12	MW-203S-20080520-01	WAYLAND, MA
L0807485-13	MW-33S-20080520-01	WAYLAND, MA
L0807485-14	MW-33M-20080520-01	WAYLAND, MA
L0807485-15	MW-40-20080520-01	WAYLAND, MA
L0807485-16	MW-40S-20080520-01	WAYLAND, MA
L0807485-17	MW-47D-20080520-01	WAYLAND, MA
L0807485-18	MW-47S-20080520-01	WAYLAND, MA
L0807485-19	MW-201M-20080520-01	WAYLAND, MA
L0807485-20	MW-47M-20080520-01	WAYLAND, MA
L0807485-21	MW-214-20080520-01	WAYLAND, MA
L0807485-22	MW-103-20080520-01	WAYLAND, MA
L0807485-23	MW-213-20080520-01	WAYLAND, MA
L0807485-24	MW-102-20080520-01	WAYLAND, MA
L0807485-25	MW-403-20080520-01	WAYLAND, MA
L0807485-26	DUP-007-20080520-01	WAYLAND, MA
L0807485-27	MW-201D-20080520-01	WAYLAND, MA
L0807485-28	MW-202M-20080520-01	WAYLAND, MA
L0807485-29	DUP-004-20080520-01	WAYLAND, MA
L0807485-30	DUP-005-20080520-01	WAYLAND, MA
L0807485-31	DUP-009-20080520-01	WAYLAND, MA

Alpha Sample ID

L0807485-32

Client ID

MW-201S-20080520-01

Sample Location

WAYLAND, MA

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

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?	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: 0079387

Lab Number: L0807485
Report Date: 05/29/08

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

MCP Related Narratives

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Report Submission

The analysis of 1,4-Dioxane by method 8270-SIM isotope dilution is being performed at our Mansfield facility, and the results will be issued under separate cover.

Volatile Organics

L0807485-02, -18, -19, and -24: The pH of each sample was greater than two; however, the samples were analyzed within the method required holding time.

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807485
Report Date: 05/29/08

Case Narrative (continued)

L0807485-02, -12 through -32 were processed against a calibration curve that utilized a quadratic fit for Chloroethane.

L0807485-13 required re-analysis on dilution in order to quantitate the sample within the calibration range. The result is reported as a "greater than" value for the compound that exceeded the calibration on the initial analysis. The re-analysis was performed only for the compound which exceeded the calibration range.

L0807485-25, -27, -28, and -31 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 WG323432-1/2 LCS/LCSD recoveries, associated with L0807485-12 through -25, and -27, are outside the acceptance criteria for Bromoform and Dichlorodifluoromethane; however, they have been identified as "difficult" analytes. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for Bromoform and a potentially high bias for Dichlorodifluoromethane.

The WG323432-1/2 LCS/LCSD recoveries, associated with L0807485-12 through -25, and -27, were above the acceptance criteria for trans-1,2-Dichloroethene and 1,2,4-Trichlorobenzene; however, the associated samples were non-detect for these target compounds. The results of the original analysis are reported.

The WG323432-4/5 LCS/LCSD recoveries, associated with L0807485-13, are outside the acceptance criteria for Bromoform and Dichlorodifluoromethane; however, they have been identified as "difficult" analytes. The results of the associated sample are reported; however, all results are considered to have a potentially low bias for Bromoform and a potentially high bias for Dichlorodifluoromethane.

The WG323432-4/5 LCS/LCSD recoveries, associated with L0807485-13, were above the acceptance criteria for trans-1,2-Dichloroethene; however, the associated sample was non-detect for this target compound. The results of the original analysis are reported.

The WG323582-1/2 LCS/LCSD recoveries, associated with L0807485-02, -26, and -28 through -32, are outside the acceptance criteria for Bromoform and Dichlorodifluoromethane; however, they have been identified as "difficult" analytes. The results of the associated sample are reported; however, all results are considered to have a potentially low bias for Bromoform and a potentially high bias for Dichlorodifluoromethane.

The WG323582-1/2 LCS/LCSD recoveries, associated with L0807485-02, -26, and -28 through -32, were above the acceptance criteria for trans-1,2-Dichloroethene; however, the associated sample was non-detect

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807485
Report Date: 05/29/08

Case Narrative (continued)

for this target compound. The results of the original analysis are reported. The WG323196-7/8 MS/MSD recoveries, associated with L0807485-01, and -04 through -11, were outside the acceptance criteria for several compounds, but within the overall method allowances. The results of the sample utilized for the MS/MSD are considered to have a potentially high bias for trans-1,2-Dichloroethene, and Dichlorodifluoromethane, and a potentially low bias for Bromoform.

The WG323196-7/8 MS/MSD recoveries, associated with L0807485-01, and -04 through -11, were outside the acceptance criteria for several compounds; however, the associated LCS/LCSD recoveries were within criteria. The results of the sample utilized for the MS/MSD are considered to have a potentially high bias for Trichloroethene, and a potentially low bias for Chlorodibromomethane and trans-1,3-Dichloropropene.

The WG323196-7/8 MS recoveries, associated with L0807485-01, and -04 through -11, were below the acceptance criteria for 1,1,2,2-Tetrachloroethane and 1,1,1,2-Tetrachloroethane; however, the associated LCS/LCSD recoveries were within criteria. The results of the sample utilized for the MS/MSD are considered to have a potentially low bias for these target compounds.

The WG323432-10/11 MSD recovery, associated with L0807485-12 through -25, and -27, was below the acceptance criteria trans-1,3-Dichloropropene; however, the associated LCS/LCSD recoveries were within criteria. The results of the sample utilized for the MS/MSD are considered to have a potentially low bias for this target compound.

The WG323432-10/11 MSD recovery, associated with L0807485-12 through -25, and -27, was below the acceptance criteria for Bromoform, but within the overall method allowances. The results of the sample utilized for the MS/MSD are considered to have a potentially low bias for this target compound.

The WG323432-10/11 MS/MSD recoveries, associated with L0807485-12 through -25, and -27, were above the acceptance criteria for trans-1,2-Dichloroethene and Dichlorodifluoromethane, but within the overall method allowances. The results of the sample utilized for the MS/MSD are considered to have a potentially high bias for these target compounds.

In reference to question F:

All samples were analyzed for a subset of MCP compounds per the Chain of Custody.

Metals

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807485
Report Date: 05/29/08

Case Narrative (continued)


L0807485-07 required re-analysis on dilution in order to quantitate the sample within the calibration range. The result is reported as a "greater than" value for the initial analysis that exceeded the calibration curve. The re-analysis was performed only for Sodium.

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: 05/29/08

ORGANICS

VOLATILES

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-01
 Client ID: MW-208S-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/23/08 21:50
 Analyst: GK

Date Collected: 05/20/08 12:30
 Date Received: 05/21/08
 Field Prep: Field Filtered

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
1,1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	3.4		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
1,1,1,2,2-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	4.0		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
1,1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-01
 Client ID: MW-208S-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 12:30
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	90		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	103		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-02
 Client ID: MW-208M-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/28/08 18:59
 Analyst: BS

Date Collected: 05/20/08 14:00
 Date Received: 05/21/08
 Field Prep: None

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	1.8		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
1,1,1,2-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
1,1,1,2,2-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	0.65		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	10		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	1.2		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-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-02
 Client ID: MW-208M-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 14:00
 Date Received: 05/21/08
 Field Prep: None

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	106		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	89		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

SAMPLE RESULTS

Lab ID: L0807485-04
 Client ID: MW-203M-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/23/08 22:50
 Analyst: GK

Date Collected: 05/20/08 14:10
 Date Received: 05/21/08
 Field Prep: Field Filtered

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
1,1,1,2-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	1.7		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
1,1,1,2,2-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	2.3		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	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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-04
 Client ID: MW-203M-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 14:10
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	100		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	99		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

SAMPLE RESULTS

Lab ID: L0807485-05
 Client ID: MW-106M-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/23/08 23:19
 Analyst: GK

Date Collected: 05/20/08 08:57
 Date Received: 05/21/08
 Field Prep: Field Filtered

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
1,1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	1.3		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
1,1,1,2-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	9.0		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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-05
 Client ID: MW-106M-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 08:57
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	104		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	92		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-06
 Client ID: MW-106-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/23/08 23:49
 Analyst: GK

Date Collected: 05/20/08 09:42
 Date Received: 05/21/08
 Field Prep: Field Filtered

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
1,1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	0.99		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
1,1,1,2-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	6.8		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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-06
 Client ID: MW-106-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 09:42
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	106		70-130
Toluene-d8	72		70-130
4-Bromofluorobenzene	72		70-130
Dibromofluoromethane	103		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

SAMPLE RESULTS

Lab ID: L0807485-07
 Client ID: MW-105M-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/24/08 00:18
 Analyst: GK

Date Collected: 05/20/08 12:32
 Date Received: 05/21/08
 Field Prep: Field Filtered

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
1,1,1-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	0.98		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
1,1,1,2-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	7.3		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	0.67		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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-07
 Client ID: MW-105M-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 12:32
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	98		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	96		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

SAMPLE RESULTS

Lab ID: L0807485-08
 Client ID: MW-105-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/24/08 00:48
 Analyst: GK

Date Collected: 05/20/08 11:35
 Date Received: 05/21/08
 Field Prep: Field Filtered

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
1,1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	1.6		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
1,1,1,2-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	12		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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-08
 Client ID: MW-105-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 11:35
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	98		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	97		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-09
 Client ID: MW-104-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/24/08 01:17
 Analyst: GK

Date Collected: 05/20/08 10:35
 Date Received: 05/21/08
 Field Prep: Field Filtered

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
1,1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	1.9		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
1,1,1,2-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	18		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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-09
 Client ID: MW-104-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 10:35
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	101		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	96		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-10
 Client ID: DUP-006-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/24/08 01:47
 Analyst: GK

Date Collected: 05/20/08 00:00
 Date Received: 05/21/08
 Field Prep: Field Filtered

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
1,1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	2.9		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
1,1,1,2,2-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	20		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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-10
 Client ID: DUP-006-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 00:00
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	100		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	98		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-11
 Client ID: MW-43S-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/24/08 02:16
 Analyst: GK

Date Collected: 05/20/08 14:00
 Date Received: 05/21/08
 Field Prep: Field Filtered

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
1,1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	4.5		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
1,1,1,2,2-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	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
1,1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-11
 Client ID: MW-43S-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 14:00
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	99		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	89		70-130
Dibromofluoromethane	96		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-12
 Client ID: MW-203S-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/27/08 19:08
 Analyst: BS

Date Collected: 05/20/08 15:26
 Date Received: 05/21/08
 Field Prep: Field Filtered

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
1,1,1,2-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
1,1,1,2-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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-12
 Client ID: MW-203S-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 15:26
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	96		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	106		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

SAMPLE RESULTS

Lab ID: L0807485-13
 Client ID: MW-33S-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/27/08 19:41
 Analyst: BS

Date Collected: 05/20/08 14:30
 Date Received: 05/21/08
 Field Prep: Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	1.8		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
1,1,1,2-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	180		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
1,1,1,2-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	5.8		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	>200		ug/l	.5	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	2.1		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-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-13
 Client ID: MW-33S-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 14:30
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	97		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	99		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-13 R
 Client ID: MW-33S-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/28/08 17:52
 Analyst: BS

Date Collected: 05/20/08 14:30
 Date Received: 05/21/08
 Field Prep: Field Filtered

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Trichloroethene	520		ug/l	5.0	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	109		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

SAMPLE RESULTS

Lab ID: L0807485-14
 Client ID: MW-33M-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/27/08 20:14
 Analyst: BS

Date Collected: 05/20/08 13:35
 Date Received: 05/21/08
 Field Prep: Field Filtered

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
1,1,1,2-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
1,1,1,2,2-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	6.1		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
1,1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-14
 Client ID: MW-33M-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 13:35
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	99		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	106		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

SAMPLE RESULTS

Lab ID: L0807485-15
 Client ID: MW-40-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/27/08 20:47
 Analyst: BS

Date Collected: 05/20/08 10:00
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	5.1		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
1,1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	1.2		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	1.1		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
1,1,1,2-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	5.8		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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-15
 Client ID: MW-40-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 10:00
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	99		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	106		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-16
 Client ID: MW-40S-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/27/08 21:21
 Analyst: BS

Date Collected: 05/20/08 11:20
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	8.9		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
1,1,1,2-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
1,1,1,2,2-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	2.9		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	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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-16
 Client ID: MW-40S-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 11:20
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	100		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

SAMPLE RESULTS

Lab ID: L0807485-17
 Client ID: MW-47D-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/27/08 21:54
 Analyst: BS

Date Collected: 05/20/08 09:50
 Date Received: 05/21/08
 Field Prep: Field Filtered

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
1,1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	1.6		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
1,1,1,2,2-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	14		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	1.3		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-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-17
 Client ID: MW-47D-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 09:50
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	100		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-18
 Client ID: MW-47S-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/27/08 22:27
 Analyst: BS

Date Collected: 05/20/08 11:40
 Date Received: 05/21/08
 Field Prep: None

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
1,1,1,2-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	5.4		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
1,1,1,2-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	4.8		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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-18
 Client ID: MW-47S-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 11:40
 Date Received: 05/21/08
 Field Prep: None

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	99		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	110		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

SAMPLE RESULTS

Lab ID: L0807485-19
 Client ID: MW-201M-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/27/08 23:00
 Analyst: BS

Date Collected: 05/20/08 13:25
 Date Received: 05/21/08
 Field Prep: None

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	1.7		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
1,1,1,2-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
1,1,1,2,2-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	2.2		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	72		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	22		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
1,1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-19
 Client ID: MW-201M-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 13:25
 Date Received: 05/21/08
 Field Prep: None

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	99		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

SAMPLE RESULTS

Lab ID: L0807485-20
 Client ID: MW-47M-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/27/08 23:33
 Analyst: BS

Date Collected: 05/20/08 10:55
 Date Received: 05/21/08
 Field Prep: Field Filtered

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
1,1,1-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	0.56		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
1,1,1,2-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	12		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	1.4		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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-20
 Client ID: MW-47M-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 10:55
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	100		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	109		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

SAMPLE RESULTS

Lab ID: L0807485-21
 Client ID: MW-214-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/28/08 00:06
 Analyst: BS

Date Collected: 05/20/08 15:40
 Date Received: 05/21/08
 Field Prep: Field Filtered

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
1,1,1,2-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
1,1,1,2,2-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	13		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
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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-21
 Client ID: MW-214-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 15:40
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	101		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	111		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

SAMPLE RESULTS

Lab ID: L0807485-22
 Client ID: MW-103-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/28/08 00:40
 Analyst: BS

Date Collected: 05/20/08 09:20
 Date Received: 05/21/08
 Field Prep: Field Filtered

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
1,1,1,2-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
1,1,1,2-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	0.72		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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-22
 Client ID: MW-103-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 09:20
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	99		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	109		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

SAMPLE RESULTS

Lab ID: L0807485-23
 Client ID: MW-213-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/28/08 01:13
 Analyst: BS

Date Collected: 05/20/08 10:40
 Date Received: 05/21/08
 Field Prep: Field Filtered

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
1,1,1,2-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
1,1,1,2-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	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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-23
 Client ID: MW-213-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 10:40
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	102		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-24
 Client ID: MW-102-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/28/08 01:46
 Analyst: BS

Date Collected: 05/20/08 13:45
 Date Received: 05/21/08
 Field Prep: None

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	0.82		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
1,1,1,2-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
1,1,1,2,2-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	0.70		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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-24
 Client ID: MW-102-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 13:45
 Date Received: 05/21/08
 Field Prep: None

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	100		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	109		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

SAMPLE RESULTS

Lab ID: L0807485-25
 Client ID: MW-403-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/28/08 02:19
 Analyst: BS

Date Collected: 05/20/08 12:35
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	3.7		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	100		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	3.6		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-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-25
 Client ID: MW-403-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 12:35
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	99		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

SAMPLE RESULTS

Lab ID: L0807485-26
 Client ID: DUP-007-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/28/08 18:25
 Analyst: BS

Date Collected: 05/20/08 00:00
 Date Received: 05/21/08
 Field Prep: None

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	5.0		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
1,1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	1.0		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	0.97		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
1,1,1,2-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	4.9		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	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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-26
 Client ID: DUP-007-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 00:00
 Date Received: 05/21/08
 Field Prep: None

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	103		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	111		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-27
 Client ID: MW-201D-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/28/08 03:25
 Analyst: BS

Date Collected: 05/20/08 15:30
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	16		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	220		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	18		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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-27
 Client ID: MW-201D-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 15:30
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	100		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	108		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

SAMPLE RESULTS

Lab ID: L0807485-28
 Client ID: MW-202M-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/28/08 21:44
 Analyst: BS

Date Collected: 05/20/08 16:35
 Date Received: 05/21/08
 Field Prep: Field Filtered

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
1,1,1,2-Trichloroethane	ND		ug/l	3.8	5
Tetrachloroethene	ND		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	48		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
1,1,1,2-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	2.6		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	ND		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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-28
 Client ID: MW-202M-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 16:35
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	103		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	112		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

SAMPLE RESULTS

Lab ID: L0807485-29
 Client ID: DUP-004-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/28/08 22:18
 Analyst: BS

Date Collected: 05/20/08 00:00
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	6.0		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
1,1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	1.0		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	1.2		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
1,1,1,2,2-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	5.2		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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-29
 Client ID: DUP-004-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 00:00
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	104		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	114		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-30
 Client ID: DUP-005-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/28/08 22:51
 Analyst: BS

Date Collected: 05/20/08 00:00
 Date Received: 05/21/08
 Field Prep: Field Filtered

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
1,1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	1.5		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
1,1,1,2-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	14		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	1.4		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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-30
 Client ID: DUP-005-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 00:00
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	102		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	111		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

SAMPLE RESULTS

Lab ID: L0807485-31
 Client ID: DUP-009-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/28/08 23:24
 Analyst: BS

Date Collected: 05/20/08 00:00
 Date Received: 05/21/08
 Field Prep: Field Filtered

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
1,1,1,2-Trichloroethane	ND		ug/l	3.8	5
Tetrachloroethene	ND		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	190		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
1,1,1,2-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	6.6		ug/l	2.5	5
trans-1,2-Dichloroethene	ND		ug/l	3.8	5
Trichloroethene	620		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	ND		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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-31
 Client ID: DUP-009-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 00:00
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	102		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	110		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-32
 Client ID: MW-201S-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/28/08 23:57
 Analyst: BS

Date Collected: 05/20/08 16:50
 Date Received: 05/21/08
 Field Prep: Field Filtered

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
1,1,1-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	0.98		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
1,1,1,2-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	10		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:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-32
 Client ID: MW-201S-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 16:50
 Date Received: 05/21/08
 Field Prep: Field Filtered

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	103		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	112		70-130

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807485
Report Date: 05/29/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/23/08 17:40
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01,04-11 Batch: WG323196-3				
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-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
 Analytical Date: 05/23/08 17:40
 Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01,04-11 Batch: WG323196-3				
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	99		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	98		70-130

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807485
Report Date: 05/29/08

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 05/27/08 17:28
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 12-25,27 Batch: WG323432-3				
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-WAYLAND
Project Number: 0079387

Lab Number: L0807485
Report Date: 05/29/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/27/08 17:28
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 12-25,27 Batch: WG323432-3				
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	97		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	106		70-130

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807485
Report Date: 05/29/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/28/08 17:19
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 13 Batch: WG323432-6				
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
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
Project Number: 0079387

Lab Number: L0807485
Report Date: 05/29/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 05/28/08 17:19
 Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 13 Batch: WG323432-6				

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	102		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	109		70-130

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807485
Report Date: 05/29/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/28/08 17:19
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 02,26,28-32 Batch: WG323582-3				
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: 0079387

Lab Number: L0807485
Report Date: 05/29/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/28/08 17:19
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 02,26,28-32 Batch: WG323582-3				
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

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
 Analytical Date: 05/28/08 17:19
 Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 02,26,28-32 Batch: WG323582-3				
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	102		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	109		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01,04-11 Batch: WG323196-1 WG323196-2					
Methylene chloride	89	89	70-130	0	25
1,1-Dichloroethane	101	98	70-130	3	25
Chloroform	90	88	70-130	2	25
Carbon tetrachloride	124	122	70-130	2	25
1,2-Dichloropropane	100	98	70-130	2	25
Dibromochloromethane	111	105	70-130	6	25
1,1,2-Trichloroethane	90	87	70-130	3	25
Tetrachloroethene	103	104	70-130	1	25
Chlorobenzene	95	96	70-130	1	25
1,2-Dichloroethane	104	104	70-130	0	25
1,1,1-Trichloroethane	102	101	70-130	1	25
Bromodichloromethane	97	99	70-130	2	25
trans-1,3-Dichloropropene	108	106	70-130	2	25
cis-1,3-Dichloropropene	103	100	70-130	3	25
Bromoform	125	124	70-130	1	50
1,1,2,2-Tetrachloroethane	97	91	70-130	6	25
Chloromethane	120	120	70-130	0	50
Vinyl chloride	106	105	70-130	1	25
Chloroethane	84	85	70-130	1	25
1,1-Dichloroethene	80	76	70-130	5	25
trans-1,2-Dichloroethene	90	91	70-130	1	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01,04-11 Batch: WG323196-1 WG323196-2					
Trichloroethene	85	85	70-130	0	25
1,2-Dichlorobenzene	105	98	70-130	7	25
1,3-Dichlorobenzene	101	95	70-130	6	25
1,4-Dichlorobenzene	103	98	70-130	5	25
cis-1,2-Dichloroethene	92	92	70-130	0	25
Dichlorodifluoromethane	99	95	70-130	4	50
1,2-Dibromoethane	104	101	70-130	3	25
1,3-Dichloropropane	89	88	70-130	1	25
1,1,1,2-Tetrachloroethane	114	112	70-130	2	25
o-Chlorotoluene	88	86	70-130	2	25
p-Chlorotoluene	90	88	70-130	2	25
Hexachlorobutadiene	112	102	70-130	9	25
1,2,4-Trichlorobenzene	111	104	70-130	7	25

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		97		70-130
Toluene-d8	91		91		70-130
4-Bromofluorobenzene	85		86		70-130
Dibromofluoromethane	96		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 12-25,27 Batch: WG323432-1 WG323432-2					
Methylene chloride	124	130	70-130	5	25
1,1-Dichloroethane	95	102	70-130	7	25
Chloroform	96	103	70-130	7	25
Carbon tetrachloride	74	74	70-130	0	25
1,2-Dichloropropane	91	99	70-130	8	25
Dibromochloromethane	70	70	70-130	0	25
1,1,2-Trichloroethane	86	93	70-130	8	25
Tetrachloroethene	95	104	70-130	9	25
Chlorobenzene	89	98	70-130	10	25
1,2-Dichloroethane	95	100	70-130	5	25
1,1,1-Trichloroethane	92	100	70-130	8	25
Bromodichloromethane	86	90	70-130	5	25
trans-1,3-Dichloropropene	74	76	70-130	3	25
cis-1,3-Dichloropropene	82	87	70-130	6	25
Bromoform	61	58	70-130	5	50
1,1,2,2-Tetrachloroethane	72	84	70-130	15	25
Chloromethane	107	116	70-130	8	50
Vinyl chloride	107	119	70-130	11	25
Chloroethane	102	117	70-130	14	25
1,1-Dichloroethene	94	103	70-130	9	25
trans-1,2-Dichloroethene	134	147	70-130	9	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 12-25,27 Batch: WG323432-1 WG323432-2					
Trichloroethene	99	109	70-130	10	25
1,2-Dichlorobenzene	89	99	70-130	11	25
1,3-Dichlorobenzene	92	101	70-130	9	25
1,4-Dichlorobenzene	92	102	70-130	10	25
cis-1,2-Dichloroethene	95	103	70-130	8	25
Dichlorodifluoromethane	151	170	70-130	12	50
1,2-Dibromoethane	85	92	70-130	8	25
1,3-Dichloropropane	85	92	70-130	8	25
1,1,1,2-Tetrachloroethane	75	76	70-130	1	25
o-Chlorotoluene	90	99	70-130	10	25
p-Chlorotoluene	88	99	70-130	12	25
Hexachlorobutadiene	100	102	70-130	2	25
1,2,4-Trichlorobenzene	120	133	70-130	10	25

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		95		70-130
Toluene-d8	95		95		70-130
4-Bromofluorobenzene	93		97		70-130
Dibromofluoromethane	108		106		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 13 Batch: WG323432-4 WG323432-5					
Methylene chloride	130	130	70-130	0	25
1,1-Dichloroethane	100	100	70-130	0	25
Chloroform	103	103	70-130	0	25
Carbon tetrachloride	73	74	70-130	1	25
1,2-Dichloropropane	96	96	70-130	0	25
Dibromochloromethane	72	73	70-130	1	25
1,1,2-Trichloroethane	90	95	70-130	5	25
Tetrachloroethene	102	101	70-130	1	25
Chlorobenzene	93	94	70-130	1	25
1,2-Dichloroethane	103	102	70-130	1	25
1,1,1-Trichloroethane	96	97	70-130	1	25
Bromodichloromethane	90	90	70-130	0	25
trans-1,3-Dichloropropene	71	73	70-130	3	25
cis-1,3-Dichloropropene	82	83	70-130	1	25
Bromoform	63	62	70-130	2	50
1,1,2,2-Tetrachloroethane	82	80	70-130	2	25
Chloromethane	123	120	70-130	2	50
Vinyl chloride	117	113	70-130	3	25
Chloroethane	112	109	70-130	3	25
1,1-Dichloroethene	98	96	70-130	2	25
trans-1,2-Dichloroethene	145	141	70-130	3	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 13 Batch: WG323432-4 WG323432-5					
Trichloroethene	108	106	70-130	2	25
1,2-Dichlorobenzene	98	96	70-130	2	25
1,3-Dichlorobenzene	101	101	70-130	0	25
1,4-Dichlorobenzene	101	100	70-130	1	25
cis-1,2-Dichloroethene	101	99	70-130	2	25
Dichlorodifluoromethane	161	160	70-130	1	50
1,2-Dibromoethane	89	90	70-130	1	25
1,3-Dichloropropane	90	90	70-130	0	25
1,1,1,2-Tetrachloroethane	75	76	70-130	1	25
o-Chlorotoluene	98	97	70-130	1	25
p-Chlorotoluene	96	97	70-130	1	25
Hexachlorobutadiene	101	101	70-130	0	25
1,2,4-Trichlorobenzene	129	128	70-130	1	25

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		99		70-130
Toluene-d8	95		97		70-130
4-Bromofluorobenzene	95		96		70-130
Dibromofluoromethane	109		106		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02,26,28-32 Batch: WG323582-1 WG323582-2					
Methylene chloride	130	130	70-130	0	25
1,1-Dichloroethane	100	100	70-130	0	25
Chloroform	103	103	70-130	0	25
Carbon tetrachloride	73	74	70-130	1	25
1,2-Dichloropropane	96	96	70-130	0	25
Dibromochloromethane	72	73	70-130	1	25
1,1,2-Trichloroethane	90	95	70-130	5	25
Tetrachloroethene	102	101	70-130	1	25
Chlorobenzene	93	94	70-130	1	25
Trichlorofluoromethane	123	124	70-130	1	25
1,2-Dichloroethane	103	102	70-130	1	25
1,1,1-Trichloroethane	96	97	70-130	1	25
Bromodichloromethane	90	90	70-130	0	25
trans-1,3-Dichloropropene	71	73	70-130	3	25
cis-1,3-Dichloropropene	82	83	70-130	1	25
1,1-Dichloropropene	101	101	70-130	0	25
Bromoform	63	62	70-130	2	50
1,1,2,2-Tetrachloroethane	82	80	70-130	2	25
Benzene	101	100	70-130	1	25
Toluene	95	95	70-130	0	25
Ethylbenzene	96	96	70-130	0	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02,26,28-32 Batch: WG323582-1 WG323582-2					
Chloromethane	123	120	70-130	2	50
Bromomethane	113	102	70-130	10	50
Vinyl chloride	117	113	70-130	3	25
Chloroethane	112	109	70-130	3	25
1,1-Dichloroethene	98	96	70-130	2	25
trans-1,2-Dichloroethene	145	141	70-130	3	25
Trichloroethene	108	106	70-130	2	25
1,2-Dichlorobenzene	98	96	70-130	2	25
1,3-Dichlorobenzene	101	101	70-130	0	25
1,4-Dichlorobenzene	101	100	70-130	1	25
Methyl tert butyl ether	84	83	70-130	1	25
p/m-Xylene	97	97	70-130	0	25
o-Xylene	101	101	70-130	0	25
cis-1,2-Dichloroethene	101	99	70-130	2	25
Dibromomethane	95	99	70-130	4	25
1,2,3-Trichloropropane	91	90	70-130	1	25
Styrene	102	103	70-130	1	25
Dichlorodifluoromethane	161	160	70-130	1	50
Acetone	108	107	70-130	1	50
Carbon disulfide	84	83	70-130	1	25
2-Butanone	86	82	70-130	5	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02,26,28-32 Batch: WG323582-1 WG323582-2					
4-Methyl-2-pentanone	70	70	70-130	0	50
2-Hexanone	66	68	70-130	3	50
Bromochloromethane	99	100	70-130	1	25
Tetrahydrofuran	81	86	70-130	6	25
2,2-Dichloropropane	81	82	70-130	1	50
1,2-Dibromoethane	89	90	70-130	1	25
1,3-Dichloropropane	90	90	70-130	0	25
1,1,1,2-Tetrachloroethane	75	76	70-130	1	25
Bromobenzene	97	96	70-130	1	25
n-Butylbenzene	112	111	70-130	1	25
sec-Butylbenzene	92	93	70-130	1	25
tert-Butylbenzene	91	90	70-130	1	25
o-Chlorotoluene	98	97	70-130	1	25
p-Chlorotoluene	96	97	70-130	1	25
1,2-Dibromo-3-chloropropane	59	65	70-130	10	50
Hexachlorobutadiene	101	101	70-130	0	25
Isopropylbenzene	110	109	70-130	1	25
p-Isopropyltoluene	100	101	70-130	1	25
Naphthalene	134	134	70-130	0	25
n-Propylbenzene	95	94	70-130	1	25
1,2,3-Trichlorobenzene	131	131	70-130	0	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 02,26,28-32 Batch: WG323582-1 WG323582-2					
1,2,4-Trichlorobenzene	129	128	70-130	1	25
1,3,5-Trimethylbenzene	98	97	70-130	1	25
1,2,4-Trimethylbenzene	106	106	70-130	0	25
Ethyl ether	84	84	70-130	0	25
Isopropyl Ether	91	89	70-130	2	25
Ethyl-Tert-Butyl-Ether	83	81	70-130	2	25
Tertiary-Amyl Methyl Ether	74	72	70-130	3	25
1,4-Dioxane	77	87	70-130	12	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		99		70-130
Toluene-d8	95		97		70-130
4-Bromofluorobenzene	95		96		70-130
Dibromofluoromethane	109		106		70-130

Matrix Spike Analysis Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

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): 01,04-11 QC Batch ID: WG323196-7 WG323196-8 QC Sample: L0807485-11 Client ID: MW-43S-20080520-01										
Methylene chloride	ND	10	12	123	13	129	70-130	5	30	
1,1-Dichloroethane	ND	10	9.7	98	10	101	70-130	3	30	
Chloroform	ND	10	9.9	99	10	103	70-130	4	30	
Carbon tetrachloride	ND	10	7.3	73	7.8	78	70-130	7	30	
1,2-Dichloropropane	ND	10	9.1	91	9.5	95	70-130	4	30	
Dibromochloromethane	ND	10	6.3	63	6.9	69	70-130	9	30	
1,1,2-Trichloroethane	ND	10	8.0	80	8.8	88	70-130	10	30	
Tetrachloroethene	4.5	10	14	91	14	101	70-130	10	30	
Chlorobenzene	ND	10	8.7	88	9.3	93	70-130	6	30	
1,2-Dichloroethane	ND	10	9.8	98	10	103	70-130	5	30	
1,1,1-Trichloroethane	ND	10	9.4	94	10	101	70-130	7	30	
Bromodichloromethane	ND	10	8.5	85	8.9	89	70-130	5	30	
trans-1,3-Dichloropropene	ND	10	6.3	63	6.9	69	70-130	9	30	
cis-1,3-Dichloropropene	ND	10	7.5	75	7.9	79	70-130	5	30	
Bromoform	ND	10	5.1	51	5.6	56	70-130	9	30	
1,1,2,2-Tetrachloroethane	ND	10	6.7	67	7.3	73	70-130	9	30	
Chloromethane	ND	10	11	115	12	118	70-130	3	30	
Vinyl chloride	ND	10	12	116	12	122	70-130	5	30	
Chloroethane	ND	10	11	113	11	115	70-130	2	30	
1,1-Dichloroethene	ND	10	10	100	10	104	70-130	4	30	
trans-1,2-Dichloroethene	ND	10	14	142	15	153	70-130	7	30	

Matrix Spike Analysis Batch Quality Control

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807485
Report Date: 05/29/08

Parameter	Native Sample	MS Added	MS Found	MS		MSD		Recovery Limits	RPD	RPD Limits
				%Recovery	MSD Found	%Recovery	MSD Found			
Volatile Organics by MCP 8260B Associated sample(s): 01,04-11 QC Batch ID: WG323196-7 WG323196-8 QC Sample: L0807485-11 Client ID: MW-43S-20080520-01										
Trichloroethene	40	10	55	147	57	163	70-130	10	30	
1,2-Dichlorobenzene	ND	10	8.5	85	9.0	90	70-130	6	30	
1,3-Dichlorobenzene	ND	10	9.0	90	9.4	94	70-130	4	30	
1,4-Dichlorobenzene	ND	10	9.0	90	9.3	93	70-130	3	30	
cis-1,2-Dichloroethene	ND	10	9.8	98	10	104	70-130	6	30	
Dichlorodifluoromethane	ND	10	16	166	17	171	70-130	3	30	
1,2-Dibromoethane	ND	10	7.9	79	8.6	86	70-130	8	30	
1,3-Dichloropropane	ND	10	8.0	80	8.5	85	70-130	6	30	
1,1,1,2-Tetrachloroethane	ND	10	6.8	68	7.4	74	70-130	8	30	
o-Chlorotoluene	ND	10	8.9	89	9.3	93	70-130	4	30	
p-Chlorotoluene	ND	10	8.8	88	9.2	92	70-130	4	30	
Hexachlorobutadiene	ND	10	8.5	85	9.5	95	70-130	11	30	
1,2,4-Trichlorobenzene	ND	10	11	108	11	115	70-130	6	30	

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1,2-Dichloroethane-d4	100		100		70-130
4-Bromofluorobenzene	93		93		70-130
Dibromofluoromethane	107		108		70-130
Toluene-d8	95		95		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

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): 12-25,27 QC Batch ID: WG323432-10 WG323432-11 QC Sample: L0807485-15 Client ID: MW-40-20080520-01										
Methylene chloride	ND	10	9.1	91	11	110	70-130	19	30	
1,1-Dichloroethane	ND	10	9.6	96	10	100	70-130	4	30	
Chloroform	5.1	10	16	105	15	103	70-130	2	30	
Carbon tetrachloride	ND	10	7.0	70	7.3	73	70-130	4	30	
1,2-Dichloropropane	ND	10	9.9	99	9.6	96	70-130	3	30	
Dibromochloromethane	ND	10	7.7	77	7.0	70	70-130	10	30	
1,1,2-Trichloroethane	ND	10	10	100	8.6	86	70-130	15	30	
Tetrachloroethene	1.2	10	11	102	12	103	70-130	1	30	
Chlorobenzene	ND	10	9.8	98	9.2	92	70-130	6	30	
1,2-Dichloroethane	ND	10	11	110	10	104	70-130	6	30	
1,1,1-Trichloroethane	ND	10	9.2	92	9.5	95	70-130	3	30	
Bromodichloromethane	1.1	10	11	95	10	90	70-130	5	30	
trans-1,3-Dichloropropene	ND	10	7.3	73	6.8	68	70-130	7	30	
cis-1,3-Dichloropropene	ND	10	8.6	87	8.1	81	70-130	7	30	
Bromoform	ND	10	7.0	70	5.6	56	70-130	22	30	
1,1,2,2-Tetrachloroethane	ND	10	10	100	7.8	78	70-130	25	30	
Chloromethane	ND	10	11	108	11	112	70-130	4	30	
Vinyl chloride	ND	10	9.8	98	10	103	70-130	5	30	
Chloroethane	ND	10	11	108	12	116	70-130	7	30	
1,1-Dichloroethene	ND	10	9.0	90	9.3	93	70-130	3	30	
trans-1,2-Dichloroethene	ND	10	13	132	14	139	70-130	5	30	

Matrix Spike Analysis Batch Quality Control

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807485
Report Date: 05/29/08

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): 12-25,27 QC Batch ID: WG323432-10 WG323432-11 QC Sample: L0807485-15 Client ID: MW-40-20080520-01										
Trichloroethene	5.8	10	15	95	15	93	70-130	2	30	
1,2-Dichlorobenzene	ND	10	9.9	99	8.8	88	70-130	12	30	
1,3-Dichlorobenzene	ND	10	9.9	99	9.0	90	70-130	10	30	
1,4-Dichlorobenzene	ND	10	10	100	8.9	90	70-130	11	30	
cis-1,2-Dichloroethene	ND	10	10	102	10	104	70-130	2	30	
Dichlorodifluoromethane	ND	10	15	151	15	146	70-130	3	30	
1,2-Dibromoethane	ND	10	9.5	95	8.5	85	70-130	11	30	
1,3-Dichloropropane	ND	10	9.5	95	8.6	86	70-130	10	30	
1,1,1,2-Tetrachloroethane	ND	10	7.7	77	7.2	72	70-130	7	30	
o-Chlorotoluene	ND	10	8.5	85	7.8	78	70-130	9	30	
p-Chlorotoluene	ND	10	9.6	96	8.7	87	70-130	10	30	
Hexachlorobutadiene	ND	10	9.4	94	8.7	87	70-130	8	30	
1,2,4-Trichlorobenzene	ND	10	11	107	9.6	96	70-130	11	30	

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1,2-Dichloroethane-d4	105		106		70-130
4-Bromofluorobenzene	98		96		70-130
Dibromofluoromethane	106		108		70-130
Toluene-d8	95		95		70-130

METALS

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-01

Date Collected: 05/20/08 12:30

Client ID: MW-208S-20080520-01

Date Received: 05/21/08

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										
Potassium, Dissolved	ND		mg/l	2.5	1	05/22/08 12:30	05/23/08 18:58	EPA 3005A	60,6010B	AI
Sodium, Dissolved	43		mg/l	2.0	1	05/22/08 12:30	05/23/08 18:58	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-03

Date Collected: 05/20/08 00:00

Client ID: DUP-008-20080520-01

Date Received: 05/21/08

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										
Potassium, Dissolved	ND		mg/l	2.5	1	05/22/08 12:30	05/23/08 19:02	EPA 3005A	60,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-04

Date Collected: 05/20/08 14:10

Client ID: MW-203M-20080520-01

Date Received: 05/21/08

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										
Sodium, Dissolved	71		mg/l	2.0	1	05/22/08 12:30	05/23/08 19:05	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-05

Date Collected: 05/20/08 08:57

Client ID: MW-106M-20080520-01

Date Received: 05/21/08

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										
Sodium, Dissolved	130		mg/l	2.0	1	05/22/08 12:30	05/23/08 19:09	EPA 3005A	60,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-06

Date Collected: 05/20/08 09:42

Client ID: MW-106-20080520-01

Date Received: 05/21/08

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										
Sodium, Dissolved	80		mg/l	2.0	1	05/22/08 12:30	05/23/08 19:12	EPA 3005A	60,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-07

Date Collected: 05/20/08 12:32

Client ID: MW-105M-20080520-01

Date Received: 05/21/08

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										
Sodium, Dissolved	>150		mg/l	2	1	05/22/08 12:30	05/23/08 19:16	EPA 3005A	60,6010B	AI
Sodium, Dissolved	170		mg/l	4.0	2	05/22/08 12:30	05/27/08 13:20	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-08

Date Collected: 05/20/08 11:35

Client ID: MW-105-20080520-01

Date Received: 05/21/08

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										
Sodium, Dissolved	90		mg/l	2.0	1	05/22/08 12:30	05/23/08 19:20	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-09

Date Collected: 05/20/08 10:35

Client ID: MW-104-20080520-01

Date Received: 05/21/08

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										
Sodium, Dissolved	33		mg/l	2.0	1	05/22/08 12:30	05/23/08 19:23	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-10

Date Collected: 05/20/08 00:00

Client ID: DUP-006-20080520-01

Date Received: 05/21/08

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										
Sodium, Dissolved	35		mg/l	2.0	1	05/22/08 12:30	05/23/08 19:43	EPA 3005A	60,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-11

Date Collected: 05/20/08 14:00

Client ID: MW-43S-20080520-01

Date Received: 05/21/08

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										
Sodium, Dissolved	50		mg/l	2.0	1	05/22/08 12:30	05/23/08 18:27	EPA 3005A	60,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-12

Date Collected: 05/20/08 15:26

Client ID: MW-203S-20080520-01

Date Received: 05/21/08

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										
Sodium, Dissolved	34		mg/l	2.0	1	05/22/08 12:30	05/23/08 19:47	EPA 3005A	60,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-13

Date Collected: 05/20/08 14:30

Client ID: MW-33S-20080520-01

Date Received: 05/21/08

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										
Potassium, Dissolved	20		mg/l	2.5	1	05/22/08 12:30	05/23/08 19:50	EPA 3005A	60,6010B	AI
Sodium, Dissolved	9.4		mg/l	2.0	1	05/22/08 12:30	05/23/08 19:50	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-14

Date Collected: 05/20/08 13:35

Client ID: MW-33M-20080520-01

Date Received: 05/21/08

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										
Potassium, Dissolved	140		mg/l	2.5	1	05/22/08 12:30	05/23/08 19:54	EPA 3005A	60,6010B	AI
Sodium, Dissolved	14		mg/l	2.0	1	05/22/08 12:30	05/23/08 19:54	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-15

Date Collected: 05/20/08 10:00

Client ID: MW-40-20080520-01

Date Received: 05/21/08

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										
Sodium, Dissolved	24		mg/l	2.0	1	05/27/08 18:30	05/28/08 13:33	EPA 3005A	60,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-16

Date Collected: 05/20/08 11:20

Client ID: MW-40S-20080520-01

Date Received: 05/21/08

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										
Sodium, Dissolved	95		mg/l	2.0	1	05/22/08 12:30	05/23/08 19:58	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-17

Date Collected: 05/20/08 09:50

Client ID: MW-47D-20080520-01

Date Received: 05/21/08

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										
Sodium, Dissolved	87		mg/l	2.0	1	05/22/08 12:30	05/23/08 20:01	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-20

Date Collected: 05/20/08 10:55

Client ID: MW-47M-20080520-01

Date Received: 05/21/08

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										
Sodium, Dissolved	9.7		mg/l	2.0	1	05/22/08 12:30	05/23/08 20:05	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-21

Date Collected: 05/20/08 15:40

Client ID: MW-214-20080520-01

Date Received: 05/21/08

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										
Sodium, Dissolved	50		mg/l	2.0	1	05/22/08 12:30	05/23/08 20:08	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-22

Date Collected: 05/20/08 09:20

Client ID: MW-103-20080520-01

Date Received: 05/21/08

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										
Sodium, Dissolved	71		mg/l	2.0	1	05/22/08 12:30	05/23/08 20:12	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-23

Date Collected: 05/20/08 10:40

Client ID: MW-213-20080520-01

Date Received: 05/21/08

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										
Sodium, Dissolved	110		mg/l	2.0	1	05/22/08 12:30	05/23/08 20:16	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-25

Date Collected: 05/20/08 12:35

Client ID: MW-403-20080520-01

Date Received: 05/21/08

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										
Sodium, Dissolved	140		mg/l	2.0	1	05/22/08 12:30	05/23/08 20:35	EPA 3005A	60,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-27

Date Collected: 05/20/08 15:30

Client ID: MW-201D-20080520-01

Date Received: 05/21/08

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										
Sodium, Dissolved	65		mg/l	2.0	1	05/27/08 18:30	05/28/08 13:40	EPA 3005A	60,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-28

Date Collected: 05/20/08 16:35

Client ID: MW-202M-20080520-01

Date Received: 05/21/08

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										
Potassium, Dissolved	2.6		mg/l	2.5	1	05/27/08 18:30	05/28/08 13:43	EPA 3005A	60,6010B	AI
Sodium, Dissolved	25		mg/l	2.0	1	05/27/08 18:30	05/28/08 13:43	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-29

Date Collected: 05/20/08 00:00

Client ID: DUP-004-20080520-01

Date Received: 05/21/08

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										
Sodium, Dissolved	43		mg/l	2.0	1	05/27/08 18:30	05/28/08 13:47	EPA 3005A	60,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-30

Date Collected: 05/20/08 00:00

Client ID: DUP-005-20080520-01

Date Received: 05/21/08

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										
Sodium, Dissolved	86		mg/l	2.0	1	05/27/08 18:30	05/28/08 13:50	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-31

Date Collected: 05/20/08 00:00

Client ID: DUP-009-20080520-01

Date Received: 05/21/08

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										
Potassium, Dissolved	21		mg/l	2.5	1	05/27/08 18:30	05/28/08 14:08	EPA 3005A	60,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807485**Project Number:** 0079387**Report Date:** 05/29/08**SAMPLE RESULTS**

Lab ID: L0807485-32

Date Collected: 05/20/08 16:50

Client ID: MW-201S-20080520-01

Date Received: 05/21/08

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										
Sodium, Dissolved	57		mg/l	2.0	1	05/27/08 18:30	05/28/08 14:11	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

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): 01,03-14,16-17,20-23,25 Batch: WG322940-3								
Potassium, Dissolved	ND	mg/l	2.5	1	05/22/08 12:30	05/23/08 18:12	60,6010B	AI
Sodium, Dissolved	ND	mg/l	2.0	1	05/22/08 12:30	05/23/08 18:12	60,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals by MCP 6000/7000 series for sample(s): 15,27-32 Batch: WG323322-1								
Potassium, Dissolved	ND	mg/l	2.5	1	05/27/08 18:30	05/28/08 13:20	60,6010B	AI
Sodium, Dissolved	ND	mg/l	2.0	1	05/27/08 18:30	05/28/08 13:20	60,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Project Number: 0079387

Lab Number: L0807485

Report Date: 05/29/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals by MCP 6000/7000 series Associated sample(s): 01,03-14,16-17,20-23,25 Batch: WG322940-4 WG322940-5					
Potassium, Dissolved	94	96	80-120	2	20
Sodium, Dissolved	87	88	80-120	1	20
Dissolved Metals by MCP 6000/7000 series Associated sample(s): 15,27-32 Batch: WG323322-2 WG323322-3					
Potassium, Dissolved	97	96	80-120	1	20
Sodium, Dissolved	94	92	80-120	2	20

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807485

Project Number: 0079387

Report Date: 05/29/08

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0807485-01A	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-01B	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-01C	Plastic 250ml HNO3 preserved	C	<2	4.7C	Y	Absent	MCP-NA-6010S
L0807485-01D	Plastic 250ml HNO3 preserved	C	<2	4.7C	Y	Absent	MCP-K-6010S
L0807485-02A	Vial Na2S2O3 preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-02B	Vial Na2S2O3 preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-03D	Plastic 250ml HNO3 preserved	C	<2	4.7C	Y	Absent	MCP-K-6010S
L0807485-04A	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-04B	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-04C	Plastic 250ml HNO3 preserved	C	<2	4.7C	Y	Absent	MCP-NA-6010S
L0807485-05A	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-05B	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-05C	Plastic 250ml HNO3 preserved	C	<2	4.7C	Y	Absent	MCP-NA-6010S
L0807485-06A	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-06B	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-06C	Plastic 250ml HNO3 preserved	C	<2	4.7C	Y	Absent	MCP-NA-6010S
L0807485-07A	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-07B	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-07C	Plastic 250ml HNO3 preserved	C	<2	4.7C	Y	Absent	MCP-NA-6010S
L0807485-08A	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-08B	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-08C	Plastic 250ml HNO3 preserved	C	<2	4.7C	Y	Absent	MCP-NA-6010S
L0807485-09A	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-09B	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-09C	Plastic 250ml HNO3 preserved	C	<2	4.7C	Y	Absent	MCP-NA-6010S
L0807485-10A	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-10B	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-10C	Plastic 250ml HNO3 preserved	C	<2	4.7C	Y	Absent	MCP-NA-6010S

Project Name: RAYTHEON-WAYLAND

Project Number: 0079387

Lab Number: L0807485

Report Date: 05/29/08

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0807485-11A	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-11B	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-11C	Plastic 250ml HNO3 preserved	C	<2	4.7C	Y	Absent	MCP-NA-6010S
L0807485-11D	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-11E	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-11F	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-11G	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-12A	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-12B	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-12C	Plastic 250ml HNO3 preserved	C	<2	4.7C	Y	Absent	MCP-NA-6010S
L0807485-13A	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-13B	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-13C	Plastic 250ml HNO3 preserved	B	<2	3.7C	Y	Absent	MCP-NA-6010S
L0807485-13D	Plastic 250ml HNO3 preserved	B	<2	3.7C	Y	Absent	MCP-K-6010S
L0807485-14A	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-14B	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-14C	Plastic 250ml HNO3 preserved	B	<2	3.7C	Y	Absent	MCP-NA-6010S
L0807485-14D	Plastic 250ml HNO3 preserved	B	<2	3.7C	Y	Absent	MCP-K-6010S
L0807485-15A	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-15B	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-15C	Plastic 250ml HNO3 preserved	B	<2	3.7C	Y	Absent	MCP-NA-6010S
L0807485-15D	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-15E	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-15F	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-15G	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-16A	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-16B	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-16C	Plastic 250ml HNO3 preserved	B	<2	3.7C	Y	Absent	MCP-NA-6010S
L0807485-17A	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-17B	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-17C	Plastic 250ml HNO3 preserved	C	<2	4.7C	Y	Absent	MCP-NA-6010S
L0807485-18A	Vial Na2S2O3 preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-18B	Vial Na2S2O3 preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-19A	Vial Na2S2O3 preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-19B	Vial Na2S2O3 preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-20A	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04

Project Name: RAYTHEON-WAYLAND

Project Number: 0079387

Lab Number: L0807485

Report Date: 05/29/08

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0807485-20B	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807485-20C	Plastic 250ml HNO3 preserved	B	<2	3.7C	Y	Absent	MCP-NA-6010S
L0807485-21A	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-21B	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-21C	Plastic 250ml HNO3 preserved	B	<2	3.7C	Y	Absent	MCP-NA-6010S
L0807485-22A	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-22B	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-22C	Plastic 250ml HNO3 preserved	B	<2	3.7C	Y	Absent	MCP-NA-6010S
L0807485-23A	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-23B	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-23C	Plastic 250ml HNO3 preserved	B	<2	3.7C	Y	Absent	MCP-NA-6010S
L0807485-24A	Vial Na2S2O3 preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-24B	Vial Na2S2O3 preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-25A	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-25B	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-25C	Plastic 250ml HNO3 preserved	B	<2	3.7C	Y	Absent	MCP-NA-6010S
L0807485-26A	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-26B	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-27A	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-27B	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-27C	Plastic 250ml HNO3 preserved	B	<2	3.7C	Y	Absent	MCP-NA-6010S
L0807485-28A	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-28B	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807485-28C	Plastic 250ml HNO3 preserved	B	<2	3.7C	Y	Absent	MCP-NA-6010S
L0807485-28D	Plastic 250ml HNO3 preserved	B	<2	3.7C	Y	Absent	MCP-K-6010S
L0807485-29A	Vial HCl preserved	A	N/A	3.0C	Y	Absent	MCP-8260-04
L0807485-29B	Vial HCl preserved	A	N/A	3.0C	Y	Absent	MCP-8260-04
L0807485-29C	Plastic 250ml HNO3 preserved	A	<2	3.0C	Y	Absent	MCP-NA-6010S
L0807485-30A	Vial HCl preserved	A	N/A	3.0C	Y	Absent	MCP-8260-04
L0807485-30B	Vial HCl preserved	A	N/A	3.0C	Y	Absent	MCP-8260-04
L0807485-30C	Plastic 250ml HNO3 preserved	A	<2	3.0C	Y	Absent	MCP-NA-6010S
L0807485-31A	Vial HCl preserved	A	N/A	3.0C	Y	Absent	MCP-8260-04
L0807485-31B	Vial HCl preserved	A	N/A	3.0C	Y	Absent	MCP-8260-04
L0807485-31D	Plastic 250ml HNO3 preserved	A	<2	3.0C	Y	Absent	MCP-K-6010S
L0807485-32A	Vial HCl preserved	A	N/A	3.0C	Y	Absent	MCP-8260-04
L0807485-32B	Vial HCl preserved	A	N/A	3.0C	Y	Absent	MCP-8260-04

Project Name: RAYTHEON-WAYLAND**Project Number:** 0079387**Lab Number:** L0807485**Report Date:** 05/29/08**Container Information**

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0807485-32C	Plastic 250ml HNO3 preserved	A	<2	3.0C	Y	Absent	MCP-NA-6010S

Container Comments

L0807485-11A

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807485
Report Date: 05/29/08

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.

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807485
Report Date: 05/29/08

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.





A CHAIN OF CUSTODY

PAGE 1 OF 4

WESTBORO, MA RAYNHAM, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Date Rec'd in Lab: 5/21/08

ALPHA Job #: L0807485

Project Information

Project Name: RAMTHEON-WAYLAND

Project Location: WAYLAND

Project #: 0079387

Project Manager: JASON FLATTERY

ALPHA Quote #:

Turn-Around Time Standard RUSH (only confirmed if pre-approved!)

Date Due: 5/29/08 Time:

Report Information - Data Deliverables
 FAX EMAIL
 ADEX Add'l Deliverables
Billing Information Same as Client info PO #:**Client Information**

Client: ERM - BOSTON

Address: 399 BOSTON ST. 6th FLOOR
BOSTON, MA 02116

Phone: 617-646-7800

Fax: 617-267-6447

Email: jason.flattery@erm.com

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

State / Fed Program Criteria

MCP/GW-2

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										SAMPLE HANDLING	
SOAIC by 8260	Diss Na	Diss K	SOAIC by 8260							Filtration	
										<input checked="" type="checkbox"/> Done	
										<input type="checkbox"/> Not needed	
										<input type="checkbox"/> Lab to do Preservation	
										<input type="checkbox"/> Lab to do	
										(Please specify below)	

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS										Sample Specific Comments	TOTAL #
		Date	Time			SOAIC by 8260	Diss Na	Diss K	SOAIC by 8260								
7485 -01	MW-208S-20080520-01	5/20/08	12:30	GW	BM	2	1	1									4
-02	MW-208M-20080520-01	5/20/08	14:00		BM												2
-03	DUP-008-20080520-01		24:00		BM			1									1
-04	MW-203M-20080520-01		14:16		LK	2	1										3
-05	MW-106M-20080520-01		8:57		Dm	2	1										3
-06	MW-106-20080520-01		9:42		Dm	2	1										3
-07	MW-105M-20080520-01		12:32		Dm	2	1										3
-08	MW-105-20080520-01		11:35		Dm	2	1										3
-09	MW-104-20080520-01		10:35		Dm	2	1										3
-10	DUP-006-20080520-01		0:00		Dm	2	1										3

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:

Date/Time

Received By:

Date/Time

John D. [Signature]
J. [Signature]

5/21 9:40
 5/21

John [Signature]
[Signature]

5/21 9:40
 5/21/08 13:00

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.

05290816:58



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CHAIN OF CUSTODY

PAGE 2 OF 4

WESTBORO, MA TEL: 508-898-9220 FAX: 508-898-9193
RAYNHAM, MA TEL: 508-822-9300 FAX: 508-822-3288

Date Rec'd in Lab: 5/21/08

ALPHA Job #: L0807405

Project Information

Project Name: RANTHEON-WAYLAND

Project Location: WAYLAND, MA

Project #: 0079387

Project Manager: JASON FLATTERY

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: 5/29/08 Time:

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #:

Client Information

Client: ERM-BOSTON

Address: 399 BOWLSTON ST. 6th FLOOR
BOSTON, MA 02116

Phone: 617-646-7800

Fax: 617-267-6447

Email: jason.flattery@erm.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

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 Protocols) Required?

ANALYSIS

3021C by 8260
Diss Na
Diss K
1,4 Dioxane

SAMPLE HANDLING

Filtration
 Done
 Not needed
 Lab to do Preservation
 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															
		Date	Time																		
7485 - 11	MW-43S-20080520-a	5/20/08	14:00	GW	DM	2	1														3
- 11	MW-43S-20080520-01-MS		14:00		DM	2															2
- 11	MW-43S-20080520-01-MSD		14:00		DM	2															2
- 12	MW-203S-20080520-01		15:26		LR	2	1														3
- 13	MW-33S-20080520-01		14:30		MS	2	1	1	2												6
- 14	MW-33M-20080520-01	5/20/08	13:35		MS	2	1	1													4
- 15	MW-40-20080520-01		10:00		MS	2	1														3
- 15	MW-40-20080520-01-MS		10:00		MS	2															2
- 15	MW-40-20080520-01-MSD		10:00		MS	2															2
- 16	MW-40S-20080520-01	5/20/08	11:20	GW	MS	2	1														3

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Container Type V P P A

Preservative B C C A

Relinquished By:

Date/Time

Received By:

Date/Time

[Signature]
5/21 9:40
5/22

5/21 9:40
5/22

[Signature]
Jason M...

5/21 9:40
5/21/08 13:00

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.

05290816:58



(A)

CHAIN OF CUSTODY

PAGE 3 OF 4

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

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

Date Rec'd in Lab: 5/21/08

ALPHA Job #: 20807485

Project Information

Project Name: RANTHEON-WAYLAND

Project Location: WAYLAND MA

Project #: 0079387

Project Manager: JASON FLATTERY

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: 5/29/08 Time:

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #:

Client Information

Client: ERM - BOSTON

Address: 399 BOYLSTON ST. 6th FLOOR

BOSTON, MA 02116

Phone: 617-646-7800

Fax: 617-267-6447

Email: jason.flattery@erm.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

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 Protocols) Required?

ANALYSIS										SAMPLE HANDLING	
<u>80alc by 8260</u>	<u>Diss Na</u>	<u>80alc by 8260</u>	<u>1,4 Dioxane</u>	<u>1,4 Dioxane</u>						<input checked="" type="checkbox"/> Done	
										<input type="checkbox"/> Not needed	
										<input type="checkbox"/> Lab to do	
										<input type="checkbox"/> Lab to do	
										(Please specify below)	
										Sample Specific Comments	

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS										Sample Specific Comments	TOTAL # BOTTLES						
		Date	Time			80alc by 8260	Diss Na	80alc by 8260	1,4 Dioxane	1,4 Dioxane													
7485 - 17	MW-47D-20080520-01	5/21/08	9:50	GW	MD	2	1																
- 18	MW-47S-20080520-01		11:40		MD			2	2														
- 19	MW-261M-20080520-01		13:25		MD			2	2														4
- 20	MW-47M-20080520-01		10:55		MD	2	1																3
- 21	MW-214-20080520-01		15:40		JDF	2	1																3
- 22	MW-103-20080520-01		9:20		JDF	2	1																3
- 23	MW-213-20080520-01		10:40		JDF	2	1			2													5
- 24	MW-102-20080520-01		13:45		JDF			2	2														4
- 25	MW-403-20080520-01		12:35		JDF	2	1		1														4
- 26	DUP-007-20080520-01		0:00		JDF	2				2													4

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Container Type	V	P	✓	A	A																			
Preservative	B	C	H	H	A																			

Relinquished By:	Date/Time	Received By:	Date/Time
<u>John Branch</u>	<u>5/21 9:40</u>	<u>John Branch</u>	<u>5/21 9:40</u>
	<u>5/21</u>	<u>Jason M...</u>	<u>5/21/08 13:00</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.

05290816:58



(A)

CHAIN OF CUSTODY

PAGE 4 OF 4

WESTBORO, MA RAYNHAM, MA
TEL: 508-898-9220 TEL: 508-822-9300
FAX: 508-898-9193 FAX: 508-822-3288

Date Rec'd in Lab: 5/21/08

ALPHA Job #: L0807485

Project Information

Project Name: RANTHEON-WAYLAND

Project Location: WAYLAND, MA

Project #: 6079387

Project Manager: JASON FLATTERY

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: 5/29/08 Time:

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #:

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 Protocols) Required?

Client Information

Client: ERM - BOSTON

Address: 399 BOWLSTON 6th FLOOR

BOSTON, MA 02116

Phone: 617-646-7800

Fax: 617-267-6447

Email: jason.flattery@erm.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS
80% C by 8a66
Diss Na
Diss K
1,4 Dioxane

SAMPLE HANDLING
Filtration
 Done
 Not needed
 Lab to do Preservation
 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																			
7485 - 27	MW-201D-20080520-01	5/20/08	15:30	GW	MD	2	1														3	
- 28	MW-202M-20080520-01		16:35		MS	2	1	1														4
- 29	DOP-004-20080520-01		0:00		MS	2	1															3
- 30	DUP-005-20080520-01		0:00		MD	2	1															3
- 31	DUP-009-20080520-01		0:00		MS	2		1	2													3
- 32	MW-2015-20080520-01		16:50		MD	2	1															3

PLEASE ANSWER QUESTIONS ABOVE!

Container Type V P P A
Preservative B C C A

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By: [Signature] Date/Time: 5/29 9:44
 Received By: [Signature] Date/Time: 5/21 9:40
[Signature] [Signature] 5/21/08 13:00

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.

05290816:58



ANALYTICAL REPORT

Lab Number:	L0807378
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Project Name:	RAYTHEON-WAYLAND
Project Number:	0079387
Report Date:	05/28/08

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), 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: L0807378
Report Date: 05/28/08

Alpha Sample ID	Client ID	Sample Location
L0807378-01	MW-204D-20080519-01	WAYLAND, MA
L0807378-02	DUP-001-20080519-01	WAYLAND, MA
L0807378-03	MW-204S-20080519-01	WAYLAND, MA
L0807378-04	MW-204M-20080519-01	WAYLAND, MA
L0807378-05	MW-113-20080519-01	WAYLAND, MA
L0807378-06	MW-115-20080519-01	WAYLAND, MA
L0807378-07	MW-109-20080519-01	WAYLAND, MA
L0807378-08	MW-209-20080519-01	WAYLAND, MA
L0807378-09	MW-210-20080519-01	WAYLAND, MA
L0807378-10	MW-211-20080519-01	WAYLAND, MA
L0807378-11	MW-212-20080519-01	WAYLAND, MA
L0807378-12	MW-212M-20080519-01	WAYLAND, MA
L0807378-13	DUP-002-20080519-01	WAYLAND, MA

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

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?	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: 0079387

Lab Number: L0807378
Report Date: 05/28/08

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

MCP Related Narratives

Report Submission

This report contains the results for the Volatile Organic and Dissolved Sodium analyses. The results for all other analyses will be issued under separate cover.

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Volatile Organics

L0807378-05 through -07: The pH of the samples were greater than two.

L0807378-08 was processed against a calibration curve that utilized a quadratic fit for Chloroethane.

In reference to question E:

The WG323280-1 LCS recovery associated with L0807378-01 through -07 is below the acceptance criteria

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807378
Report Date: 05/28/08

Case Narrative (continued)

for Bromoform; however, it has been identified as a "difficult" analyte. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

The WG323286-1/2 LCS/LCSD recoveries associated with L0807378-09 through -13 are below the acceptance criteria for Dichlorodifluoromethane; however, it has been identified as a "difficult" analyte. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

In reference to question F:

All samples were analyzed for a subset of MCP compounds per the Chain of Custody.

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: 05/28/08

ORGANICS

VOLATILES

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-01
 Client ID: MW-204D-20080519-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/24/08 01:33
 Analyst: BS

Date Collected: 05/19/08 14:20
 Date Received: 05/20/08
 Field Prep: Field Filtered

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	5.2		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
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:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-01
 Client ID: MW-204D-20080519-01
 Sample Location: WAYLAND, MA

Date Collected: 05/19/08 14:20
 Date Received: 05/20/08
 Field Prep: Field Filtered

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	96		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	104		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

SAMPLE RESULTS

Lab ID: L0807378-02
 Client ID: DUP-001-20080519-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/24/08 02:07
 Analyst: BS

Date Collected: 05/19/08 00:00
 Date Received: 05/20/08
 Field Prep: Field Filtered

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
1,1,1,2-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
1,1,1,2-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	5.2		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
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:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-02
 Client ID: DUP-001-20080519-01
 Sample Location: WAYLAND, MA

Date Collected: 05/19/08 00:00
 Date Received: 05/20/08
 Field Prep: Field Filtered

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	95		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	104		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-03
 Client ID: MW-204S-20080519-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/24/08 02:40
 Analyst: BS

Date Collected: 05/19/08 15:15
 Date Received: 05/20/08
 Field Prep: Field Filtered

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
1,1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	4.9		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
1,1,1,2,2-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
1,1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-03
 Client ID: MW-204S-20080519-01
 Sample Location: WAYLAND, MA

Date Collected: 05/19/08 15:15
 Date Received: 05/20/08
 Field Prep: Field Filtered

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	95		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	102		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-04
 Client ID: MW-204M-20080519-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/24/08 03:13
 Analyst: BS

Date Collected: 05/19/08 16:30
 Date Received: 05/20/08
 Field Prep: Field Filtered

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
1,1,1,2-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	16		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
1,1,1,2-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	2.9		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	73		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:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-04
 Client ID: MW-204M-20080519-01
 Sample Location: WAYLAND, MA

Date Collected: 05/19/08 16:30
 Date Received: 05/20/08
 Field Prep: Field Filtered

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	94		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	103		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

SAMPLE RESULTS

Lab ID: L0807378-05
 Client ID: MW-113-20080519-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/24/08 03:46
 Analyst: BS

Date Collected: 05/19/08 12:06
 Date Received: 05/20/08
 Field Prep: None

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
1,1,1,2-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	2.2		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
1,1,1,2-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	0.64		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:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-05
 Client ID: MW-113-20080519-01
 Sample Location: WAYLAND, MA

Date Collected: 05/19/08 12:06
 Date Received: 05/20/08
 Field Prep: None

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	96		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

SAMPLE RESULTS

Lab ID: L0807378-06
 Client ID: MW-115-20080519-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/24/08 04:19
 Analyst: BS

Date Collected: 05/19/08 14:20
 Date Received: 05/20/08
 Field Prep: None

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	0.90		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
1,1,1,2-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	39		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
1,1,1,2-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	0.56		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	57		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:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-06
 Client ID: MW-115-20080519-01
 Sample Location: WAYLAND, MA

Date Collected: 05/19/08 14:20
 Date Received: 05/20/08
 Field Prep: None

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	95		70-130
Toluene-d8	93		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	106		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

SAMPLE RESULTS

Lab ID: L0807378-07
 Client ID: MW-109-20080519-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/24/08 04:52
 Analyst: BS

Date Collected: 05/19/08 16:08
 Date Received: 05/20/08
 Field Prep: None

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
1,1,1,2-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
1,1,1,2,2-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	30		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	6.2		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-WAYLAND**Lab Number:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-07
 Client ID: MW-109-20080519-01
 Sample Location: WAYLAND, MA

Date Collected: 05/19/08 16:08
 Date Received: 05/20/08
 Field Prep: None

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	95		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

SAMPLE RESULTS

Lab ID: L0807378-08
 Client ID: MW-209-20080519-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/24/08 04:35
 Analyst: BS

Date Collected: 05/19/08 16:20
 Date Received: 05/20/08
 Field Prep: Field Filtered

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
1,1,1,2-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
1,1,1,2,2-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	0.84		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:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-08
 Client ID: MW-209-20080519-01
 Sample Location: WAYLAND, MA

Date Collected: 05/19/08 16:20
 Date Received: 05/20/08
 Field Prep: Field Filtered

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	91		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	104		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

SAMPLE RESULTS

Lab ID: L0807378-09
 Client ID: MW-210-20080519-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/27/08 15:07
 Analyst: GK

Date Collected: 05/19/08 15:27
 Date Received: 05/20/08
 Field Prep: Field Filtered

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	1.4		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	13		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	0.91		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:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-09
 Client ID: MW-210-20080519-01
 Sample Location: WAYLAND, MA

Date Collected: 05/19/08 15:27
 Date Received: 05/20/08
 Field Prep: Field Filtered

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	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	104		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

SAMPLE RESULTS

Lab ID: L0807378-10
 Client ID: MW-211-20080519-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/27/08 15:41
 Analyst: GK

Date Collected: 05/19/08 14:32
 Date Received: 05/20/08
 Field Prep: Field Filtered

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
1,1,1,2-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
1,1,1,2-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:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-10
 Client ID: MW-211-20080519-01
 Sample Location: WAYLAND, MA

Date Collected: 05/19/08 14:32
 Date Received: 05/20/08
 Field Prep: Field Filtered

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	100		70-130
Toluene-d8	89		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	85		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

SAMPLE RESULTS

Lab ID: L0807378-11
 Client ID: MW-212-20080519-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/27/08 16:14
 Analyst: GK

Date Collected: 05/19/08 13:05
 Date Received: 05/20/08
 Field Prep: Field Filtered

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	0.97		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:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-11
 Client ID: MW-212-20080519-01
 Sample Location: WAYLAND, MA

Date Collected: 05/19/08 13:05
 Date Received: 05/20/08
 Field Prep: Field Filtered

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	103		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	101		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

SAMPLE RESULTS

Lab ID: L0807378-12
 Client ID: MW-212M-20080519-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/27/08 16:48
 Analyst: GK

Date Collected: 05/19/08 12:15
 Date Received: 05/20/08
 Field Prep: Field Filtered

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
1,1,1-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	0.51		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
1,1,1,2-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	5.2		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:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-12
 Client ID: MW-212M-20080519-01
 Sample Location: WAYLAND, MA

Date Collected: 05/19/08 12:15
 Date Received: 05/20/08
 Field Prep: Field Filtered

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	95		70-130
Dibromofluoromethane	93		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

SAMPLE RESULTS

Lab ID: L0807378-13
 Client ID: DUP-002-20080519-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/27/08 17:21
 Analyst: GK

Date Collected: 05/19/08 00:00
 Date Received: 05/20/08
 Field Prep: Field Filtered

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
1,1,1,2-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
1,1,1,2,2-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:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-13
 Client ID: DUP-002-20080519-01
 Sample Location: WAYLAND, MA

Date Collected: 05/19/08 00:00
 Date Received: 05/20/08
 Field Prep: Field Filtered

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	98		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	102		70-130

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807378
Report Date: 05/28/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/23/08 18:21
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-07 Batch: WG323280-3				

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: 0079387

Lab Number: L0807378
Report Date: 05/28/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/23/08 18:21
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-07 Batch: WG323280-3				

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-WAYLAND
Project Number: 0079387

Lab Number: L0807378
Report Date: 05/28/08

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 05/23/08 18:21
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-07 Batch: WG323280-3				

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	94		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	104		70-130

Project Name: RAYTHEON-WAYLAND
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Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/27/08 12:18
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 09-13 Batch: WG323286-3				

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

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Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/27/08 12:18
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 09-13 Batch: WG323286-3				

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-WAYLAND

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Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 05/27/08 12:18
 Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 09-13 Batch: WG323286-3				

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	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	98		70-130

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807378
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**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 05/23/08 18:38
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 08 Batch: WG323292-3				
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
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Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/23/08 18:38
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 08 Batch: WG323292-3				
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
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Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/23/08 18:38
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 08 Batch: WG323292-3				
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	93		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-07 Batch: WG323280-1 WG323280-2					
Methylene chloride	88	94	70-130	7	25
1,1-Dichloroethane	90	95	70-130	5	25
Chloroform	98	102	70-130	4	25
Carbon tetrachloride	78	85	70-130	9	25
1,2-Dichloropropane	86	92	70-130	7	25
Dibromochloromethane	71	72	70-130	1	25
1,1,2-Trichloroethane	81	86	70-130	6	25
Tetrachloroethene	94	98	70-130	4	25
Chlorobenzene	91	95	70-130	4	25
Trichlorofluoromethane	103	109	70-130	6	25
1,2-Dichloroethane	86	91	70-130	6	25
1,1,1-Trichloroethane	87	93	70-130	7	25
Bromodichloromethane	86	91	70-130	6	25
trans-1,3-Dichloropropene	71	72	70-130	1	25
cis-1,3-Dichloropropene	78	84	70-130	7	25
1,1-Dichloropropene	87	92	70-130	6	25
Bromoform	63	70	70-130	11	50
1,1,2,2-Tetrachloroethane	78	83	70-130	6	25
Benzene	94	98	70-130	4	25
Toluene	91	95	70-130	4	25
Ethylbenzene	92	96	70-130	4	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-07 Batch: WG323280-1 WG323280-2					
Chloromethane	95	98	70-130	3	50
Bromomethane	98	106	70-130	8	50
Vinyl chloride	95	100	70-130	5	25
Chloroethane	108	121	70-130	11	25
1,1-Dichloroethene	86	93	70-130	8	25
trans-1,2-Dichloroethene	120	126	70-130	5	25
Trichloroethene	90	93	70-130	3	25
1,2-Dichlorobenzene	90	95	70-130	5	25
1,3-Dichlorobenzene	92	97	70-130	5	25
1,4-Dichlorobenzene	92	98	70-130	6	25
Methyl tert butyl ether	88	94	70-130	7	25
p/m-Xylene	94	97	70-130	3	25
o-Xylene	98	101	70-130	3	25
cis-1,2-Dichloroethene	96	100	70-130	4	25
Dibromomethane	88	93	70-130	6	25
1,2,3-Trichloropropane	84	88	70-130	5	25
Styrene	96	99	70-130	3	25
Dichlorodifluoromethane	116	118	70-130	2	50
Acetone	72	69	70-130	4	50
Carbon disulfide	84	90	70-130	7	25
2-Butanone	71	74	70-130	4	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-07 Batch: WG323280-1 WG323280-2					
4-Methyl-2-pentanone	69	72	70-130	4	50
2-Hexanone	61	62	70-130	2	50
Bromochloromethane	95	99	70-130	4	25
Tetrahydrofuran	76	72	70-130	5	25
2,2-Dichloropropane	86	92	70-130	7	50
1,2-Dibromoethane	82	84	70-130	2	25
1,3-Dichloropropane	81	82	70-130	1	25
1,1,1,2-Tetrachloroethane	79	83	70-130	5	25
Bromobenzene	93	98	70-130	5	25
n-Butylbenzene	88	95	70-130	8	25
sec-Butylbenzene	88	94	70-130	7	25
tert-Butylbenzene	87	94	70-130	8	25
o-Chlorotoluene	91	97	70-130	6	25
p-Chlorotoluene	88	95	70-130	8	25
1,2-Dibromo-3-chloropropane	58	62	70-130	7	50
Hexachlorobutadiene	85	97	70-130	13	25
Isopropylbenzene	107	113	70-130	5	25
p-Isopropyltoluene	90	97	70-130	7	25
Naphthalene	74	81	70-130	9	25
n-Propylbenzene	91	97	70-130	6	25
1,2,3-Trichlorobenzene	78	88	70-130	12	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-07 Batch: WG323280-1 WG323280-2					
1,2,4-Trichlorobenzene	83	93	70-130	11	25
1,3,5-Trimethylbenzene	88	94	70-130	7	25
1,2,4-Trimethylbenzene	87	92	70-130	6	25
Ethyl ether	80	86	70-130	7	25
Isopropyl Ether	83	88	70-130	6	25
Ethyl-Tert-Butyl-Ether	80	86	70-130	7	25
Tertiary-Amyl Methyl Ether	74	78	70-130	5	25
1,4-Dioxane	73	81	70-130	10	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		95		70-130
Toluene-d8	96		96		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	105		104		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

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Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 09-13 Batch: WG323286-1 WG323286-2					
Methylene chloride	90	89	70-130	1	25
1,1-Dichloroethane	96	91	70-130	5	25
Chloroform	96	93	70-130	3	25
Carbon tetrachloride	86	82	70-130	5	25
1,2-Dichloropropane	96	93	70-130	3	25
Dibromochloromethane	93	96	70-130	3	25
1,1,2-Trichloroethane	99	98	70-130	1	25
Tetrachloroethene	96	90	70-130	6	25
Chlorobenzene	99	95	70-130	4	25
Trichlorofluoromethane	100	95	70-130	5	25
1,2-Dichloroethane	96	97	70-130	1	25
1,1,1-Trichloroethane	90	86	70-130	5	25
Bromodichloromethane	96	93	70-130	3	25
trans-1,3-Dichloropropene	92	90	70-130	2	25
cis-1,3-Dichloropropene	94	91	70-130	3	25
1,1-Dichloropropene	92	87	70-130	6	25
Bromoform	90	95	70-130	5	50
1,1,2,2-Tetrachloroethane	97	103	70-130	6	25
Benzene	99	96	70-130	3	25
Toluene	101	96	70-130	5	25
Ethylbenzene	99	94	70-130	5	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Project Number: 0079387

Lab Number: L0807378

Report Date: 05/28/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 09-13 Batch: WG323286-1 WG323286-2					
Chloromethane	81	77	70-130	5	50
Bromomethane	95	92	70-130	3	50
Vinyl chloride	87	81	70-130	7	25
Chloroethane	94	86	70-130	9	25
1,1-Dichloroethene	89	85	70-130	5	25
trans-1,2-Dichloroethene	94	91	70-130	3	25
Trichloroethene	96	90	70-130	6	25
1,2-Dichlorobenzene	99	98	70-130	1	25
1,3-Dichlorobenzene	98	97	70-130	1	25
1,4-Dichlorobenzene	98	98	70-130	0	25
Methyl tert butyl ether	100	105	70-130	5	25
p/m-Xylene	102	97	70-130	5	25
o-Xylene	100	96	70-130	4	25
cis-1,2-Dichloroethene	96	93	70-130	3	25
Dibromomethane	94	95	70-130	1	25
1,2,3-Trichloropropane	106	109	70-130	3	25
Styrene	100	96	70-130	4	25
Dichlorodifluoromethane	65	61	70-130	6	50
Acetone	84	87	70-130	4	50
Carbon disulfide	91	85	70-130	7	25
2-Butanone	100	106	70-130	6	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

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Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 09-13 Batch: WG323286-1 WG323286-2					
4-Methyl-2-pentanone	104	115	70-130	10	50
2-Hexanone	100	109	70-130	9	50
Bromochloromethane	94	97	70-130	3	25
Tetrahydrofuran	98	110	70-130	12	25
2,2-Dichloropropane	96	93	70-130	3	50
1,2-Dibromoethane	94	98	70-130	4	25
1,3-Dichloropropane	94	98	70-130	4	25
1,1,1,2-Tetrachloroethane	94	92	70-130	2	25
Bromobenzene	98	95	70-130	3	25
n-Butylbenzene	100	99	70-130	1	25
sec-Butylbenzene	101	97	70-130	4	25
tert-Butylbenzene	100	96	70-130	4	25
o-Chlorotoluene	98	94	70-130	4	25
p-Chlorotoluene	100	97	70-130	3	25
1,2-Dibromo-3-chloropropane	96	97	70-130	1	50
Hexachlorobutadiene	98	102	70-130	4	25
Isopropylbenzene	121	113	70-130	7	25
p-Isopropyltoluene	104	100	70-130	4	25
Naphthalene	92	98	70-130	6	25
n-Propylbenzene	100	95	70-130	5	25
1,2,3-Trichlorobenzene	102	106	70-130	4	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 09-13 Batch: WG323286-1 WG323286-2					
1,2,4-Trichlorobenzene	99	103	70-130	4	25
1,3,5-Trimethylbenzene	99	97	70-130	2	25
1,2,4-Trimethylbenzene	99	95	70-130	4	25
Ethyl ether	92	98	70-130	6	25
Isopropyl Ether	96	94	70-130	2	25
Ethyl-Tert-Butyl-Ether	100	100	70-130	0	25
Tertiary-Amyl Methyl Ether	97	100	70-130	3	25
1,4-Dioxane	105	122	70-130	15	50

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

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 08 Batch: WG323292-1 WG323292-2					
Methylene chloride	86	88	70-130	2	25
1,1-Dichloroethane	85	89	70-130	5	25
Chloroform	94	98	70-130	4	25
Carbon tetrachloride	75	80	70-130	6	25
1,2-Dichloropropane	83	84	70-130	1	25
Dibromochloromethane	71	73	70-130	3	25
1,1,2-Trichloroethane	80	80	70-130	0	25
Tetrachloroethene	89	93	70-130	4	25
Chlorobenzene	87	91	70-130	4	25
Trichlorofluoromethane	94	104	70-130	10	25
1,2-Dichloroethane	84	86	70-130	2	25
1,1,1-Trichloroethane	83	90	70-130	8	25
Bromodichloromethane	84	86	70-130	2	25
trans-1,3-Dichloropropene	72	70	70-130	3	25
cis-1,3-Dichloropropene	76	77	70-130	1	25
1,1-Dichloropropene	83	87	70-130	5	25
Bromoform	70	70	70-130	0	50
1,1,2,2-Tetrachloroethane	80	78	70-130	3	25
Benzene	89	92	70-130	3	25
Toluene	86	90	70-130	5	25
Ethylbenzene	85	89	70-130	5	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 08 Batch: WG323292-1 WG323292-2					
Chloromethane	90	95	70-130	5	50
Bromomethane	114	104	70-130	9	50
Vinyl chloride	86	94	70-130	9	25
Chloroethane	86	92	70-130	7	25
1,1-Dichloroethene	81	88	70-130	8	25
trans-1,2-Dichloroethene	111	122	70-130	9	25
Trichloroethene	88	92	70-130	4	25
1,2-Dichlorobenzene	89	92	70-130	3	25
1,3-Dichlorobenzene	94	96	70-130	2	25
1,4-Dichlorobenzene	89	95	70-130	7	25
Methyl tert butyl ether	78	75	70-130	4	25
p/m-Xylene	87	89	70-130	2	25
o-Xylene	90	95	70-130	5	25
cis-1,2-Dichloroethene	88	89	70-130	1	25
Dibromomethane	80	82	70-130	2	25
1,2,3-Trichloropropane	85	86	70-130	1	25
Styrene	91	94	70-130	3	25
Dichlorodifluoromethane	100	108	70-130	8	50
Acetone	68	70	70-130	3	50
Carbon disulfide	77	85	70-130	10	25
2-Butanone	71	68	70-130	4	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 08 Batch: WG323292-1 WG323292-2					
4-Methyl-2-pentanone	69	61	70-130	12	50
2-Hexanone	57	56	70-130	2	50
Bromochloromethane	88	93	70-130	6	25
Tetrahydrofuran	72	71	70-130	1	25
2,2-Dichloropropane	80	85	70-130	6	50
1,2-Dibromoethane	80	79	70-130	1	25
1,3-Dichloropropane	77	77	70-130	0	25
1,1,1,2-Tetrachloroethane	77	80	70-130	4	25
Bromobenzene	95	97	70-130	2	25
n-Butylbenzene	73	77	70-130	5	25
sec-Butylbenzene	79	84	70-130	6	25
tert-Butylbenzene	81	85	70-130	5	25
o-Chlorotoluene	91	95	70-130	4	25
p-Chlorotoluene	88	93	70-130	6	25
1,2-Dibromo-3-chloropropane	56	54	70-130	4	50
Hexachlorobutadiene	80	91	70-130	13	25
Isopropylbenzene	98	102	70-130	4	25
p-Isopropyltoluene	78	82	70-130	5	25
Naphthalene	87	86	70-130	1	25
n-Propylbenzene	86	90	70-130	5	25
1,2,3-Trichlorobenzene	83	80	70-130	4	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 08 Batch: WG323292-1 WG323292-2					
1,2,4-Trichlorobenzene	73	75	70-130	3	25
1,3,5-Trimethylbenzene	81	86	70-130	6	25
1,2,4-Trimethylbenzene	77	81	70-130	5	25
Ethyl ether	78	80	70-130	3	25
Isopropyl Ether	80	80	70-130	0	25
Ethyl-Tert-Butyl-Ether	77	76	70-130	1	25
Tertiary-Amyl Methyl Ether	72	70	70-130	3	25
1,4-Dioxane	68	64	70-130	6	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		90		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	101		101		70-130
Dibromofluoromethane	103		104		70-130

METALS

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-01

Date Collected: 05/19/08 14:20

Client ID: MW-204D-20080519-01

Date Received: 05/20/08

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										
Sodium, Dissolved	120		mg/l	2.0	1	05/22/08 17:00	05/23/08 14:52	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-02

Date Collected: 05/19/08 00:00

Client ID: DUP-001-20080519-01

Date Received: 05/20/08

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										
Sodium, Dissolved	120		mg/l	2.0	1	05/22/08 17:00	05/23/08 14:55	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-03

Date Collected: 05/19/08 15:15

Client ID: MW-204S-20080519-01

Date Received: 05/20/08

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										
Sodium, Dissolved	19		mg/l	2.0	1	05/22/08 17:00	05/23/08 14:58	EPA 3005A	60,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-04

Date Collected: 05/19/08 16:30

Client ID: MW-204M-20080519-01

Date Received: 05/20/08

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										
Sodium, Dissolved	33		mg/l	2.0	1	05/22/08 17:00	05/23/08 15:15	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-08

Date Collected: 05/19/08 16:20

Client ID: MW-209-20080519-01

Date Received: 05/20/08

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										
Sodium, Dissolved	27		mg/l	2.0	1	05/22/08 17:00	05/23/08 15:18	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-09

Date Collected: 05/19/08 15:27

Client ID: MW-210-20080519-01

Date Received: 05/20/08

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										
Sodium, Dissolved	150		mg/l	2.0	1	05/22/08 17:00	05/23/08 15:22	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-10

Date Collected: 05/19/08 14:32

Client ID: MW-211-20080519-01

Date Received: 05/20/08

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										
Sodium, Dissolved	23		mg/l	2.0	1	05/22/08 17:00	05/23/08 15:25	EPA 3005A	60,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-11

Date Collected: 05/19/08 13:05

Client ID: MW-212-20080519-01

Date Received: 05/20/08

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										
Sodium, Dissolved	27		mg/l	2.0	1	05/22/08 17:00	05/23/08 15:28	EPA 3005A	60,6010B	AI



Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-12

Date Collected: 05/19/08 12:15

Client ID: MW-212M-20080519-01

Date Received: 05/20/08

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										
Sodium, Dissolved	120		mg/l	2.0	1	05/22/08 17:00	05/23/08 15:31	EPA 3005A	60,6010B	AI

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807378**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807378-13

Date Collected: 05/19/08 00:00

Client ID: DUP-002-20080519-01

Date Received: 05/20/08

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										
Sodium, Dissolved	21		mg/l	2.0	1	05/22/08 17:00	05/23/08 15:35	EPA 3005A	60,6010B	AI



Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

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): 01-04,08-13 Batch: WG322965-1									
Sodium, Dissolved	ND		mg/l	2.0	1	05/22/08 17:00	05/23/08 14:28	60,6010B	AI

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals by MCP 6000/7000 series Associated sample(s): 01-04,08-13 Batch: WG322965-2 WG322965-3					
Sodium, Dissolved	95	92	80-120	3	20

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807378

Project Number: 0079387

Report Date: 05/28/08

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
L0807378-01A	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-01B	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-01C	Plastic 250ml HNO3 preserved	A	<2	3.5C	Y	Absent	MCP-NA-6010S
L0807378-02A	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-02B	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-02C	Plastic 250ml HNO3 preserved	A	<2	3.5C	Y	Absent	MCP-NA-6010S
L0807378-03A	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-03B	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-03C	Plastic 250ml HNO3 preserved	A	<2	3.5C	Y	Absent	MCP-NA-6010S
L0807378-04A	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-04B	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-04C	Plastic 250ml HNO3 preserved	A	<2	3.5C	Y	Absent	MCP-NA-6010S
L0807378-05A	Vial Na2S2O3 preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-05B	Vial Na2S2O3 preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-06A	Vial Na2S2O3 preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-06B	Vial Na2S2O3 preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-07A	Vial Na2S2O3 preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-07B	Vial Na2S2O3 preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-08A	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-08B	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-08C	Plastic 250ml HNO3 preserved	A	<2	3.5C	Y	Absent	MCP-NA-6010S
L0807378-09A	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-09B	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-09C	Plastic 250ml HNO3 preserved	A	<2	3.5C	Y	Absent	MCP-NA-6010S
L0807378-10A	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-10B	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-10C	Plastic 250ml HNO3 preserved	A	<2	3.5C	Y	Absent	MCP-NA-6010S
L0807378-11A	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-11B	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-11C	Plastic 250ml HNO3 preserved	A	<2	3.5C	Y	Absent	MCP-NA-6010S

Project Name: RAYTHEON-WAYLAND**Project Number:** 0079387**Lab Number:** L0807378**Report Date:** 05/28/08**Container Information**

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0807378-12A	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-12B	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-12C	Plastic 250ml HNO3 preserved	A	<2	3.5C	Y	Absent	MCP-NA-6010S
L0807378-13A	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-13B	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807378-13C	Plastic 250ml HNO3 preserved	A	<2	3.5C	Y	Absent	MCP-NA-6010S

Container Comments

L0807378-07A

L0807378-08A

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807378
Report Date: 05/28/08

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.

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807378
Report Date: 05/28/08

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.



05280812:42



CHAIN OF CUSTODY

PAGE 1 OF 2

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

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

Project Information

Project Name: RAMTHEON WAYLAND
Project Location: WAYLAND, MA
Project #: 0079387
Project Manager: JASON FLATTERY
ALPHA Quote #:

Client Information

Client: ERM - BOSTON
Address: 399 BOYLSTON ST 6th FLOOR
BOSTON, MA 02116
Phone: 617-646-7800
Fax: 617-267-6447
Email: jason.flattery@erm.com
 These samples have been previously analyzed by Alpha

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)
Date Due: 5/28/08 Time:

Date Rec'd in Lab: 5/20/08

ALPHA Job #: 20807378

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed Program: MCP GW-1 Criteria:

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
B260 B221C by B260
DW Na
B221c by B260
14-Dioxane

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

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	TOTAL # BOTTLES	
		Date	Time				
7328 - 01	MW-204D-20080519-01	5/19/08	14:20	GWV	BM	2	1
- 02	DUP-001-20080519-01	5/19/08	24:00	GW	BM	2	1
- 03	MW-204S-20080519-01	5/19/08	15:15	GW	B	2	1
- 04	MW-204M-20080519-01	5/19/08	16:30	GW	B	2	1
- 05	MW-113-20080519-01	5/19/08	12:06	GW	JDF	2	2
- 06	MW-115-20080519-01	5/19/08	14:20	GW	JDF	2	2
- 07	MW-109-20080519-01	5/19/08	16:08	GW	JDF	2	
- 08	MW-209-20080519-01	5/19/08	16:20	GW	DM	2	1
- 09	MW-210-20080519-01	5/19/08	15:27	GW	DM	2	1
- 10	MW-211-20080519-01	5/19/08	14:32	GW	DM	2	1

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type: V P V A
Preservative: B C H H

Relinquished By: [Signature] Date/Time: 5/20/08 13:00

Received By: [Signature] Date/Time: 5/20/08 13:00

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.

A

05280812:42



CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 5/20/08 ALPHA Job #: L0807378

Report Information - Data Deliverables

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

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

Project Information

Project Name: RAMTHF001-WAYLAND

Project Location: WAYLAND, MA

Project #: 0079387

Project Manager: JASON FLATTERY

ALPHA Quote #:

Client Information

Client: ERM- BOSTON

Address: 399 BOWLSTON ST. 6th FLOOR
BOSTON, MA 02116

Phone: 617-646-7800

Fax: 617-267-6447

Email: jason.flattery@erm.com

These samples have been previously analyzed by Alpha

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: 5/28/08 Time:

FAX EMAIL

ADEX Add'l Deliverables

Same as Client info PO #:

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 Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS
*QC'd by B26D
DWC No (F)
14-Duplicate*

SAMPLE HANDLING

Filtration
 Done
 Not needed
 Lab to do
 Preservation
 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	
		Date	Time						
7378 -11	MW-212-20080519-01	5/19/08	13:05	GW	DM	2	1		3
-12	MW-212M-20080519-01	5/19/08	12:15	GW	DM	2	1		3
-13	DUP-002-20080519-01	5/19/08	0:00	GW	DM	2	1		3
MW-201M-20080519-01									
	MW-46M-20080519-01	5/19/08	12:40	GW	JDF				2

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Container Type V P A

Preservative B C H

Relinquished By: [Signature] Date/Time: 5/20/08 13:00

Received By: [Signature] Date/Time: 5/20/08 13:00

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:	L0807576
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Project Name:	RAYTHEON-WAYLAND
Project Number:	0079387
Report Date:	05/30/08

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), 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: L0807576
Report Date: 05/30/08

Alpha Sample ID	Client ID	Sample Location
L0807576-01	MW-206D-20080521-01	WAYLAND, MA
L0807576-02	MW-206M-20080521-01	WAYLAND, MA
L0807576-03	HA-104-20080521-01	WAYLAND, MA
L0807576-04	HA-102-20080521-01	WAYLAND, MA

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807576

Project Number: 0079387

Report Date: 05/30/08

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?	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: 0079387

Lab Number: L0807576
Report Date: 05/30/08

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

MCP Related Narratives

Report Submission

The results of the 1,4-Dioxane analysis will be issued under separate cover.

Volatile Organics

L0807576-01 to -04 were processed against a calibration curve that utilized a quadratic fit for Chloroethane.

In reference to question E:

The WG323677-1/2 LCS/LCSD recoveries associated with L0807576-01 through -04 are outside the acceptance criteria for several compounds; however, they have been identified as "difficult" analytes. The results of the associated samples are reported; however, all results are considered to have a potentially high bias for Dichlorodifluoromethane and a potentially low bias for Bromoform.

The WG323677-1/2 LCS/LCSD recoveries associated with L0807576-01 through -04 were above the

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807576
Report Date: 05/30/08

Case Narrative (continued)

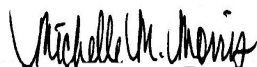
acceptance criteria for Methylene chloride and trans-1,2-Dichloroethene; however, the associated samples were non-detect for these target compounds. The results of the original analysis are reported.

In reference to question F:

All samples were analyzed for a subset of MCP compounds 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: 05/30/08

ORGANICS

VOLATILES

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807576

Project Number: 0079387

Report Date: 05/30/08

SAMPLE RESULTS

Lab ID: L0807576-01
 Client ID: MW-206D-20080521-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/29/08 13:43
 Analyst: BS

Date Collected: 05/21/08 09:55
 Date Received: 05/22/08
 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
1,1,1,2-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
1,1,1,2,2-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	33		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	2.7		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
1,1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807576**Project Number:** 0079387**Report Date:** 05/30/08**SAMPLE RESULTS**

Lab ID: L0807576-01
 Client ID: MW-206D-20080521-01
 Sample Location: WAYLAND, MA

Date Collected: 05/21/08 09:55
 Date Received: 05/22/08
 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	93		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	111		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807576

Project Number: 0079387

Report Date: 05/30/08

SAMPLE RESULTS

Lab ID: L0807576-02
 Client ID: MW-206M-20080521-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/29/08 14:16
 Analyst: BS

Date Collected: 05/21/08 09:55
 Date Received: 05/22/08
 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	2.5		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
1,1,1,2-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
1,1,1,2,2-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	2.7		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	23		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	0.87		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:** L0807576**Project Number:** 0079387**Report Date:** 05/30/08**SAMPLE RESULTS**

Lab ID: L0807576-02
 Client ID: MW-206M-20080521-01
 Sample Location: WAYLAND, MA

Date Collected: 05/21/08 09:55
 Date Received: 05/22/08
 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	104		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	109		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807576

Project Number: 0079387

Report Date: 05/30/08

SAMPLE RESULTS

Lab ID: L0807576-03
 Client ID: HA-104-20080521-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/29/08 14:49
 Analyst: BS

Date Collected: 05/21/08 11:25
 Date Received: 05/22/08
 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
1,1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	8.4		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
1,1,1,2,2-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:** L0807576**Project Number:** 0079387**Report Date:** 05/30/08**SAMPLE RESULTS**

Lab ID: L0807576-03
 Client ID: HA-104-20080521-01
 Sample Location: WAYLAND, MA

Date Collected: 05/21/08 11:25
 Date Received: 05/22/08
 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	104		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	111		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807576

Project Number: 0079387

Report Date: 05/30/08

SAMPLE RESULTS

Lab ID: L0807576-04
 Client ID: HA-102-20080521-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/29/08 15:23
 Analyst: BS

Date Collected: 05/21/08 09:40
 Date Received: 05/22/08
 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
1,1,1,2-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
1,1,1,2,2-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	2.3		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	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:** L0807576**Project Number:** 0079387**Report Date:** 05/30/08**SAMPLE RESULTS**

Lab ID: L0807576-04
 Client ID: HA-102-20080521-01
 Sample Location: WAYLAND, MA

Date Collected: 05/21/08 09:40
 Date Received: 05/22/08
 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	92		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	112		70-130

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807576
Report Date: 05/30/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/29/08 10:57
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-04 Batch: WG323677-3				

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: 0079387

Lab Number: L0807576
Report Date: 05/30/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/29/08 10:57
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-04 Batch: WG323677-3				

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-WAYLAND
Project Number: 0079387

Lab Number: L0807576
Report Date: 05/30/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/29/08 10:57
Analyst: BS

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-04 Batch: WG323677-3				

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	104		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	112		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807576

Project Number: 0079387

Report Date: 05/30/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-04 Batch: WG323677-1 WG323677-2					
Methylene chloride	135	137	70-130	1	25
1,1-Dichloroethane	103	107	70-130	4	25
Chloroform	106	110	70-130	4	25
Carbon tetrachloride	81	77	70-130	5	25
1,2-Dichloropropane	98	100	70-130	2	25
Dibromochloromethane	76	70	70-130	8	25
1,1,2-Trichloroethane	89	90	70-130	1	25
Tetrachloroethene	102	104	70-130	2	25
Chlorobenzene	95	97	70-130	2	25
Trichlorofluoromethane	132	136	70-130	3	25
1,2-Dichloroethane	109	109	70-130	0	25
1,1,1-Trichloroethane	102	101	70-130	1	25
Bromodichloromethane	97	95	70-130	2	25
trans-1,3-Dichloropropene	71	70	70-130	1	25
cis-1,3-Dichloropropene	86	83	70-130	4	25
1,1-Dichloropropene	106	108	70-130	2	25
Bromoform	64	56	70-130	13	50
1,1,2,2-Tetrachloroethane	76	75	70-130	1	25
Benzene	104	106	70-130	2	25
Toluene	95	98	70-130	3	25
Ethylbenzene	97	99	70-130	2	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807576

Project Number: 0079387

Report Date: 05/30/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-04 Batch: WG323677-1 WG323677-2					
Chloromethane	113	114	70-130	1	50
Bromomethane	101	104	70-130	3	50
Vinyl chloride	116	121	70-130	4	25
Chloroethane	113	116	70-130	3	25
1,1-Dichloroethene	102	103	70-130	1	25
trans-1,2-Dichloroethene	148	152	70-130	3	25
Trichloroethene	112	112	70-130	0	25
1,2-Dichlorobenzene	96	94	70-130	2	25
1,3-Dichlorobenzene	100	98	70-130	2	25
1,4-Dichlorobenzene	99	99	70-130	0	25
Methyl tert butyl ether	83	85	70-130	2	25
p/m-Xylene	97	100	70-130	3	25
o-Xylene	101	104	70-130	3	25
cis-1,2-Dichloroethene	105	107	70-130	2	25
Dibromomethane	101	100	70-130	1	25
1,2,3-Trichloropropane	88	85	70-130	3	25
Styrene	101	106	70-130	5	25
Dichlorodifluoromethane	166	174	70-130	5	50
Acetone	107	126	70-130	16	50
Carbon disulfide	78	99	70-130	24	25
2-Butanone	84	98	70-130	15	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807576

Project Number: 0079387

Report Date: 05/30/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-04 Batch: WG323677-1 WG323677-2					
4-Methyl-2-pentanone	71	82	70-130	14	50
2-Hexanone	64	78	70-130	20	50
Bromochloromethane	104	107	70-130	3	25
Tetrahydrofuran	86	90	70-130	5	25
2,2-Dichloropropane	84	84	70-130	0	50
1,2-Dibromoethane	89	88	70-130	1	25
1,3-Dichloropropane	91	90	70-130	1	25
1,1,1,2-Tetrachloroethane	79	75	70-130	5	25
Bromobenzene	97	96	70-130	1	25
n-Butylbenzene	114	107	70-130	6	25
sec-Butylbenzene	94	92	70-130	2	25
tert-Butylbenzene	91	90	70-130	1	25
o-Chlorotoluene	97	84	70-130	14	25
p-Chlorotoluene	97	96	70-130	1	25
1,2-Dibromo-3-chloropropane	62	51	70-130	19	50
Hexachlorobutadiene	102	99	70-130	3	25
Isopropylbenzene	111	112	70-130	1	25
p-Isopropyltoluene	102	99	70-130	3	25
Naphthalene	129	119	70-130	8	25
n-Propylbenzene	96	94	70-130	2	25
1,2,3-Trichlorobenzene	129	123	70-130	5	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807576

Project Number: 0079387

Report Date: 05/30/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-04 Batch: WG323677-1 WG323677-2					
1,2,4-Trichlorobenzene	126	118	70-130	7	25
1,3,5-Trimethylbenzene	98	98	70-130	0	25
1,2,4-Trimethylbenzene	106	106	70-130	0	25
Ethyl ether	84	87	70-130	4	25
Isopropyl Ether	88	93	70-130	6	25
Ethyl-Tert-Butyl-Ether	81	83	70-130	2	25
Tertiary-Amyl Methyl Ether	71	73	70-130	3	25
1,4-Dioxane	78	70	70-130	11	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		102		70-130
Toluene-d8	95		95		70-130
4-Bromofluorobenzene	95		91		70-130
Dibromofluoromethane	111		110		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807576**Project Number:** 0079387**Report Date:** 05/30/08**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
L0807576-01A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807576-01B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807576-02A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807576-02B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807576-03A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807576-03B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807576-04A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807576-04B	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04

Container Comments

L0807576-01A	IR Gun
L0807576-01B	IR Gun
L0807576-02A	IR Gun
L0807576-02B	IR Gun
L0807576-03A	IR Gun
L0807576-03B	IR Gun
L0807576-04A	IR Gun
L0807576-04B	IR Gun

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807576
Report Date: 05/30/08

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: L0807576
Report Date: 05/30/08

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.



05300812:48



CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 5/22

ALPHA Job #: L0807576

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

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



Project Information

Project Name: RANTHEON WAYLAND

Project Location: WAYLAND, MA

Project #: 0079387

Project Manager: JASON FLATTERY

ALPHA Quote #:

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #:

Client Information

Client: ERM - BOSTON

Address: 399 COMLTON ST. 6th Floor

BOSTON, MA 02116

Phone: 617-646-7800

Fax: 617-267-6447

Email: jason.flattery@erm.com

These samples have been previously analyzed by Alpha

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: 5/30/08 Time:

Regulatory Requirements/Report Limits

State / Fed Program Criteria

MCP/GW-2

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
8021C by 8260
1.4-Dioxane

SAMPLE HANDLING

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

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials		
		Date	Time				
07576 .1	MW-206D-20080521-01	5/21/08	09:55	GW	DM	2	
2	MW-206M-20080521-01	5/21/08	09:55	GW	DM	2	
3	HA-104-20080521-01	5/21/08	11:25	GW	JDF	2	2
4	HA-102-20080521-01	5/21/08	09:40	GW	JDF	2	2

PLEASE ANSWER QUESTIONS ABOVE!

Container Type V A
Preservative B A

IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By: [Signature] Date/Time: 5/22/08 10:00 AM

Received By: [Signature] Date/Time: 5/22/08 11:30 AM

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:	L0807484
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Project Name:	RAYTHEON-WAYLAND
Project Number:	0079387
Report Date:	05/27/08

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), 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: L0807484
Report Date: 05/27/08

Alpha Sample ID	Client ID	Sample Location
L0807484-01	MW-205D-20080520-01	WAYLAND, MA
L0807484-02	MW-205M-20080520-01	WAYLAND, MA
L0807484-03	MW-208D-20080520-01	WAYLAND, MA
L0807484-04	MW-45B-20080520-01	WAYLAND, MA
L0807484-05	MW-45M-20080520-01	WAYLAND, MA
L0807484-06	MW-45D-20080520-01	WAYLAND, MA
L0807484-07	MW-216D-20080520-01	WAYLAND, MA

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807484

Project Number: 0079387

Report Date: 05/27/08

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: L0807484
Report Date: 05/27/08

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

MCP Related Narratives

Report Submission

This report contains the results for the Volatile Organics by method 8260 analysis. The results for all other analyses will be issued under separate cover.

Volatile Organics

L0807484-02 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

In reference to question F:

All samples were analyzed for a subset of MCP compounds 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: 05/27/08

ORGANICS

VOLATILES

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807484

Project Number: 0079387

Report Date: 05/27/08

SAMPLE RESULTS

Lab ID: L0807484-01
 Client ID: MW-205D-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/23/08 18:14
 Analyst: GK

Date Collected: 05/20/08 11:20
 Date Received: 05/21/08
 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
1,1,1,2-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
1,1,1,2,2-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	21		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	4.4		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:** L0807484**Project Number:** 0079387**Report Date:** 05/27/08**SAMPLE RESULTS**

Lab ID: L0807484-01
 Client ID: MW-205D-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 11:20
 Date Received: 05/21/08
 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	96		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	94		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807484

Project Number: 0079387

Report Date: 05/27/08

SAMPLE RESULTS

Lab ID: L0807484-02
 Client ID: MW-205M-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/23/08 18:47
 Analyst: GK

Date Collected: 05/20/08 10:10
 Date Received: 05/21/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	12	2.5
1,1-Dichloroethane	ND		ug/l	1.9	2.5
Chloroform	ND		ug/l	1.9	2.5
Carbon tetrachloride	ND		ug/l	1.2	2.5
1,2-Dichloropropane	ND		ug/l	4.4	2.5
Dibromochloromethane	ND		ug/l	1.2	2.5
1,1,2-Trichloroethane	ND		ug/l	1.9	2.5
Tetrachloroethene	ND		ug/l	1.2	2.5
Chlorobenzene	ND		ug/l	1.2	2.5
1,2-Dichloroethane	ND		ug/l	1.2	2.5
1,1,1-Trichloroethane	18		ug/l	1.2	2.5
Bromodichloromethane	ND		ug/l	1.2	2.5
trans-1,3-Dichloropropene	ND		ug/l	1.2	2.5
cis-1,3-Dichloropropene	ND		ug/l	1.2	2.5
Bromoform	ND		ug/l	5.0	2.5
1,1,2,2-Tetrachloroethane	ND		ug/l	1.2	2.5
Chloromethane	ND		ug/l	6.2	2.5
Vinyl chloride	ND		ug/l	2.5	2.5
Chloroethane	ND		ug/l	2.5	2.5
1,1-Dichloroethene	1.6		ug/l	1.2	2.5
trans-1,2-Dichloroethene	ND		ug/l	1.9	2.5
Trichloroethene	82		ug/l	1.2	2.5
1,2-Dichlorobenzene	ND		ug/l	6.2	2.5
1,3-Dichlorobenzene	ND		ug/l	6.2	2.5
1,4-Dichlorobenzene	ND		ug/l	6.2	2.5
cis-1,2-Dichloroethene	ND		ug/l	1.2	2.5
Dichlorodifluoromethane	ND		ug/l	12	2.5
1,2-Dibromoethane	ND		ug/l	5.0	2.5
1,3-Dichloropropane	ND		ug/l	6.2	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	1.2	2.5

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807484**Project Number:** 0079387**Report Date:** 05/27/08**SAMPLE RESULTS**

Lab ID: L0807484-02
 Client ID: MW-205M-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 10:10
 Date Received: 05/21/08
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
o-Chlorotoluene	ND		ug/l	6.2	2.5
p-Chlorotoluene	ND		ug/l	6.2	2.5
Hexachlorobutadiene	ND		ug/l	1.5	2.5
1,2,4-Trichlorobenzene	ND		ug/l	6.2	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	91		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	93		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807484

Project Number: 0079387

Report Date: 05/27/08

SAMPLE RESULTS

Lab ID: L0807484-03
 Client ID: MW-208D-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/23/08 19:21
 Analyst: GK

Date Collected: 05/20/08 15:10
 Date Received: 05/21/08
 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
1,1,1,2-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
1,1,1,2,2-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	3.2		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	0.67		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:** L0807484**Project Number:** 0079387**Report Date:** 05/27/08**SAMPLE RESULTS**

Lab ID: L0807484-03
 Client ID: MW-208D-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 15:10
 Date Received: 05/21/08
 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	109		70-130
Toluene-d8	77		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	103		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807484

Project Number: 0079387

Report Date: 05/27/08

SAMPLE RESULTS

Lab ID: L0807484-04
 Client ID: MW-45B-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/23/08 19:50
 Analyst: GK

Date Collected: 05/20/08 12:25
 Date Received: 05/21/08
 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
1,1,1,2-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
1,1,1,2,2-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	1.3		ug/l	0.75	1
Trichloroethene	68		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	7.4		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:** L0807484**Project Number:** 0079387**Report Date:** 05/27/08**SAMPLE RESULTS**

Lab ID: L0807484-04
 Client ID: MW-45B-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 12:25
 Date Received: 05/21/08
 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	90		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	104		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807484**Project Number:** 0079387**Report Date:** 05/27/08**SAMPLE RESULTS**

Lab ID: L0807484-05
 Client ID: MW-45M-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/23/08 20:20
 Analyst: GK

Date Collected: 05/20/08 11:20
 Date Received: 05/21/08
 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
1,1,1,2-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	10		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
1,1,1,2,2-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	3.0		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	46		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:** L0807484**Project Number:** 0079387**Report Date:** 05/27/08**SAMPLE RESULTS**

Lab ID: L0807484-05
 Client ID: MW-45M-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 11:20
 Date Received: 05/21/08
 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	71		70-130
4-Bromofluorobenzene	85		70-130
Dibromofluoromethane	98		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807484

Project Number: 0079387

Report Date: 05/27/08

SAMPLE RESULTS

Lab ID: L0807484-06
 Client ID: MW-45D-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/23/08 20:49
 Analyst: GK

Date Collected: 05/20/08 10:15
 Date Received: 05/21/08
 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
1,1,1,2-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
1,1,1,2,2-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	14		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	0.92		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
1,1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807484**Project Number:** 0079387**Report Date:** 05/27/08**SAMPLE RESULTS**

Lab ID: L0807484-06
 Client ID: MW-45D-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 10:15
 Date Received: 05/21/08
 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	99		70-130
Toluene-d8	92		70-130
4-Bromofluorobenzene	87		70-130
Dibromofluoromethane	97		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807484

Project Number: 0079387

Report Date: 05/27/08

SAMPLE RESULTS

Lab ID: L0807484-07
 Client ID: MW-216D-20080520-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/23/08 21:20
 Analyst: GK

Date Collected: 05/20/08 12:05
 Date Received: 05/21/08
 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
1,1,1,2-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
1,1,1,2,2-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	1.4		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	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:** L0807484**Project Number:** 0079387**Report Date:** 05/27/08**SAMPLE RESULTS**

Lab ID: L0807484-07
 Client ID: MW-216D-20080520-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 12:05
 Date Received: 05/21/08
 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	105		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	101		70-130

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807484
Report Date: 05/27/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/23/08 17:40
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-07 Batch: WG323196-3				

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

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807484
Report Date: 05/27/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 05/23/08 17:40
 Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-07 Batch: WG323196-3				

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	99		70-130
Toluene-d8	90		70-130
4-Bromofluorobenzene	88		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807484

Project Number: 0079387

Report Date: 05/27/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-07 Batch: WG323196-1 WG323196-2					
Methylene chloride	89	89	70-130	0	25
1,1-Dichloroethane	101	98	70-130	3	25
Chloroform	90	88	70-130	2	25
Carbon tetrachloride	124	122	70-130	2	25
1,2-Dichloropropane	100	98	70-130	2	25
Dibromochloromethane	111	105	70-130	6	25
1,1,2-Trichloroethane	90	87	70-130	3	25
Tetrachloroethene	103	104	70-130	1	25
Chlorobenzene	95	96	70-130	1	25
1,2-Dichloroethane	104	104	70-130	0	25
1,1,1-Trichloroethane	102	101	70-130	1	25
Bromodichloromethane	97	99	70-130	2	25
trans-1,3-Dichloropropene	108	106	70-130	2	25
cis-1,3-Dichloropropene	103	100	70-130	3	25
Bromoform	125	124	70-130	1	50
1,1,2,2-Tetrachloroethane	97	91	70-130	6	25
Chloromethane	120	120	70-130	0	50
Vinyl chloride	106	105	70-130	1	25
Chloroethane	84	85	70-130	1	25
1,1-Dichloroethene	80	76	70-130	5	25
trans-1,2-Dichloroethene	90	91	70-130	1	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807484

Project Number: 0079387

Report Date: 05/27/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-07 Batch: WG323196-1 WG323196-2					
Trichloroethene	85	85	70-130	0	25
1,2-Dichlorobenzene	105	98	70-130	7	25
1,3-Dichlorobenzene	101	95	70-130	6	25
1,4-Dichlorobenzene	103	98	70-130	5	25
cis-1,2-Dichloroethene	92	92	70-130	0	25
Dichlorodifluoromethane	99	95	70-130	4	50
1,2-Dibromoethane	104	101	70-130	3	25
1,3-Dichloropropane	89	88	70-130	1	25
1,1,1,2-Tetrachloroethane	114	112	70-130	2	25
o-Chlorotoluene	88	86	70-130	2	25
p-Chlorotoluene	90	88	70-130	2	25
Hexachlorobutadiene	112	102	70-130	9	25
1,2,4-Trichlorobenzene	111	104	70-130	7	25

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		97		70-130
Toluene-d8	91		91		70-130
4-Bromofluorobenzene	85		86		70-130
Dibromofluoromethane	96		97		70-130

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807484

Project Number: 0079387

Report Date: 05/27/08

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0807484-01A	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807484-01B	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807484-02A	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807484-02B	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807484-02C	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807484-02D	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807484-02E	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807484-02F	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807484-03A	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807484-03B	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807484-04A	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807484-04B	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807484-05A	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807484-05B	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807484-06A	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807484-06B	Vial HCl preserved	B	N/A	3.7C	Y	Absent	MCP-8260-04
L0807484-07A	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04
L0807484-07B	Vial HCl preserved	C	N/A	4.7C	Y	Absent	MCP-8260-04

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807484
Report Date: 05/27/08

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: L0807484
Report Date: 05/27/08

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:	L0807380
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Project Name:	RAYTHEON-WAYLAND
Project Number:	0079387
Report Date:	05/28/08

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), 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: L0807380
Report Date: 05/28/08

Alpha Sample ID	Client ID	Sample Location
L0807380-01	MW-207M-20080519-01	WAYLAND, MA
L0807380-02	MW-207S-20080519-01	WAYLAND, MA

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807380
Report Date: 05/28/08

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?	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: 0079387

Lab Number: L0807380
Report Date: 05/28/08

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

MCP Related Narratives

Report Submission

The analysis of 1,4-Dioxane by method 8270-SIM isotope dilution is being performed at our Mansfield facility, and the results will be issued under separate cover.

Volatile Organics

In reference to question E:

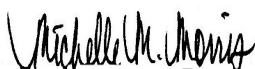
The WG323288-2 LCSD recovery, associated with L0807380-01 and -02, is below the acceptance criteria for Dichlorodifluoromethane; however, it has been identified as a "difficult" analyte. The results of the associated samples are reported; however, all results are considered to have a potentially low bias for this compound.

In reference to question F:

All samples were analyzed for a subset of MCP compounds 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: 05/28/08

ORGANICS

VOLATILES

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807380

Project Number: 0079387

Report Date: 05/28/08

SAMPLE RESULTS

Lab ID: L0807380-01
 Client ID: MW-207M-20080519-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/27/08 16:31
 Analyst: GK

Date Collected: 05/19/08 16:50
 Date Received: 05/20/08
 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	9.4		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	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:** L0807380**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807380-01
 Client ID: MW-207M-20080519-01
 Sample Location: WAYLAND, MA

Date Collected: 05/19/08 16:50
 Date Received: 05/20/08
 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	105		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	99		70-130

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807380**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807380-02
 Client ID: MW-207S-20080519-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/27/08 17:05
 Analyst: GK

Date Collected: 05/19/08 15:25
 Date Received: 05/20/08
 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
1,1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	1.6		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	0.65		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
1,1,1,2,2-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	4.1		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
1,1,1,1,2-Tetrachloroethane	ND		ug/l	0.50	1

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807380**Project Number:** 0079387**Report Date:** 05/28/08**SAMPLE RESULTS**

Lab ID: L0807380-02
 Client ID: MW-207S-20080519-01
 Sample Location: WAYLAND, MA

Date Collected: 05/19/08 15:25
 Date Received: 05/20/08
 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	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	100		70-130

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807380
Report Date: 05/28/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/27/08 12:35
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-02 Batch: WG323288-3				

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: 0079387

Lab Number: L0807380
Report Date: 05/28/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/27/08 12:35
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-02 Batch: WG323288-3				

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-WAYLAND
Project Number: 0079387

Lab Number: L0807380
Report Date: 05/28/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/27/08 12:35
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-02 Batch: WG323288-3				

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	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807380

Project Number: 0079387

Report Date: 05/28/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-02 Batch: WG323288-1 WG323288-2					
Methylene chloride	97	93	70-130	4	25
1,1-Dichloroethane	100	98	70-130	2	25
Chloroform	97	95	70-130	2	25
Carbon tetrachloride	90	86	70-130	5	25
1,2-Dichloropropane	102	100	70-130	2	25
Dibromochloromethane	102	100	70-130	2	25
1,1,2-Trichloroethane	108	103	70-130	5	25
Tetrachloroethene	101	100	70-130	1	25
Chlorobenzene	103	103	70-130	0	25
Trichlorofluoromethane	104	99	70-130	5	25
1,2-Dichloroethane	103	101	70-130	2	25
1,1,1-Trichloroethane	95	92	70-130	3	25
Bromodichloromethane	102	98	70-130	4	25
trans-1,3-Dichloropropene	99	97	70-130	2	25
cis-1,3-Dichloropropene	99	98	70-130	1	25
1,1-Dichloropropene	97	95	70-130	2	25
Bromoform	105	102	70-130	3	50
1,1,2,2-Tetrachloroethane	111	105	70-130	6	25
Benzene	104	102	70-130	2	25
Toluene	104	103	70-130	1	25
Ethylbenzene	105	103	70-130	2	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807380

Project Number: 0079387

Report Date: 05/28/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-02 Batch: WG323288-1 WG323288-2					
Chloromethane	83	80	70-130	4	50
Bromomethane	94	97	70-130	3	50
Vinyl chloride	93	91	70-130	2	25
Chloroethane	96	94	70-130	2	25
1,1-Dichloroethene	94	90	70-130	4	25
trans-1,2-Dichloroethene	99	96	70-130	3	25
Trichloroethene	101	98	70-130	3	25
1,2-Dichlorobenzene	105	105	70-130	0	25
1,3-Dichlorobenzene	102	105	70-130	3	25
1,4-Dichlorobenzene	105	105	70-130	0	25
Methyl tert butyl ether	109	103	70-130	6	25
p/m-Xylene	106	105	70-130	1	25
o-Xylene	103	102	70-130	1	25
cis-1,2-Dichloroethene	101	98	70-130	3	25
Dibromomethane	102	101	70-130	1	25
1,2,3-Trichloropropane	115	116	70-130	1	25
Styrene	102	102	70-130	0	25
Dichlorodifluoromethane	70	67	70-130	4	50
Acetone	96	90	70-130	6	50
Carbon disulfide	81	80	70-130	1	25
2-Butanone	96	96	70-130	0	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807380

Project Number: 0079387

Report Date: 05/28/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-02 Batch: WG323288-1 WG323288-2					
4-Methyl-2-pentanone	100	100	70-130	0	50
2-Hexanone	94	98	70-130	4	50
Bromochloromethane	105	106	70-130	1	25
Tetrahydrofuran	109	105	70-130	4	25
2,2-Dichloropropane	98	95	70-130	3	50
1,2-Dibromoethane	107	104	70-130	3	25
1,3-Dichloropropane	106	104	70-130	2	25
1,1,1,2-Tetrachloroethane	100	99	70-130	1	25
Bromobenzene	103	104	70-130	1	25
n-Butylbenzene	108	105	70-130	3	25
sec-Butylbenzene	106	103	70-130	3	25
tert-Butylbenzene	102	102	70-130	0	25
o-Chlorotoluene	102	100	70-130	2	25
p-Chlorotoluene	105	104	70-130	1	25
1,2-Dibromo-3-chloropropane	104	102	70-130	2	50
Hexachlorobutadiene	106	104	70-130	2	25
Isopropylbenzene	125	123	70-130	2	25
p-Isopropyltoluene	108	108	70-130	0	25
Naphthalene	99	96	70-130	3	25
n-Propylbenzene	105	105	70-130	0	25
1,2,3-Trichlorobenzene	109	106	70-130	3	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON-WAYLAND

Lab Number: L0807380

Project Number: 0079387

Report Date: 05/28/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-02 Batch: WG323288-1 WG323288-2					
1,2,4-Trichlorobenzene	108	105	70-130	3	25
1,3,5-Trimethylbenzene	102	102	70-130	0	25
1,2,4-Trimethylbenzene	103	102	70-130	1	25
Ethyl ether	100	99	70-130	1	25
Isopropyl Ether	100	96	70-130	4	25
Ethyl-Tert-Butyl-Ether	106	102	70-130	4	25
Tertiary-Amyl Methyl Ether	106	100	70-130	6	25
1,4-Dioxane	130	130	70-130	0	50

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

Project Name: RAYTHEON-WAYLAND**Lab Number:** L0807380**Project Number:** 0079387**Report Date:** 05/28/08**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
L0807380-01A	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807380-01B	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807380-02A	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04
L0807380-02B	Vial HCl preserved	A	N/A	3.5C	Y	Absent	MCP-8260-04

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807380
Report Date: 05/28/08

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.

Project Name: RAYTHEON-WAYLAND
Project Number: 0079387

Lab Number: L0807380
Report Date: 05/28/08

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.



E

05280811-49



CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 5/20/08

ALPHA Job #: L0807380

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

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

Project Information

Project Name: RAVINEON-WAYLAND

Project Location: WAYLAND, MA

Project #: 0079387

Project Manager: JASON FLATTERY

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: 5/20/08 Time:

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #:

Client Information

Client: ERM-BOSTON

Address: 399 BOWLTON ST. 6th FLOOR

BOSTON, MA 02116

Phone: 617-646-7800

Fax: 617-267-6447

Email: jason.flattery@erm.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Regulatory Requirements/Report Limits

State /Fed Program: MCP GW-1 Criteria:

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
BODIC by B260
DIFF-AVA
1.4-Dioxane

SAMPLE HANDLING
Filtration
 Done
 Not needed
Preservation
 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>7386 -01</u>	<u>MW-207M-20080519-01</u>	<u>5/19/08</u>	<u>16:50</u>	<u>GW</u>	<u>JDF</u>	<u>2</u>			<u>2</u>
<u>-02</u>	<u>MW-207S-20080519-01</u>	<u>5/19/08</u>	<u>15:25</u>	<u>GW</u>	<u>JDF</u>	<u>2</u>			<u>2</u>
	<u>MW-44S-20080519-01</u>	<u>5/19/08</u>	<u>14:10</u>	<u>GW</u>	<u>JDF</u>	<u>2</u>			<u>2</u>
	<u>MW-261S-20080519-01</u>	<u>5/19/08</u>	<u>12:35</u>	<u>GW</u>	<u>MS</u>	<u>2</u>			<u>2</u>
	<u>MW-552-20080519-01</u>	<u>5/19/08</u>	<u>14:10</u>	<u>GW</u>	<u>MS</u>	<u>2</u>			<u>2</u>
	<u>MW-267M-20080519-01</u>	<u>5/19/08</u>	<u>16:50</u>	<u>GW</u>	<u>MS</u>	<u>2</u>			<u>2</u>

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type V P A
Preservative B C H

Relinquished By: [Signature]
Date/Time: 5/20/08

Received By: [Signature]
Date/Time: 5/20/08 13:00

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

Prepared for:

**Alpha Analytical - Westborough
8 Walkup Drive
Westborough, MA 01581**

Project: L0807586 - ERM
ETR: 0805126
Report Date: June 06, 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**

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Sample ID Cross Reference



Client: **Alpha Analytical - Westborough**
Project: **L0807586 - ERM**

Lab Code: **MA00030**
ETR: **0805126**

Lab Sample ID

Client Sample ID

0805126-01

MW-111-20080522-01

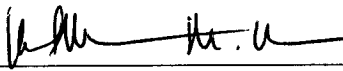
CASE NARRATIVE

Alpha Analytical

ETR: 0805126
Project: L0807586-ERM

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.

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: Technical Representative Date: 6/6/08
Kathleen O'Brien

1,4-Dioxane
By
8270

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807586 - ERM
Client ID: MW-111-20080522-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805126
Lab ID: 0805126-01
Associated Blank: SW052708B29
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/22/08	05/23/08	05/27/08	06/05/08	960	10	1	TLW

Parameter	Result
1,4-Dioxane	521 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	33	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Blank Semi-Volatile Organics by 8270



Client: **Alpha Analytical - Westborough**
 Project: **L0807586 - ERM**
 Client ID: **Blank**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0805126**
 Lab ID: **SW052708B29**
 Associated Blank: **N/A**
 Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	05/27/08	06/04/08	1000	10	1	TLW

Parameter	Result
1,4-Dioxane	500 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	24	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Laboratory Control Summary Semi-Volatile Organics by 8270



Client: **Alpha Analytical - Westborough**
 Project: **L0807586 - ERM**
 Client ID: **Laboratory Control Sample**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0805126**
 Lab ID: **See Below**
 Associated Blank: **SW052708B29**
 Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Analyst
N/A	N/A	05/27/08	TLW

Lab ID: SW052708B29 SW052708LCS05 SW052708LCSD05

Parameter	Blank Conc.	U	LCS		LCSD		% RPD	RPD % Recovery	
			Conc.	% Recovery	Conc.	% Recovery		Limit	Limits
1,4-Dioxane	500	U	4320	86	4380	88	1	30	40-140

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Range (%)</u>
1,4-Dioxane-d8	39 46	15-110

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.

06/05/08 21:07

Chain of Custody Records

Mansfield



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

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

CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab:

ALPHA Job #: 0805726

Project Information

Project Name:
Project Location: Weyland, MA
Project #:
Project Manager: M. Beaver
ALPHA Quote #:

Report Information - Data Deliverables

- FAX EMAIL
- ADEx Add'l Deliverables

Billing Information

Same as Client info PO #:

Client Information

Client: Alpha Analytical
Address: Westboro, MA
Phone:
Fax:
Email:
 These samples have been previously analyzed by Alpha

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)
Date Due: 6/6/09 Time:

Regulatory Requirements/Report Limits

State /Fed Program Criteria

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
14.7. Dioxin

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

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS	SAMPLE HANDLING	Sample Specific Comments	TOTAL # BOTTLES
		Date	Time						
-1	LO807588-01	5/22/08	07:50	GW	/	14.7. Dioxin			2

PLEASE ANSWER QUESTIONS ABOVE!

Container Type	A
Preservative	A

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.

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
<u>Paul Gilbert</u>	5/23/08	<u>Paul Gilbert</u>	5/23/08 10:00
<u>Paul Gilbert</u>	5/23/08 12:00	<u>Paul Gilbert</u>	5/23/08 12:00



CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 5/22/08

ALPHA Job #: L0807586

WESTBORO, MA RAYNHAM, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

A**Project Information**

Project Name: RANTHEON WAYLAND

Project Location: WAYLAND, MA

Project #: 0079387

Project Manager: JASON FLATTERY

ALPHA Quote #:

Turn-Around Time Standard RUSH (only confirmed if pre-approved!)

Date Due: 6/6/08 Time:

Report Information - Data Deliverables
 FAX EMAIL
 ADEx Add'l Deliverables
Billing Information Same as Client info PO #:**Regulatory Requirements/Report Limits**

State /Fed Program Criteria

MCP/GW-7

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS
 Yes No Are MCP Analytical Methods Required?
 Yes No Are CT RCP (Reasonable Confidence Protocols) Required?
Client Information

Client: ERM - BOSTON

Address: 399 BOWLSTON ST. 6th Floor
BOSTON, MA 02116

Phone: 617-646-7800

Fax: 617-267-6447

Email: jason.flattery@erm.com

 These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS
14-Dioxane
BODIC by 8260

SAMPLE HANDLING
 Filtration
 Done
 Not needed
 Lab to do
 Preservation
 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									
7506-01	MW-111-20080522-01	5/22/08	07:50	GW	MS	2	2					4
	MW-107-20080522-01	5/22/08	12:25	GW	DM		2					2
	TB-002-20080522-01	5/22/08	19:00	GW	KOZ		1					1

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

 Container Type: AV
 Preservative: HH

Relinquished By: <i>Danielle Mardolano</i>	Date/Time: 5/22/08 13:10	Received By: <i>T Feig</i>	Date/Time: 5/22/08 13:10

Please print clearly and legibly. Samples cannot be logged in and analyzed if not clearly labeled and analyzed. All samples submitted are subject to Alpha's Payment Terms & Conditions.



Sample Delivery Group Form

Laboratory Job number: L0807586

Client Account: ERM-New England

Received: 05/22/2008 13:40

Samples Delivered by: Client

Bill Of Laden N/A

Trackingnum

Coc Present Present

Container Status Intact

Sample IDs

All Containers Accounted For? Yes

Were Extra Samples Received? No

Do Sample Labels and COC agree? Yes

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt 7

Are samples Properly Preserved? Yes

Initial pH preserved in house with

Final pH

Other Issues

Chlorine Check N/A

Are VOA/VPH Vials Present? No

Aqueous: Do Vials Contain Head Space? N/A

Soils: Is MeOH Covering the Soil? N/A

Reagent H2O Preserved vials Frozen on N/A

Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temperature	Frozen upon Receipt	Delivered Direct from Site
A	Absent	Yes	No	2c - IR Gun	No	No

Sample Receipt Checklist

Client: <u>ALPHA</u>	Receipt Date: <u>5/23/08</u>
Project: <u>20807586 - ERM</u>	Log-in Date: <u>5/24/08</u>
ETR #: <u>0805726</u>	Inspection by: <u>W</u> Login by: <u>W</u>

ALL SECTIONS BELOW MUST BE COMPLETED

Comments / Notes

Were samples shipped? Yes, FedEx / UPS / Other: _____ <u>No, Alpha Analytical Courier pick-up</u> / Hand delivered	Sample storage refrigerator #: <u>F1</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>MS 2</u>	Cooler 2: <u>4°/4°</u> Cooler 3: _____ Cooler 4: _____ Cooler 5: _____ Cooler 6: _____ Cooler 7: _____ More: _____
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>4°</u> IR Gun, (Circle one) SN 460647143 or 94031 <u>4°</u> Temp. Blank, / NA 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 <u>this</u> page.	
Were sample containers intact? <u>Yes</u> / No If No, list samples: →	
Did VOA/VPH waters contain headspace (>5mm)? Yes / No / <u>NA</u> 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? Yes / No / <u>NA</u> <input 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>N/A</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; Metals: 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



WESTBORO, MA RAYNHAM, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

CHAIN OF CUSTODY

PAGE 1 OF 1

A

Date Rec'd in Lab:

ALPHA Job #: L0807589
L0807583

Client Information

Client: ERM-BOSTON
 Address: 399 BOYLSTON ST. 6TH FLOOR
BOSTON, MA 02116
 Phone: 617-646-7800
 Fax: 617-267-6447
 Email: jason.flattery@erm.com
 These samples have been previously analyzed by Alpha

Project Information

Project Name: RANTHEON-WAYLAND
 Project Location: WAYLAND, MA
 Project #: 0079387
 Project Manager: JASON FLATTERY
 ALPHA Quote #:

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State / Fed Program: MCP/GW-1
 Criteria:

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

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

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)
 Date Due: 6/6 Time:

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS

DIS. K (CFE)
DIS. NA (CFE)
B021C by B260
114-Dioxane
B021C by B260

SAMPLE HANDLING

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

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS		Sample Specific Comments
		Date	Time			DIS. K (CFE)	DIS. NA (CFE)	
	MW-2025-20080521-01	5/21/08	08:40	GW	DM	1	1 2	
	MW-2030-20080521-01	5/21/08	13:15	GW	DM	1	2	
<u>6788</u>	MW-101-20080521-01	5/21/08	08:05	GW	JDF		2 2	
	MW-117-20080521-01	5/21/08	14:00	GW	JDF	1	2	
<u>2</u>	IP-165-20080521-01	5/21/08	09:20	GW	MS		2 2	
<u>3</u>	IP-160-20080521-01	5/21/08	10:00	GW	MS		2 2	
<u>4</u>	MW-4055-20080521-01	5/21/08	11:30	GW	MS		2 2	
	MW-404-20080521-01	5/21/08	13:15	GW	MS		2	
	MW-118-20080521-01	5/21/08	13:45	GW	MS		2	

PLEASE ANSWER QUESTIONS ABOVE!

Container Type: P P V A V
 Preservative: C C B H H

IS YOUR PROJECT
 MA MCP or CT RCP?

Relinquished By: [Signature] Date/Time: 5/22/08 10:00
 Received By: [Signature] Date/Time: 5/22/08 11:30

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

Prepared for:

**Alpha Analytical - Westborough
8 Walkup Drive
Westborough, MA 01581**

Project: L0807584 - ERM
ETR: 0805127
Report Date: June 06, 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: **L0807584 - ERM**

Lab Code: **MA00030**
ETR: **0805127**

Lab Sample ID	Client Sample ID
0805127-01	MW-101-20080521-01
0805127-02	IP-16S-20080521-01
0805127-03	IP-16D-20080521-01
0805127-04	MW-405S-20080521-01

CASE NARRATIVE

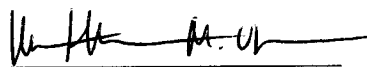
Alpha Analytical

ETR: 0805127

Project: L0807584-ERM

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.

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: Technical Representative Date: 6/6/08
Kathleen O'Brien

i

O:\Report\NARRTEMP\2008\Alpha\0805127.doc

1,4-Dioxane
By
8270

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807584 - ERM
Client ID: MW-101-20080521-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805127
Lab ID: 0805127-01
Associated Blank: SW052708B29
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/21/08	05/23/08	05/27/08	06/05/08	1000	10	1	TLW

Parameter	Result
1,4-Dioxane	500 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	39	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807584 - ERM
Client ID: IP-16S-20080521-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805127
Lab ID: 0805127-02
Associated Blank: SW052708B29
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/21/08	05/23/08	05/27/08	06/05/08	960	10	1	TLW

Parameter	Result
1,4-Dioxane	529

Surrogate	% Recovery	Acceptance Range (%)	N/A - Not Applicable
1,4-Dioxane-d8	39	15-110	

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807584 - ERM
Client ID: IP-16D-20080521-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805127
Lab ID: 0805127-03
Associated Blank: SW052708B29
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/21/08	05/23/08	05/27/08	06/05/08	940	10	1	TLW

Parameter	Result
1,4-Dioxane	456 J

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	40	15-110

N/A - Not Applicable
 J - Estimated value, below quantitation limit.

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807584 - ERM
Client ID: MW-405S-20080521-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805127
Lab ID: 0805127-04
Associated Blank: SW052708B29
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/21/08	05/23/08	05/27/08	06/05/08	940	10	1	TLW

Parameter	Result
1,4-Dioxane	532 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	37	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Blank Semi-Volatile Organics by 8270



Client: **Alpha Analytical - Westborough**
 Project: **L0807584 - ERM**
 Client ID: **Blank**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0805127**
 Lab ID: **SW052708B29**
 Associated Blank: **N/A**
 Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	05/27/08	06/04/08	1000	10	1	TLW

Parameter	Result
1,4-Dioxane	500 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	24	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Laboratory Control Summary Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807584 - ERM
Client ID: Laboratory Control Sample
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805127
Lab ID: See Below
Associated Blank: SW052708B29
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Analyst
N/A	N/A	05/27/08	TLW

Lab ID: SW052708B29 SW052708LCS05 SW052708LCSD05

Parameter	Blank Conc.	LCS Conc. % Recovery	LCSD Conc. % Recovery	% RPD	RPD % Recovery Limit Limits
1,4-Dioxane	500 U	4320 86	4380 88	1	30 40-140

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	39 46	15-110

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.

06/05/08 21:00

320 Forbes Blvd, Mansfield, MA 02048, (508) 822-9300, Fax (508) 822-3288

Chain of Custody Records



CHAIN OF CUSTODY

PAGE _____ OF _____

WESTBORO, MA MANSFIELD, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Date Rec'd in Lab: _____

ALPHA Job #: **0805127****Client Information**

Client: **Alpha Analytical**
 Address: _____
 Phone: _____
 Fax: _____
 Email: _____
 These samples have been previously analyzed by Alpha

Project Information

Project Name: _____
 Project Location: _____
 Project #: _____
 Project Manager: **M. Beupre**
 ALPHA Quote #: _____

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)
 Date Due: **6/6** Time: _____

Report Information - Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #: _____

Regulatory Requirements/Report Limits

State /Fed Program Criteria

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: _____

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials																TOTAL # BOTTLES		
		Date	Time																				
1	LO807584-01	5/21	08:05	Gw		X																	2
2	02	↓	09:20	↓		X																	2
3	03	↓	10:00	↓		X																	2
4	04	↓	11:30	↓		X																	2

ANALYSIS
1, 4 - Done

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

Preservative

Relinquished By:

Date/Time

Received By:

Date/Time

Paul Gilbert
 Paul Gilbert

5/22/08
 5/23/08 12:00

Paul Gilbert
 Paul Gilbert

5/23/08 10:00
 5/23/08 1200

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



CHAIN OF CUSTODY

PAGE 1 OF 1

ALPHA Job #

A

WESTBORO, MA TEL: 508-898-9220
 RAYNHAM, MA TEL: 508-822-9300
 FAX: 508-898-9193 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: jason.flattery@erm.com
 These samples have been previously analyzed by Alpha

Project Information
 Project Name: RANTHEON-WAYLAND
 Project Location: WAYLAND, MA
 Project #: 0079387
 Project Manager: JASON FLATTERY
 ALPHA Quote #:
Turn-Around Time
 Standard RUSH (only confirmed if pre-approved!)
 Date Due: 6/6 Time:

Report Information - Data Deliverables
 FAX EMAIL
 ADEx Add'l Deliverables

Billing Information
 Same as Client info PO #:

Regulatory Requirements/Report Limits
 State /Fed Program: MCP/GW-1 Criteria:
MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

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)

*DISS. K (CFE)
 DISS. NA (CFE)
 BODIC by 8260
 1:4 - DISSANE
 BODIC by 8260*

Sample ID	Collection		Sample Matrix	Sampler's Initials	TOTAL # BOTTLES		
	Date	Time					
MW-2025-20080521-01	5/21/08	08:40	GW	DM	1	2	4
MW-2030-20080521-01	5/21/08	13:15	GW	DM	1	2	3
MW-101-20080521-01	5/21/08	08:05	GW	JDF		2 2	4
MW-117-20080521-01	5/21/08	14:00	GW	JDF	1	2	3
IP-165-20080521-01	5/21/08	09:20	GW	MS		2 2	4
IP-160-20080521-01	5/21/08	10:00	GW	MS		2 2	4
MW-4055-20080521-01	5/21/08	11:30	GW	MS		2 2	4
MW-404-20080521-01	5/21/08	13:15	GW	MS	<input checked="" type="checkbox"/>	2	2
MW-118-20080521-01	5/21/08	13:45	GW	MS		2	2

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Container Type: P P V A V
 Preservative: C C B H H

Relinquished By: [Signature] Date/Time: 5/22/08 1000
 Received By: [Signature] Date/Time: 5/22/08 1730



Sample Delivery Group Form

Laboratory Job number: L0807584

Client Account: BRM-New-England

Received: 05/22/2008 17:30

Samples Delivered by: COURIER
 Bill Of Lading N/A Trackingnum
 Coc Present Present

Container Status Intact Sample IDs

All Containers Accounted For? Yes
 Were Extra Samples Received? No
 Do Sample Labels and COC agree? Yes
 Are Samples in Appropriate Containers? Yes
 Are Samples Received within Holding time? Yes

pH of Samples upon Receipt 7 Are samples Properly Preserved? Yes
 Initial pH preserved in house with Final pH
 Other Issues
 Chlorine Check N/A

Are VOA/VPH Vials Present? No
 Aqueous: Do Vials Contain Head Space? N/A
 Soils: Is MeOH covering the Soil? N/A
 Reagent H2O Preserved vials Frozen on N/A
 Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temperature	Frozen upon Receipt	Delivered Direct from Site
A	Absent	Yes	No	1.7C - Temp. Blank	No	No

Sample Receipt Checklist

Client: <u>ALPHA</u>	Receipt Date: <u>5/23/08</u>
Project: <u>20807584-ERM</u>	Log-in Date: <u>5/24/08</u>
ETR #: <u>0805127</u>	Inspection by: <u>W</u> Login by: <u>W</u>

ALL SECTIONS BELOW MUST BE COMPLETED

Comments / Notes

<p>Were samples shipped? Yes, FedEx / UPS / Other: _____ <u>No, Alpha Analytical Courier pick-up</u> / Hand delivered</p> <p>Is bill of lading retained? Yes, Tracking #: _____ No, Unavailable / <u>NA</u></p> <p>Number of coolers received for this project delivery: <u>MS 2</u></p> <p>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.</p> <p>Cooler 1: Temperature(s) taken from: <u>4°</u> IR Gun, (Circle one) SN 460647143 or 94031 <u>4°</u> Temp. Blank, / NA</p> <p>Were samples received on ice? <u>Yes</u> / No</p> <p>Chain-of-Custody present? <u>Yes</u> / No Complete? <u>Yes</u> / No</p> <p>Custody seals present on Cooler? Yes / <u>No</u> on Bottles? Yes / <u>No</u> Intact? Yes / No / <u>NA</u></p> <p>Note: Affix custody seals to back of <u>this</u> page.</p> <p>Were sample containers intact? <u>Yes</u> / No If No, list samples: →</p> <p>Did VOA/VPH waters contain headspace (>5mm)? Yes / No / <u>NA</u> If Yes, list samples: →</p> <p>Were 5035 VOA soils, or VPH soils, covered with MeOH? Yes / No / <u>NA</u> If No, list samples: →</p> <p>Was a sufficient amount of sample received for each test indicated on the COC? <u>Yes</u> / No If No, list samples: →</p> <p><i>If chemical preservation is appropriate -</i> Were samples field preserved? Yes / No / <u>NA</u> <input type="checkbox"/> C=HCl <input type="checkbox"/> M=MeOH <input type="checkbox"/> S=H₂SO₄ <input type="checkbox"/> H=NaOH <input type="checkbox"/> N=HNO₃ <input type="checkbox"/> Other: _____ <input type="checkbox"/> U= Unknown</p> <p>Preservation (pH) verified at lab for <u>EVERY</u> bottle? (Not: VOA / VPH / Sulfide) YES: <2 or >12 (CN) or NO <u>NA</u> If No, why?:</p> <p>Were samples received within hold time? <u>Yes</u> / No If No, list samples: →</p> <p>Discrepancy between samples rec'd & COC? Yes / <u>No</u> If Yes, list samples: →</p> <p>Was the Project Manager notified of any other problems? Yes / No / NA</p> <p>Project Manager Acknowledgement: _____ Date: _____</p>	<p>Sample storage refrigerator #: <u>F1</u></p> <p>Sample storage freezer #: _____</p> <p>Cooler 2: <u>4°/4°</u> Cooler 3: _____</p> <p>Cooler 4: _____ Cooler 5: _____</p> <p>Cooler 6: _____ Cooler 7: _____</p> <p>More: _____</p> <p>Chemical preservation OK for ALL samples? Yes / No / <u>N/A</u></p> <p><u>If No, list samples below:</u></p> <p style="text-align: right;"><i>Please use back for any additional notes!</i></p>
---	--

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; Metals: 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-Portable 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



CHAIN OF CUSTODY

PAGE 1 OF 1

WESTBORO, MA RAYNHAM, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Date Rec'd in Lab: 5/22ALPHA Job #: L0807577

Client Information

Client: ERM - BOSTON
 Address: 399 BOSTON ST. 6th Floor
BOSTON, MA 02116
 Phone: 617-646-7800
 Fax: 617-267-6447
 Email: jason.flattery@erm.com

Project Information

Project Name: RAYTHEON - WAMLAND
 Project Location: WAMLAND, MA
 Project #: 0079387
 Project Manager: JASON FLATTERY
 ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)
 Date Due: 6/6/08 Time:

Report Information - Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

Slate / Fed Program: MCP/GW-2 Criteria:

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
BODIC by 0260
114-Dioxane

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

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials			
		Date	Time					
<u>07577</u>	<u>MW-206D-20080521-01</u>	<u>5/21/08</u>	<u>09:55</u>	<u>GW</u>	<u>DM</u>	<u>2</u>		
	<u>MW-206M-20080521-01</u>	<u>5/21/08</u>	<u>09:55</u>	<u>GW</u>	<u>DM</u>	<u>2</u>		
<u>07577.1</u>	<u>HA-104-20080521-01</u>	<u>5/21/08</u>	<u>11:25</u>	<u>GW</u>	<u>JDF</u>	<u>2</u>	<u>2</u>	
<u>2</u>	<u>HA-102-20080521-01</u>	<u>5/21/08</u>	<u>09:40</u>	<u>GW</u>	<u>JDF</u>	<u>2</u>	<u>2</u>	

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
 MA MCP or CT RCP?

Container Type V A
 Preservative B A

Relinquished By: [Signature] Date/Time: 5/22/08 10:00
 Received By: [Signature] Date/Time: 5/22/08 14:26

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

Prepared for:

**Alpha Analytical - Westborough
8 Walkup Drive
Westborough, MA 01581**

Project: L0807577 - ERM
ETR: 0805125
Report Date: June 06, 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: **L0807577 - ERM**

Lab Code: **MA00030**
ETR: **0805125**

Lab Sample ID	Client Sample ID
0805125-01	HA-104-20080521-01
0805125-02	HA-102-20080521-01

CASE NARRATIVE


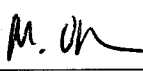
Alpha Analytical

ETR: 0805125

Project: L0807577-ERM

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.

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: Technical Representative Date: 6/6/08
Kathleen O'Brien

1,4-Dioxane
By
8270

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807577 - ERM
Client ID: HA-104-20080521-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805125
Lab ID: 0805125-01
Associated Blank: SW052708B29
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/21/08	05/23/08	05/27/08	06/05/08	1000	10	1	TLW

Parameter	Result
1,4-Dioxane	500 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	36	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807577 - ERM
Client ID: HA-102-20080521-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805125
Lab ID: 0805125-02
Associated Blank: SW052708B29
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/21/08	05/23/08	05/27/08	06/05/08	980	10	1	TLW

Parameter	Result
1,4-Dioxane	510 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	37	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Blank Semi-Volatile Organics by 8270



Client: **Alpha Analytical - Westborough**
 Project: **L0807577 - ERM**
 Client ID: **Blank**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0805125**
 Lab ID: **SW052708B29**
 Associated Blank: **N/A**
 Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	05/27/08	06/04/08	1000	10	1	TLW

Parameter	Result
1,4-Dioxane	500 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	24	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Laboratory Control Summary Semi-Volatile Organics by 8270



Client: **Alpha Analytical - Westborough**
 Project: **L0807577 - ERM**
 Client ID: **Laboratory Control Sample**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0805125**
 Lab ID: **See Below**
 Associated Blank: **SW052708B29**
 Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Analyst
N/A	N/A	05/27/08	TLW

Lab ID: SW052708B29 SW052708LCS05 SW052708LCSD05

Parameter	Blank Conc.	U	LCS Conc.	% Recovery	LCSD Conc.	% Recovery	% RPD	RPD Limit	% Recovery Limits
1,4-Dioxane	500	U	4320	86	4380	88	1	30	40-140

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	39 46	15-110

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.

06/05/08 20:57

320 Forbes Blvd, Mansfield, MA 02048, (508) 822-9300, Fax (508) 822-3288

Chain of Custody Records

ERM-ma



CHAIN OF CUSTODY

PAGE ____ OF ____

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

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

Date Rec'd in Lab:

ALPHA Job #: 0805725

Project Information

Report Information - Data Deliverables

Billing Information

Client Information

Project Name:

FAX EMAIL
 ADEX Add'l Deliverables

Same as Client info PO #:

Client: Alpha Analytical

Project Location:

Regulatory Requirements/Report Limits

Address:

Project #:

State /Fed Program Criteria

Phone:

Project Manager: M. Beaman

Fax:

ALPHA Quote #:

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

Email:

Turn-Around Time

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

These samples have been previously analyzed by Alpha

Standard RUSH (only confirmed if pre-approved!)

Date Due: 6/6 Time:

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS
14-Dioxin

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

TOTAL # BOTTLES

2

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials																
		Date	Time																		
	L0807577-01	5/21	11:25	Bu		X															
	↓ 02	↓	09:40	↓		X															

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

FORMNO: 01-01 (rev. 30-JUL-07)

Container Type			
Preservative			
Relinquished By:	Date/Time	Received By:	Date/Time
<i>Paul Gilbert</i>	5/22/08 5/23/08 12:00	<i>Paul Gilbert</i>	5/23/08 10:00 5/23/08 1200

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

CHAIN OF CUSTODY

PAGE 1 OF 1



WESTBORO, MA RAYNHAM, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

E

Date Rec'd in Lab: 5/22 ALPHA Job #: L080577

Client Information
 Client: ERM - BOSTON
 Address: 399 BOSTON ST. 6th Floor
BOSTON, MA 02116
 Phone: 617-646-7800
 Fax: 617-267-6447
 Email: jason.flatten@erm.com
 These samples have been previously analyzed by Alpha

Project Information
 Project Name: RAYTHEON - WAYLAND
 Project Location: WAYLAND, MA
 Project #: 0079387
 Project Manager: JASON FLATTERY
 ALPHA Quote #:

Turn-Around Time
 Standard RUSH (only confirmed if pre-approved!)
 Date Due: 6/6/08 Time:

Report Information - Data Deliverables
 FAX EMAIL
 ADEx Add'l Deliverables

Billing Information
 Same as Client info PO #:

Regulatory Requirements/Report Limits
 State /Fed Program: MCP/GW-2 Criteria:

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

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

ANALYSIS

8021C by 8260

114-Dioxane

TOTAL # BOTTLES

Sample ID	Collection		Sample Matrix	Sampler's Initials			Sample Specific Comments	TOTAL # BOTTLES
	Date	Time						
MW-206D-200B0521-01	5/21/08	09:55	GW	DM	2			2
MW-206M-200B0521-01	5/21/08	09:55	GW	DM	2			2
HA-104-200B0521-01	5/21/08	11:25	GW	JDF	2	2		4
HA-102-200B0521-01	5/21/08	09:40	GW	JDF	2	2		4

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Container Type: V A
 Preservative: B A

Relinquished By: [Signature] Date/Time: 5/22/08 10:00
 Received By: [Signature] Date/Time: 5/22/08 14:26



Sample Delivery Group Form

Laboratory Job number: L0807577

Client Account: ERM-New England

Received: 05/22/2008 14:20

Samples Delivered by: COURIER
 Bill Of Laden N/A Trackingnum
 Coc Present Present

Container Status Intact Sample IDs

All Containers Accounted For? Yes
 Were Extra Samples Received? No
 Do Sample Labels and COC agree? Yes
 Are Samples in Appropriate Containers? Yes
 Are Samples Received within Holding time? Yes

pH of Samples upon Receipt 7 Are samples Properly Preserved? Yes
 Initial pH preserved in house with Final pH
 Other Issues
 Chlorine Check N/A

Are VOANPH Vials Present? No
 Aqueous: Do Vials Contain Head Space? N/A
 Soils: Is MeOH Covering the Soil? N/A
 Reagent H2O Preserved vials Frozen on N/A
 Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temperature	Frozen upon Receipt	Delivered Direct from Site
A	Absent	Yes	No	20 - IR Gun	No	No

Sample Receipt Checklist

Client: <u>ALPHA</u>	Receipt Date: <u>5/23/08</u>
Project: <u>L080577-ERM</u>	Log-in Date: <u>5/24/08</u>
ETR #: <u>0805725</u>	Inspection by: <u>W</u> Login by: <u>W</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>F1</u> Sample storage freezer #: _____ Cooler 2: <u>4°/4°</u> Cooler 3: _____ Cooler 4: _____ Cooler 5: _____ Cooler 6: _____ Cooler 7: _____ More: _____
Is bill of lading retained? Yes, Tracking #: _____ No, Unavailable / <u>NA</u>	
Number of coolers received for this project delivery: <u>W 3/2</u>	
Indicate cooler temperature upon opening (if multiple coolers, record <u>all</u> temps): <u>Note:</u> 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>4°</u> IR Gun, (Circle one) SN 460647143 or 94031 <u>4°</u> Temp. Blank, / NA	
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>	
<u>Note:</u> 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 / No <u>(NA)</u> 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? Yes / No / <u>(NA)</u> <input 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	
Preservation (pH) verified at lab for <i>EVERY</i> bottle? (<u>Not:</u> 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; Metals: 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



A CHAIN OF CUSTODY

PAGE 1 OF 4

Date Rec'd in Lab: 5/21/08

ALPHA Job #: 20807494

WESTBORO, MA RAYNHAM, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Client Information

Client: ERM - BOSTON
 Address: 399 BOWLTON ST. 6th Floor
BOSTON, MA 02116
 Phone: 617-646-7800
 Fax: 617-267-6447
 Email: jason.flattery@erm.com

These samples have been previously analyzed by Alpha

Project Information

Project Name: RANTHEON-WAYLAND
 Project Location: WAYLAND
 Project #: 0079387
 Project Manager: JASON FLATTERY
 ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: 6/5/08 Time:

Other Project Specific Requirements/Comments/Detection Limits:

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #:

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 Protocols) Required?

ANALYSIS										SAMPLE HANDLING		TOTAL BOTTLES
806C by 8060	Diss Na	Diss K	806C by 8060							Filtration		
										<input checked="" type="checkbox"/> Done		4
										<input type="checkbox"/> Not needed		2
										<input type="checkbox"/> Lab to do Preservation		1
										<input type="checkbox"/> Lab to do		3
										(Please specify below)		3
												3
												3
												3
												3
												3

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS										Sample Specific Comments	TOTAL BOTTLES
		Date	Time			806C by 8060	Diss Na	Diss K	806C by 8060								
	MW-208S-20080520-01	5/20/08	12:30	GW	Bm	2	1	1									4
	MW-208M-20080520-01	5/20/08	14:00		Bm						2						2
	DUP-008-20080520-01		24:00		Bm			1									1
	MW-203M-20080520-01		14:10		LK	2	1										3
	MW-106M-20080520-01		8:57		Dm	2	1										3
	MW-106-20080520-01		9:42		Dm	2	1										3
	MW-105M-20080520-01		12:32		Dm	2	1										3
	MW-105-20080520-01		11:35		Dm	2	1										3
	MW-104-20080520-01		16:35		Dm	2	1										3
	DUP-006-20080520-01		0:00		Dm	2	1										3

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

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

Container Type V P P V
 Preservative B C C H

Relinquished By:	Date/Time	Received By:	Date/Time
<u>[Signature]</u>	<u>5/21 9:40</u>	<u>[Signature]</u>	<u>5/21 9:40</u>
<u>[Signature]</u>	<u>5/21</u>	<u>[Signature]</u>	<u>5/21/08 15:00</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.



(A)

CHAIN OF CUSTODY

PAGE 3 OF 4

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

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

Date Rec'd in Lab: 5/21/08

ALPHA Job #: L0807494

Client Information

Client: ERM-BOSTON
Address: 399 BOYLSTON ST. 6TH FLOOR
BOSTON, MA 02116
Phone: 617-646-7800
Fax: 617-267-6447
Email: jason.flattery@erm.com
 These samples have been previously analyzed by Alpha

Project Information

Project Name: RANTHEON-WAYLANA
Project Location: WAYLANA MA
Project #: 0079387
Project Manager: JASON FLATTERY
ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: 6/5/08 Time:

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program: MCP/GW-1
Criteria:

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										SAMPLE HANDLING	
<u>8021C by 8260</u> <u>Diss Na</u> <u>8021C by 8260</u> <u>1,4 Dioxane</u> <u>1,4 Dioxane</u>										Filtration	
										<input checked="" type="checkbox"/> Done	
										<input type="checkbox"/> Not needed	
										<input type="checkbox"/> Lab to do	
										<input type="checkbox"/> Lab to do	
										(Please specify below)	
Sample Specific Comments											

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS										TOTAL # BOTTLES		
		Date	Time			1	2	3	4	5	6	7	8	9	10			
	MW-47D-20080520-01	5/22/08	9:50	GW	MD	2	1											
-02	MW-47S-20080520-01		11:40		MD			2	2									24
-03	MW-201M-20080520-01		13:25		MD			2	2									4
	MW-47M-20080520-01		10:55		MD	2	1											3
	MW-214-20080520-01		15:40		JDF	2	1											3
	MW-103-20080520-01		9:20		JDF	2	1											3
-04	MW-213-20080520-01		10:40		JDF	2	1			2								5
-05	MW-102-20080520-01		13:45		JDF			2	2									4
-06	MW-403-20080520-01		12:35		JDF	2	1		1	1								4
-07	DUP-007-20080520-01		0:00		JDF	2				2								4

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Container Type	V	P	V	A	A
Preservative	B	C	H	H	A

Relinquished By:	Date/Time	Received By:	Date/Time
<u>[Signature]</u>	<u>5/21 9:40</u>	<u>[Signature]</u>	<u>5/21 9:40</u>
	<u>5/21</u>	<u>[Signature]</u>	<u>5/21/08 13:00</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.



CHAIN OF CUSTODY

PAGE 4 OF 4Date Rec'd in Lab: 5/21/08ALPHA Job #: L0807494

WESTBORO, MA RAYNHAM, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Project Information
 Project Name: RATHEON - WAYLAND

Report Information - Data Deliverables
 FAX EMAIL
 ADEX Add'l Deliverables

Billing Information
 Same as Client info PO #:

Client Information
 Client: ERM - BOSTON
 Address: 399 BOWLSTON 6th FLOOR
BOSTON, MA 02116
 Phone: 617-646-7800
 Fax: 617-267-6447
 Email: jason.flattery@erm.com
 These samples have been previously analyzed by Alpha

Project Location: WAYLAND, MA
 Project #: 6079387
 Project Manager: JASON FLATTERY
 ALPHA Quote #:
 Turn-Around Time
 Standard RUSH (only confirmed if pre-approved!)
 Date Due: 6/5/08 Time:

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 Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS	3031C by 8366	SAMPLE HANDLING	Filtration	TOTAL # BOTTLES
	Dis Na		<input checked="" type="checkbox"/> Done	
	Piso K		<input type="checkbox"/> Not needed	
	1,4 Dioxane		<input type="checkbox"/> Lab to do Preservation	
			<input type="checkbox"/> Lab to do	
Sample Specific Comments		(Please specify below)		

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials											Sample Specific Comments			
		Date	Time																
	MW-201D-20080520-01	5/20/08	15:30	GW	MD	2	1												3
	MW-202AM-20080520-01		16:35		MS	2	1	1											4
	DUP-004-20080520-01		0:00		MS	2	1												3
	DUP-005-20080520-01		0:00		MD	2	1												3
-08	DUP-009-20080520-01		0:00		MS	2		1	2										3
	MW-201S-20080520-01		16:50		MD	2	1												3

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Container Type	V P P A
Preservative	B C C A

Relinquished By: [Signature] Date/Time: 5/21/08 9:46

Received By: [Signature] Date/Time: 5/21/08 13:20

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.

FORMNO: 01-01 (rev. 10-OCT-05)



ANALYTICAL REPORT

Prepared for:

**Alpha Analytical - Westborough
8 Walkup Drive
Westborough, MA 01581**

Project: L0807494 -- ERM
ETR: 0805115
Report Date: June 06, 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**

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Sample ID Cross Reference



Client: **Alpha Analytical - Westborough**
Project: **L0807494 -- ERM**

Lab Code: **MA00030**
ETR: **0805115**

Lab Sample ID	Client Sample ID
0805115-01	MW-33S-20080520-01
0805115-02	MW-47S-20080520-01
0805115-03	MW-201M-20080520-01
0805115-04	MW-213-20080520-01
0805115-05	MW-102-20080520-01
0805115-06	MW-403-20080520-01
0805115-07	DUP-007-20080520-01
0805115-08	DUP-009-20080520-01
0805115-09	MW-202M-20080520-01

CASE NARRATIVE

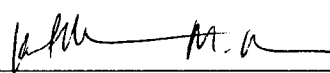
Alpha Analytical

ETR: 0805115

Project: L0807494-ERM

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.

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: Technical Representative Date: 6/6/08
Kathleen O'Brien

1,4-Dioxane
By
8270

Form I

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807494 -- ERM
Client ID: MW-33S-20080520-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805115
Lab ID: 0805115-01
Associated Blank: SW052308B05
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/20/08	05/22/08	05/23/08	06/04/08	980	10	1	TLW

Parameter	Result
1,4-Dioxane	510 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	39	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807494 -- ERM
Client ID: MW-47S-20080520-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805115
Lab ID: 0805115-02
Associated Blank: SW052308B05
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/20/08	05/22/08	05/23/08	06/04/08	1000	10	1	TLW

Parameter	Result
1,4-Dioxane	500 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	35	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807494 -- ERM
Client ID: MW-201M-20080520-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805115
Lab ID: 0805115-03
Associated Blank: SW052308B05
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/20/08	05/22/08	05/23/08	06/04/08	1000	10	1	TLW

Parameter	Result
1,4-Dioxane	500 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	36	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Semi-Volatile Organics by 8270



Client: **Alpha Analytical - Westborough**
 Project: **L0807494 -- ERM**
 Client ID: **MW-213-20080520-01**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0805115**
 Lab ID: **0805115-04**
 Associated Blank: **SW052308B05**
 Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/20/08	05/22/08	05/23/08	06/04/08	1000	10	1	TLW

Parameter	Result
1,4-Dioxane	500 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	33	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807494 -- ERM
Client ID: MW-102-20080520-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805115
Lab ID: 0805115-05
Associated Blank: SW052308B05
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/20/08	05/22/08	05/23/08	06/04/08	1000	10	1	TLW

Parameter	Result
1,4-Dioxane	500 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	33	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807494 -- ERM
Client ID: MW-403-20080520-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805115
Lab ID: 0805115-06
Associated Blank: SW052308B05
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/20/08	05/22/08	05/23/08	06/04/08	1000	10	1	TLW

Parameter	Result
1,4-Dioxane	1660

Surrogate	% Recovery	Acceptance Range (%)	N/A - Not Applicable
1,4-Dioxane-d8	34	15-110	

Form I

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807494 -- ERM
Client ID: DUP-007-20080520-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805115
Lab ID: 0805115-07
Associated Blank: SW052308B05
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/20/08	05/22/08	05/23/08	06/04/08	1000	10	1	TLW

Parameter	Result
1,4-Dioxane	500 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	32	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807494 -- ERM
Client ID: DUP-009-20080520-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805115
Lab ID: 0805115-08
Associated Blank: SW052308B05
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/20/08	05/22/08	05/23/08	06/04/08	980	10	1	TLW

Parameter	Result
1,4-Dioxane	510 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	33	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807494 -- ERM
Client ID: MW-202M-20080520-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805115
Lab ID: 0805115-09
Associated Blank: SW052308B05
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/20/08	05/22/08	05/23/08	06/04/08	980	10	1	TLW

Parameter	Result
1,4-Dioxane	1010

Surrogate	% Recovery	Acceptance Range (%)	N/A - Not Applicable
1,4-Dioxane-d8	37	15-110	

Form I

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807494 -- ERM
Client ID: Blank
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805115
Lab ID: SW052308B05
Associated Blank: N/A
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	05/23/08	06/03/08	1000	10	1	TLW

Parameter	Result
1,4-Dioxane	500 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	33	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Form III Spike Recovery Summary Semi-Volatile Organics by 8270



Client: **Alpha Analytical - Westborough**
 Project: **L0807494 -- ERM**
 Client ID: **Laboratory Control Sample**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0805115**
 Lab ID: **See Below**
 Associated Blank: **SW052308B05**
 Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Analyst
N/A	N/A	05/23/08	TLW

Lab ID: SW052308B05 SW052308LCS04 SW052308LCSD04

Parameter	Blank Conc.	LCS Conc. % Recovery	LCSD Conc. % Recovery	% RPD	RPD % Recovery Limit Limits
1,4-Dioxane	500 U	4450 89	4550 91	2	30 40-140

Surrogate	% Recovery		Acceptance Range (%)
1,4-Dioxane-d8	38 32		15-110

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.

06/05/08 19:39

Chain of Custody Records

Mansfield



CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: _____ ALPHA Job #: 080515

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

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

Project Information

Project Name: _____
Project Location: Wayland, MA
Project #: _____
Project Manager: M. Beaupre
ALPHA Quote #: _____

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #: _____

Client Information

Client: Alpha Analytical
Address: Westboro, MA
Phone: _____
Fax: _____
Email: _____
 These samples have been previously analyzed by Alpha

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)
Date Due: 6/5/08 Time: _____

Regulatory Requirements/Report Limits

State /Fed Program: MCP 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	SAMPLE HANDLING		TOTAL # BOTTLES
	Filtration	Preservation	
1,4 Dioxane	<input type="checkbox"/> Done <input type="checkbox"/> Not needed <input type="checkbox"/> Lab to do	<input type="checkbox"/> Lab to do	
1,4 Dioxane			
Hold			

(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS	SAMPLE HANDLING	TOTAL # BOTTLES
		Date	Time					
1	L0807494-01	5/20/08	14:30			✓		2
2	L0807494-02		11:40			✓		2
3	L0807494-03		13:25			✓		2
4	L0807494-04		10:40			✓		2
5	L0807494-05		13:45			✓		2
6	L0807494-06		12:35			✓		1
7	L0807494-07		00:00			✓		2
8	L0807494-08		00:00			✓		2
9	L0807494-09		10:35			✓		2

PLEASE ANSWER QUESTIONS ABOVE!

Container Type	A	A	A
Preservative	A	H	A

IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By:	Date/Time	Received By:	Date/Time
<i>Paul Gilbert</i>	5/22/08	<i>Paul Gilbert</i>	5/22/08 18:25
	5/22/08 19:20		5/22/08 19:20

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.



A CHAIN OF CUSTODY

PAGE 1 OF 4

WESTBORO, MA TEL: 508-898-9220
 RAYNHAM, MA TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Date Rec'd in Lab: 5/21/08

ALPHA Job #: C0667494

Client Information

Client: ERM - BOSTON
 Address: 399 BOWLTON ST. 6th Floor
 BOSTON, MA 02116
 Phone: 617-646-7800
 Fax: 617-267-6447
 Email: jason.flattery@erm.com
 These samples have been previously analyzed by Alpha

Project Information

Project Name: RAMTHEON-WAYLAND
 Project Location: WAYLAND
 Project #: 0079387
 Project Manager: JASON FLATTERY
 ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)
 Date Due: 6/5/08 Time:

Report Information - Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #:

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 Protocols) Required?

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS										SAMPLE HANDLING		TOTAL # BOTTLES
80a1c by 8a60	Diss Na	Diss K	80a1c by 8a60							Filtration		
										<input checked="" type="checkbox"/> Done		
										<input type="checkbox"/> Not needed		
										<input type="checkbox"/> Lab to do Preservation		
										<input type="checkbox"/> Lab to do		
										(Please specify below)		
										Sample Specific Comments		

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS										TOTAL # BOTTLES		
		Date	Time			80a1c by 8a60	Diss Na	Diss K	80a1c by 8a60									
	MW-208S-20080520-01	5/20/08	12:30	GW	BM	2	1	1										4
	MW-208M-20080520-01	5/20/08	14:00		BM													2
	DUP-008-20080520-01		24:00		BM													1
	MW-203M-20080520-01		14:16		LK	2	1											3
	MW-106M-20080520-01		8:57		Dm	2	1											3
	MW-106-20080520-01		9:42		Dm	2	1											3
	MW-105M-20080520-01		12:32		Dm	2	1											3
	MW-105-20080520-01		11:35		Dm	2	1											3
	MW-104-20080520-01		16:35		Dm	2	1											3
	DUP-006-20080520-01		0:00		Dm	2	1											3

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Container Type: V P P V
 Preservative: B C C H

Relinquished By: *[Signature]* Date/Time: 5/21 9:40
 Received By: *[Signature]* Date/Time: 5/21 9:40

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

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



CHAIN OF CUSTODY

WESTBORO, MA RAYNHAM, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Date Rec'd in Lab: 5/21/08

ALPHA Job #: Logo 7494

Client Information

Client: ERM-BOSTON
 Address: 399 BOYLSTON ST. 6th FLOOR
BOSTON, MA 02116
 Phone: 617-646-7800
 Fax: 617-267-6447
 Email: jason.flattery@erm.com
 These samples have been previously analyzed by Alpha

Project Information

Project Name: RANTHEON-WAYLAND
 Project Location: WAYLAND, MA
 Project #: 0079387
 Project Manager: JASON FLATTERY
 ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)
 Date Due: 6/5/08 Time:

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program Criteria

MCP/GW-I

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
 80/20 C by 80/60
 Diss Na
 Diss K
 1,4 Dioxane

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

TOTAL # BOTTLES

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS										Sample Specific Comments	TOTAL # BOTTLES			
		Date	Time			1	2	3	4	5	6	7	8	9	10					
	MW-435-20080520-a	5/20/08	14:00	GW	DM	2	1													3
	MW-435-20080520-01-MS		14:00		DM	2														2
	MW-435-20080520-01-MSD		14:00		DM	2														2
	MW-203S-20080520-01		15:26		LR	2	1													3
7494-01	MW-33S-20080520-01		14:30		MS	2	1	1	2											6
	MW-33M-20080520-01	5/20/08	13:35		MS	2	1	1												4
	MW-40-20080520-01		10:00		MS	2	1													3
	MW-40-20080520-01-MS		10:00		MS	2														2
	MW-40-20080520-01-MSD		10:00		MS	2														2
	MW-40S-20080520-01	5/20/08	11:20	GW	MS	2	1													3

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
 MA MCP or CT RCP?

Container Type: V P P A
 Preservative: B C L A

Relinquished By: [Signature] Date/Time: 5/21 9:40
5/21
 Received By: [Signature] Date/Time: 5/21 9:40
5/21/08 13:00

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



(A)

CHAIN OF CUSTODY

PAGE 3 OF 4

WESTBORO, MA TEL: 508-898-9220
 RAYNHAM, MA TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

Date Rec'd in Lab: 5/21/08

ALPHA Job #: L0807444

Client Information

Client: ERM - BOSTON
 Address: 399 BOYLSTON ST. 6th FLOOR
BOSTON, MA 02116
 Phone: 617-646-7800
 Fax: 617-267-6447
 Email: jason.flattery@erm.com

Project Information

Project Name: RAVINEON-WAYLAND
 Project Location: WAYLAND MA
 Project #: 0079387
 Project Manager: JASON FLATTERY
 ALPHA Quote #:

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

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

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: 6/5/08 Time:

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

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS		SAMPLE HANDLING	
80alc by 8060		Filtration	
Diss Na		<input checked="" type="checkbox"/> Done	
80alc by 8060		<input type="checkbox"/> Not needed	
1,4 Dioxane		<input type="checkbox"/> Lab to do	
1,4 Dioxane		<input type="checkbox"/> Lab to do	
		(Please specify below)	
		Sample Specific Comments	

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	ANALYSIS										TOTAL # BOTTLES		
		Date	Time			80alc	80alc	1,4 Dioxane	1,4 Dioxane	1,4 Dioxane	1,4 Dioxane	1,4 Dioxane	1,4 Dioxane	1,4 Dioxane	1,4 Dioxane			
	MW-47D-20080520-01	5/28/08	9:50	GW	MD	2	1											3
-02	MW-47S-20080520-01		11:40		MD			2	2									24
-03	MW-201M-20080520-01		13:25		MD			2	2									4
	MW-47M-20080520-01		10:55		MD	2	1											3
	MW-214-20080520-01		15:40		JDF	2	1											3
	MW-103-20080520-01		9:20		JDF	2	1											3
-04	MW-213-20080520-01		10:40		JDF	2	1			2								5
-05	MW-102-20080520-01		13:45		JDF			2	2									4
-06	MW-403-20080520-01		12:35		JDF	2	1		1									4
-07	DUP-007-20080520-01		0:00		JDF	2				2								4

PLEASE ANSWER QUESTIONS ABOVE!

Container Type: V P V A A
 Preservative: B C H # A

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By:

Date/Time

Received By:

Date/Time

Jason Flattery

5/21 9:40
5/21

John Branch
Jason Flattery

5/21 9:40
5/21/08 13:00

Please print clearly, legibly and completely. Samples cannot be accepted and time and planning time etc. will not start until all approvals are received. All samples submitted are subject to Alpha's Payment Terms. See reverse side.



CHAIN OF CUSTODY

PAGE 4 OF 4

Date Rec'd In Lab: 5/21/08 ALPHA Job #: L0607494

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

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

Project Information

Project Name: RANTHEON-WAYLAND

Project Location: WAYLAND, MA

Project #: 6079387

Project Manager: JASON FLATTERY

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: 6/5/08 Time:

Report Information - Data Deliverables

FAX EMAIL

ADEX Add'l Deliverables

Billing Information

Same as Client info PO #:

Client Information

Client: ERM - BOSTON

Address: 399 BOYLSTON 6th FLOOR

BOSTON, MA 02116

Phone: 617-646-7800

Fax: 617-267-6447

Email: jason.flattery@erm.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

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 Protocols) Required?

ANALYSIS

8021C by Pab6
Diss Na
Piss K
1,4 Dioxane

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		Sample Matrix	Sampler's Initials	ANALYSIS										Sample Specific Comments	TOTAL # BOTTLES		
		Date	Time			8021C	Diss Na	Piss K	1,4 Dioxane										
	MW-201D-20080520-01	5/20/08	15:30	GW	MD	2	1												3
-09	MW-202M-20080520-01		16:35		MS	2	1	1											4
	DUP-004-20080520-01		0:00		MS	2	1												3
	DUP-005-20080520-01		0:00		MD	2	1												3
-06	DUP-009-20080520-01		0:00		MS	2		1	2										5
	MW-201S-20080520-01		16:50		MD	2	1												3

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Container Type	V	P	P	A
Preservative	B	C	C	A

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	5/29 9:46 AM	<i>[Signature]</i>	5/21 9:46 AM

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



Sample Delivery Group Form

Laboratory Job number: L0807494

Client Account: ERM-New England

Received: 05/21/2008 13:00

Samples Delivered by: COURIER

Bill Of Laden N/A

Trackingnum

Coc Present Present

Container Status Intact

Sample IDs

All Containers Accounted For? Yes

Were Extra Samples Received? Yes

MW-202M-20080520-01 sent samples for 1,4 Dioxane not noted on the COC

Do Sample Labels and COC agree? Yes

Are Samples in Appropriate Containers? Yes

Samples L0807494-02,03,05 Preserved with Na2S2O3.

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt 6

Are samples Properly Preserved? Yes

Initial pH preserved in house with

Final pH

Other Issues

Chlorine Check N/A

Are VOA/PH Vials Present? No

Aqueous: Do Vials Contain Head Space? N/A

Soils: Is MeOH Covering the Soil? N/A

Reagent H2O Preserved vials Frozen on N/A

Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temperature	Frozen upon Receipt	Delivered Direct from Site
B	Absent	Yes	No	3.7c - Temp. Blank	No	No



Sample Delivery Group Form

Cooler	Seal	Ice Present	Blue Ice Present	Temperature	Frozen upon Receipt	Delivered Direct from Site
C	Absent	Yes	No	4.7c - Temp. Blank	No	No
A	Absent	Yes	No	3.0c - Temp. Blank	No	No

Sample Receipt Checklist

Client: <u>ALPHA</u>	Receipt Date: <u>5/22/08</u>	
Project: <u>L0807494-ERM</u>	Log-in Date: <u>5/23/08</u>	
ETR #: <u>0805115</u>	Inspection by: <u>W</u>	Login by: <u>R</u>

ALL SECTIONS BELOW MUST BE COMPLETED

Comments / Notes

Were samples shipped? Yes, FedEx / UPS / Other: _____ No, Alpha Analytical Courier pick-up / Hand delivered	Sample storage refrigerator #: _____ Sample storage freezer #: _____
Is bill of lading retained? Yes, Tracking #: _____ No, Unavailable / <u>NA</u>	Cooler 2: _____ Cooler 3: _____ Cooler 4: _____ Cooler 5: _____ Cooler 6: _____ Cooler 7: _____ More: _____
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>4°</u> IR Gun, (Circle one) SN <u>460647143</u> or <u>94031</u> <u>4°</u> Temp. Blank, / NA	
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 <u>this</u> page.	
Were sample containers intact? <u>Yes</u> / No If No, list samples: →	
Did VOA/VPH waters contain headspace (>5mm)? Yes / No / <u>NA</u> 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? Yes / No / <u>NA</u> <input 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>N/A</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; Metals: 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

Client Information
Client: ERM-BOSTON
Address: 399 BOWLSTON ST. 6th FLOOR
BOSTON, MA 02116
Phone: 617-646-7800
Fax: 617-267-6447
Email: jason.flattery@erm.com
 These samples have been previously analyzed by Alpha

Project Information
Project Name: RAYTHEON-WAYLAND
Project Location: WAYLAND, MA
Project #: 0079307
Project Manager: JASON FLATTERY
ALPHA Quote #:
Turn-Around Time
 Standard RUSH (only confirmed if pre-approved!)
Date Due: 6/5/08 Time:

Report Information - Data Deliverables
 FAX EMAIL
 ADEx Add'l Deliverables

Billing Information
 Same as Client info PO #:

Regulatory Requirements/Report Limits
State /Fed Program: MCP/GW-2 Criteria:
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
soaic by 8:40
1:4-DROUNE

SAMPLE HANDLING
Filtration
 Done
 Not needed
 Lab to do
Preservation
 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		
		Date	Time																		
	MW-205D-20080520-01	5/20/08	11:20	GW	Bm	2															2
	MW-205M-20080520-01		10:10		Bm	2															2
	MW-205M-20080520-01-MS		10:10		Bm	2															2
	MW-205M-20080520-01-MSD		10:10		Bm	2															2
	MW-208D-20080520-01		15:10		Bm	2															2
	MW-45B-20080520-01		10:25		LR	2															2
	MW-45M-20080520-01		11:26		LR	2															2
7493-01	MW-45D-20080520-01		10:15		LR	2	2														4
	MW-216D-20080520-01		12:05		MS	2															2
-02	MW-268M-20080520-01		8:40		MS	2															2

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

Container Type: V/A
Preservative: B/H

Relinquished By: [Signature] Date/Time: 5/21/08 9:40
[Signature] Date/Time: 5/21/08 13:00

Received By: John Brand Date/Time: 5/21/08 9:40
[Signature] Date/Time: 5/21/08 13:00

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

Prepared for:

**Alpha Analytical - Westborough
8 Walkup Drive
Westborough, MA 01581**

Project: L0807493 - ERM
ETR: 0805114
Report Date: June 06, 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: **L0807493 - ERM**

Lab Code: **MA00030**
ETR: **0805114**

Lab Sample ID	Client Sample ID
0805114-01	MW-45D-20080520-01
0805114-02	MW-268M-20080520-01
0805114-03	DUP-003-20080520-01

CASE NARRATIVE

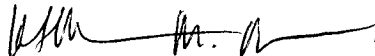
Alpha Analytical

ETR: 0805114

Project: L0807493-ERM

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.

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: Technical Representative Date: 6/6/08
Kathleen O'Brien

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1,4-Dioxane
By
8270

Form I

Semi-Volatile Organics by 8270



Client: **Alpha Analytical - Westborough**
 Project: **L0807493 - ERM**
 Client ID: **MW-45D-20080520-01**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0805114**
 Lab ID: **0805114-01**
 Associated Blank: **SW052308B05**
 Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/20/08	05/22/08	05/23/08	06/03/08	940	10	1	TLW

Parameter	Result
1,4-Dioxane	532 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	38	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Form I

Semi-Volatile Organics by 8270



Client: **Alpha Analytical - Westborough**
 Project: **L0807493 - ERM**
 Client ID: **MW-268M-20080520-01**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0805114**
 Lab ID: **0805114-02**
 Associated Blank: **SW052308B05**
 Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/20/08	05/22/08	05/23/08	06/03/08	900	10	1	TLW

Parameter	Result
1,4-Dioxane	33100

Surrogate	% Recovery	Acceptance Range (%)	N/A - Not Applicable
1,4-Dioxane-d8	38	15-110	

Form I

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807493 - ERM
Client ID: DUP-003-20080520-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805114
Lab ID: 0805114-03
Associated Blank: SW052308B05
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/20/08	05/22/08	05/23/08	06/03/08	980	10	1	TLW

Parameter	Result
1,4-Dioxane	35200

Surrogate	% Recovery	Acceptance Range (%)	N/A - Not Applicable
1,4-Dioxane-d8	37	15-110	

Form I

Semi-Volatile Organics by 8270



Client: **Alpha Analytical - Westborough**
 Project: **L0807493 - ERM**
 Client ID: **Blank**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0805114**
 Lab ID: **SW052308B05**
 Associated Blank: **N/A**
 Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	05/23/08	06/03/08	1000	10	1	TLW

Parameter	Result
1,4-Dioxane	500 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	33	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

06/05/08 14:39

**Form III
Spike Recovery Summary
Semi-Volatile Organics by 8270**



Client: **Alpha Analytical - Westborough**
 Project: **L0807493 - ERM**
 Client ID: **Laboratory Control Sample**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0805114**
 Lab ID: **See Below**
 Associated Blank: **SW052308B05**
 Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Analyst
N/A	N/A	05/23/08	TLW

Lab ID: SW052308B05 SW052308LCS04 SW052308LCSD04

Parameter	Blank Conc.	U	LCS		LCSD		% RPD	RPD % Recovery	
			Conc.	% Recovery	Conc.	% Recovery		Limit	Limits
1,4-Dioxane	500	U	4450	89	4550	91	2	30	40-140

Surrogate	% Recovery		Acceptance Range (%)
1,4-Dioxane-d8	38	32	15-110

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.

06/05/08 14:42

Chain of Custody Records



(E)

CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 5/21/08

ALPHA Job #: L0603498

WESTBORO, MA RAYNHAM, MA
TEL: 508-898-9220 TEL: 508-822-9300
FAX: 508-898-9193 FAX: 508-822-3288

Project Information

Project Name: LAUTHEOR-WAYLAND

Project Location: WAYLAND, MA

Project #: 0079387

Project Manager: JASON FLATTERY

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: 6/5/08 Time:

Report Information - Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #:

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 Protocols) Required?

Client Information

Client: ERM - BOSTON
Address: 399 BOWLTON ST. 6th Floor
BOSTON, MA 02116
Phone: 617-646-7800
Fax: 617-267-6447
Email: jason.flattery@erm.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS
1,4 Dioxane

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

Sample Specific Comments

TOTAL # BOTTLES 2

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials														
		Date	Time																
<u>7493-03</u>	<u>DUP-003-20080520-01</u>	<u>5/20/08</u>	<u>0:00</u>	<u>GW</u>	<u>MS</u>	<u>2</u>													

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Container Type A
Preservative X

Relinquished By:

Date/Time

Received By:

Date/Time

[Signature]

5/21 9:40
4/21 13:00

[Signature]
[Signature]

5/21 9:40
5/21/08 13:00

Please only analyze samples that are completely sealed. Samples that are not sealed in this manner may not be analyzed. See reverse side for more information.



Sample Delivery Group Form

Laboratory Job number: L0807493

Client Account: ERM-New England

Received: 05/21/2008 13:00

Samples Delivered by: COURIER
 Bill Of Laden N/A Trackingnum
 Coc Present Present

Container Status Intact Sample IDs

All Containers Accounted For? Yes
 Were Extra Samples Received? No
 Do Sample Labels and COC agree? Yes
 Are Samples in Appropriate Containers? Yes
 Sample L0807493-01 and -02 preserved with Na2S2O3
 Are Samples Received within Holding time? Yes

pH of Samples upon Receipt 6 Are samples Properly Preserved? Yes
 Initial pH preserved in house with Final pH
 Other Issues
 Chlorine Check N/A

Are VOA/VPH Vials Present? No
 Aqueous: Do Vials Contain Head Space? N/A
 Soils: Is MeOH covering the Soil? N/A
 Reagent H2O Preserved vials Frozen on N/A
 Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temperature	Frozen upon Receipt	Delivered Direct from Site
B	Absent	Yes	No	3.7c - Temp. Blank	No	No



Sample Delivery Group Form

Cooler	Seal	Ice Present	Blue Ice Present	Temperature	Frozen upon Receipt	Delivered Direct from Site
C	Absent	Yes	No	4.7c - Temp. Blank	No	No
A	Absent	Yes	No	3.0c - Temp. Blank	No	No

Sample Receipt Checklist

Client: <u>ALPHA</u>	Receipt Date: <u>5/22/08</u>
Project: <u>L0807493 - ERM</u>	Log-in Date: <u>5/23/08</u>
ETR #: <u>0805114</u>	Inspection by: <u>W</u> Login by: <u>W</u>

ALL SECTIONS BELOW MUST BE COMPLETED	Comments / Notes
Were samples shipped? Yes, FedEx / UPS / Other: _____ <input checked="" type="radio"/> No, Alpha Analytical Courier pick-up / Hand delivered	Sample storage refrigerator #: <u>3</u> Sample storage freezer #: _____ Cooler 2: _____ Cooler 3: _____ Cooler 4: _____ Cooler 5: _____ Cooler 6: _____ Cooler 7: _____ More: _____
Is bill of lading retained? Yes, Tracking #: _____ No, Unavailable / <input checked="" type="radio"/> NA	
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>4°</u> IR Gun, (Circle one) SN <u>450647143</u> or 94031 <u>4°</u> Temp. Blank, / NA	
Were samples received on ice? <input checked="" type="radio"/> Yes / No	
Chain-of-Custody present? <input checked="" type="radio"/> Yes / No Complete? <input checked="" type="radio"/> Yes / No	
Custody seals present on Cooler? Yes / <input checked="" type="radio"/> No on Bottles? Yes / <input checked="" type="radio"/> No Intact? Yes / No / <input checked="" type="radio"/> NA Note: Affix custody seals to back of this page.	
Were sample containers intact? <input checked="" type="radio"/> Yes / No If No, list samples: →	
Did VOA/VPH waters contain headspace (>5mm)? Yes / No / <input checked="" type="radio"/> NA If Yes, list samples: →	
Were 5035 VOA soils, or VPH soils, covered with MeOH? Yes / No / <input checked="" type="radio"/> NA If No, list samples: →	
Was a sufficient amount of sample received for each test indicated on the COC? <input checked="" type="radio"/> Yes / No If No, list samples: →	
If chemical preservation is appropriate - Were samples field preserved? Yes / No / <input checked="" type="radio"/> NA <input 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	
Preservation (pH) verified at lab for EVERY bottle? (Not: VOA / VPH / Sulfide) YES: <2 or >12 (CN) or NO <input checked="" type="radio"/> NA If No, why?:	
Were samples received within hold time? <input checked="" type="radio"/> Yes / No If No, list samples: →	
Discrepancy between samples rec'd & COC? Yes / <input checked="" type="radio"/> 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; Metals: 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-Portable 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

E



CHAIN OF CUSTODY

PAGE 1 OF 1

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

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

Project Information

Project Name: RAYTHRON-WAYLAND
Project Location: WAYLAND, MA
Project #: 00793B7
Project Manager: JASON FLATTERY
ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)
Date Due: 6/4/08 Time:

Client Information

Client: ERM-BOSTON
Address: 399 BOWLSTON ST. 6th FLOOR
BOSTON, MA 02116
Phone: 617-646-7800
Fax: 617-267-6447
Email: jason.flattery@erm.com
 These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Date Rec'd in Lab: 5/20/08

Report Information - Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

ALPHA Job #: L0607339

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program: MCP GW-1
Criteria:

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	SAMPLE HANDLING	TOTAL # BOTTLES	
<u>EDZIC by B260</u> <u>Asst-PLA</u> <u>1,4-Dioxane</u>	Filtration <input checked="" type="checkbox"/> Done <input type="checkbox"/> Not needed <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please specify below)		
	Sample Specific Comments		
			2
			2
			2
			2

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials					
		Date	Time							
	MW-207M-20080519-01	5/19/08	16:50	GW	JDF	2				
	MW-207S-20080519-01	5/19/08	15:25	GW	JDF	2				
7339-01	MW-44S-20080519-01	5/19/08	14:10	GW	JDF		2			
-02	MW-261S-20080519-01	5/19/08	12:35	GW	MS		2			
-03	MW-55Z-20080519-01	5/19/08	14:10	GW	MS		2			
-04	MW-267M-20080519-01	5/19/08	16:50	GW	MS		2			

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type	<u>V P A</u>		
Preservative	<u>B C H</u>		
Relinquished By:	Date/Time	Received By:	Date/Time
<u>[Signature]</u>	<u>5/20 13:00</u>	<u>[Signature]</u>	<u>5/20 13:00</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

Prepared for:

**Alpha Analytical - Westborough
8 Walkup Drive
Westborough, MA 01581**

Project: L0807339 - ERM
ETR: 0805105
Report Date: June 04, 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: **L0807339 - ERM**

Lab Code: **MA00030**
ETR: **0805105**



Lab Sample ID	Client Sample ID
0805105-01	MW-44S-20080519-01
0805105-02	MW-261S-20080519-01
0805105-03	MW-552-20080519-01
0805105-04	MW-267M-20080519-01

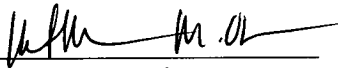
CASE NARRATIVE

Alpha Analytical

ETR: 0805105
Project: L0807339-ERM

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.

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: Technical Representative Date: 6/4/08
Kathleen O'Brien

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1,4-Dioxane
By
8270

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807339 - ERM
Client ID: MW-44S-20080519-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805105
Lab ID: 0805105-01
Associated Blank: SW052208B05
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/19/08	05/20/08	05/22/08	05/30/08	1000	10	1	TLW

Parameter	Result
1,4-Dioxane	500 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	29	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807339 - ERM
Client ID: MW-261S-20080519-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805105
Lab ID: 0805105-02
Associated Blank: SW052208B05
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/19/08	05/20/08	05/22/08	05/30/08	950	10	1	TLW

Parameter	Result
1,4-Dioxane	6120

Surrogate	% Recovery	Acceptance Range (%)	N/A - Not Applicable
1,4-Dioxane-d8	30	15-110	

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807339 - ERM
Client ID: MW-552-20080519-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805105
Lab ID: 0805105-03
Associated Blank: SW052208B05
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/19/08	05/20/08	05/22/08	05/30/08	950	10	1	TLW

Parameter	Result
1,4-Dioxane	13100

Surrogate	% Recovery	Acceptance Range (%)	N/A - Not Applicable
1,4-Dioxane-d8	30	15-110	

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807339 - ERM
Client ID: MW-267M-20080519-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805105
Lab ID: 0805105-04
Associated Blank: SW052208B05
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/19/08	05/20/08	05/22/08	05/30/08	960	10	1	TLW

Parameter	Result
1,4-Dioxane	7180

Surrogate	% Recovery	Acceptance Range (%)	N/A - Not Applicable
1,4-Dioxane-d8	28	15-110	

Blank Semi-Volatile Organics by 8270



Client: **Alpha Analytical - Westborough**
 Project: **L0807339 - ERM**
 Client ID: **Blank**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0805105**
 Lab ID: **SW052208B05**
 Associated Blank: **N/A**
 Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	05/22/08	05/29/08	1000	10	1	TLW

Parameter	Result
1,4-Dioxane	500 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	32	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Laboratory Control Summary Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807339 - ERM
Client ID: Laboratory Control Sample
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805105
Lab ID: See Below
Associated Blank: SW052208B05
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Analyst
N/A	N/A	05/22/08	TLW

Lab ID: SW052208B05 SW052208LCS01 SW052208LCSD01

Parameter	Blank Conc.	LCS Conc.	% Recovery	LCSD Conc.	% Recovery	% RPD	RPD % Recovery Limit	Limits
1,4-Dioxane	500 U	4550	91	4690	94	3	30	40-140

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	31 33	15-110

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.

06/04/08 12:34

320 Forbes Blvd, Mansfield, MA 02048, (508) 822-9300, Fax (508) 822-3288

Chain of Custody Records

Mansfield

 <p>CHAIN OF CUSTODY PAGE <u>1</u> OF <u>1</u></p>		<p>Date Rec'd In Lab:</p>		<p>ALPHA Job #: <u>0805705</u></p>	
<p>WESTBORO, MA MANSFIELD, MA TEL: 508-898-9220 TEL: 508-822-9300 FAX: 508-898-9193 FAX: 508-822-3288</p>		<p>Project Information</p>		<p>Report Information - Data Deliverables</p>	
<p>Client Information</p>		<p>Project Name:</p>		<p><input type="checkbox"/> FAX <input type="checkbox"/> EMAIL <input type="checkbox"/> ADEx <input type="checkbox"/> Add'l Deliverables</p>	
<p>Client: <u>www Alpha Analytical</u></p>		<p>Project Location: <u>MA</u></p>		<p>Billing Information</p>	
<p>Address: <u>Westboro, MA</u></p>		<p>Project #:</p>		<p><input type="checkbox"/> Same as Client info PO #:</p>	
<p>Project Manager: <u>M. Beaujeu</u></p>		<p>Project Manager: <u>M. Beaujeu</u></p>		<p>Regulatory Requirements/Report Limits</p>	
<p>ALPHA Quote #:</p>		<p>ALPHA Quote #:</p>		<p>State /Fed Program Criteria</p>	
<p>Phone:</p>		<p>Turn-Around Time</p>		<p>MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS</p>	
<p>Fax:</p>		<p><input checked="" type="checkbox"/> Standard <input type="checkbox"/> RUSH (only confirmed if pre-approved!)</p>		<p><input type="checkbox"/> Yes <input type="checkbox"/> No Are MCP Analytical Methods Required? <input type="checkbox"/> Yes <input type="checkbox"/> No Are CT RCP (Reasonable Confidence Protocols) Required?</p>	
<p>Email:</p>		<p>Date Due: <u>6/4/08</u> Time:</p>		<p>ANALYSIS <u>1,4-Dioxane</u></p>	
<p><input type="checkbox"/> These samples have been previously analyzed by Alpha</p>		<p>Other Project Specific Requirements/Comments/Detection Limits:</p>		<p>SAMPLE HANDLING</p>	
<p>Other Project Specific Requirements/Comments/Detection Limits:</p>		<p>Sample Specific Comments</p>		<p>Filtration <input type="checkbox"/> Done <input type="checkbox"/> Not needed <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please specify below)</p>	
<p>ALPHA Lab ID (Lab Use Only)</p>		<p>Sample ID</p>		<p>Collection Date Time</p>	
<p>Sample Matrix</p>		<p>Sampler's Initials</p>		<p>TOTAL # BOTTLES</p>	
<p><u>1</u> <u>L0807339-01</u></p>		<p><u>5/19/08</u> <u>14:10</u></p>		<p><u>GW</u> <u>✓</u></p>	
<p><u>-2</u> <u>L0807339-02</u></p>		<p><u>12:35</u></p>		<p><u>✓</u></p>	
<p><u>-3</u> <u>L0807339-03</u></p>		<p><u>14:10</u></p>		<p><u>✓</u></p>	
<p><u>-4</u> <u>L0807339-04</u></p>		<p><u>16:50</u></p>		<p><u>✓</u></p>	
<p>PLEASE ANSWER QUESTIONS ABOVE!</p>		<p>Container Type <u>A</u></p>		<p>Preservative <u>A</u></p>	
<p>IS YOUR PROJECT MA MCP or CT RCP?</p>		<p>Relinquished By: <u>Paul Gilbert</u></p>		<p>Received By: <u>Paul Gilbert</u></p>	
<p>FORMNO: 01-01 (rev. 30-JUL-07)</p>		<p>Date/Time: <u>5/20/08 18:55</u></p>		<p>Date/Time: <u>5/20/08 18:10</u></p>	
<p></p>		<p>Date/Time: <u>5/20/08 18:55</u></p>		<p>Date/Time: <u>5/20/08 18:55</u></p>	
<p>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.</p>					



Sample Delivery Group Form

Laboratory Job number: L0807339

Client Account: ERM-New England

Received: 05/20/2008 13:00

Samples Delivered by: COURIER
 Bill Of Laden N/A Trackingnum
 Coc Present Present

Container Status Intact Sample IDs

All Containers Accounted For? Yes
 Were Extra Samples Received? No
 Do Sample Labels and COC agree? Yes
 Are Samples in Appropriate Containers? Yes
 Are Samples Received within Holding time? Yes

pH of Samples upon Receipt 6 Are samples Properly Preserved? Yes
 Initial pH preserved in house with Final pH
 Other Issues
 Chlorine Check NA

Are VOA/VPV Vials Present? No
 Aqueous: Do Vials Contain Head Space? N/A
 Soils: Is MeOH Covering the Soil? N/A
 Reagent H2O Preserved vials Frozen on Frozen N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temperature	Frozen upon Receipt	Delivered Direct from Site
A	Absent	Yes	No	3.5c - Temp. Blank	No	No

Sample Receipt Checklist

Client: <u>Alpha</u>	Receipt Date: <u>5/22/08</u>	
Project:	Log-in Date: <u>5/21/09</u>	
ETR #: <u>0805705</u>	Inspection by: <u>ES</u>	Login by: <u>w</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>C3</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>2</u>	Cooler 2: <u>6/4</u> Cooler 3: _____ Cooler 4: _____ Cooler 5: _____ Cooler 6: _____ Cooler 7: _____ More: _____
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>63</u> IR Gun, (Circle one) SN 460647143 or 94031 _____ Temp. Blank, / NA 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 <u>this</u> page.	
Were sample containers intact? <u>Yes</u> / No If No, list samples: →	
Did VOA/VPH waters contain headspace (>5mm)? Yes / No / <u>NA</u> 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? Yes / No / <u>NA</u> <input 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>N/A</u> If No, list samples below:
Preservation (pH) verified at lab for <u>EVERY</u> 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; Metals: 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



CHAIN OF CUSTODY

PAGE 1 OF 2

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

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

Date Rec'd in Lab: 5/20/08

ALPHA Job #: L0507335

Project Information

Project Name: RAVINEON WAYLAND
Project Location: WAYLAND, MA
Project #: 0079387
Project Manager: JASON FLATTERY
ALPHA Quote #:

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #:

Client Information

Client: ERM - BOSTON
Address: 399 BOYLSTON ST 6th FLOOR
BOSTON, MA 02116
Phone: 617-646-7800
Fax: 617-267-6447
Email: jason.flattery@erm.com
 These samples have been previously analyzed by Alpha

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)
Date Due: 6/4/08 Time:

Regulatory Requirements/Report Limits

State /Fed Program: MCP GW-1 Criteria:

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
B267 by B260
DUG Na
B261c by B260
1.4 Diex rca

SAMPLE HANDLING
Filtration
 Done
 Not needed
 Lab to do
Preservation
 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	
		Date	Time							
	MW-204D-20080519-01	5/19/08	14:20	GW	BM	2	1			3
	DUP-001-20080519-01	5/19/08	24:00	GW	BM	2	1			3
	MW-204S-20080519-01	5/19/08	15:15	GW	B	2	1			3
	MW-204M-20080519-01	5/19/08	16:30	GW	B	2	1			3
7335 - 01	MW-113-20080519-01	5/19/08	12:06	GW	JDF		2	2		4
- 02	MW-115-20080519-01	5/19/08	14:20	GW	JDF		2	2		4
	MW-109-20080519-01	5/19/08	16:08	GW	JDF		2			2
	MW-209-20080519-01	5/19/08	16:20	GW	DM	2	1			3
	MW-210-20080519-01	5/19/08	15:27	GW	DM	2	1			3
	MW-211-20080519-01	5/19/08	14:32	GW	DM	2	1			3

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT MA MCP or CT RCP?

Container Type: V P V A
Preservative: B C H H

Relinquished By: [Signature] Date/Time: 5/20/08 13:00
Received By: [Signature] Date/Time: 5/20/08 13:00

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.

A



CHAIN OF CUSTODY

PAGE 2 OF 2

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

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

Date Rec'd in Lab: 5/20/08

ALPHA Job #: L0607335

Client Information

Client: ERM - BOSTON
 Address: 399 BOWLSTON ST. 6th FLOOR
BOSTON, MA 02116
 Phone: 617-646-7800
 Fax: 617-267-6447
 Email: jason.flattery@erm.com

Project Information

Project Name: RAMTHORN-WAYLAND
 Project Location: WAYLAND, MA
 Project #: 0079387
 Project Manager: JASON FLATTERY
 ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!!)
 Date Due: 6/4/08 Time:

Report Information - Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State / Fed Program: MCP CIV-1
 Criteria:

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
8/2/08 by 0260
PUR NG (F)
14-DICKER

SAMPLE HANDLING
 Filtration
 Done
 Not needed
 Lab to do
 Preservation
 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								
	MW-212-20080519-01	5/19/08	13:05	GW	DM	2	1				3
	MW-212M-20080519-01	5/19/08	12:15	GW	DM	2	1				3
	DUP-002-20080519-01	5/19/08	0:00	GW	DM	2	1				3
	MW-207M-20080519-01	5/19/08	13:50	GW	DM	2	1				2
7335 -03	MW-46M-20080519-01	5/19/08	12:40	GW	JDF						2

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
 MA MCP or CT RCP?

Container Type: V P A
 Preservative: B C H

Relinquished By: [Signature] Date/Time: 5/20/08 13:00
 Received By: [Signature] Date/Time: 5/20/08 13:00

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

Prepared for:

**Alpha Analytical - Westborough
8 Walkup Drive
Westborough, MA 01581**

Project: L0807335 - ERM
ETR: 0805104
Report Date: June 02, 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: L0807335 - ERM

Lab Code: MA00030
ETR: 0805104

Lab Sample ID	Client Sample ID
<u>0805104-01</u>	<u>MW-113-20080519-01</u>
<u>0805104-02</u>	<u>MW-115-20080519-01</u>
<u>0805104-03</u>	<u>MW-46M-20080519-01</u>

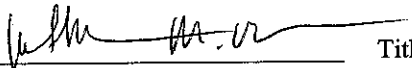
CASE NARRATIVE

Alpha Analytical

ETR: 0805104
Project: L0807335-ERM

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.

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: Technical Representative Date: 6/2/08
Kathleen O'Brien

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O:\Report\NARRTEMP\2008\Alpha\0805104.doc

1,4-Dioxane
By
8270

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807335 - ERM
Client ID: MW-113-20080519-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805104
Lab ID: 0805104-01
Associated Blank: SW052208B05
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/19/08	05/20/08	05/22/08	05/29/08	1000	10	1	TLW

Parameter	Result
1,4-Dioxane	500 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	30	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807335 - ERM
Client ID: MW-115-20080519-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805104
Lab ID: 0805104-02
Associated Blank: SW052208B05
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/19/08	05/20/08	05/22/08	05/29/08	1000	10	1	TLW

Parameter	Result
1,4-Dioxane	500 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	28	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Semi-Volatile Organics by 8270



Client: Alpha Analytical - Westborough
Project: L0807335 - ERM
Client ID: MW-46M-20080519-01
Case: N/A **SDG:** N/A
Matrix: Water

Lab Code: MA00030
ETR: 0805104
Lab ID: 0805104-03
Associated Blank: SW052208B05
Concentration Units: ng/L

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
05/19/08	05/20/08	05/22/08	05/30/08	1000	10	1	TLW

Parameter	Result
1,4-Dioxane	1350

Surrogate	% Recovery	Acceptance Range (%)	N/A - Not Applicable
1,4-Dioxane-d8	30	15-110	

Blank Semi-Volatile Organics by 8270



Client: **Alpha Analytical - Westborough**
 Project: **L0807335 - ERM**
 Client ID: **Blank**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0805104**
 Lab ID: **SW052208B05**
 Associated Blank: **N/A**
 Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Date Analyzed	Sample Amount (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	05/22/08	05/29/08	1000	10	1	TLW

Parameter	Result
1,4-Dioxane	500 U

Surrogate	% Recovery	Acceptance Range (%)
1,4-Dioxane-d8	32	15-110

N/A - Not Applicable
 U - The analyte was analyzed for but not detected at the sample specific level reported.

Laboratory Control Summary Semi-Volatile Organics by 8270



Client: **Alpha Analytical - Westborough**
 Project: **L0807335 - ERM**
 Client ID: **Laboratory Control Sample**
 Case: **N/A** SDG: **N/A**
 Matrix: **Water**

Lab Code: **MA00030**
 ETR: **0805104**
 Lab ID: **See Below**
 Associated Blank: **SW052208B05**
 Concentration Units: **ng/L**

Date Collected	Date Received	Date Extracted	Analyst
N/A	N/A	05/22/08	TLW

Lab ID: SW052208B05 SW052208LCS01 SW052208LCSD01

Parameter	Blank Conc.	LCS Conc. % Recovery	LCSD Conc. % Recovery	% RPD	RPD % Recovery Limit Limits
1,4-Dioxane	500 U	4550 91	4690 94	3	30 40-140

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptance Range (%)</u>
1,4-Dioxane-d8	31 33	15-110

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.

05/30/08 15:34

Chain of Custody Records



CHAIN OF CUSTODY

PAGE 1 OF 2

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

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

Date Rec'd in Lab: 5/20/08

ALPHA Job #: L0607335

Project Information

Project Name: RAMMEDIUM WAYLAND

Project Location: WAYLAND, MA

Project #: 0079387

Project Manager: JASON FLATTERY

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: 6/4/08 Time:

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client Info PO #:

Client Information

Client: ERM - BOSTON

Address: 399 BOYLSTON ST 6th FLOOR
BOSTON, MA 02116

Phone: 617-646-7800

Fax: 617-267-6447

Email: jason.flattery@erm.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Regulatory Requirements/Report Limits

State /Fed Program Criteria

MCP GW1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTOCOLS

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)

TOTAL # BOTTLES

SAMPLE SPECIFIC COMMENTS

B260 ANALYSIS

DUG N/A

B021 c by B260

14-Dioxane

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	TOTAL # BOTTLES	
		Date	Time				
	MW-204D-20080519-01	5/19/08	14:20	GW	BM	2	1
	DUP-001-20080519-01	5/19/08	24:00	GW	BM	2	1
	MW-204S-20080519-01	5/19/08	15:15	GW	B	2	1
	MW-204M-20080519-01	5/19/08	16:30	GW	B	2	1
7335 - 01	MW-113-20080519-01	5/19/08	12:06	GW	JDF	2	2
- 02	MW-115-20080519-01	5/19/08	14:20	GW	JDF	2	2
	MW-109-20080519-01	5/19/08	16:08	GW	JDF	2	
	MW-209-20080519-01	5/19/08	16:20	GW	DM	2	1
	MW-210-20080519-01	5/19/08	15:27	GW	DM	2	1
	MW-211-20080519-01	5/19/08	14:32	GW	DM	2	1

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type V P V A
Preservative B C H H

Relinquished By:

Date/Time

Received By:

Date/Time

[Signature] 5/20/08 *[Signature]* 5/20/08 13:00

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



CHAIN OF CUSTODY

PAGE 2 OF 2

Date Rec'd in Lab: 5/20/08

ALPHA Job #: 2060-7335

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

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

Project Information

Project Name: RAMTHF01-WAYLAND
Project Location: WAYLAND, MA
Project #: 0079387
Project Manager: JASON FLATTERY
ALPHA Quote #:

Report Information - Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client info PO #:

Client Information

Client: ERM - BOSTON
Address: 399 BOWLSTON ST. 6th FLOOR
BOSTON, MA 02116
Phone: 617-646-7800
Fax: 617-267-6447
Email: jason.flattery@erm.com
 These samples have been previously analyzed by Alpha

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)
Date Due: 6/4/08 Time:

Regulatory Requirements/Report Limits

State / Fed Program: MCP GW-1 Criteria:
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
EDIC 6/8/08
PURNA (FF)
14-Dioxane

SAMPLE HANDLING
Filtration
 Done
 Not needed
 Lab to do
Preservation
 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	
		Date	Time								
	MW-212-20080519-01	5/19/08	13:05	GW	DM	2	1				3
	MW-212M-20080519-01	5/19/08	12:15	GW	DM	2	1				3
	DUP-002-20080519-01	5/19/08	0:00	GW	DM	2	1				3
	MW-257M-20080519-01	5/19/08	16:50	GW	JDF	2	1				2
7335 - 03	MW-46M-20080519-01	5/19/08	12:40	GW	JDF	2					2

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Container Type: V P A
Preservative: B C H

Relinquished By: [Signature] Date/Time: 5/20/08 13:00
Received By: [Signature] Date/Time: 5/20/08 13:00

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.



Sample Delivery Group Form

Laboratory Job number: L0807335

Client Account: ERM-New England

Received: 05/20/2008 13:00

Samples Delivered by: COURIER

Bill Of Laden: N/A

Trackingnum

Coc Present: Present

Container Status: Intact

Sample IDs

All Containers Accounted For? Yes

Were Extra Samples Received? No

Do Sample Labels and COC agree? Yes

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt: 6

Are samples Properly Preserved? Yes

Initial pH: preserved in house with

Final pH

Other Issues

Chlorine Check: NA

Are VOA/VPH Vials Present? No

Aqueous: Do Vials Contain Head Space? N/A

Soils: Is MeOH Covering the Soil? N/A

Reagent H2O Preserved vials Frozen on

Frozen: N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temperature	Frozen upon Receipt	Delivered Direct from Site
A	Absent	Yes	No	3.5c - Temp. Blank	No	No

Sample Receipt Checklist

Client: <u>Alpha</u>	Receipt Date: <u>5/20/08</u>
Project:	Log-in Date: <u>5/21/08</u>
ETR #: <u>0805704</u>	Inspection by: <u>ES</u> Login by: <u>W</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>C3</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>2</u>	Cooler 2: <u>6/4</u> Cooler 3: _____ Cooler 4: _____ Cooler 5: _____ Cooler 6: _____ Cooler 7: _____ More: _____
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>63</u> IR Gun, (Circle one) SN 460647143 or 94031 <u>5</u> Temp. Blank, / NA 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 / No <u>NA</u> 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? Yes / No / <u>NA</u> <input 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>N/A</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; Metals: 200.8, 8030;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-Portable 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:	L0807587
Client:	ERM-New England 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Project Name:	RAYTHEON WAYLAND
Project Number:	0079387
Report Date:	05/30/08

Certifications & Approvals: MA (M-MA086), NY NELAC (11148), CT (PH-0574), NH (2003), NJ (MA935), RI (LAO00065), ME (MA0086), 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: L0807587
Report Date: 05/30/08

Alpha Sample ID	Client ID	Sample Location
L0807587-01	MW-111-20080522-01	WAYLAND, MA
L0807587-02	MW-107-20080522-01	WAYLAND, MA
L0807587-03	TB-002-20080522-01	WAYLAND, MA

Project Name: RAYTHEON WAYLAND

Lab Number: L0807587

Project Number: 0079387

Report Date: 05/30/08

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?	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: 0079387

Lab Number: L0807587
Report Date: 05/30/08

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

MCP Related Narratives

1,4-Dioxane

The analysis of 1,4-Dioxane by method 8270-SIM isotope dilution is being performed at our Mansfield facility, and the results will be issued under separate cover.

Volatile Organics

L0807587-01, -02: The pH of each sample was greater than two; however, the samples were analyzed within the method required holding time.

In reference to question E:

The WG323629-1/2 LCS/LCSD recoveries, associated with L0807587-01, -02, and -03, are below the acceptance criteria for Dichlorodifluoromethane; however, it has been identified as a "difficult" analyte. The results of the associated samples are reported; however, all results are considered to have a potentially low

Project Name: RAYTHEON WAYLAND
Project Number: 0079387

Lab Number: L0807587
Report Date: 05/30/08

Case Narrative (continued)

bias for this compound.

In reference to question F:

All samples were analyzed for a subset of MCP compounds 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: 05/30/08

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND

Lab Number: L0807587

Project Number: 0079387

Report Date: 05/30/08

SAMPLE RESULTS

Lab ID: L0807587-01
 Client ID: MW-111-20080522-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/29/08 18:52
 Analyst: GK

Date Collected: 05/22/08 07:50
 Date Received: 05/22/08
 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
1,1,1,2-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	2.4		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
1,1,1,2,2-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	4.8		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:** L0807587**Project Number:** 0079387**Report Date:** 05/30/08**SAMPLE RESULTS**

Lab ID: L0807587-01
 Client ID: MW-111-20080522-01
 Sample Location: WAYLAND, MA

Date Collected: 05/22/08 07:50
 Date Received: 05/22/08
 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	105		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

Project Name: RAYTHEON WAYLAND

Lab Number: L0807587

Project Number: 0079387

Report Date: 05/30/08

SAMPLE RESULTS

Lab ID: L0807587-02
 Client ID: MW-107-20080522-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/29/08 19:25
 Analyst: GK

Date Collected: 05/22/08 12:25
 Date Received: 05/22/08
 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
1,1,1,2-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
1,1,1,2,2-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	0.58		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	7.0		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	47		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:** L0807587**Project Number:** 0079387**Report Date:** 05/30/08**SAMPLE RESULTS**

Lab ID: L0807587-02
 Client ID: MW-107-20080522-01
 Sample Location: WAYLAND, MA

Date Collected: 05/22/08 12:25
 Date Received: 05/22/08
 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	102		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	95		70-130

Project Name: RAYTHEON WAYLAND

Lab Number: L0807587

Project Number: 0079387

Report Date: 05/30/08

SAMPLE RESULTS

Lab ID: L0807587-03
 Client ID: TB-002-20080522-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/29/08 19:59
 Analyst: GK

Date Collected: 05/20/08 19:00
 Date Received: 05/22/08
 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
1,1,1,2-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
1,1,1,2,2-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:** L0807587**Project Number:** 0079387**Report Date:** 05/30/08**SAMPLE RESULTS**

Lab ID: L0807587-03
 Client ID: TB-002-20080522-01
 Sample Location: WAYLAND, MA

Date Collected: 05/20/08 19:00
 Date Received: 05/22/08
 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	103		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	101		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0079387

Lab Number: L0807587
Report Date: 05/30/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/29/08 10:27
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-03 Batch: WG323629-3				

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: 0079387

Lab Number: L0807587
Report Date: 05/30/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/29/08 10:27
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-03 Batch: WG323629-3				

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 WAYLAND
Project Number: 0079387

Lab Number: L0807587
Report Date: 05/30/08

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 05/29/08 10:27
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-03 Batch: WG323629-3				

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	102		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0807587

Project Number: 0079387

Report Date: 05/30/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03 Batch: WG323629-1 WG323629-2					
Methylene chloride	88	88	70-130	0	25
1,1-Dichloroethane	94	91	70-130	3	25
Chloroform	97	95	70-130	2	25
Carbon tetrachloride	94	87	70-130	8	25
1,2-Dichloropropane	102	101	70-130	1	25
Dibromochloromethane	98	98	70-130	0	25
1,1,2-Trichloroethane	102	104	70-130	2	25
Tetrachloroethene	93	89	70-130	4	25
Chlorobenzene	98	95	70-130	3	25
Trichlorofluoromethane	113	108	70-130	5	25
1,2-Dichloroethane	100	103	70-130	3	25
1,1,1-Trichloroethane	96	92	70-130	4	25
Bromodichloromethane	100	105	70-130	5	25
trans-1,3-Dichloropropene	92	91	70-130	1	25
cis-1,3-Dichloropropene	92	94	70-130	2	25
1,1-Dichloropropene	95	89	70-130	7	25
Bromoform	99	98	70-130	1	50
1,1,2,2-Tetrachloroethane	101	106	70-130	5	25
Benzene	100	95	70-130	5	25
Toluene	106	94	70-130	12	25
Ethylbenzene	106	94	70-130	12	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0807587

Project Number: 0079387

Report Date: 05/30/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03 Batch: WG323629-1 WG323629-2					
Chloromethane	84	81	70-130	4	50
Bromomethane	102	96	70-130	6	50
Vinyl chloride	90	87	70-130	3	25
Chloroethane	105	94	70-130	11	25
1,1-Dichloroethene	94	89	70-130	5	25
trans-1,2-Dichloroethene	90	88	70-130	2	25
Trichloroethene	95	97	70-130	2	25
1,2-Dichlorobenzene	102	108	70-130	6	25
1,3-Dichlorobenzene	95	98	70-130	3	25
1,4-Dichlorobenzene	99	98	70-130	1	25
Methyl tert butyl ether	88	92	70-130	4	25
p/m-Xylene	107	93	70-130	14	25
o-Xylene	100	91	70-130	9	25
cis-1,2-Dichloroethene	94	92	70-130	2	25
Dibromomethane	94	102	70-130	8	25
1,2,3-Trichloropropane	109	120	70-130	10	25
Styrene	100	91	70-130	9	25
Dichlorodifluoromethane	68	64	70-130	6	50
Acetone	72	85	70-130	17	50
Carbon disulfide	73	72	70-130	1	25
2-Butanone	94	94	70-130	0	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0807587

Project Number: 0079387

Report Date: 05/30/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03 Batch: WG323629-1 WG323629-2					
4-Methyl-2-pentanone	92	99	70-130	7	50
2-Hexanone	88	94	70-130	7	50
Bromochloromethane	93	96	70-130	3	25
Tetrahydrofuran	91	89	70-130	2	25
2,2-Dichloropropane	98	92	70-130	6	50
1,2-Dibromoethane	100	98	70-130	2	25
1,3-Dichloropropane	94	96	70-130	2	25
1,1,1,2-Tetrachloroethane	102	97	70-130	5	25
Bromobenzene	96	97	70-130	1	25
n-Butylbenzene	105	112	70-130	6	25
sec-Butylbenzene	97	104	70-130	7	25
tert-Butylbenzene	100	106	70-130	6	25
o-Chlorotoluene	97	99	70-130	2	25
p-Chlorotoluene	98	100	70-130	2	25
1,2-Dibromo-3-chloropropane	101	105	70-130	4	50
Hexachlorobutadiene	95	106	70-130	11	25
Isopropylbenzene	124	116	70-130	7	25
p-Isopropyltoluene	100	105	70-130	5	25
Naphthalene	88	95	70-130	8	25
n-Propylbenzene	101	103	70-130	2	25
1,2,3-Trichlorobenzene	98	110	70-130	12	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0807587

Project Number: 0079387

Report Date: 05/30/08

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-03 Batch: WG323629-1 WG323629-2					
1,2,4-Trichlorobenzene	95	102	70-130	7	25
1,3,5-Trimethylbenzene	98	102	70-130	4	25
1,2,4-Trimethylbenzene	96	104	70-130	8	25
Ethyl ether	85	91	70-130	7	25
Isopropyl Ether	90	83	70-130	8	25
Ethyl-Tert-Butyl-Ether	87	90	70-130	3	25
Tertiary-Amyl Methyl Ether	86	88	70-130	2	25
1,4-Dioxane	124	141	70-130	13	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		102		70-130
Toluene-d8	104		99		70-130
4-Bromofluorobenzene	99		107		70-130
Dibromofluoromethane	102		99		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0807587**Project Number:** 0079387**Report Date:** 05/30/08**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
L0807587-01A	Vial Na ₂ S ₂ O ₃ preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807587-01B	Vial Na ₂ S ₂ O ₃ preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807587-02A	Vial Na ₂ S ₂ O ₃ preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807587-02B	Vial Na ₂ S ₂ O ₃ preserved	A	N/A	2C	Y	Absent	MCP-8260-04
L0807587-03A	Vial HCl preserved	A	N/A	2C	Y	Absent	MCP-8260-04

Container Comments

L0807587-01A	IR Gun
L0807587-01B	IR Gun
L0807587-02A	IR Gun
L0807587-02B	IR Gun
L0807587-03A	IR Gun

Project Name: RAYTHEON WAYLAND
Project Number: 0079387

Lab Number: L0807587
Report Date: 05/30/08

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: L0807587
Report Date: 05/30/08

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.



05300813:07



CHAIN OF CUSTODY

PAGE 1 OF 1

WESTBORO, MA RAYNHAM, MA
 TEL: 508-898-9220 TEL: 508-822-9300
 FAX: 508-898-9193 FAX: 508-822-3288

A

Date Rec'd in Lab: 5/22/08

ALPHA Job #: L0667587

Client Information
 Client: ERM - BOSTON
 Address: 399 BOWLETON ST. 6th Floor
BOSTON, MA 02116
 Phone: 617-646-7800
 Fax: 617-267-6447
 Email: jason.flatley@erm.com
 These samples have been previously analyzed by Alpha

Project Information
 Project Name: RANTHEON WAYLAND
 Project Location: WAYLAND, MA
 Project #: 0079387
 Project Manager: JASON FLATTERY
 ALPHA Quote #:
 Turn-Around Time
 Standard RUSH (only confirmed if pre-approved!)
 Date Due: 5/30/08 Time:

Report Information - Data Deliverables
 FAX EMAIL
 ADEx Add'l Deliverables

Billing Information
 Same as Client info PO #:

Regulatory Requirements/Report Limits
 State /Fed Program: MCP/GW-1 Criteria:
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
14-Dioxane
00210 by 8260

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

Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials				
		Date	Time						
7587 -01	MW-111-20080522-01	5/22/08	07:50	GW	MS	2	2		
-02	MW-107-20080522-01	5/22/08	12:25	GW	DM		2		
-03	TB-002-20080522-01	5/22/08	19:00	GW	KOZ		1		

TOTAL
 4
 2
 1

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
 MA MCP or CT RCP?

Container Type AV
 Preservative HH

Relinquished By: Danielle Madalena Date/Time: 5/22/08 1310
 Received By: TFey Date/Time: 5/22/08 1340

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.