

Environmental
Resources
Management

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

18 May 2007
Reference: 0061882

Mr. Robert Schelmerdeine
Wayland Meadows Limited Partnership
c/o Levco, Inc.
145 Rosemary Street
Needham, MA 02494



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

Dear Mr. Schelmerdeine:

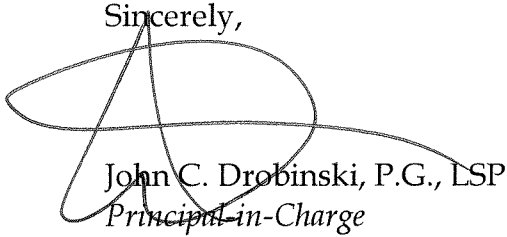
On behalf of Raytheon Company (Raytheon), Environmental Resources Management (ERM) is submitting the results of groundwater sample analyses from the Former Raytheon Facility located at 430 Boston Post Road in Wayland, Massachusetts (Site). The results are submitted pursuant to 310 CMR 40.1403(10) of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

ERM collected groundwater samples from 4 wells, (DEP-19 S/M/D and MW-264M), within the boundaries of your property between 23 and 26 April 2007. All samples were submitted for laboratory analysis of volatile organic compounds by United States Environmental Protection Agency (USEPA) Method 8260. Sample analysis was conducted by Alpha Analytical Laboratories of Westborough, Massachusetts. Analytical laboratory reports are attached to this letter. This analytical data will be provided to the Massachusetts Department of Environmental Protection in the next required MCP submittal.

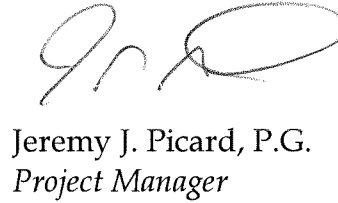
Raytheon has implemented the Public Involvement Process in accordance with MCP 310 CMR 40.1405. Documents pertaining to the Site can be found at the Board of Health, the Wayland Public Library Public Involvement Plan files, or at www.ermne.com (username = raytheon, password = wayland).

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



Jeremy J. Picard, P.G.
Project Manager

enclosures: BWSC-123 - Notice of Environmental Sampling
Alpha Analytical Laboratories Reports L0706081, L0706083,
L0705912

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



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

BWSC 123

This Notice is Related to
Release Tracking Number

3 **22408**

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 430 Boston Post Road
City/Town: Wayland Zip Code: 01778

B. This notice is being provided to the following party:

1. Name: Wayland Meadows Limited Partnership
2. Street Address: 145 Rosemary Street
City/Town: Needham Zip Code: 02494

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 430 Boston Post Road
City/Town: Wayland Zip Code: 01778

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|---|
| <input type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input checked="" type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Class C Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____
(specify) |

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater) to the extent known at the time of this notice.

Collection of groundwater samples from existing monitoring wells.

E. Contact information related to the party providing this notice:

Contact Name: Louis J. Burkhardt
Street Address: 880 Technology Park Drive, MS 2-2124-01
City/Town: Billerica Zip Code: 01821
Telephone: (978) 436-8238 Email: louis_j_burkhardt@raytheon.com

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the “disposal site”.)

PURPOSE OF THIS NOTICE

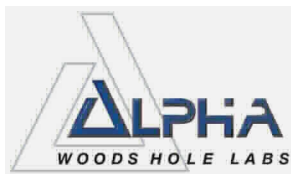
When environmental samples are taken as part of an investigation under the Massachusetts Contingency Plan at a property on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/dep/cleanup/oview.htm>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://mass.gov/dep/about/region/schedule.htm> if you would like to make an appointment to see these files. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



ANALYTICAL REPORT

Lab Number: L0706081

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

ATTN: Jeremy Picard

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Report Date: 05/04/07

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

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



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0706081
Report Date: 05/04/07

Alpha Sample ID	Client ID	Sample Location
L0706081-01	DEP-19D-20070426-01	WAYLAND, MA
L0706081-02	DEP-19S-20070426-01	WAYLAND, MA

Project Name: RAYTHEON WAYLAND

Lab Number: L0706081

Project Number: 0061882

Report Date: 05/04/07

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A
A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	YES
For any questions answered "No", please refer to the case narrative section on the following page(s).		

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



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0706081
Report Date: 05/04/07

Case Narrative

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

MCP Related Narratives:

Volatile Organics

In reference to question E:

The WG279032-4 LCS has a low recovery for Dichlorodifluoromethane.

The WG279032-6 Method Blank has % recovery for 1,2-Dichloroethane-d4 above acceptance criteria.

Associated samples have surrogates within criteria.

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

Authorized Signature:



Title: Technical Director

Date: 05/04/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND**Lab Number:** L0706081**Project Number:** 0061882**Report Date:** 05/04/07**SAMPLE RESULTS**

Lab ID: L0706081-01
Client ID: DEP-19D-20070426-01
Sample Location: WAYLAND, MA
Matrix: Water
Anaytical Method: 60,8260B
Analytical Date: 05/04/07 12:46
Analyst: RY

Date Collected: 04/26/07 09:00
Date Received: 04/27/07
Field Prep: Not Specified

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

Project Name: RAYTHEON WAYLAND**Lab Number:** L0706081**Project Number:** 0061882**Report Date:** 05/04/07**SAMPLE RESULTS**

Lab ID: L0706081-01

Date Collected: 04/26/07 09:00

Client ID: DEP-19D-20070426-01

Date Received: 04/27/07

Sample Location: WAYLAND, MA

Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	107		70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0706081**Project Number:** 0061882**Report Date:** 05/04/07**SAMPLE RESULTS**

Lab ID: L0706081-02
 Client ID: DEP-19S-20070426-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/04/07 13:17
 Analyst: RY

Date Collected: 04/26/07 08:50
 Date Received: 04/27/07
 Field Prep: Not Specified

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

Project Name: RAYTHEON WAYLAND**Lab Number:** L0706081**Project Number:** 0061882**Report Date:** 05/04/07**SAMPLE RESULTS**

Lab ID: L0706081-02
 Client ID: DEP-19S-20070426-01
 Sample Location: WAYLAND, MA

Date Collected: 04/26/07 08:50
 Date Received: 04/27/07
 Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	128		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	110		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0706081
Report Date: 05/04/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 05/04/07 10:43
Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-02 Batch: WG279032-6				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0706081
Report Date: 05/04/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 05/04/07 10:43
Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-02 Batch: WG279032-6				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0706081
Report Date: 05/04/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 05/04/07 10:43
Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01-02 Batch: WG279032-6				

Parameter	Result	Qualifier	Units	RDL
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	135		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	114		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0706081

Report Date: 05/04/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-02 Batch: WG279032-4 WG279032-5					
Methylene chloride	95	92	70-130	3	25
1,1-Dichloroethane	94	96	70-130	2	25
Chloroform	93	98	70-130	5	25
Carbon tetrachloride	95	98	70-130	3	25
1,2-Dichloropropane	83	84	70-130	1	25
Dibromochloromethane	95	88	70-130	8	25
1,1,2-Trichloroethane	97	84	70-130	14	25
Tetrachloroethene	94	97	70-130	3	25
Chlorobenzene	90	91	70-130	1	25
Trichlorofluoromethane	113	117	70-130	3	25
1,2-Dichloroethane	103	93	70-130	10	25
1,1,1-Trichloroethane	99	105	70-130	6	25
Bromodichloromethane	90	90	70-130	0	25
trans-1,3-Dichloropropene	88	77	70-130	13	25
cis-1,3-Dichloropropene	80	75	70-130	6	25
1,1-Dichloropropene	88	91	70-130	3	25
Bromoform	98	82	70-130	18	50
1,1,2,2-Tetrachloroethane	113	94	70-130	18	25
Benzene	78	83	70-130	6	25
Toluene	90	93	70-130	3	25
Ethylbenzene	95	97	70-130	2	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0706081

Report Date: 05/04/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-02 Batch: WG279032-4 WG279032-5					
Chloromethane	80	81	70-130	1	50
Bromomethane	70	64	70-130	9	50
Vinyl chloride	80	74	70-130	8	25
Chloroethane	87	80	70-130	8	25
1,1-Dichloroethene	97	98	70-130	1	25
trans-1,2-Dichloroethene	85	85	70-130	0	25
Trichloroethene	87	94	70-130	8	25
1,2-Dichlorobenzene	94	94	70-130	0	25
1,3-Dichlorobenzene	93	94	70-130	1	25
1,4-Dichlorobenzene	93	92	70-130	1	25
Methyl tert butyl ether	92	78	70-130	16	25
p/m-Xylene	92	96	70-130	4	25
o-Xylene	93	93	70-130	0	25
cis-1,2-Dichloroethene	90	88	70-130	2	25
Dibromomethane	89	78	70-130	13	25
1,2,3-Trichloropropane	116	98	70-130	17	25
Styrene	90	90	70-130	0	25
Dichlorodifluoromethane	68	70	70-130	3	50
Acetone	128	94	70-130	31	50
Carbon disulfide	79	70	70-130	12	25
2-Butanone	130	109	70-130	18	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0706081

Report Date: 05/04/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-02 Batch: WG279032-4 WG279032-5					
4-Methyl-2-pentanone	92	64	70-130	36	50
2-Hexanone	109	84	70-130	26	50
Bromochloromethane	92	86	70-130	7	25
Tetrahydrofuran	103	76	70-130	30	25
2,2-Dichloropropane	90	91	70-130	1	50
1,2-Dibromoethane	95	82	70-130	15	25
1,3-Dichloropropane	96	85	70-130	12	25
1,1,1,2-Tetrachloroethane	99	93	70-130	6	25
Bromobenzene	93	92	70-130	1	25
n-Butylbenzene	91	100	70-130	9	25
sec-Butylbenzene	94	102	70-130	8	25
tert-Butylbenzene	95	102	70-130	7	25
o-Chlorotoluene	93	98	70-130	5	25
p-Chlorotoluene	97	101	70-130	4	25
1,2-Dibromo-3-chloropropane	110	77	70-130	35	50
Hexachlorobutadiene	85	90	70-130	6	25
Isopropylbenzene	102	105	70-130	3	25
p-Isopropyltoluene	99	106	70-130	7	25
Naphthalene	88	72	70-130	20	25
n-Propylbenzene	95	102	70-130	7	25
1,2,3-Trichlorobenzene	95	84	70-130	12	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0706081

Report Date: 05/04/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01-02 Batch: WG279032-4 WG279032-5					
1,2,4-Trichlorobenzene	83	77	70-130	8	25
1,3,5-Trimethylbenzene	94	103	70-130	9	25
1,2,4-Trimethylbenzene	98	104	70-130	6	25
Ethyl ether	101	84	70-130	18	25
Isopropyl Ether	93	87	70-130	7	25
Ethyl-Tert-Butyl-Ether	76	83	70-130	9	25
Tertiary-Amyl Methyl Ether	93	98	70-130	5	25
1,4-Dioxane	79	75	70-130	5	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116	117	70-130
Toluene-d8	108	109	70-130
4-Bromofluorobenzene	101	100	70-130
Dibromofluoromethane	113	112	70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0706081**Project Number:** 0061882**Report Date:** 05/04/07**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0706081-01A	Vial HCl preserved	A	N/A	2.8C	Y	Absent	MCP-8260-04
L0706081-01B	Vial HCl preserved	A	N/A	2.8C	Y	Absent	MCP-8260-04
L0706081-02A	Vial HCl preserved	A	N/A	2.8C	Y	Absent	MCP-8260-04

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0706081
Report Date: 05/04/07

GLOSSARY

Acronyms

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

Terms

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

Data Qualifiers

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

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

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0706081
Report Date: 05/04/07

REFERENCES

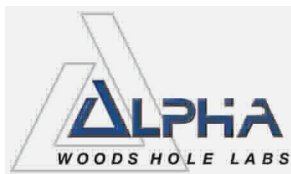
- 60 Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

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





ANALYTICAL REPORT

Lab Number: L0706083

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

ATTN: Jeremy Picard

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Report Date: 05/04/07

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

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



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0706083
Report Date: 05/04/07

Alpha Sample ID	Client ID	Sample Location
L0706083-01	DEP-19M-20070426-01	WAYLAND, MA



Project Name: RAYTHEON WAYLAND

Lab Number: L0706083

Project Number: 0061882

Report Date: 05/04/07

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

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

A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	NO
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO

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

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



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0706083
Report Date: 05/04/07

Case Narrative

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

MCP Related Narratives

Volatile Organics

In reference to question E:

The surrogate % recovery for 1,2-Dichloroethane-d4 is above method acceptance criteria on the method blank.

In reference to question F:

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

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

Authorized Signature:



Title: Technical Director

Date: 05/04/07

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND**Lab Number:** L0706083**Project Number:** 0061882**Report Date:** 05/04/07**SAMPLE RESULTS**

Lab ID: L0706083-01
 Client ID: DEP-19M-20070426-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 05/04/07 13:48
 Analyst: RY

Date Collected: 04/26/07 08:40
 Date Received: 04/27/07
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
Volatile Organics by MCP 8260B					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	ND		ug/l	0.50	1
Chlorobenzene	ND		ug/l	0.50	1
1,2-Dichloroethane	ND		ug/l	0.50	1
1,1,1-Trichloroethane	ND		ug/l	0.50	1
Bromodichloromethane	ND		ug/l	0.50	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	1
Bromoform	ND		ug/l	2.0	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	1
Chloromethane	ND		ug/l	2.5	1
Vinyl chloride	ND		ug/l	1.0	1
Chloroethane	ND		ug/l	1.0	1
1,1-Dichloroethene	ND		ug/l	0.50	1
trans-1,2-Dichloroethene	ND		ug/l	0.75	1
Trichloroethene	2.7		ug/l	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.5	1
1,3-Dichlorobenzene	ND		ug/l	2.5	1
1,4-Dichlorobenzene	ND		ug/l	2.5	1
cis-1,2-Dichloroethene	15		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:** L0706083**Project Number:** 0061882**Report Date:** 05/04/07**SAMPLE RESULTS**

Lab ID: L0706083-01
 Client ID: DEP-19M-20070426-01
 Sample Location: WAYLAND, MA

Date Collected: 04/26/07 08:40
 Date Received: 04/27/07
 Field Prep: Not Specified

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	110		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0706083
Report Date: 05/04/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 05/04/07 10:43
Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG279032-6				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
Trichlorofluoromethane	ND		ug/l	2.5
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
1,1-Dichloropropene	ND		ug/l	2.5
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Benzene	ND		ug/l	0.50
Toluene	ND		ug/l	0.75
Ethylbenzene	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Bromomethane	ND		ug/l	1.0
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0706083
Report Date: 05/04/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 05/04/07 10:43
Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG279032-6				
Methyl tert butyl ether	ND		ug/l	1.0
p/m-Xylene	ND		ug/l	1.0
o-Xylene	ND		ug/l	1.0
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dibromomethane	ND		ug/l	5.0
1,2,3-Trichloropropane	ND		ug/l	5.0
Styrene	ND		ug/l	1.0
Dichlorodifluoromethane	ND		ug/l	5.0
Acetone	ND		ug/l	5.0
Carbon disulfide	ND		ug/l	5.0
2-Butanone	ND		ug/l	5.0
4-Methyl-2-pentanone	ND		ug/l	5.0
2-Hexanone	ND		ug/l	5.0
Bromochloromethane	ND		ug/l	2.5
Tetrahydrofuran	ND		ug/l	10
2,2-Dichloropropane	ND		ug/l	2.5
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
Bromobenzene	ND		ug/l	2.5
n-Butylbenzene	ND		ug/l	0.50
sec-Butylbenzene	ND		ug/l	0.50
tert-Butylbenzene	ND		ug/l	2.5
o-Chlorotoluene	ND		ug/l	2.5
p-Chlorotoluene	ND		ug/l	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5
Hexachlorobutadiene	ND		ug/l	0.60
Isopropylbenzene	ND		ug/l	0.50
p-Isopropyltoluene	ND		ug/l	0.50
Naphthalene	ND		ug/l	2.5
n-Propylbenzene	ND		ug/l	0.50

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0706083
Report Date: 05/04/07

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 60,8260B
Analytical Date: 05/04/07 10:43
Analyst: RY

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG279032-6				
1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	135		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	114		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0706083

Report Date: 05/04/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG279032-4 WG279032-5					
Methylene chloride	95	92	70-130	3	25
1,1-Dichloroethane	94	96	70-130	2	25
Chloroform	93	98	70-130	5	25
Carbon tetrachloride	95	98	70-130	3	25
1,2-Dichloropropane	83	84	70-130	1	25
Dibromochloromethane	95	88	70-130	8	25
1,1,2-Trichloroethane	97	84	70-130	14	25
Tetrachloroethene	94	97	70-130	3	25
Chlorobenzene	90	91	70-130	1	25
Trichlorofluoromethane	113	117	70-130	3	25
1,2-Dichloroethane	103	93	70-130	10	25
1,1,1-Trichloroethane	99	105	70-130	6	25
Bromodichloromethane	90	90	70-130	0	25
trans-1,3-Dichloropropene	88	77	70-130	13	25
cis-1,3-Dichloropropene	80	75	70-130	6	25
1,1-Dichloropropene	88	91	70-130	3	25
Bromoform	98	82	70-130	18	50
1,1,2,2-Tetrachloroethane	113	94	70-130	18	25
Benzene	78	83	70-130	6	25
Toluene	90	93	70-130	3	25
Ethylbenzene	95	97	70-130	2	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0706083

Report Date: 05/04/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG279032-4 WG279032-5					
Chloromethane	80	81	70-130	1	50
Bromomethane	70	64	70-130	9	50
Vinyl chloride	80	74	70-130	8	25
Chloroethane	87	80	70-130	8	25
1,1-Dichloroethene	97	98	70-130	1	25
trans-1,2-Dichloroethene	85	85	70-130	0	25
Trichloroethene	87	94	70-130	8	25
1,2-Dichlorobenzene	94	94	70-130	0	25
1,3-Dichlorobenzene	93	94	70-130	1	25
1,4-Dichlorobenzene	93	92	70-130	1	25
Methyl tert butyl ether	92	78	70-130	16	25
p/m-Xylene	92	96	70-130	4	25
o-Xylene	93	93	70-130	0	25
cis-1,2-Dichloroethene	90	88	70-130	2	25
Dibromomethane	89	78	70-130	13	25
1,2,3-Trichloropropane	116	98	70-130	17	25
Styrene	90	90	70-130	0	25
Dichlorodifluoromethane	68	70	70-130	3	50
Acetone	128	94	70-130	31	50
Carbon disulfide	79	70	70-130	12	25
2-Butanone	130	109	70-130	18	50

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0706083

Report Date: 05/04/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG279032-4 WG279032-5					
4-Methyl-2-pentanone	92	64	70-130	36	50
2-Hexanone	109	84	70-130	26	50
Bromochloromethane	92	86	70-130	7	25
Tetrahydrofuran	103	76	70-130	30	25
2,2-Dichloropropane	90	91	70-130	1	50
1,2-Dibromoethane	95	82	70-130	15	25
1,3-Dichloropropane	96	85	70-130	12	25
1,1,1,2-Tetrachloroethane	99	93	70-130	6	25
Bromobenzene	93	92	70-130	1	25
n-Butylbenzene	91	100	70-130	9	25
sec-Butylbenzene	94	102	70-130	8	25
tert-Butylbenzene	95	102	70-130	7	25
o-Chlorotoluene	93	98	70-130	5	25
p-Chlorotoluene	97	101	70-130	4	25
1,2-Dibromo-3-chloropropane	110	77	70-130	35	50
Hexachlorobutadiene	85	90	70-130	6	25
Isopropylbenzene	102	105	70-130	3	25
p-Isopropyltoluene	99	106	70-130	7	25
Naphthalene	88	72	70-130	20	25
n-Propylbenzene	95	102	70-130	7	25
1,2,3-Trichlorobenzene	95	84	70-130	12	25

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0706083

Report Date: 05/04/07

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Volatile Organics by MCP 8260B Associated sample(s): 01 Batch: WG279032-4 WG279032-5					
1,2,4-Trichlorobenzene	83	77	70-130	8	25
1,3,5-Trimethylbenzene	94	103	70-130	9	25
1,2,4-Trimethylbenzene	98	104	70-130	6	25
Ethyl ether	101	84	70-130	18	25
Isopropyl Ether	93	87	70-130	7	25
Ethyl-Tert-Butyl-Ether	76	83	70-130	9	25
Tertiary-Amyl Methyl Ether	93	98	70-130	5	25
1,4-Dioxane	79	75	70-130	5	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	116	117	70-130
Toluene-d8	108	109	70-130
4-Bromofluorobenzene	101	100	70-130
Dibromofluoromethane	113	112	70-130

Project Name: RAYTHEON WAYLAND**Lab Number:** L0706083**Project Number:** 0061882**Report Date:** 05/04/07**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0706083-01A	Vial HCl preserved	A	N/A	2.8C	Y	Absent	MCP-8260-04
L0706083-01B	Vial HCl preserved	A	N/A	2.8C	Y	Absent	MCP-8260-04

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0706083
Report Date: 05/04/07

GLOSSARY

Acronyms

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

Terms

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

Data Qualifiers

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

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

Report Format: Not Specified



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

Lab Number: L0706083
Report Date: 05/04/07

REFERENCES

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

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

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



05040716:54



CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 4/27

ALPHA Job #: 10706083

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

Project Information

Project Name: Raytheon Wayland
Project Location: Wayland, Ma
Project #: 0061882
Project Manager: J. Picard
ALPHA Quote #:

Report Information - Data Deliverables

FAX EMAIL
 ADEX Add'l Deliverables

Billing Information

Same as Client info PO #:

Client Information

Client: ERM
Address: 399 Boylston St. 6th Floor
Boston MA 02116
Phone: 617-646-7800
Fax: 617-267-6447
Email: jeremy.picard@erm.com

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)
Date Due: 05/04 - not rush Time:

Regulatory Requirements/Report Limits

State /Fed Program: MA/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?

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

ANALYSIS 8021C

SAMPLE HANDLING

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

TOTAL # BOTTLES 2

ALPHA Lab ID (Lab Use Only)	Sample ID	Collector		Sample Matrix	Sampler's Initials
		Date	Time		
06083-01	DEP-19M-01	20070426	21:40	GW	HEA

PLEASE ANSWER QUESTIONS ABOVE!

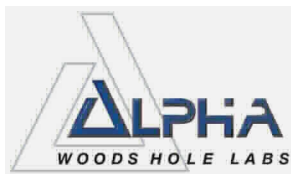
Container Type Preservative

IS YOUR PROJECT MA MCP or CT RCP?

Relinquished By: *[Signature]* Date/Time: 4/27/07 18:45

Received By: *[Signature]* Date/Time: 4/27/07 18:45

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



ANALYTICAL REPORT

Lab Number: L0705912

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

ATTN: Jeremy Picard

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Report Date: 05/03/07

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

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



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

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

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

Project Name: RAYTHEON WAYLAND

Lab Number: L0705912

Project Number: 0061882

Report Date: 05/03/07

MADEP MCP Response Action Analytical Report Certification

This form provides certifications for all samples performed by MCP methods. Please refer to the Sample Results and Container Information sections of this report for specification of MCP methods used for each analysis. The following questions pertain only to MCP Analytical Methods.

An affirmative response to questions A, B, C & D is required for "Presumptive Certainty" status		
A	Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set?	YES
B	Were all QA/QC procedures required for the specified analytical methods(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines?	YES
C	Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	YES
D	VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3?	N/A
A response to questions E and F is required for "Presumptive Certainty" status		
E	Were all QC performance standards and recommendations for the specified method(s) achieved?	YES
F	Were results for all analyte-list compounds/elements for the specified method(s) reported?	NO
For any questions answered "No", please refer to the case narrative section on the following page(s).		

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



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

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

Case Narrative

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

MCP Related Narratives

Volatile Organics

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

In reference to question F:

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

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

Authorized Signature:



Title: Technical Director

Date: 05/03/07

ORGANICS

VOLATILES

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

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

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

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

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

Lab ID: L0705912-01 R

Date Collected: 04/24/07 15:50

Client ID: MW-264M-20070424-01

Date Received: 04/25/07

Sample Location: WAYLAND, MA

Field Prep: Not Specified

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

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

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

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

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

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

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

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

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

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

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

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

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

**Method Blank Analysis
Batch Quality Control**

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

Parameter	Result	Qualifier	Units	RDL
Volatile Organics by MCP 8260B for sample(s): 01 Batch: WG278538-12				
Methylene chloride	ND		ug/l	5.0
1,1-Dichloroethane	ND		ug/l	0.75
Chloroform	ND		ug/l	0.75
Carbon tetrachloride	ND		ug/l	0.50
1,2-Dichloropropane	ND		ug/l	1.8
Dibromochloromethane	ND		ug/l	0.50
1,1,2-Trichloroethane	ND		ug/l	0.75
Tetrachloroethene	ND		ug/l	0.50
Chlorobenzene	ND		ug/l	0.50
1,2-Dichloroethane	ND		ug/l	0.50
1,1,1-Trichloroethane	ND		ug/l	0.50
Bromodichloromethane	ND		ug/l	0.50
trans-1,3-Dichloropropene	ND		ug/l	0.50
cis-1,3-Dichloropropene	ND		ug/l	0.50
Bromoform	ND		ug/l	2.0
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50
Chloromethane	ND		ug/l	2.5
Vinyl chloride	ND		ug/l	1.0
Chloroethane	ND		ug/l	1.0
1,1-Dichloroethene	ND		ug/l	0.50
trans-1,2-Dichloroethene	ND		ug/l	0.75
Trichloroethene	ND		ug/l	0.50
1,2-Dichlorobenzene	ND		ug/l	2.5
1,3-Dichlorobenzene	ND		ug/l	2.5
1,4-Dichlorobenzene	ND		ug/l	2.5
cis-1,2-Dichloroethene	ND		ug/l	0.50
Dichlorodifluoromethane	ND		ug/l	5.0
1,2-Dibromoethane	ND		ug/l	2.0
1,3-Dichloropropane	ND		ug/l	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	0.50
o-Chlorotoluene	ND		ug/l	2.5

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

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

**Method Blank Analysis
Batch Quality Control**

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

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

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

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

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

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

**Method Blank Analysis
Batch Quality Control**

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

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

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

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

**Method Blank Analysis
Batch Quality Control**

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

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

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

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

**Method Blank Analysis
Batch Quality Control**

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

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

1,2,3-Trichlorobenzene	ND		ug/l	2.5
1,2,4-Trichlorobenzene	ND		ug/l	2.5
1,3,5-Trimethylbenzene	ND		ug/l	2.5
1,2,4-Trimethylbenzene	ND		ug/l	2.5
Ethyl ether	ND		ug/l	2.5
Isopropyl Ether	ND		ug/l	2.0
Ethyl-Tert-Butyl-Ether	ND		ug/l	2.0
Tertiary-Amyl Methyl Ether	ND		ug/l	2.0
1,4-Dioxane	ND		ug/l	250

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

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0705912

Report Date: 05/03/07

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

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0705912

Report Date: 05/03/07

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

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

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0705912

Project Number: 0061882

Report Date: 05/03/07

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

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0705912

Report Date: 05/03/07

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

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0705912

Project Number: 0061882

Report Date: 05/03/07

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

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: 0061882

Lab Number: L0705912

Report Date: 05/03/07

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

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

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

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0705912-01A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	MCP-8260-04
L0705912-01B	Vial HCl preserved	A	N/A	2.2C	Y	Absent	MCP-8260-04
L0705912-02A	Vial HCl preserved	A	N/A	2.2C	Y	Absent	MCP-8260-04

Project Name: RAYTHEON WAYLAND
Project Number: 0061882

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GLOSSARY

Acronyms

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

Terms

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

Data Qualifiers

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

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

Report Format: Not Specified



Project Name: RAYTHEON WAYLAND
Project Number: 0061882

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

REFERENCES

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

LIMITATION OF LIABILITIES

Alpha Woods Hole Labs performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Woods Hole Labs shall be to re-perform the work at it's own expense. In no event shall Alpha Woods Hole Labs be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Woods Hole Labs.

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



