

Environmental
Resources
Management

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

13 July 2009
Reference: 0095922

Mr. Anthony DeLuca
The Koffler Group
10 Memorial Drive
Suite 901
Providence, RI 02903



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

Dear Mr. DeLuca:


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 20 wells on portions of the Site within the boundaries of your property between 16 June and 18 June 2009. Samples were submitted for one or more of the following analyses; volatile organic compounds, total organic carbon, sulfate, dissolved sodium, and dissolved potassium. Sample analyses were conducted by Alpha Analytical, Inc. of Westborough, Massachusetts. These analytical data will be provided to the Massachusetts Department of Environmental Protection in the next required MCP submittal.

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

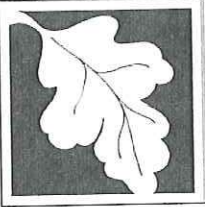
Sincerely,


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


FOR Jason D. Flattery, P.E.
Project Manager

enclosures: BWSC-123 - Notice of Environmental Sampling
Laboratory Analytical Reports

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: The Koffler Group
2. Street Address: 10 Memorial Drive, Suite 901
City/Town: Providence, RI Zip Code: 02903

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, T-3033
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:	L0907965
Client:	ERM Consulting & Engineering, Inc. 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Project Name:	RAYTHEON WAYLAND
Project Number:	0095922
Report Date:	06/22/09

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: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0907965-01	GALLERY-20090616-01	WAYLAND, MA	06/16/09 08:40
L0907965-02	TB-001-20090616-01	WAYLAND, MA	06/16/09 00:00
L0907965-03	MW-553-20090616-01	WAYLAND, MA	06/16/09 10:05
L0907965-04	IW-9-20090616-01	WAYLAND, MA	06/16/09 09:00
L0907965-05	IW-8-20090616-01	WAYLAND, MA	06/16/09 10:20
L0907965-06	IW-10-20090616-01	WAYLAND, MA	06/16/09 11:50
L0907965-07	DUP-001-20090616-01	WAYLAND, MA	06/16/09 11:11
L0907965-08	IW-12-20090616-01	WAYLAND, MA	06/16/09 13:45
L0907965-09	IW-7-20090616-01	WAYLAND, MA	06/16/09 12:05
L0907965-10	IW-6-20090616-01	WAYLAND, MA	06/16/09 14:00

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

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: 0095922

Lab Number: L0907965
Report Date: 06/22/09

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.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. 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.

For additional information, please contact Client Services at 800-624-9220.

MCP Related Narratives

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Volatile Organics

L0907965-10 has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

In reference to question E:

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Case Narrative continued

The WG367521-1/-2 LCS/LCSD recoveries associated with L0907965-06, -07, -08 and -10 are below the acceptance criteria for Dichlorodifluoromethane (68%/66%); 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 WG367547-1/-2 LCS/LCSD recoveries associated with L0907965-09 are below the acceptance criteria for Dichlorodifluoromethane (68%/66%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported; however, all results are considered to have a potentially low bias for this compound.

The WG367588-2 LCSD recovery associated with L0907965-04 is below the acceptance criteria for Dichlorodifluoromethane (61%); however, it has been identified as a "difficult" analyte. The results of the associated sample are reported; however, all results are considered to have a potentially low bias for this compound.

The WG367547-7/-8 MS/MSD recoveries associated with L0907965-09 were outside the acceptance criteria for two compounds. The results of the sample utilized for the MS/MSD are considered to have a potentially low bias for Dichlorodifluoromethane (68%/68%) and a potentially high bias for Hexachlorobutadiene (MSD at 131%).

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.

Non-MCP Related Narratives

Sulfate

L0907965-01, -09 and -10 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Case Narrative continued

Total Organic Carbon

L0907965-04, -05, -08 and -10 have elevated detection limits due to the dilutions required to quantitate the results within the calibration range.

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: 06/22/09

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-01
Client ID: GALLERY-20090616-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 06/19/09 10:50
Analyst: MM

Date Collected: 06/16/09 08:40
Date Received: 06/16/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
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: L0907965

Project Number: 0095922

Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-01

Date Collected: 06/16/09 08:40

Client ID: GALLERY-20090616-01

Date Received: 06/16/09

Sample Location: WAYLAND, MA

Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
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	115		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	110		70-130

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Project Name: RAYTHEON WAYLAND
 Project Number: 0095922

Lab Number: L0907965
 Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-02
 Client ID: TB-001-20090616-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 06/18/09 21:17
 Analyst: MM

Date Collected: 06/16/09 00:00
 Date Received: 06/16/09
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
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
1,1,1,2-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: L0907965

Project Number: 0095922

Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-02

Date Collected: 06/16/09 00:00

Client ID: TB-001-20090616-01

Date Received: 06/16/09

Sample Location: WAYLAND, MA

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
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	130		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	129		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-04
Client ID: IW-9-20090616-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 06/19/09 13:14
Analyst: GK

Date Collected: 06/16/09 09:00
Date Received: 06/16/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
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
1,1,1,2-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	0.94		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	1.1		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

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Project Name: RAYTHEON WAYLAND

Lab Number: L0907965

Project Number: 0095922

Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-04
 Client ID: IW-9-20090616-01
 Sample Location: WAYLAND, MA

Date Collected: 06/16/09 09:00
 Date Received: 06/16/09
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
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	89		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	97		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-05
Client ID: IW-8-20090616-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 06/18/09 22:13
Analyst: GK

Date Collected: 06/16/09 10:20
Date Received: 06/16/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
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	3.5		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	17		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: L0907965

Project Number: 0095922

Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-05
 Client ID: IW-8-20090616-01
 Sample Location: WAYLAND, MA

Date Collected: 06/16/09 10:20
 Date Received: 06/16/09
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
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	97		70-130
4-Bromofluorobenzene	116		70-130
Dibromofluoromethane	102		70-130

06220916:09

Project Name: RAYTHEON WAYLAND
 Project Number: 0095922

Lab Number: L0907965
 Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-06
 Client ID: IW-10-20090616-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 06/18/09 13:22
 Analyst: GK

Date Collected: 06/16/09 11:50
 Date Received: 06/16/09
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
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	22		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	120		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	84		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



06220916:09

Project Name: RAYTHEON WAYLAND

Lab Number: L0907965

Project Number: 0095922

Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-06
Client ID: IW-10-20090616-01
Sample Location: WAYLAND, MA

Date Collected: 06/16/09 11:50
Date Received: 06/16/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
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	107		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	105		70-130



06220916:09

Project Name: RAYTHEON WAYLAND

Lab Number: L0907965

Project Number: 0095922

Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-07
 Client ID: DUP-001-20090616-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 06/18/09 13:54
 Analyst: GK

Date Collected: 06/16/09 11:11
 Date Received: 06/16/09
 Field Prep: None

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
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	0.62		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



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Project Name: RAYTHEON WAYLAND

Lab Number: L0907965

Project Number: 0095922

Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-07
Client ID: DUP-001-20090616-01
Sample Location: WAYLAND, MA

Date Collected: 06/16/09 11:11
Date Received: 06/16/09
Field Prep: None

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
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MCP Volatile Organics - Westborough Lab

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	92		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	108		70-130



06220916:09

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-08
Client ID: IW-12-20090616-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 06/18/09 14:26
Analyst: GK

Date Collected: 06/16/09 13:45
Date Received: 06/16/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
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



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Project Name: RAYTHEON WAYLAND

Lab Number: L0907965

Project Number: 0095922

Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-08
 Client ID: IW-12-20090616-01
 Sample Location: WAYLAND, MA

Date Collected: 06/16/09 13:45
 Date Received: 06/16/09
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
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	105		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	111		70-130

06220916:09

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-09
Client ID: IW-7-20090616-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 06/18/09 14:58
Analyst: GK

Date Collected: 06/16/09 12:05
Date Received: 06/16/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Methylene chloride	ND		ug/l	5.0	1
1,1-Dichloroethane	ND		ug/l	0.75	1
Chloroform	ND		ug/l	0.75	1
Carbon tetrachloride	ND		ug/l	0.50	1
1,2-Dichloropropane	ND		ug/l	1.8	1
Dibromochloromethane	ND		ug/l	0.50	1
1,1,2-Trichloroethane	ND		ug/l	0.75	1
Tetrachloroethene	0.58		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	9.4		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	6.4		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



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Project Name: RAYTHEON WAYLAND

Lab Number: L0907965

Project Number: 0095922

Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-09
 Client ID: IW-7-20090616-01
 Sample Location: WAYLAND, MA

Date Collected: 06/16/09 12:05
 Date Received: 06/16/09
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
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	98		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	105		70-130

06220916:09

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-10
Client ID: IW-6-20090616-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 06/18/09 15:31
Analyst: GK

Date Collected: 06/16/09 14:00
Date Received: 06/16/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Methylene chloride	ND		ug/l	100	20
1,1-Dichloroethane	ND		ug/l	15	20
Chloroform	ND		ug/l	15	20
Carbon tetrachloride	ND		ug/l	10	20
1,2-Dichloropropane	ND		ug/l	35	20
Dibromochloromethane	ND		ug/l	10	20
1,1,2-Trichloroethane	ND		ug/l	15	20
Tetrachloroethene	41		ug/l	10	20
Chlorobenzene	ND		ug/l	10	20
1,2-Dichloroethane	ND		ug/l	10	20
1,1,1-Trichloroethane	ND		ug/l	10	20
Bromodichloromethane	ND		ug/l	10	20
trans-1,3-Dichloropropene	ND		ug/l	10	20
cis-1,3-Dichloropropene	ND		ug/l	10	20
Bromoform	ND		ug/l	40	20
1,1,1,2-Tetrachloroethane	ND		ug/l	10	20
Chloromethane	ND		ug/l	50	20
Vinyl chloride	59		ug/l	20	20
Chloroethane	ND		ug/l	20	20
1,1-Dichloroethene	ND		ug/l	10	20
trans-1,2-Dichloroethene	ND		ug/l	15	20
Trichloroethene	1300		ug/l	10	20
1,2-Dichlorobenzene	ND		ug/l	50	20
1,3-Dichlorobenzene	ND		ug/l	50	20
1,4-Dichlorobenzene	ND		ug/l	50	20
cis-1,2-Dichloroethene	230		ug/l	10	20
Dichlorodifluoromethane	ND		ug/l	100	20
1,2-Dibromoethane	ND		ug/l	40	20
1,3-Dichloropropane	ND		ug/l	50	20
1,1,1,2-Tetrachloroethane	ND		ug/l	10	20



06220916:09

Project Name: RAYTHEON WAYLAND

Lab Number: L0907965

Project Number: 0095922

Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-10
 Client ID: IW-6-20090616-01
 Sample Location: WAYLAND, MA

Date Collected: 06/16/09 14:00
 Date Received: 06/16/09
 Field Prep: See Narrative

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	114		70-130

Project Name: RAYTHEON WAYLAND
 Project Number: 0095922

Lab Number: L0907965
 Report Date: 06/22/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 06/18/09 11:49
 Analyst: MM

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 02 Batch: WG367385-3				
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
1,1,1,2-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: 0095922

Lab Number: L0907965
 Report Date: 06/22/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 06/18/09 11:49
 Analyst: MM

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 02 Batch: WG367385-3				
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: 0095922

Lab Number: L0907965
 Report Date: 06/22/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 06/18/09 11:49
 Analyst: MM

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 02 Batch: WG367385-3				
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	117		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	115		70-130

Project Name: RAYTHEON WAYLAND
 Project Number: 0095922

Lab Number: L0907965
 Report Date: 06/22/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 06/18/09 12:50
 Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 06-08,10 Batch: WG367521-3				
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: 0095922

Lab Number: L0907965
 Report Date: 06/22/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 06/18/09 12:50
 Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 06-08,10 Batch: WG367521-3				
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: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 06/18/09 12:50
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 06-08,10 Batch: WG367521-3				
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	104		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	115		70-130

Project Name: RAYTHEON WAYLAND
 Project Number: 0095922

Lab Number: L0907965
 Report Date: 06/22/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 06/18/09 12:33
 Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 05 Batch: WG367530-3				
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: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 06/18/09 12:33
Analyst: GK

Parameter	Result	Qualifier	Units	RD L
MCP Volatile Organics - Westborough Lab for sample(s): 05 Batch: WG367530-3				
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: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 06/18/09 12:33
 Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 05 Batch: WG367530-3				
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	88		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	129		70-130
Dibromofluoromethane	94		70-130

Project Name: RAYTHEON WAYLAND
 Project Number: 0095922

Lab Number: L0907965
 Report Date: 06/22/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 06/18/09 12:50
 Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 09 Batch: WG367547-3				
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: 0095922

Lab Number: L0907965
 Report Date: 06/22/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 06/18/09 12:50
 Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 09 Batch: WG367547-3				
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	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	106		70-130

Project Name: RAYTHEON WAYLAND
 Project Number: 0095922

Lab Number: L0907965
 Report Date: 06/22/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 06/19/09 08:56
 Analyst: MM

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG367565-3				
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: 0095922

Lab Number: L0907965
 Report Date: 06/22/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 06/19/09 08:56
 Analyst: MM

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG367565-3				
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: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 06/19/09 08:56
Analyst: MM

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 01 Batch: WG367565-3				
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	118		70-130
Toluene-d8	116		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	114		70-130

Project Name: RAYTHEON WAYLAND
 Project Number: 0095922

Lab Number: L0907965
 Report Date: 06/22/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 06/19/09 11:50
 Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 04 Batch: WG367588-3				
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: 0095922

Lab Number: L0907965
 Report Date: 06/22/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 06/19/09 11:50
 Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 04 Batch: WG367588-3				
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: 0095922

Lab Number: L0907965
 Report Date: 06/22/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 06/19/09 11:50
 Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 04 Batch: WG367588-3				
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	91		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02 Batch: WG367385-1 WG367385-2					
Methylene chloride	98	103	70-130	5	25
1,1-Dichloroethane	95	95	70-130	0	25
Chloroform	96	95	70-130	1	25
Carbon tetrachloride	100	97	70-130	3	25
1,2-Dichloropropane	98	93	70-130	5	25
Dibromochloromethane	91	90	70-130	1	25
1,1,2-Trichloroethane	98	92	70-130	6	25
Tetrachloroethene	100	94	70-130	6	25
Chlorobenzene	94	93	70-130	1	25
Trichlorofluoromethane	111	110	70-130	1	25
1,2-Dichloroethane	98	95	70-130	3	25
1,1,1-Trichloroethane	89	87	70-130	2	25
Bromodichloromethane	101	98	70-130	3	25
trans-1,3-Dichloropropene	95	86	70-130	10	25
cis-1,3-Dichloropropene	82	80	70-130	2	25
1,1-Dichloropropene	96	89	70-130	8	25
Bromoform	94	89	70-130	5	50
1,1,2,2-Tetrachloroethane	98	95	70-130	3	25
Benzene	97	94	70-130	3	25
Toluene	94	95	70-130	1	25
Ethylbenzene	94	93	70-130	1	25

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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02 Batch: WG367385-1 WG367385-2					
Chloromethane	99	101	70-130	2	50
Bromomethane	143	147	70-130	3	50
Vinyl chloride	103	105	70-130	2	25
Chloroethane	98	100	70-130	2	25
1,1-Dichloroethene	100	98	70-130	2	25
trans-1,2-Dichloroethene	92	92	70-130	0	25
Trichloroethene	89	84	70-130	6	25
1,2-Dichlorobenzene	92	91	70-130	1	25
1,3-Dichlorobenzene	95	93	70-130	2	25
1,4-Dichlorobenzene	99	96	70-130	3	25
Methyl tert butyl ether	98	97	70-130	1	25
p/m-Xylene	97	98	70-130	1	25
o-Xylene	99	102	70-130	3	25
cis-1,2-Dichloroethene	98	95	70-130	3	25
Dibromomethane	92	95	70-130	3	25
1,2,3-Trichloropropane	114	110	70-130	4	25
Styrene	97	99	70-130	2	25
Dichlorodifluoromethane	83	83	70-130	0	50
Acetone	104	102	70-130	2	50
Carbon disulfide	97	103	70-130	6	50
2-Butanone	109	124	70-130	13	50

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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0907965

Project Number: 0095922

Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02 Batch: WG367385-1 WG367385-2					
4-Methyl-2-pentanone	94	96	70-130	2	50
2-Hexanone	87	84	70-130	4	50
Bromochloromethane	97	95	70-130	2	25
Tetrahydrofuran	119	104	70-130	13	25
2,2-Dichloropropane	92	92	70-130	0	50
1,2-Dibromoethane	92	83	70-130	10	25
1,3-Dichloropropane	97	88	70-130	10	25
1,1,1,2-Tetrachloroethane	107	99	70-130	8	25
Bromobenzene	90	91	70-130	1	25
n-Butylbenzene	93	92	70-130	1	25
sec-Butylbenzene	96	94	70-130	2	25
tert-Butylbenzene	90	91	70-130	1	25
o-Chlorotoluene	90	90	70-130	0	25
p-Chlorotoluene	92	91	70-130	1	25
1,2-Dibromo-3-chloropropane	103	96	70-130	7	50
Hexachlorobutadiene	95	99	70-130	4	25
Isopropylbenzene	94	92	70-130	2	25
p-Isopropyltoluene	98	96	70-130	2	25
Naphthalene	70	71	70-130	1	25
n-Propylbenzene	95	94	70-130	1	25
1,2,3-Trichlorobenzene	78	76	70-130	3	25

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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
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Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02 Batch: WG367385-1 WG367385-2					
1,2,4-Trichlorobenzene	72	71	70-130	1	25
1,3,5-Trimethylbenzene	93	92	70-130	1	25
1,2,4-Trimethylbenzene	93	92	70-130	1	25
Ethyl ether	128	122	70-130	5	25
Isopropyl Ether	108	105	70-130	3	25
Ethyl-Tert-Butyl-Ether	101	102	70-130	1	25
Tertiary-Amyl Methyl Ether	95	93	70-130	2	25
1,4-Dioxane	111	150	70-130	30	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		108		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	87		89		70-130
Dibromofluoromethane	105		107		70-130



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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND

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Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 06-08,10 Batch: WG367521-1 WG367521-2					
Methylene chloride	97	96	70-130	1	25
1,1-Dichloroethane	94	92	70-130	2	25
Chloroform	93	90	70-130	3	25
Carbon tetrachloride	96	93	70-130	3	25
1,2-Dichloropropane	96	96	70-130	0	25
Dibromochloromethane	91	89	70-130	2	25
1,1,2-Trichloroethane	93	95	70-130	2	25
Tetrachloroethene	102	98	70-130	4	25
Chlorobenzene	100	96	70-130	4	25
Trichlorofluoromethane	94	92	70-130	2	25
1,2-Dichloroethane	86	89	70-130	3	25
1,1,1-Trichloroethane	96	94	70-130	2	25
Bromodichloromethane	96	99	70-130	3	25
trans-1,3-Dichloropropene	92	94	70-130	2	25
cis-1,3-Dichloropropene	85	87	70-130	2	25
1,1-Dichloropropene	99	98	70-130	1	25
Bromoform	108	105	70-130	3	50
1,1,2,2-Tetrachloroethane	90	93	70-130	3	25
Benzene	97	95	70-130	2	25
Toluene	101	92	70-130	9	25
Ethylbenzene	98	93	70-130	5	25

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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 06-08,10 Batch: WG367521-1 WG367521-2					
Chloromethane	86	83	70-130	4	50
Bromomethane	96	92	70-130	4	50
Vinyl chloride	95	93	70-130	2	25
Chloroethane	84	81	70-130	4	25
1,1-Dichloroethene	92	90	70-130	2	25
trans-1,2-Dichloroethene	96	94	70-130	2	25
Trichloroethene	93	95	70-130	2	25
1,2-Dichlorobenzene	98	95	70-130	3	25
1,3-Dichlorobenzene	102	94	70-130	8	25
1,4-Dichlorobenzene	100	98	70-130	2	25
Methyl tert butyl ether	97	105	70-130	8	25
p/m-Xylene	99	94	70-130	5	25
o-Xylene	102	97	70-130	5	25
cis-1,2-Dichloroethene	100	96	70-130	4	25
Dibromomethane	93	97	70-130	4	25
1,2,3-Trichloropropane	96	98	70-130	2	25
Styrene	100	95	70-130	5	25
Dichlorodifluoromethane	68	66	70-130	3	50
Acetone	70	73	70-130	4	50
Carbon disulfide	83	82	70-130	1	50
2-Butanone	81	85	70-130	5	50

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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 06-08,10 Batch: WG367521-1 WG367521-2					
4-Methyl-2-pentanone	78	91	70-130	15	50
2-Hexanone	79	80	70-130	1	50
Bromochloromethane	97	94	70-130	3	25
Tetrahydrofuran	76	85	70-130	11	25
2,2-Dichloropropane	100	99	70-130	1	50
1,2-Dibromoethane	96	93	70-130	3	25
1,3-Dichloropropane	94	96	70-130	2	25
1,1,1,2-Tetrachloroethane	96	96	70-130	0	25
Bromobenzene	98	94	70-130	4	25
n-Butylbenzene	101	98	70-130	3	25
sec-Butylbenzene	101	98	70-130	3	25
tert-Butylbenzene	100	96	70-130	4	25
o-Chlorotoluene	100	92	70-130	8	25
p-Chlorotoluene	99	93	70-130	6	25
1,2-Dibromo-3-chloropropane	93	100	70-130	7	50
Hexachlorobutadiene	120	118	70-130	2	25
Isopropylbenzene	100	95	70-130	5	25
p-Isopropyltoluene	105	101	70-130	4	25
Naphthalene	96	96	70-130	0	25
n-Propylbenzene	100	94	70-130	6	25
1,2,3-Trichlorobenzene	99	100	70-130	1	25

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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
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Lab Number: L0907965
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Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 06-08,10 Batch: WG367521-1 WG367521-2					
1,2,4-Trichlorobenzene	100	98	70-130	2	25
1,3,5-Trimethylbenzene	101	95	70-130	6	25
1,2,4-Trimethylbenzene	100	95	70-130	5	25
Ethyl ether	98	101	70-130	3	25
Isopropyl Ether	94	98	70-130	4	25
Ethyl-Tert-Butyl-Ether	100	104	70-130	4	25
Tertiary-Amyl Methyl Ether	92	99	70-130	7	25
1,4-Dioxane	99	104	70-130	5	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		86		70-130
Toluene-d8	103		97		70-130
4-Bromofluorobenzene	100		97		70-130
Dibromofluoromethane	97		96		70-130



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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND

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Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 05 Batch: WG367530-1 WG367530-2					
Methylene chloride	96	96	70-130	0	25
1,1-Dichloroethane	96	94	70-130	2	25
Chloroform	93	90	70-130	3	25
Carbon tetrachloride	94	90	70-130	4	25
1,2-Dichloropropane	101	97	70-130	4	25
Dibromochloromethane	92	91	70-130	1	25
1,1,2-Trichloroethane	97	90	70-130	7	25
Tetrachloroethane	108	100	70-130	8	25
Chlorobenzene	104	99	70-130	5	25
Trichlorofluoromethane	100	97	70-130	3	25
1,2-Dichloroethane	84	87	70-130	4	25
1,1,1-Trichloroethane	94	92	70-130	2	25
Bromodichloromethane	98	97	70-130	1	25
trans-1,3-Dichloropropene	108	103	70-130	5	25
cis-1,3-Dichloropropene	86	87	70-130	1	25
1,1-Dichloropropene	98	97	70-130	1	25
Bromoform	98	99	70-130	1	50
1,1,2,2-Tetrachloroethane	96	96	70-130	0	25
Benzene	98	95	70-130	3	25
Toluene	104	96	70-130	8	25
Ethylbenzene	104	99	70-130	5	25

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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
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Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 05 Batch: WG367530-1 WG367530-2					
Chloromethane	91	91	70-130	0	50
Bromomethane	87	85	70-130	2	50
Vinyl chloride	97	94	70-130	3	25
Chloroethane	96	96	70-130	0	25
1,1-Dichloroethene	96	92	70-130	4	25
trans-1,2-Dichloroethene	96	95	70-130	1	25
Trichloroethene	96	93	70-130	3	25
1,2-Dichlorobenzene	107	104	70-130	3	25
1,3-Dichlorobenzene	111	106	70-130	5	25
1,4-Dichlorobenzene	112	107	70-130	5	25
Methyl tert butyl ether	91	94	70-130	3	25
p/m-Xylene	104	99	70-130	5	25
o-Xylene	109	104	70-130	5	25
cis-1,2-Dichloroethene	101	99	70-130	2	25
Dibromomethane	90	93	70-130	3	25
1,2,3-Trichloropropane	100	106	70-130	6	25
Styrene	106	100	70-130	6	25
Dichlorodifluoromethane	75	70	70-130	7	50
Acetone	47	56	70-130	17	50
Carbon disulfide	90	85	70-130	6	50
2-Butanone	78	81	70-130	4	50

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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 05 Batch: WG367530-1 WG367530-2					
4-Methyl-2-pentanone	82	90	70-130	9	50
2-Hexanone	64	74	70-130	14	50
Bromochloromethane	97	100	70-130	3	25
Tetrahydrofuran	74	84	70-130	13	25
2,2-Dichloropropane	99	94	70-130	5	50
1,2-Dibromoethane	94	95	70-130	1	25
1,3-Dichloropropane	93	93	70-130	0	25
1,1,1,2-Tetrachloroethane	102	100	70-130	2	25
Bromobenzene	110	105	70-130	5	25
n-Butylbenzene	100	96	70-130	4	25
sec-Butylbenzene	109	107	70-130	2	25
tert-Butylbenzene	110	107	70-130	3	25
o-Chlorotoluene	95	90	70-130	5	25
p-Chlorotoluene	113	107	70-130	5	25
1,2-Dibromo-3-chloropropane	90	96	70-130	6	50
Hexachlorobutadiene	103	106	70-130	3	25
Isopropylbenzene	103	101	70-130	2	25
p-Isopropyltoluene	115	110	70-130	4	25
Naphthalene	117	122	70-130	4	25
n-Propylbenzene	107	103	70-130	4	25
1,2,3-Trichlorobenzene	109	114	70-130	4	25

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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 05 Batch: WG367530-1 WG367530-2					
1,2,4-Trichlorobenzene	108	113	70-130	5	25
1,3,5-Trimethylbenzene	108	106	70-130	2	25
1,2,4-Trimethylbenzene	108	106	70-130	2	25
Ethyl ether	93	91	70-130	2	25
Isopropyl Ether	99	100	70-130	1	25
Ethyl-Tert-Butyl-Ether	102	104	70-130	2	25
Tertiary-Amyl Methyl Ether	93	99	70-130	6	25
1,4-Dioxane	89	102	70-130	14	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	81		84		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	102		97		70-130
Dibromofluoromethane	94		98		70-130

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Lab Control Sample Analysis
Batch Quality Control

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Project Number: 0095922

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Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 09 Batch: WG367547-1 WG367547-2					
Methylene chloride	97	96	70-130	1	25
1,1-Dichloroethane	94	92	70-130	2	25
Chloroform	93	90	70-130	3	25
Carbon tetrachloride	96	93	70-130	3	25
1,2-Dichloropropane	96	96	70-130	0	25
Dibromochloromethane	91	89	70-130	2	25
1,1,2-Trichloroethane	93	95	70-130	2	25
Tetrachloroethene	102	98	70-130	4	25
Chlorobenzene	100	96	70-130	4	25
1,2-Dichloroethane	86	89	70-130	3	25
1,1,1-Trichloroethane	96	94	70-130	2	25
Bromodichloromethane	96	99	70-130	3	25
trans-1,3-Dichloropropene	92	94	70-130	2	25
cis-1,3-Dichloropropene	85	87	70-130	2	25
Bromoform	108	105	70-130	3	50
1,1,2,2-Tetrachloroethane	90	93	70-130	3	25
Chloromethane	86	83	70-130	4	50
Vinyl chloride	95	93	70-130	2	25
Chloroethane	84	81	70-130	4	25
1,1-Dichloroethene	92	90	70-130	2	25
trans-1,2-Dichloroethene	96	94	70-130	2	25

Lab Control Sample Analysis
Batch Quality Control

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Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 09 Batch: WG367547-1 WG367547-2					
Trichloroethene	93	95	70-130	2	25
1,2-Dichlorobenzene	98	95	70-130	3	25
1,3-Dichlorobenzene	102	94	70-130	8	25
1,4-Dichlorobenzene	100	98	70-130	2	25
cis-1,2-Dichloroethene	100	96	70-130	4	25
Dichlorodifluoromethane	68	66	70-130	3	50
1,2-Dibromoethane	96	93	70-130	3	25
1,3-Dichloropropane	94	96	70-130	2	25
1,1,1,2-Tetrachloroethane	96	96	70-130	0	25
o-Chlorotoluene	100	92	70-130	8	25
p-Chlorotoluene	99	93	70-130	6	25
Hexachlorobutadiene	120	118	70-130	2	25
1,2,4-Trichlorobenzene	100	98	70-130	2	25

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		86		70-130
Toluene-d8	103		97		70-130
4-Bromofluorobenzene	100		97		70-130
Dibromofluoromethane	97		96		70-130

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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
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Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG367565-1 WG367565-2					
Methylene chloride	83	84	70-130	1	25
1,1-Dichloroethane	78	81	70-130	4	25
Chloroform	80	80	70-130	0	25
Carbon tetrachloride	82	80	70-130	2	25
1,2-Dichloropropane	80	74	70-130	8	25
Dibromochloromethane	101	97	70-130	4	25
1,1,2-Trichloroethane	101	93	70-130	8	25
Tetrachloroethene	103	97	70-130	6	25
Chlorobenzene	98	99	70-130	1	25
Trichlorofluoromethane	94	95	70-130	1	25
1,2-Dichloroethane	79	79	70-130	0	25
1,1,1-Trichloroethane	73	74	70-130	1	25
Bromodichloromethane	82	81	70-130	1	25
trans-1,3-Dichloropropene	94	91	70-130	3	25
cis-1,3-Dichloropropene	76	71	70-130	7	25
1,1-Dichloropropene	78	74	70-130	5	25
Bromoform	109	103	70-130	6	50
1,1,1,2-Tetrachloroethane	106	107	70-130	1	25
Benzene	78	76	70-130	3	25
Toluene	102	102	70-130	0	25
Ethylbenzene	100	98	70-130	2	25

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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG367565-1 WG367565-2					
Chloromethane	87	88	70-130	1	50
Bromomethane	149	115	70-130	26	50
Vinyl chloride	84	90	70-130	7	25
Chloroethane	84	85	70-130	1	25
1,1-Dichloroethene	82	82	70-130	0	25
trans-1,2-Dichloroethene	76	76	70-130	0	25
Trichloroethene	72	71	70-130	1	25
1,2-Dichlorobenzene	100	102	70-130	2	25
1,3-Dichlorobenzene	101	101	70-130	0	25
1,4-Dichlorobenzene	104	106	70-130	2	25
Methyl tert butyl ether	79	72	70-130	9	25
p/m-Xylene	106	104	70-130	2	25
o-Xylene	110	102	70-130	8	25
cis-1,2-Dichloroethene	78	79	70-130	1	25
Dibromomethane	78	77	70-130	1	25
1,2,3-Trichloropropane	121	125	70-130	3	25
Styrene	104	100	70-130	4	25
Dichlorodifluoromethane	70	72	70-130	3	50
Acetone	85	82	70-130	4	50
Carbon disulfide	80	78	70-130	3	50
2-Butanone	97	99	70-130	2	50



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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0907965

Project Number: 0095922

Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG367565-1 WG367565-2					
4-Methyl-2-pentanone	71	75	70-130	5	50
2-Hexanone	106	89	70-130	17	50
Bromochloromethane	80	83	70-130	4	25
Tetrahydrofuran	109	93	70-130	16	25
2,2-Dichloropropane	75	73	70-130	3	50
1,2-Dibromoethane	94	93	70-130	1	25
1,3-Dichloropropane	103	96	70-130	7	25
1,1,1,2-Tetrachloroethane	107	102	70-130	5	25
Bromobenzene	98	102	70-130	4	25
n-Butylbenzene	90	92	70-130	2	25
sec-Butylbenzene	98	97	70-130	1	25
tert-Butylbenzene	94	94	70-130	0	25
o-Chlorotoluene	97	95	70-130	2	25
p-Chlorotoluene	97	96	70-130	1	25
1,2-Dibromo-3-chloropropane	82	108	70-130	27	50
Hexachlorobutadiene	92	101	70-130	9	25
Isopropylbenzene	97	96	70-130	1	25
p-Isopropyltoluene	100	99	70-130	1	25
Naphthalene	70	74	70-130	6	25
n-Propylbenzene	100	99	70-130	1	25
1,2,3-Trichlorobenzene	77	85	70-130	10	25

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01 Batch: WG367565-1 WG367565-2					
1,2,4-Trichlorobenzene	75	77	70-130	3	25
1,3,5-Trimethylbenzene	97	98	70-130	1	25
1,2,4-Trimethylbenzene	97	97	70-130	0	25
Ethyl ether	99	99	70-130	0	25
Isopropyl Ether	87	82	70-130	6	25
Ethyl-Tert-Butyl-Ether	84	77	70-130	9	25
Tertiary-Amyl Methyl Ether	74	70	70-130	6	25
1,4-Dioxane	113	127	70-130	12	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		100		70-130
Toluene-d8	119		116		70-130
4-Bromofluorobenzene	89		89		70-130
Dibromofluoromethane	96		97		70-130

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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 04 Batch: WG367588-1 WG367588-2					
Methylene chloride	105	96	70-130	9	25
1,1-Dichloroethane	103	92	70-130	11	25
Chloroform	105	94	70-130	11	25
Carbon tetrachloride	111	103	70-130	7	25
1,2-Dichloropropane	104	96	70-130	8	25
Dibromochloromethane	104	102	70-130	2	25
1,1,2-Trichloroethane	103	105	70-130	2	25
Tetrachloroethene	114	102	70-130	11	25
Chlorobenzene	107	100	70-130	7	25
Trichlorofluoromethane	110	97	70-130	13	25
1,2-Dichloroethane	104	95	70-130	9	25
1,1,1-Trichloroethane	108	98	70-130	10	25
Bromodichloromethane	114	105	70-130	8	25
trans-1,3-Dichloropropene	103	104	70-130	1	25
cis-1,3-Dichloropropene	96	90	70-130	6	25
1,1-Dichloropropene	110	98	70-130	12	25
Bromoform	117	115	70-130	2	50
1,1,2,2-Tetrachloroethane	103	100	70-130	3	25
Benzene	107	97	70-130	10	25
Toluene	107	97	70-130	10	25
Ethylbenzene	107	97	70-130	10	25

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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 04 Batch: WG367588-1 WG367588-2					
Chloromethane	83	75	70-130	10	50
Bromomethane	90	78	70-130	14	50
Vinyl chloride	98	92	70-130	6	25
Chloroethane	92	78	70-130	16	25
1,1-Dichloroethene	99	91	70-130	8	25
trans-1,2-Dichloroethene	105	92	70-130	13	25
Trichloroethene	108	95	70-130	13	25
1,2-Dichlorobenzene	107	99	70-130	8	25
1,3-Dichlorobenzene	110	98	70-130	12	25
1,4-Dichlorobenzene	110	101	70-130	9	25
Methyl tert butyl ether	101	99	70-130	2	25
p/m-Xylene	108	99	70-130	9	25
o-Xylene	105	96	70-130	9	25
cis-1,2-Dichloroethene	107	97	70-130	10	25
Dibromomethane	102	98	70-130	4	25
1,2,3-Trichloropropane	108	107	70-130	1	25
Styrene	102	93	70-130	9	25
Dichlorodifluoromethane	70	61	70-130	14	50
Acetone	68	67	70-130	1	50
Carbon disulfide	81	70	70-130	15	50
2-Butanone	80	81	70-130	1	50

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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 04 Batch: WG367588-1 WG367588-2					
4-Methyl-2-pentanone	78	81	70-130	4	50
2-Hexanone	74	77	70-130	4	50
Bromochloromethane	110	101	70-130	9	25
Tetrahydrofuran	73	76	70-130	4	25
2,2-Dichloropropane	110	98	70-130	12	50
1,2-Dibromoethane	105	105	70-130	0	25
1,3-Dichloropropane	105	105	70-130	0	25
1,1,1,2-Tetrachloroethane	112	107	70-130	5	25
Bromobenzene	107	99	70-130	8	25
n-Butylbenzene	105	95	70-130	10	25
sec-Butylbenzene	106	98	70-130	8	25
tert-Butylbenzene	107	98	70-130	9	25
o-Chlorotoluene	90	82	70-130	9	25
p-Chlorotoluene	105	98	70-130	7	25
1,2-Dibromo-3-chloropropane	102	102	70-130	0	50
Hexachlorobutadiene	128	113	70-130	12	25
Isopropylbenzene	108	99	70-130	9	25
p-Isopropyltoluene	110	101	70-130	9	25
Naphthalene	93	101	70-130	8	25
n-Propylbenzene	106	97	70-130	9	25
1,2,3-Trichlorobenzene	102	104	70-130	2	25

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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 04 Batch: WG367588-1 WG367588-2					
1,2,4-Trichlorobenzene	102	100	70-130	2	25
1,3,5-Trimethylbenzene	108	97	70-130	11	25
1,2,4-Trimethylbenzene	105	96	70-130	9	25
Ethyl ether	96	94	70-130	2	25
Isopropyl Ether	99	92	70-130	7	25
Ethyl-Tert-Butyl-Ether	101	99	70-130	2	25
Tertiary-Amyl Methyl Ether	97	94	70-130	3	25
1,4-Dioxane	104	107	70-130	3	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		91		70-130
Toluene-d8	101		102		70-130
4-Bromofluorobenzene	99		95		70-130
Dibromofluoromethane	96		96		70-130



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**Matrix Spike Analysis
Batch Quality Control**

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Parameter	Native Sample	MS Added	MS		MSD		Recovery Limits	RPD	RPD Limits	
			MS Found	%Recovery	MSD Found	%Recovery				
MCP Volatile Organics - Westborough Lab Associated sample(s): 09 QC Batch ID: WG367547-7 WG367547-8 QC Sample: L0907965-09 Client ID: IW-7-20090616-01										
Methylene chloride	ND	10	11	107	11	107	70-130	0	30	
1,1-Dichloroethane	ND	10	11	112	11	110	70-130	2	30	
Chloroform	ND	10	10	104	10	106	70-130	2	30	
Carbon tetrachloride	ND	10	11	115	12	118	70-130	3	30	
1,2-Dichloropropane	ND	10	11	110	11	110	70-130	0	30	
Dibromochloromethane	ND	10	11	106	11	110	70-130	4	30	
1,1,2-Trichloroethane	ND	10	11	107	10	106	70-130	1	30	
Tetrachloroethene	0.58	10	13	121	13	121	70-130	0	30	
Chlorobenzene	ND	10	12	115	11	114	70-130	1	30	
1,2-Dichloroethane	ND	10	10	103	10	103	70-130	0	30	
1,1,1-Trichloroethane	ND	10	11	112	11	115	70-130	3	30	
Bromodichloromethane	ND	10	11	114	11	115	70-130	1	30	
trans-1,3-Dichloropropene	ND	10	10	104	11	106	70-130	2	30	
cis-1,3-Dichloropropene	ND	10	9.6	96	9.8	98	70-130	2	30	
Bromoform	ND	10	12	116	13	126	70-130	8	30	
1,1,2,2-Tetrachloroethane	ND	10	10	106	11	110	70-130	4	30	
Chloromethane	ND	10	8.1	81	9.3	93	70-130	14	30	
Vinyl chloride	9.4	10	19	97	20	105	70-130	8	30	
Chloroethane	ND	10	9.8	98	9.3	93	70-130	5	30	
1,1-Dichloroethene	ND	10	11	107	11	107	70-130	0	30	
trans-1,2-Dichloroethene	ND	10	11	106	11	108	70-130	2	30	

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Matrix Spike Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Parameter	Native Sample	MS Added	MS		MSD		Recovery Limits	RPD	RPD Limits
			MS Found	%Recovery	MSD Found	%Recovery			
MCP Volatile Organics - Westborough Lab Associated sample(s): 09 QC Batch ID: WG367547-7 WG367547-8 QC Sample: L0907965-09 Client ID: IW-7-20090616-01									
Trichloroethene	21	10	31	102	31	107	70-130	5	30
1,2-Dichlorobenzene	ND	10	10	104	11	113	70-130	8	30
1,3-Dichlorobenzene	ND	10	11	106	11	113	70-130	6	30
1,4-Dichlorobenzene	ND	10	11	107	11	114	70-130	6	30
cis-1,2-Dichloroethene	6.4	10	17	109	17	109	70-130	0	30
Dichlorodifluoromethane	ND	10	7.3	68	7.3	68	70-130	0	30
1,2-Dibromoethane	ND	10	11	109	11	109	70-130	0	30
1,3-Dichloropropane	ND	10	11	112	11	110	70-130	2	30
1,1,1,2-Tetrachloroethane	ND	10	13	126	12	121	70-130	4	30
o-Chlorotoluene	ND	10	9.0	90	9.4	94	70-130	4	30
p-Chlorotoluene	ND	10	10	104	11	111	70-130	7	30
Hexachlorobutadiene	ND	10	12	117	13	131	70-130	11	30
1,2,4-Trichlorobenzene	ND	10	9.6	96	10	101	70-130	5	30

Surrogate	MS		MSD		Acceptance Criteria
	% Recovery	Qualifier	% Recovery	Qualifier	
1,2-Dichloroethane-d4	91		90		70-130
4-Bromofluorobenzene	96		97		70-130
Dibromofluoromethane	100		97		70-130
Toluene-d8	102		97		70-130

METALS

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Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-01
Client ID: GALLERY-20090616-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/16/09 08:40
Date Received: 06/16/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Potassium, Dissolved	4.8		mg/l	2.5	1	06/18/09 13:05	06/19/09 09:47	EPA 3005A	60,6010B	AI
Sodium, Dissolved	16		mg/l	2.0	1	06/18/09 13:05	06/19/09 09:47	EPA 3005A	60,6010B	AI



Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-03
Client ID: MW-553-20090616-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/16/09 10:05
Date Received: 06/16/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Potassium, Dissolved	11		mg/l	2.5	1	06/18/09 13:05	06/19/09 10:07	EPA 3005A	60,6010B	AI
Sodium, Dissolved	17		mg/l	2.0	1	06/18/09 13:05	06/19/09 10:07	EPA 3005A	60,6010B	AI



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Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-04
Client ID: IW-9-20090616-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/16/09 09:00
Date Received: 06/16/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Potassium, Dissolved	3.9		mg/l	2.5	1	06/18/09 13:05	06/19/09 10:10	EPA 3005A	60,6010B	AI
Sodium, Dissolved	93		mg/l	2.0	1	06/18/09 13:05	06/19/09 10:10	EPA 3005A	60,6010B	AI



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Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-05
Client ID: IW-8-20090616-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/16/09 10:20
Date Received: 06/16/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Potassium, Dissolved	4.5		mg/l	2.5	1	06/18/09 13:05	06/19/09 10:13	EPA 3005A	60,6010B	AI
Sodium, Dissolved	150		mg/l	2.0	1	06/18/09 13:05	06/19/09 10:13	EPA 3005A	60,6010B	AI



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Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-06
Client ID: IW-10-20090616-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/16/09 11:50
Date Received: 06/16/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Potassium, Dissolved	ND		mg/l	2.5	1	06/18/09 13:05	06/19/09 10:16	EPA 3005A	60,6010B	AI
Sodium, Dissolved	20		mg/l	2.0	1	06/18/09 13:05	06/19/09 10:16	EPA 3005A	60,6010B	AI



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Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-08
Client ID: IW-12-20090616-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/16/09 13:45
Date Received: 06/16/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Potassium, Dissolved	2.7		mg/l	2.5	1	06/18/09 13:05	06/19/09 10:18	EPA 3005A	60,6010B	AI
Sodium, Dissolved	62		mg/l	2.0	1	06/18/09 13:05	06/19/09 10:18	EPA 3005A	60,6010B	AI



06220916:09

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-09
Client ID: IW-7-20090616-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/16/09 12:05
Date Received: 06/16/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Potassium, Dissolved	5.0		mg/l	2.5	1	06/18/09 13:05	06/19/09 09:33	EPA 3005A	60,6010B	AI
Sodium, Dissolved	23		mg/l	2.0	1	06/18/09 13:05	06/19/09 09:33	EPA 3005A	60,6010B	AI



Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-10
Client ID: IW-6-20090616-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/16/09 14:00
Date Received: 06/16/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Potassium, Dissolved	5.5		mg/l	2.5	1	06/18/09 13:05	06/19/09 09:44	EPA 3005A	60,6010B	AI
Sodium, Dissolved	34		mg/l	2.0	1	06/18/09 13:05	06/19/09 09:44	EPA 3005A	60,6010B	AI



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Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 01,03-06,08-10 Batch: WG367395-1									
Potassium, Dissolved	ND		mg/l	2.5	1	06/18/09 13:05	06/19/09 09:22	60,6010B	AI
Sodium, Dissolved	ND		mg/l	2.0	1	06/18/09 13:05	06/19/09 09:22	60,6010B	AI

Prep Information

Digestion Method: EPA 3005A



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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Dissolved Metals - Westborough Lab Associated sample(s): 01,03-06,08-10 Batch: WG367395-2 WG367395-3					
Potassium, Dissolved	100	100	80-120	0	20
Sodium, Dissolved	100	100	80-120	0	20



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Matrix Spike Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Parameter	Native Sample	MS Added	MS Found	MS		MSD		Recovery Limits	RPD	RPD Limits
				%Recovery	MSD Found	%Recovery				
MCP Dissolved Metals - Westborough Lab Associated sample(s): 01,03-06,08-10 QC Batch ID: WG367395-6 WG367395-7 QC Sample: L0907965-09										
Client ID: IW-7-20090616-01										
Potassium, Dissolved	5.0	10	14	90	15	100	75-125	11	20	
Sodium, Dissolved	23	10	32	90	33	100	75-125	11	20	



**INORGANICS
&
MISCELLANEOUS**

06220916:09

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-01
Client ID: GALLERY-20090616-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/16/09 08:40
Date Received: 06/16/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Sulfate	44		mg/l	20	2	06/18/09 10:00	06/18/09 10:00	1,9038	SD
Total Organic Carbon	7.0		mg/l	0.50	1	-	06/18/09 19:09	1,9060	DD



06220916:09

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-04
Client ID: IW-9-20090616-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/16/09 09:00
Date Received: 06/16/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Sulfate	ND		mg/l	10	1	06/18/09 10:00	06/18/09 10:00	1,9038	SD
Total Organic Carbon	88		mg/l	40	80	-	06/18/09 19:09	1,9060	DD



06220916:09

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-05
Client ID: IW-8-20090616-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/16/09 10:20
Date Received: 06/16/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Sulfate	ND		mg/l	10	1	06/18/09 10:00	06/18/09 10:00	1,9038	SD
Total Organic Carbon	140		mg/l	40	80	-	06/18/09 19:09	1,9060	DD



06220916:09

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-06
Client ID: IW-10-20090616-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/16/09 11:50
Date Received: 06/16/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Sulfate	20		mg/l	10	1	06/18/09 10:00	06/18/09 10:00	1,9038	SD
Total Organic Carbon	1.1		mg/l	0.50	1	-	06/18/09 19:09	1,9060	DD



06220916:09

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-08
Client ID: IW-12-20090616-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/16/09 13:45
Date Received: 06/16/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Sulfate	ND		mg/l	10	1	06/18/09 10:00	06/18/09 10:00	1,9038	SD
Total Organic Carbon	37		mg/l	5.0	10	-	06/18/09 19:09	1,9060	DD



06220916:09

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-09
Client ID: IW-7-20090616-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/16/09 12:05
Date Received: 06/16/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Sulfate	72		mg/l	25	2.5	06/18/09 10:00	06/18/09 10:00	1,9038	SD
Total Organic Carbon	1.6		mg/l	0.50	1	-	06/18/09 19:09	1,9060	DD



06220916:09

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

SAMPLE RESULTS

Lab ID: L0907965-10
Client ID: IW-6-20090616-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/16/09 14:00
Date Received: 06/16/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Sulfate	45		mg/l	20	2	06/18/09 10:00	06/18/09 10:00	1,9038	SD
Total Organic Carbon	20		mg/l	5.0	10	-	06/18/09 19:09	1,9060	DD



Project Name: RAYTHEON WAYLAND

Lab Number: L0907965

Project Number: 0095922

Report Date: 06/22/09

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01,04-06,08-10 Batch: WG367429-2								
Total Organic Carbon	ND	mg/l	0.50	1	-	06/18/09 19:09	1,9060	DD
General Chemistry - Westborough Lab for sample(s): 01,04-06,08-10 Batch: WG367454-1								
Sulfate	ND	mg/l	10	1	06/18/09 10:00	06/18/09 10:00	1,9038	SD

06220916:09

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,04-06,08-10 Batch: WG367429-1					
Total Organic Carbon	100	-	90-110	-	
General Chemistry - Westborough Lab Associated sample(s): 01,04-06,08-10 Batch: WG367454-2					
Sulfate	105	-	90-115	-	



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Matrix Spike Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Parameter	Native Sample	MS Added	MS Found	MS		MSD		Recovery Limits	RPD	RPD Limits
				%Recovery	MSD Found	%Recovery				
General Chemistry - Westborough Lab Associated sample(s): 01,04-06,08-10 QC Batch ID: WG367429-3 QC Sample: L0907932-01 Client ID: MS										
Sample										
Total Organic Carbon	ND	4	3.9	97	-	-	80-120	-	20	
General Chemistry - Westborough Lab Associated sample(s): 01,04-06,08-10 QC Batch ID: WG367454-3 QC Sample: L0907950-06 Client ID: MS										
Sample										
Sulfate	ND	20	20	100	-	-	55-147	-	14	



06220916:09

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L0907965
Report Date: 06/22/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,04-06,08-10 QC Batch ID: WG367429-4 QC Sample: L0907965-01 Client ID: GALLERY-20090616-01					
Total Organic Carbon	7.0	7.1	mg/l	1	20
General Chemistry - Westborough Lab Associated sample(s): 01,04-06,08-10 QC Batch ID: WG367454-4 QC Sample: L0907950-06 Client ID: DUP Sample					
Sulfate	ND	ND	mg/l	NC	14



Project Name: RAYTHEON WAYLAND

Lab Number: L0907965

Project Number: 0095922

Report Date: 06/22/09

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
L0907965-01A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-04(14)
L0907965-01B	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-04(14)
L0907965-01C	Vial H2SO4 preserved	A	N/A	3	Y	Absent	TOC-9060(28)
L0907965-01D	Vial H2SO4 preserved	A	N/A	3	Y	Absent	TOC-9060(28)
L0907965-01E	Plastic 250ml unpreserved	A	6	3	Y	Absent	SO4-9038(28)
L0907965-01F	Plastic 500ml HNO3 preserved	A	<2	3	Y	Absent	MCP-NA-6010S(180),MCP-K-6010S(180)
L0907965-02A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-04(14)
L0907965-03A	Plastic 500ml HNO3 preserved	A	<2	3	Y	Absent	MCP-NA-6010S(180),MCP-K-6010S(180)
L0907965-04A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-04(14)
L0907965-04B	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-04(14)
L0907965-04C	Vial H2SO4 preserved	A	N/A	3	Y	Absent	TOC-9060(28)
L0907965-04D	Vial H2SO4 preserved	A	N/A	3	Y	Absent	TOC-9060(28)
L0907965-04E	Plastic 250ml unpreserved	A	6	3	Y	Absent	SO4-9038(28)
L0907965-04F	Plastic 500ml HNO3 preserved	A	<2	3	Y	Absent	MCP-NA-6010S(180),MCP-K-6010S(180)
L0907965-05A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-04(14)
L0907965-05B	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-04(14)
L0907965-05C	Vial H2SO4 preserved	A	N/A	3	Y	Absent	TOC-9060(28)
L0907965-05D	Vial H2SO4 preserved	A	N/A	3	Y	Absent	TOC-9060(28)
L0907965-05E	Plastic 250ml unpreserved	A	6	3	Y	Absent	SO4-9038(28)
L0907965-05F	Plastic 500ml HNO3 preserved	A	<2	3	Y	Absent	MCP-NA-6010S(180),MCP-K-6010S(180)
L0907965-06A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-04(14)
L0907965-06B	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-04(14)
L0907965-06C	Vial H2SO4 preserved	A	N/A	3	Y	Absent	TOC-9060(28)
L0907965-06D	Vial H2SO4 preserved	A	N/A	3	Y	Absent	TOC-9060(28)
L0907965-06E	Plastic 250ml unpreserved	A	6	3	Y	Absent	SO4-9038(28)
L0907965-06F	Plastic 500ml HNO3 preserved	A	<2	3	Y	Absent	MCP-NA-6010S(180),MCP-K-6010S(180)
L0907965-07A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-04(14)
L0907965-07B	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-04(14)
L0907965-08A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-04(14)

*Hold days indicated by values in parentheses

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0907965-08B	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-04(14)
L0907965-08C	Vial H2SO4 preserved	A	N/A	3	Y	Absent	TOC-9060(28)
L0907965-08D	Vial H2SO4 preserved	A	N/A	3	Y	Absent	TOC-9060(28)
L0907965-08E	Plastic 250ml unpreserved	A	6	3	Y	Absent	SO4-9038(28)
L0907965-08F	Plastic 500ml HNO3 preserved	A	<2	3	Y	Absent	MCP-NA-6010S(180),MCP-K-6010S(180)
L0907965-09A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-04(14)
L0907965-09B	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-04(14)
L0907965-09C	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-04(14)
L0907965-09D	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-04(14)
L0907965-09E	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-04(14)
L0907965-09F	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-04(14)
L0907965-09G	Vial H2SO4 preserved	A	N/A	3	Y	Absent	TOC-9060(28)
L0907965-09H	Vial H2SO4 preserved	A	N/A	3	Y	Absent	TOC-9060(28)
L0907965-09I	Plastic 250ml unpreserved	A	6	3	Y	Absent	SO4-9038(28)
L0907965-09J	Plastic 500ml HNO3 preserved	A	<2	3	Y	Absent	MCP-NA-6010S(180),MCP-K-6010S(180)
L0907965-10A	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-04(14)
L0907965-10B	Vial HCl preserved	A	N/A	3	Y	Absent	MCP-8260-04(14)
L0907965-10C	Vial H2SO4 preserved	A	N/A	3	Y	Absent	TOC-9060(28)
L0907965-10D	Vial H2SO4 preserved	A	N/A	3	Y	Absent	TOC-9060(28)
L0907965-10E	Plastic 250ml unpreserved	A	6	3	Y	Absent	SO4-9038(28)
L0907965-10F	Plastic 500ml HNO3 preserved	A	<2	3	Y	Absent	MCP-NA-6010S(180),MCP-K-6010S(180)

Container Comments

L0907965-09C

L0907965-09E

*Hold days indicated by values in parentheses



Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

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.
NI	Not Ignitable.
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 batch duplicate RPD exceeds the acceptance criteria. This flag is not applicable when the sample concentrations are less than 5x the RDL. (Metals only.)

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.
D	Concentration of analyte was quantified from diluted analysis. Flag only applies to 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.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
N	The matrix spike recovery exceeds the acceptance criteria. This flag is not applicable when the sample concentration is greater than 4x the spike added. (Metals only.)
P	The RPD between the results for the two columns exceeds the method-specified criteria.
R	Analytical results are from sample re-analysis.
RE	Analytical results are from sample re-extraction.
J	Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0907965
Report Date: 06/22/09

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 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 Analytical 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 Analytical 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.



Certificate/Approval Program Summary

Last revised June 17, 2009 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. Organic Parameters: Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 150.1, 180.1, 300.0, 353.2, SM2130B, 2320B, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1. Organic Parameters: 504.1, 524.2, SM 6251B.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. Organic Parameters: 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)
(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Nitrite-N, Fluoride, Sulfate)
353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, EPA 150.1, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)
(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), SM6251B, 314.0.

Non-Potable Water

Inorganic Parameters: (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)
(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Ti,V,Zn,Ca,Mg,Na,K)
245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Nitrate-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CN-CE, 2540D, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)
(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCB-Water)
600/4-81-045-PCB-Oil

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.*Drinking Water*

Microbiology Parameters: SM9215B; MF-SM9222B; ENZ. SUB. SM9223; EC-SM9221E; MF-SM9222D; ENZ. SUB. SM9223;

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 110.2, 120.1, 150.1, 300.0, 325.2, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic Parameters: 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 150.1, 300.0, 305.1, 310.1, 325.2, 340.2, 350.1, 350.2, 351.1, 353.2, 354.1, 365.2, 375.4, 376.2, 405.1, 415.1, 420.1, 425.1, 1664A, SW-846 9010, 9030, 9040B, EPA 160.1, 160.2, 160.3, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, 331.0, 110.2, SM2120B, 2510B, 5310C, EPA 150.1, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.1, SM5220D, 4500CI-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.2/1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 8215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 331.0, SM2320B, EPA 300.0, 325.2, 110.2, SM2120B, 4500CN-E, 4500F-C, EPA 150.1, SM4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, EPA 405.1, SM5210B, EPA 410.4, SM5220D, EPA 305.1, SM2310B-4a, EPA 310.1, SM2320B, EPA 200.7, 300.0, 325.2, LACHAT 10-117-07-1A or B, SM4500CI-E, EPA 340.2, SM4500F-C, EPA 375.4, SM15 426C, EPA 350.1, 350.2, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO30F, EPA 354.1, SM4500-NO2-B, EPA 365.2, SM4500P-E, EPA 160.3, EPA 160.1, SM2540C, EPA 160.2, SM2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, 110.2, SM2120B, 335.2, LACHAT 10-204-00-1-A, EPA 150.1, 9040B, SM4500-HB, EPA 1664A, EPA 415.1, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, EPA 376.2, SM4500S-D, EPA 425.1, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, 8021B, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 3005A, 3050B, 3051, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 8021B, 3540C, 3545, 3580, 5030B, 5035.)

Analytical Services Protocol: CLP Volatile Organics, CLP Inorganics, CLP PCB/Pesticides.

Rhode Island Department of Health Certificate/Lab ID: LAO00065. NELAP Accredited via NY-DOH.

Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. **NELAP Accredited.**
Non-Potable Water (Organic Parameters: EPA 3510C, 625, 608, 8081A, 8082, 8151A, 8270C, 8330)
Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

CHAIN OF CUSTODY

Date Rec'd in Lab: 06-16-09

ALPHA Job #: 10907965



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

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

Client Information

Client: ERM
Address: 399 Baylston St.
1st Floor Boston, MA
Phone: (617) 644-7800
Fax: (617) 247-4447
Email: balwan_crist@ERM.com

Project Name: Eastham Waukegan
Project Location: Waukegan, MA
Project #: 0095922
Project Manager: Tison Flattery
ALPHA Quote #:
Turn-Around Time
 Standard RUSH (only confirmed if pre-approved)
Date Due: 06-03-09 Time:

Project Information

Project Name: Eastham Waukegan
Project Location: Waukegan, MA
Project #: 0095922
Project Manager: Tison Flattery
ALPHA Quote #:

Report Information - Data Deliverables

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

Billing Information

State/Fed Program: MA MCP Criteria: GW1
Regulatory Requirements/Report Limits: MA MCP PRESUMPTIVE CERTAINTY ... CT REASONABLE CONFIDENCE PROTO-
Are MCP Analytical Methods Required? Yes No
Are CT RCP (Reasonable Confidence Protocols) Required? Yes No

Other Project Specific Requirements/Comments/Detection Limits:

ANALYSIS
80216 (VOCs)
TOC
SO4
Diss. NatK (FF)

SAMPLE HANDLING
Filtration: Done for diss., etc.
 Not needed
 Lab to do
Preservation: Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Container Type	Preservative	Container Type	Preservative	Date/Time	Date/Time
<u>7965</u>	<u>Gallery-20090616-01</u>	<u>6/14/09</u>	<u>0840</u>	<u>GW</u>	<u>EW</u>	<u>2</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>6/16/09 1545</u>	<u>6/16/09 1545</u>
<u>2</u>	<u>TB-001-20090616-01</u>	<u>6/11/09</u>	<u>1234</u>	<u>-</u>	<u>KR</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>6/16/09 1234</u>	<u>6/16/09 1234</u>
<u>3</u>	<u>MW-553-20090616-01</u>	<u>6/14/09</u>	<u>1305</u>	<u>GW</u>	<u>EW</u>	<u>2</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>6/16/09 1305</u>	<u>6/16/09 1305</u>
<u>4</u>	<u>IW-9-20090616-01</u>		<u>0900</u>		<u>CC</u>	<u>2</u>	<u>2</u>	<u>1</u>	<u>1</u>		
<u>5</u>	<u>IW-8-20090616-01</u>		<u>1020</u>		<u>CC</u>	<u>2</u>	<u>2</u>	<u>1</u>	<u>1</u>		
<u>6</u>	<u>IW-10-20090616-01</u>		<u>1150</u>		<u>EW</u>	<u>2</u>	<u>2</u>	<u>1</u>	<u>1</u>		
<u>7</u>	<u>DUP-001-20090616-01</u>		<u>1111</u>		<u>EW</u>	<u>2</u>	<u>2</u>	<u>1</u>	<u>1</u>		
<u>8</u>	<u>IW-12-20090616-01</u>		<u>1345</u>		<u>EW</u>	<u>2</u>	<u>2</u>	<u>1</u>	<u>1</u>		
<u>9</u>	<u>IW-7-20090616-01</u>		<u>1205</u>		<u>CC</u>	<u>2</u>	<u>2</u>	<u>1</u>	<u>1</u>		
<u>90</u>	<u>IW-7-20090616-01-MS</u>		<u>1205</u>		<u>CC</u>	<u>2</u>	<u>2</u>	<u>1</u>	<u>1</u>		

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By: [Signature]

Date/Time: 6/16/09 1545

Received By: [Signature]

Date/Time: 6/16/09 1545

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 Terms and Conditions.

CHAIN OF CUSTODY

PAGE 2 OF 2



WESTBORO, MA
TEL: 508-998-9220
FAX: 508-998-9193

MANSFIELD, MA
TEL: 508-922-9300
FAX: 508-922-3288

Client Information

Client: ERM
Address: 399 Boylston St.
6th Floor Boston, MA
Phone: (617) 646-7808
Fax: (617) 267-6447
Email: balvacar.frost@erm.com

Project Name: Ralphiem Wayland
Project Location: Wayland, MA
Project #: 0095922
Project Manager: Jason Flattery
ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)
Date Due: 06-23-09 Time:

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

Date Rec'd in Lab: 06-16-09

ALPHA Job #: 10087965

Report Information - Data Deliverables

FAX EMAIL
 ADEx Add'l Deliverables

Billing Information

Same as Client Info PO #:

Regulatory Requirements/Report Limits

State/Fed Program MA MCD Criteria GW 1

MA MCP PRESUMPTIVE CERTAINTY --- CT REASONABLE CONFIDENCE PROTO-

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

ANALYSIS
8021b by 8260
TOC
SO4
Diss. Na+K(FP)

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	Container Type	Preservative	Relinquished By:	Date/Time	Received By:	Date/Time	Sample Specific Comments
		Date	Time									
	<u>Q1 IW-3-20090616-01-MSD</u>	<u>6/16/09</u>	<u>1205</u>	<u>GW</u>	<u>CC R</u>	<u>V V P P</u>		<u>[Signature]</u>	<u>6/16/09 1545</u>	<u>[Signature]</u>	<u>6/16/09 1545</u>	
	<u>Q2 IW-6-20090616-61</u>	<u>6/16/09</u>	<u>1400</u>	<u>GW</u>	<u>CC R R I I</u>	<u>B D A C</u>		<u>[Signature]</u>	<u>6/16/09 19:10</u>	<u>[Signature]</u>	<u>6/16/09 18:20</u>	
(A large diagonal line is drawn across the remaining empty rows of the table.)												

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MAMCP or CT RCP?

Relinquished By:

Date/Time

Received By:

Date/Time

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



ANALYTICAL REPORT

Lab Number:	L0908148
Client:	ERM Consulting & Engineering, Inc. 399 Boylston Street 6th Floor Boston, MA 02116
ATTN:	Jason Flattery
Project Name:	RAYTHEON WAYLAND
Project Number:	0095922
Report Date:	06/25/09

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: 0095922

Lab Number: L0908148
Report Date: 06/25/09

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L0908148-01	IW-11-20090617-01	WAYLAND, MA	06/17/09 09:55
L0908148-02	TB-002-20090617-01	WAYLAND, MA	06/17/09 00:00
L0908148-03	IW-5-20090617-01	WAYLAND, MA	06/17/09 08:45
L0908148-04	MW-551-20090617-01	WAYLAND, MA	06/17/09 11:10
L0908148-05	DUP-002-20090617-01	WAYLAND, MA	06/17/09 20:00
L0908148-06	IW-4-20090617-01	WAYLAND, MA	06/17/09 10:00
L0908148-07	IW-13-20090617-01	WAYLAND, MA	06/17/09 11:10
L0908148-08	IW-14-20090617-01	WAYLAND, MA	06/17/09 12:05
L0908148-09	IW-15-20090617-01	WAYLAND, MA	06/17/09 13:15
L0908148-10	MW-552-20090617-01	WAYLAND, MA	06/17/09 13:25
L0908148-11	MW-261S-20090617-01	WAYLAND, MA	06/17/09 14:45
L0908148-12	IW-1-20090618-01	WAYLAND, MA	06/18/09 13:05
L0908148-13	IW-2-20090618-01	WAYLAND, MA	06/18/09 11:25
L0908148-14	IW-3-20090618-01	WAYLAND, MA	06/18/09 10:05
L0908148-15	TB-003-20090618-01	WAYLAND, MA	06/17/09 00:00

Project Name: RAYTHEON WAYLAND
 Project Number: 0095922

Lab Number: L0908148
 Report Date: 06/25/09

MADEP MCP Response Action Analytical Report Certification

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

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

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

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

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.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. 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.

For additional information, please contact Client Services at 800-624-9220.

MCP Related Narratives

Sample Receipt

The samples were Field Filtered for Dissolved Metals only.

Volatile Organics

L0908148-01, -03, -05 through -09, -12, -13, and -14 have elevated detection limits due to the dilutions required by the elevated concentrations of target compounds in the samples.

In reference to question F:

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

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

Case Narrative continued

Metals

In reference to question F:

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

Non-MCP Related Narratives

Total Organic Carbon

L0908148-01, -03, -07, -09, -10 and -12 have elevated detection limits due to the dilutions required by the elevated concentrations present in the samples.

L0908148-06 and -08 have elevated detection limits due to the dilutions required by the sample matrices.

Sulfate

L0908148-14 has an elevated detection limit due to the dilution required to quantitate the result within the calibration range.

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: 06/25/09

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-01
Client ID: IW-11-20090617-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 06/23/09 20:23
Analyst: GK

Date Collected: 06/17/09 09:55
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Methylene chloride	ND		ug/l	50	10
1,1-Dichloroethane	ND		ug/l	7.5	10
Chloroform	ND		ug/l	7.5	10
Carbon tetrachloride	ND		ug/l	5.0	10
1,2-Dichloropropane	ND		ug/l	18	10
Dibromochloromethane	ND		ug/l	5.0	10
1,1,2-Trichloroethane	ND		ug/l	7.5	10
Tetrachloroethene	13		ug/l	5.0	10
Chlorobenzene	ND		ug/l	5.0	10
1,2-Dichloroethane	ND		ug/l	5.0	10
1,1,1-Trichloroethane	ND		ug/l	5.0	10
Bromodichloromethane	ND		ug/l	5.0	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	10
Bromoform	ND		ug/l	20	10
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	10
Chloromethane	ND		ug/l	25	10
Vinyl chloride	ND		ug/l	10	10
Chloroethane	ND		ug/l	10	10
1,1-Dichloroethene	ND		ug/l	5.0	10
trans-1,2-Dichloroethene	ND		ug/l	7.5	10
Trichloroethene	260		ug/l	5.0	10
1,2-Dichlorobenzene	ND		ug/l	25	10
1,3-Dichlorobenzene	ND		ug/l	25	10
1,4-Dichlorobenzene	ND		ug/l	25	10
cis-1,2-Dichloroethene	390		ug/l	5.0	10
Dichlorodifluoromethane	ND		ug/l	50	10
1,2-Dibromoethane	ND		ug/l	20	10
1,3-Dichloropropane	ND		ug/l	25	10
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	10

06250916:41

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-01
Client ID: IW-11-20090617-01
Sample Location: WAYLAND, MA

Date Collected: 06/17/09 09:55
Date Received: 06/18/09
Field Prep: See Narrative

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	102		70-130



Project Name: RAYTHEON WAYLAND

Lab Number: L0908148

Project Number: 0095922

Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-02
 Client ID: TB-002-20090617-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 06/23/09 12:03
 Analyst: GK

Date Collected: 06/17/09 00:00
 Date Received: 06/18/09
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
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
1,1,1,2-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

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Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-02
Client ID: TB-002-20090617-01
Sample Location: WAYLAND, MA

Date Collected: 06/17/09 00:00
Date Received: 06/18/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
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	85		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	102		70-130



Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-03
Client ID: IW-5-20090617-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 06/23/09 20:55
Analyst: GK

Date Collected: 06/17/09 08:45
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Methylene chloride	ND		ug/l	100	20
1,1-Dichloroethane	ND		ug/l	15	20
Chloroform	ND		ug/l	15	20
Carbon tetrachloride	ND		ug/l	10	20
1,2-Dichloropropane	ND		ug/l	35	20
Dibromochloromethane	ND		ug/l	10	20
1,1,2-Trichloroethane	ND		ug/l	15	20
Tetrachloroethene	41		ug/l	10	20
Chlorobenzene	ND		ug/l	10	20
1,2-Dichloroethane	ND		ug/l	10	20
1,1,1-Trichloroethane	ND		ug/l	10	20
Bromodichloromethane	ND		ug/l	10	20
trans-1,3-Dichloropropene	ND		ug/l	10	20
cis-1,3-Dichloropropene	ND		ug/l	10	20
Bromoform	ND		ug/l	40	20
1,1,1,2-Tetrachloroethane	ND		ug/l	10	20
Chloromethane	ND		ug/l	50	20
Vinyl chloride	65		ug/l	20	20
Chloroethane	ND		ug/l	20	20
1,1-Dichloroethene	ND		ug/l	10	20
trans-1,2-Dichloroethene	ND		ug/l	15	20
Trichloroethene	1300		ug/l	10	20
1,2-Dichlorobenzene	ND		ug/l	50	20
1,3-Dichlorobenzene	ND		ug/l	50	20
1,4-Dichlorobenzene	ND		ug/l	50	20
cis-1,2-Dichloroethene	350		ug/l	10	20
Dichlorodifluoromethane	ND		ug/l	100	20
1,2-Dibromoethane	ND		ug/l	40	20
1,3-Dichloropropane	ND		ug/l	50	20
1,1,1,2-Tetrachloroethane	ND		ug/l	10	20

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Project Name: RAYTHEON WAYLAND
 Project Number: 0095922

Lab Number: L0908148
 Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-03
 Client ID: IW-5-20090617-01
 Sample Location: WAYLAND, MA

Date Collected: 06/17/09 08:45
 Date Received: 06/18/09
 Field Prep: See Narrative

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	102		70-130



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Project Name: RAYTHEON WAYLAND

Lab Number: L0908148

Project Number: 0095922

Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-05
 Client ID: DUP-002-20090617-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 06/23/09 21:27
 Analyst: GK

Date Collected: 06/17/09 20:00
 Date Received: 06/18/09
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Methylene chloride	ND		ug/l	250	50
1,1-Dichloroethane	ND		ug/l	38	50
Chloroform	ND		ug/l	38	50
Carbon tetrachloride	ND		ug/l	25	50
1,2-Dichloropropane	ND		ug/l	88	50
Dibromochloromethane	ND		ug/l	25	50
1,1,2-Trichloroethane	ND		ug/l	38	50
Tetrachloroethene	ND		ug/l	25	50
Chlorobenzene	ND		ug/l	25	50
1,2-Dichloroethane	ND		ug/l	25	50
1,1,1-Trichloroethane	ND		ug/l	25	50
Bromodichloromethane	ND		ug/l	25	50
trans-1,3-Dichloropropene	ND		ug/l	25	50
cis-1,3-Dichloropropene	ND		ug/l	25	50
Bromoform	ND		ug/l	100	50
1,1,1,2-Tetrachloroethane	ND		ug/l	25	50
Chloromethane	ND		ug/l	120	50
Vinyl chloride	900		ug/l	50	50
Chloroethane	ND		ug/l	50	50
1,1-Dichloroethene	ND		ug/l	25	50
trans-1,2-Dichloroethene	ND		ug/l	38	50
Trichloroethene	44		ug/l	25	50
1,2-Dichlorobenzene	ND		ug/l	120	50
1,3-Dichlorobenzene	ND		ug/l	120	50
1,4-Dichlorobenzene	ND		ug/l	120	50
cis-1,2-Dichloroethene	2600		ug/l	25	50
Dichlorodifluoromethane	ND		ug/l	250	50
1,2-Dibromoethane	ND		ug/l	100	50
1,3-Dichloropropane	ND		ug/l	120	50
1,1,1,2-Tetrachloroethane	ND		ug/l	25	50

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Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-05
Client ID: DUP-002-20090617-01
Sample Location: WAYLAND, MA

Date Collected: 06/17/09 20:00
Date Received: 06/18/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
o-Chlorotoluene	ND		ug/l	120	50
p-Chlorotoluene	ND		ug/l	120	50
Hexachlorobutadiene	ND		ug/l	30	50
1,2,4-Trichlorobenzene	ND		ug/l	120	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	97		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-06
Client ID: IW-4-20090617-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 06/24/09 15:09
Analyst: GK

Date Collected: 06/17/09 10:00
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Methylene chloride	ND		ug/l	250	50
1,1-Dichloroethane	ND		ug/l	38	50
Chloroform	ND		ug/l	38	50
Carbon tetrachloride	ND		ug/l	25	50
1,2-Dichloropropane	ND		ug/l	88	50
Dibromochloromethane	ND		ug/l	25	50
1,1,2-Trichloroethane	ND		ug/l	38	50
Tetrachloroethene	ND		ug/l	25	50
Chlorobenzene	ND		ug/l	25	50
1,2-Dichloroethane	ND		ug/l	25	50
1,1,1-Trichloroethane	ND		ug/l	25	50
Bromodichloromethane	ND		ug/l	25	50
trans-1,3-Dichloropropene	ND		ug/l	25	50
cis-1,3-Dichloropropene	ND		ug/l	25	50
Bromoform	ND		ug/l	100	50
1,1,2,2-Tetrachloroethane	ND		ug/l	25	50
Chloromethane	ND		ug/l	120	50
Vinyl chloride	980		ug/l	50	50
Chloroethane	ND		ug/l	50	50
1,1-Dichloroethene	ND		ug/l	25	50
trans-1,2-Dichloroethene	ND		ug/l	38	50
Trichloroethene	40		ug/l	25	50
1,2-Dichlorobenzene	ND		ug/l	120	50
1,3-Dichlorobenzene	ND		ug/l	120	50
1,4-Dichlorobenzene	ND		ug/l	120	50
cis-1,2-Dichloroethene	2700		ug/l	25	50
Dichlorodifluoromethane	ND		ug/l	250	50
1,2-Dibromoethane	ND		ug/l	100	50
1,3-Dichloropropane	ND		ug/l	120	50
1,1,1,2-Tetrachloroethane	ND		ug/l	25	50

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Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-06
 Client ID: IW-4-20090617-01
 Sample Location: WAYLAND, MA

Date Collected: 06/17/09 10:00
 Date Received: 06/18/09
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
o-Chlorotoluene	ND		ug/l	120	50
p-Chlorotoluene	ND		ug/l	120	50
Hexachlorobutadiene	ND		ug/l	30	50
1,2,4-Trichlorobenzene	ND		ug/l	120	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	91		70-130
Dibromofluoromethane	99		70-130

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-07
Client ID: IW-13-20090617-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 06/24/09 15:42
Analyst: GK

Date Collected: 06/17/09 11:10
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Methylene chloride	ND		ug/l	100	20
1,1-Dichloroethane	ND		ug/l	15	20
Chloroform	ND		ug/l	15	20
Carbon tetrachloride	ND		ug/l	10	20
1,2-Dichloropropane	ND		ug/l	35	20
Dibromochloromethane	ND		ug/l	10	20
1,1,2-Trichloroethane	ND		ug/l	15	20
Tetrachloroethene	ND		ug/l	10	20
Chlorobenzene	ND		ug/l	10	20
1,2-Dichloroethane	ND		ug/l	10	20
1,1,1-Trichloroethane	ND		ug/l	10	20
Bromodichloromethane	ND		ug/l	10	20
trans-1,3-Dichloropropene	ND		ug/l	10	20
cis-1,3-Dichloropropene	ND		ug/l	10	20
Bromoform	ND		ug/l	40	20
1,1,2,2-Tetrachloroethane	ND		ug/l	10	20
Chloromethane	ND		ug/l	50	20
Vinyl chloride	21		ug/l	20	20
Chloroethane	ND		ug/l	20	20
1,1-Dichloroethene	ND		ug/l	10	20
trans-1,2-Dichloroethene	ND		ug/l	15	20
Trichloroethene	94		ug/l	10	20
1,2-Dichlorobenzene	ND		ug/l	50	20
1,3-Dichlorobenzene	ND		ug/l	50	20
1,4-Dichlorobenzene	ND		ug/l	50	20
cis-1,2-Dichloroethene	680		ug/l	10	20
Dichlorodifluoromethane	ND		ug/l	100	20
1,2-Dibromoethane	ND		ug/l	40	20
1,3-Dichloropropane	ND		ug/l	50	20
1,1,1,2-Tetrachloroethane	ND		ug/l	10	20

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Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-07
Client ID: IW-13-20090617-01
Sample Location: WAYLAND, MA

Date Collected: 06/17/09 11:10
Date Received: 06/18/09
Field Prep: See Narrative

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	97		70-130



Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-08
Client ID: IW-14-20090617-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 06/24/09 16:14
Analyst: GK

Date Collected: 06/17/09 12:05
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Methylene chloride	ND		ug/l	100	20
1,1-Dichloroethane	ND		ug/l	15	20
Chloroform	ND		ug/l	15	20
Carbon tetrachloride	ND		ug/l	10	20
1,2-Dichloropropane	ND		ug/l	35	20
Dibromochloromethane	ND		ug/l	10	20
1,1,2-Trichloroethane	ND		ug/l	15	20
Tetrachloroethene	ND		ug/l	10	20
Chlorobenzene	24		ug/l	10	20
1,2-Dichloroethane	ND		ug/l	10	20
1,1,1-Trichloroethane	ND		ug/l	10	20
Bromodichloromethane	ND		ug/l	10	20
trans-1,3-Dichloropropene	ND		ug/l	10	20
cis-1,3-Dichloropropene	ND		ug/l	10	20
Bromoform	ND		ug/l	40	20
1,1,2,2-Tetrachloroethane	ND		ug/l	10	20
Chloromethane	ND		ug/l	50	20
Vinyl chloride	140		ug/l	20	20
Chloroethane	ND		ug/l	20	20
1,1-Dichloroethene	ND		ug/l	10	20
trans-1,2-Dichloroethene	ND		ug/l	15	20
Trichloroethene	24		ug/l	10	20
1,2-Dichlorobenzene	ND		ug/l	50	20
1,3-Dichlorobenzene	ND		ug/l	50	20
1,4-Dichlorobenzene	ND		ug/l	50	20
cis-1,2-Dichloroethene	930		ug/l	10	20
Dichlorodifluoromethane	ND		ug/l	100	20
1,2-Dibromoethane	ND		ug/l	40	20
1,3-Dichloropropane	ND		ug/l	50	20
1,1,1,2-Tetrachloroethane	ND		ug/l	10	20

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-08
Client ID: IW-14-20090617-01
Sample Location: WAYLAND, MA

Date Collected: 06/17/09 12:05
Date Received: 06/18/09
Field Prep: See Narrative

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	83		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	97		70-130

Project Name: RAYTHEON WAYLAND

Lab Number: L0908148

Project Number: 0095922

Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-09
 Client ID: IW-15-20090617-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 06/24/09 16:46
 Analyst: GK

Date Collected: 06/17/09 13:15
 Date Received: 06/18/09
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Methylene chloride	ND		ug/l	250	50
1,1-Dichloroethane	ND		ug/l	38	50
Chloroform	ND		ug/l	38	50
Carbon tetrachloride	ND		ug/l	25	50
1,2-Dichloropropane	ND		ug/l	88	50
Dibromochloromethane	ND		ug/l	25	50
1,1,2-Trichloroethane	ND		ug/l	38	50
Tetrachloroethene	39		ug/l	25	50
Chlorobenzene	ND		ug/l	25	50
1,2-Dichloroethane	ND		ug/l	25	50
1,1,1-Trichloroethane	ND		ug/l	25	50
Bromodichloromethane	ND		ug/l	25	50
trans-1,3-Dichloropropene	ND		ug/l	25	50
cis-1,3-Dichloropropene	ND		ug/l	25	50
Bromoform	ND		ug/l	100	50
1,1,2,2-Tetrachloroethane	ND		ug/l	25	50
Chloromethane	ND		ug/l	120	50
Vinyl chloride	ND		ug/l	50	50
Chloroethane	ND		ug/l	50	50
1,1-Dichloroethene	ND		ug/l	25	50
trans-1,2-Dichloroethene	ND		ug/l	38	50
Trichloroethene	2000		ug/l	25	50
1,2-Dichlorobenzene	ND		ug/l	120	50
1,3-Dichlorobenzene	ND		ug/l	120	50
1,4-Dichlorobenzene	ND		ug/l	120	50
cis-1,2-Dichloroethene	1700		ug/l	25	50
Dichlorodifluoromethane	ND		ug/l	250	50
1,2-Dibromoethane	ND		ug/l	100	50
1,3-Dichloropropane	ND		ug/l	120	50
1,1,1,2-Tetrachloroethane	ND		ug/l	25	50

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Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-09
Client ID: IW-15-20090617-01
Sample Location: WAYLAND, MA

Date Collected: 06/17/09 13:15
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
o-Chlorotoluene	ND		ug/l	120	50
p-Chlorotoluene	ND		ug/l	120	50
Hexachlorobutadiene	ND		ug/l	30	50
1,2,4-Trichlorobenzene	ND		ug/l	120	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	85		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	95		70-130



Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-12
Client ID: IW-1-20090618-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 06/24/09 17:18
Analyst: GK

Date Collected: 06/18/09 13:05
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
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	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	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	10		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	20		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	140		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

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Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-12
Client ID: IW-1-20090618-01
Sample Location: WAYLAND, MA

Date Collected: 06/18/09 13:05
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
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	81		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	96		70-130



Project Name: RAYTHEON WAYLAND

Lab Number: L0908148

Project Number: 0095922

Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-13
 Client ID: IW-2-20090618-01
 Sample Location: WAYLAND, MA
 Matrix: Water
 Analytical Method: 60,8260B
 Analytical Date: 06/24/09 17:51
 Analyst: GK

Date Collected: 06/18/09 11:25
 Date Received: 06/18/09
 Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Methylene chloride	ND		ug/l	120	25
1,1-Dichloroethane	ND		ug/l	19	25
Chloroform	ND		ug/l	19	25
Carbon tetrachloride	ND		ug/l	12	25
1,2-Dichloropropane	ND		ug/l	44	25
Dibromochloromethane	ND		ug/l	12	25
1,1,2-Trichloroethane	ND		ug/l	19	25
Tetrachloroethene	ND		ug/l	12	25
Chlorobenzene	ND		ug/l	12	25
1,2-Dichloroethane	ND		ug/l	12	25
1,1,1-Trichloroethane	ND		ug/l	12	25
Bromodichloromethane	ND		ug/l	12	25
trans-1,3-Dichloropropene	ND		ug/l	12	25
cis-1,3-Dichloropropene	ND		ug/l	12	25
Bromoform	ND		ug/l	50	25
1,1,2,2-Tetrachloroethane	ND		ug/l	12	25
Chloromethane	ND		ug/l	62	25
Vinyl chloride	69		ug/l	25	25
Chloroethane	ND		ug/l	25	25
1,1-Dichloroethene	ND		ug/l	12	25
trans-1,2-Dichloroethene	ND		ug/l	19	25
Trichloroethene	47		ug/l	12	25
1,2-Dichlorobenzene	ND		ug/l	62	25
1,3-Dichlorobenzene	ND		ug/l	62	25
1,4-Dichlorobenzene	ND		ug/l	62	25
cis-1,2-Dichloroethene	1300		ug/l	12	25
Dichlorodifluoromethane	ND		ug/l	120	25
1,2-Dibromoethane	ND		ug/l	50	25
1,3-Dichloropropane	ND		ug/l	62	25
1,1,1,2-Tetrachloroethane	ND		ug/l	12	25

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Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-13
Client ID: IW-2-20090618-01
Sample Location: WAYLAND, MA

Date Collected: 06/18/09 11:25
Date Received: 06/18/09
Field Prep: See Narrative

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	84		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	97		70-130



Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-14
Client ID: IW-3-20090618-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 06/24/09 18:23
Analyst: GK

Date Collected: 06/18/09 10:05
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
Methylene chloride	ND		ug/l	500	100
1,1-Dichloroethane	ND		ug/l	75	100
Chloroform	ND		ug/l	75	100
Carbon tetrachloride	ND		ug/l	50	100
1,2-Dichloropropane	ND		ug/l	180	100
Dibromochloromethane	ND		ug/l	50	100
1,1,2-Trichloroethane	ND		ug/l	75	100
Tetrachloroethene	64		ug/l	50	100
Chlorobenzene	ND		ug/l	50	100
1,2-Dichloroethane	ND		ug/l	50	100
1,1,1-Trichloroethane	ND		ug/l	50	100
Bromodichloromethane	ND		ug/l	50	100
trans-1,3-Dichloropropene	ND		ug/l	50	100
cis-1,3-Dichloropropene	ND		ug/l	50	100
Bromoform	ND		ug/l	200	100
1,1,2,2-Tetrachloroethane	ND		ug/l	50	100
Chloromethane	ND		ug/l	250	100
Vinyl chloride	ND		ug/l	100	100
Chloroethane	ND		ug/l	100	100
1,1-Dichloroethene	ND		ug/l	50	100
trans-1,2-Dichloroethene	ND		ug/l	75	100
Trichloroethene	2800		ug/l	50	100
1,2-Dichlorobenzene	ND		ug/l	250	100
1,3-Dichlorobenzene	ND		ug/l	250	100
1,4-Dichlorobenzene	ND		ug/l	250	100
cis-1,2-Dichloroethene	4500		ug/l	50	100
Dichlorodifluoromethane	ND		ug/l	500	100
1,2-Dibromoethane	ND		ug/l	200	100
1,3-Dichloropropane	ND		ug/l	250	100
1,1,1,2-Tetrachloroethane	ND		ug/l	50	100

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Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-14
Client ID: IW-3-20090618-01
Sample Location: WAYLAND, MA

Date Collected: 06/18/09 10:05
Date Received: 06/18/09
Field Prep: See Narrative

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	98		70-130



Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-15
Client ID: TB-003-20090618-01
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 60,8260B
Analytical Date: 06/23/09 12:35
Analyst: GK

Date Collected: 06/17/09 00:00
Date Received: 06/18/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
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
1,1,1,2-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

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Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-15
Client ID: TB-003-20090618-01
Sample Location: WAYLAND, MA

Date Collected: 06/17/09 00:00
Date Received: 06/18/09
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RDL	Dilution Factor
MCP Volatile Organics - Westborough Lab					
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	85		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	101		70-130

Project Name: RAYTHEON WAYLAND
 Project Number: 0095922

Lab Number: L0908148
 Report Date: 06/25/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 06/23/09 11:31
 Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 02,15 Batch: WG368127-3				
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: 0095922

Lab Number: L0908148
 Report Date: 06/25/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 06/23/09 11:31
 Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 02,15 Batch: WG368127-3				
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	86		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	101		70-130

Project Name: RAYTHEON WAYLAND
 Project Number: 0095922

Lab Number: L0908148
 Report Date: 06/25/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 06/23/09 11:47
 Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 01,03,05 Batch: WG368140-3				
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: 0095922

Lab Number: L0908148
 Report Date: 06/25/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 06/23/09 11:47
 Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 01,03,05 Batch: WG368140-3				
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: 0095922

Lab Number: L0908148
Report Date: 06/25/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
Analytical Date: 06/23/09 11:47
Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 01,03,05 Batch: WG368140-3				
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	85		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	97		70-130

Project Name: RAYTHEON WAYLAND
 Project Number: 0095922

Lab Number: L0908148
 Report Date: 06/25/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 06/24/09 12:28
 Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 06-09,12-14 Batch: WG368223-3				
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: 0095922

Lab Number: L0908148
 Report Date: 06/25/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 06/24/09 12:28
 Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 06-09,12-14 Batch: WG368223-3				
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: 0095922

Lab Number: L0908148
 Report Date: 06/25/09

Method Blank Analysis
Batch Quality Control

Analytical Method: 60,8260B
 Analytical Date: 06/24/09 12:28
 Analyst: GK

Parameter	Result	Qualifier	Units	RDL
MCP Volatile Organics - Westborough Lab for sample(s): 06-09,12-14 Batch: WG368223-3				
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
tert-Butyl Alcohol	ND		ug/l	30

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	98		70-130

06250916:41

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02,15 Batch: WG368127-1 WG368127-2					
Methylene chloride	96	94	70-130	2	25
1,1-Dichloroethane	93	92	70-130	1	25
Chloroform	90	88	70-130	2	25
Carbon tetrachloride	93	87	70-130	7	25
1,2-Dichloropropane	100	96	70-130	4	25
Dibromochloromethane	90	91	70-130	1	25
1,1,2-Trichloroethane	95	93	70-130	2	25
Tetrachloroethene	106	102	70-130	4	25
Chlorobenzene	98	97	70-130	1	25
1,2-Dichloroethane	84	89	70-130	6	25
1,1,1-Trichloroethane	94	90	70-130	4	25
Bromodichloromethane	96	93	70-130	3	25
trans-1,3-Dichloropropene	105	108	70-130	3	25
cis-1,3-Dichloropropene	84	86	70-130	2	25
Bromoform	85	90	70-130	6	50
1,1,2,2-Tetrachloroethane	78	88	70-130	12	25
Chloromethane	107	100	70-130	7	50
Vinyl chloride	103	98	70-130	5	25
Chloroethane	92	90	70-130	2	25
1,1-Dichloroethene	99	96	70-130	3	25
trans-1,2-Dichloroethene	103	95	70-130	8	25

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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 02,15 Batch: WG368127-1 WG368127-2					
Trichloroethene	99	94	70-130	5	25
1,2-Dichlorobenzene	96	101	70-130	5	25
1,3-Dichlorobenzene	97	102	70-130	5	25
1,4-Dichlorobenzene	99	103	70-130	4	25
cis-1,2-Dichloroethene	104	102	70-130	2	25
Dichlorodifluoromethane	103	96	70-130	7	50
1,2-Dibromoethane	96	100	70-130	4	25
1,3-Dichloropropane	94	94	70-130	0	25
1,1,1,2-Tetrachloroethane	97	98	70-130	1	25
o-Chlorotoluene	90	93	70-130	3	25
p-Chlorotoluene	90	95	70-130	5	25
Hexachlorobutadiene	104	108	70-130	4	25
1,2,4-Trichlorobenzene	127	130	70-130	2	25

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	84		81		70-130
Toluene-d8	97		98		70-130
4-Bromofluorobenzene	88		93		70-130
Dibromofluoromethane	96		95		70-130



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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,03,05 Batch: WG368140-1 WG368140-2					
Methylene chloride	103	98	70-130	5	25
1,1-Dichloroethane	94	91	70-130	3	25
Chloroform	90	92	70-130	2	25
Carbon tetrachloride	98	94	70-130	4	25
1,2-Dichloropropane	97	95	70-130	2	25
Dibromochloromethane	92	92	70-130	0	25
1,1,2-Trichloroethane	96	95	70-130	1	25
Tetrachloroethene	105	103	70-130	2	25
Chlorobenzene	101	99	70-130	2	25
Trichlorofluoromethane	98	93	70-130	5	25
1,2-Dichloroethane	89	84	70-130	6	25
1,1,1-Trichloroethane	97	93	70-130	4	25
Bromodichloromethane	101	95	70-130	6	25
trans-1,3-Dichloropropene	95	93	70-130	2	25
cis-1,3-Dichloropropene	90	87	70-130	3	25
1,1-Dichloropropene	100	98	70-130	2	25
Bromoform	108	105	70-130	3	50
1,1,2,2-Tetrachloroethane	92	88	70-130	4	25
Benzene	101	97	70-130	4	25
Toluene	99	98	70-130	1	25
Ethylbenzene	95	95	70-130	0	25

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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,03,05 Batch: WG368140-1 WG368140-2					
Chloromethane	96	90	70-130	6	50
Bromomethane	89	95	70-130	7	50
Vinyl chloride	107	100	70-130	7	25
Chloroethane	88	87	70-130	1	25
1,1-Dichloroethene	95	93	70-130	2	25
trans-1,2-Dichloroethene	98	98	70-130	0	25
Trichloroethene	98	95	70-130	3	25
1,2-Dichlorobenzene	98	95	70-130	3	25
1,3-Dichlorobenzene	98	98	70-130	0	25
1,4-Dichlorobenzene	101	99	70-130	2	25
Methyl tert butyl ether	102	96	70-130	6	25
p/m-Xylene	100	96	70-130	4	25
o-Xylene	102	101	70-130	1	25
cis-1,2-Dichloroethene	105	99	70-130	6	25
Dibromomethane	96	95	70-130	1	25
1,2,3-Trichloropropane	94	96	70-130	2	25
Styrene	97	98	70-130	1	25
Dichlorodifluoromethane	99	94	70-130	5	50
Acetone	76	73	70-130	4	50
Carbon disulfide	98	94	70-130	4	50
2-Butanone	93	87	70-130	7	50

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0908148

Project Number: 0095922

Report Date: 06/25/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,03,05 Batch: WG368140-1 WG368140-2					
4-Methyl-2-pentanone	96	91	70-130	5	50
2-Hexanone	85	84	70-130	1	50
Bromochloromethane	104	104	70-130	0	25
Tetrahydrofuran	77	72	70-130	7	25
2,2-Dichloropropane	105	101	70-130	4	50
1,2-Dibromoethane	102	99	70-130	3	25
1,3-Dichloropropane	97	96	70-130	1	25
1,1,1,2-Tetrachloroethane	102	98	70-130	4	25
Bromobenzene	100	98	70-130	2	25
n-Butylbenzene	94	92	70-130	2	25
sec-Butylbenzene	95	95	70-130	0	25
tert-Butylbenzene	96	95	70-130	1	25
o-Chlorotoluene	91	88	70-130	3	25
p-Chlorotoluene	95	93	70-130	2	25
1,2-Dibromo-3-chloropropane	90	91	70-130	1	50
Hexachlorobutadiene	110	112	70-130	2	25
Isopropylbenzene	99	97	70-130	2	25
p-Isopropyltoluene	99	98	70-130	1	25
Naphthalene	91	92	70-130	1	25
n-Propylbenzene	94	93	70-130	1	25
1,2,3-Trichlorobenzene	95	97	70-130	2	25

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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 01,03,05 Batch: WG368140-1 WG368140-2					
1,2,4-Trichlorobenzene	98	96	70-130	2	25
1,3,5-Trimethylbenzene	93	93	70-130	0	25
1,2,4-Trimethylbenzene	94	93	70-130	1	25
Ethyl ether	99	93	70-130	6	25
Isopropyl Ether	93	91	70-130	2	25
Ethyl-Tert-Butyl-Ether	105	102	70-130	3	25
Tertiary-Amyl Methyl Ether	104	94	70-130	10	25
1,4-Dioxane	102	97	70-130	5	50

Surrogate	LCS %Recovery	Qualifier	LCSD %Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	84		85		70-130
Toluene-d8	101		96		70-130
4-Bromofluorobenzene	93		90		70-130
Dibromofluoromethane	99		96		70-130

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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0908148

Project Number: 0095922

Report Date: 06/25/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 06-09,12-14 Batch: WG368223-1 WG368223-2					
Methylene chloride	101	94	70-130	7	25
1,1-Dichloroethane	91	89	70-130	2	25
Chloroform	93	88	70-130	6	25
Carbon tetrachloride	95	96	70-130	1	25
1,2-Dichloropropane	100	96	70-130	4	25
Dibromochloromethane	107	104	70-130	3	25
1,1,2-Trichloroethane	110	106	70-130	4	25
Tetrachloroethene	107	108	70-130	1	25
Chlorobenzene	108	107	70-130	1	25
Trichlorofluoromethane	94	92	70-130	2	25
1,2-Dichloroethane	88	85	70-130	3	25
1,1,1-Trichloroethane	95	92	70-130	3	25
Bromodichloromethane	105	101	70-130	4	25
trans-1,3-Dichloropropene	101	103	70-130	2	25
cis-1,3-Dichloropropene	95	90	70-130	5	25
1,1-Dichloropropene	97	96	70-130	1	25
Bromoform	124	122	70-130	2	50
1,1,2,2-Tetrachloroethane	110	102	70-130	8	25
Benzene	99	96	70-130	3	25
Toluene	101	102	70-130	1	25
Ethylbenzene	101	100	70-130	1	25

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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 06-09,12-14 Batch: WG368223-1 WG368223-2					
Chloromethane	88	83	70-130	6	50
Bromomethane	83	87	70-130	5	50
Vinyl chloride	99	96	70-130	3	25
Chloroethane	84	84	70-130	0	25
1,1-Dichloroethene	92	91	70-130	1	25
trans-1,2-Dichloroethene	98	94	70-130	4	25
Trichloroethene	97	96	70-130	1	25
1,2-Dichlorobenzene	112	103	70-130	8	25
1,3-Dichlorobenzene	111	106	70-130	5	25
1,4-Dichlorobenzene	111	109	70-130	3	25
Methyl tert butyl ether	116	108	70-130	7	25
p/m-Xylene	103	104	70-130	1	25
o-Xylene	116	112	70-130	4	25
cis-1,2-Dichloroethene	103	96	70-130	7	25
Dibromomethane	98	100	70-130	2	25
1,2,3-Trichloropropane	110	98	70-130	12	25
Styrene	111	109	70-130	2	25
Dichlorodifluoromethane	88	86	70-130	2	50
Acetone	84	77	70-130	9	50
Carbon disulfide	94	94	70-130	0	50
2-Butanone	106	94	70-130	12	50

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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 06-09,12-14 Batch: WG368223-1 WG368223-2					
4-Methyl-2-pentanone	107	98	70-130	9	50
2-Hexanone	96	87	70-130	10	50
Bromochloromethane	107	101	70-130	6	25
Tetrahydrofuran	87	83	70-130	5	25
2,2-Dichloropropane	102	98	70-130	4	50
1,2-Dibromoethane	107	107	70-130	0	25
1,3-Dichloropropane	107	105	70-130	2	25
1,1,1,2-Tetrachloroethane	118	113	70-130	4	25
Bromobenzene	110	109	70-130	1	25
n-Butylbenzene	102	96	70-130	6	25
sec-Butylbenzene	105	98	70-130	7	25
tert-Butylbenzene	106	98	70-130	8	25
o-Chlorotoluene	100	94	70-130	6	25
p-Chlorotoluene	105	99	70-130	6	25
1,2-Dibromo-3-chloropropane	106	102	70-130	4	50
Hexachlorobutadiene	119	120	70-130	1	25
Isopropylbenzene	105	103	70-130	2	25
p-Isopropyltoluene	112	104	70-130	7	25
Naphthalene	100	99	70-130	1	25
n-Propylbenzene	102	98	70-130	4	25
1,2,3-Trichlorobenzene	111	106	70-130	5	25

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Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Volatile Organics - Westborough Lab Associated sample(s): 06-09,12-14 Batch: WG368223-1 WG368223-2					
1,2,4-Trichlorobenzene	108	102	70-130	6	25
1,3,5-Trimethylbenzene	104	98	70-130	6	25
1,2,4-Trimethylbenzene	106	99	70-130	7	25
Ethyl ether	111	104	70-130	7	25
Isopropyl Ether	110	104	70-130	6	25
Ethyl-Tert-Butyl-Ether	122	116	70-130	5	25
Tertiary-Amyl Methyl Ether	118	111	70-130	6	25
1,4-Dioxane	117	100	70-130	16	50
tert-Butyl Alcohol	112	108	70-130	4	50

Surrogate	LCS %Recovery Qualifier	LCSD %Recovery Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	82	81	70-130
Toluene-d8	95	97	70-130
4-Bromofluorobenzene	91	92	70-130
Dibromofluoromethane	91	91	70-130



METALS

06250916:41

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-01
Client ID: IW-11-20090617-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/17/09 09:55
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Potassium, Dissolved	6.0		mg/l	2.5	1	06/22/09 14:15	06/24/09 12:59	EPA 3005A	60,6010B	TD
Sodium, Dissolved	130		mg/l	2.0	1	06/22/09 14:15	06/24/09 12:59	EPA 3005A	60,6010B	TD



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Project Name: RAYTHEON WAYLAND

Lab Number: L0908148

Project Number: 0095922

Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-03
Client ID: IW-5-20090617-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/17/09 08:45
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Potassium, Dissolved	21		mg/l	2.5	1	06/22/09 14:15	06/24/09 13:02	EPA 3005A	60,6010B	TD
Sodium, Dissolved	120		mg/l	2.0	1	06/22/09 14:15	06/24/09 13:02	EPA 3005A	60,6010B	TD



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Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-04
Client ID: MW-551-20090617-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/17/09 11:10
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Potassium, Dissolved	3.3		mg/l	2.5	1	06/22/09 14:15	06/24/09 13:05	EPA 3005A	60,6010B	TD
Sodium, Dissolved	14		mg/l	2.0	1	06/22/09 14:15	06/24/09 13:05	EPA 3005A	60,6010B	TD



06250916:41

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-06
Client ID: IW-4-20090617-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/17/09 10:00
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Potassium, Dissolved	5.5		mg/l	2.5	1	06/22/09 14:15	06/24/09 13:08	EPA 3005A	60,6010B	TD
Sodium, Dissolved	36		mg/l	2.0	1	06/22/09 14:15	06/24/09 13:08	EPA 3005A	60,6010B	TD



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Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-07
Client ID: IW-13-20090617-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/17/09 11:10
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Potassium, Dissolved	4.9		mg/l	2.5	1	06/22/09 14:15	06/24/09 13:10	EPA 3005A	60,6010B	TD
Sodium, Dissolved	52		mg/l	2.0	1	06/22/09 14:15	06/24/09 13:10	EPA 3005A	60,6010B	TD



06250916:41

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-08
Client ID: IW-14-20090617-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/17/09 12:05
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Potassium, Dissolved	4.2		mg/l	2.5	1	06/22/09 14:15	06/24/09 13:13	EPA 3005A	60,6010B	TD
Sodium, Dissolved	18		mg/l	2.0	1	06/22/09 14:15	06/24/09 13:13	EPA 3005A	60,6010B	TD



06250916:41

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-09
Client ID: IW-15-20090617-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/17/09 13:15
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Potassium, Dissolved	4.6		mg/l	2.5	1	06/22/09 14:15	06/24/09 13:16	EPA 3005A	60,6010B	TD
Sodium, Dissolved	92		mg/l	2.0	1	06/22/09 14:15	06/24/09 13:16	EPA 3005A	60,6010B	TD



Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-10
Client ID: MW-552-20090617-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/17/09 13:25
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Potassium, Dissolved	ND		mg/l	2.5	1	06/22/09 14:15	06/24/09 13:48	EPA 3005A	60,6010B	TD
Sodium, Dissolved	14		mg/l	2.0	1	06/22/09 14:15	06/24/09 13:48	EPA 3005A	60,6010B	TD



06250916:41

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-11
Client ID: MW-261S-20090617-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/17/09 14:45
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Potassium, Dissolved	ND		mg/l	2.5	1	06/22/09 14:15	06/24/09 13:51	EPA 3005A	60,6010B	TD
Sodium, Dissolved	11		mg/l	2.0	1	06/22/09 14:15	06/24/09 13:51	EPA 3005A	60,6010B	TD



06250916:41

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-12
Client ID: IW-1-20090618-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/18/09 13:05
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Potassium, Dissolved	25		mg/l	2.5	1	06/22/09 14:15	06/24/09 13:54	EPA 3005A	60,6010B	TD
Sodium, Dissolved	83		mg/l	2.0	1	06/22/09 14:15	06/24/09 13:54	EPA 3005A	60,6010B	TD



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Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-13
Client ID: IW-2-20090618-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/18/09 11:25
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Potassium, Dissolved	7.8		mg/l	2.5	1	06/22/09 14:15	06/24/09 13:56	EPA 3005A	60,6010B	TD
Sodium, Dissolved	66		mg/l	2.0	1	06/22/09 14:15	06/24/09 13:56	EPA 3005A	60,6010B	TD



06250916:41

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-14
Client ID: IW-3-20090618-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/18/09 10:05
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab										
Potassium, Dissolved	ND		mg/l	2.5	1	06/22/09 14:15	06/24/09 13:59	EPA 3005A	60,6010B	TD
Sodium, Dissolved	36		mg/l	2.0	1	06/22/09 14:15	06/24/09 13:59	EPA 3005A	60,6010B	TD



06250916:41

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
MCP Dissolved Metals - Westborough Lab for sample(s): 01,03-04,06-14					Batch: WG367835-1			
Potassium, Dissolved	ND	mg/l	2.5	1	06/22/09 14:15	06/24/09 12:13	60,6010B	TD
Sodium, Dissolved	ND	mg/l	2.0	1	06/22/09 14:15	06/24/09 12:13	60,6010B	TD

Prep Information

Digestion Method: EPA 3005A



06250916:41

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
MCP Dissolved Metals - Westborough Lab	Associated sample(s):	01,03-04,06-14	Batch: WG367835-2	WG367835-3	
Potassium, Dissolved	96	94	80-120	2	20
Sodium, Dissolved	98	96	80-120	2	20



**INORGANICS
&
MISCELLANEOUS**

06250916:41

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-01
Client ID: IW-11-20090617-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/17/09 09:55
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Sulfate	ND		mg/l	10	1	06/24/09 11:45	06/24/09 11:45	1,9038	SD
Total Organic Carbon	140		mg/l	10	20	-	06/24/09 03:49	1,9060	DW



06250916:41

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-03
Client ID: IW-5-20090617-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/17/09 08:45
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Sulfate	ND		mg/l	10	1	06/24/09 11:45	06/24/09 11:45	1,9038	SD
Total Organic Carbon	80		mg/l	5.0	10	-	06/24/09 03:49	1,9060	DW



Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-06
Client ID: IW-4-20090617-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/17/09 10:00
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Sulfate	15		mg/l	10	1	06/24/09 11:45	06/24/09 11:45	1,9038	SD
Total Organic Carbon	9.7		mg/l	2.0	4	-	06/24/09 03:49	1,9060	DW

06250916:41

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-07
Client ID: IW-13-20090617-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/17/09 11:10
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Sulfate	33		mg/l	10	1	06/24/09 11:45	06/24/09 11:45	1,9038	SD
Total Organic Carbon	34		mg/l	5.0	10	-	06/24/09 03:49	1,9060	DW



06250916:41

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-08
Client ID: IW-14-20090617-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/17/09 12:05
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Sulfate	31		mg/l	10	1	06/24/09 11:45	06/24/09 11:45	1,9038	SD
Total Organic Carbon	6.1		mg/l	1.0	2	-	06/24/09 03:49	1,9060	DW



06250916:41

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-09
Client ID: IW-15-20090617-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/17/09 13:15
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Sulfate	37		mg/l	10	1	06/24/09 11:45	06/24/09 11:45	1,9038	SD
Total Organic Carbon	54		mg/l	5.0	10	-	06/24/09 03:49	1,9060	DW



06250916:41

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-12
Client ID: IW-1-20090618-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/18/09 13:05
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Sulfate	ND		mg/l	10	1	06/24/09 11:45	06/24/09 11:45	1,9038	SD
Total Organic Carbon	59		mg/l	5.0	10	-	06/24/09 03:49	1,9060	DW



06250916:41

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-13
Client ID: IW-2-20090618-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/18/09 11:25
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Sulfate	27		mg/l	10	1	06/24/09 11:45	06/24/09 11:45	1,9038	SD
Total Organic Carbon	3.0		mg/l	0.50	1	-	06/24/09 03:49	1,9060	DW



06250916:41

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

SAMPLE RESULTS

Lab ID: L0908148-14
Client ID: IW-3-20090618-01
Sample Location: WAYLAND, MA
Matrix: Water

Date Collected: 06/18/09 10:05
Date Received: 06/18/09
Field Prep: See Narrative

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab									
Sulfate	60		mg/l	20	2	06/24/09 11:45	06/24/09 11:45	1,9038	SD
Total Organic Carbon	1.8		mg/l	0.50	1	-	06/24/09 03:49	1,9060	DW



06250916:41

Project Name: RAYTHEON WAYLAND

Lab Number: L0908148

Project Number: 0095922

Report Date: 06/25/09

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01,03,06-09,12-14 Batch: WG368215-1									
Sulfate	ND		mg/l	10	1	06/24/09 11:45	06/24/09 11:45	1,9038	SD
General Chemistry - Westborough Lab for sample(s): 01,03,06-09,12-14 Batch: WG368230-1									
Total Organic Carbon	ND		mg/l	0.50	1	-	06/24/09 03:49	1,9060	DW



06250916:41

Lab Control Sample Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND

Lab Number: L0908148

Project Number: 0095922

Report Date: 06/25/09

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03,06-09,12-14 Batch: WG368215-2					
Sulfate	105	-	90-115	-	
General Chemistry - Westborough Lab Associated sample(s): 01,03,06-09,12-14 Batch: WG368230-2					
Total Organic Carbon	98	-	90-110	-	

06250916:41

Matrix Spike Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

Parameter	Native Sample	MS Added	MS Found	MS		MSD		Recovery Limits	RPD	RPD Limits
				%Recovery	MSD Found	%Recovery				
General Chemistry - Westborough Lab Associated sample(s): 01,03,06-09,12-14 QC Batch ID: WG368215-3 QC Sample: L0908350-04 Client ID: MS										
Sample										
Sulfate	11	20	35	120	-	-	55-147	-	14	
General Chemistry - Westborough Lab Associated sample(s): 01,03,06-09,12-14 QC Batch ID: WG368230-3 QC Sample: L0908148-07 Client ID: IW-										
13-20090617-01										
Total Organic Carbon	34	40	75	102	-	-	80-120	-	20	



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Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L0908148
Report Date: 06/25/09

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,03,06-09,12-14 QC Batch ID: WG368215-4 QC Sample: L0908350-04 Client ID: DUP Sample					
Sulfate	11	11	mg/l	0	14
General Chemistry - Westborough Lab Associated sample(s): 01,03,06-09,12-14 QC Batch ID: WG368230-4 QC Sample: L0908148-07 Client ID: IW-13-20090617-01					
Total Organic Carbon	34	35	mg/l	3	20

Project Name: RAYTHEON WAYLAND
 Project Number: 0095922

Lab Number: L0908148
 Report Date: 06/25/09

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
L0908148-01A	Vial HCl preserved	A	N/A	3.7	Y	Absent	MCP-8260-04(14)
L0908148-01B	Vial HCl preserved	A	N/A	3.7	Y	Absent	MCP-8260-04(14)
L0908148-01C	Vial H2SO4 preserved	A	N/A	3.7	Y	Absent	TOC-9060(28)
L0908148-01D	Vial H2SO4 preserved	A	N/A	3.7	Y	Absent	TOC-9060(28)
L0908148-01E	Plastic 250ml unpreserved	A	7	3.7	Y	Absent	SO4-9038(28)
L0908148-01F	Plastic 250ml HNO3 preserved	A	<2	3.7	Y	Absent	MCP-NA-6010S(180),MCP-K-6010S(180)
L0908148-02A	Vial HCl preserved	A	N/A	3.7	Y	Absent	MCP-8260-04(14)
L0908148-03A	Vial HCl preserved	A	N/A	3.7	Y	Absent	MCP-8260-04(14)
L0908148-03B	Vial HCl preserved	A	N/A	3.7	Y	Absent	MCP-8260-04(14)
L0908148-03C	Vial H2SO4 preserved	A	N/A	3.7	Y	Absent	TOC-9060(28)
L0908148-03D	Vial H2SO4 preserved	A	N/A	3.7	Y	Absent	TOC-9060(28)
L0908148-03E	Plastic 250ml unpreserved	A	7	3.7	Y	Absent	SO4-9038(28)
L0908148-03F	Plastic 250ml HNO3 preserved	A	<2	3.7	Y	Absent	MCP-NA-6010S(180),MCP-K-6010S(180)
L0908148-04A	Plastic 250ml HNO3 preserved	A	<2	3.7	Y	Absent	MCP-NA-6010S(180),MCP-K-6010S(180)
L0908148-05A	Vial HCl preserved	A	N/A	3.7	Y	Absent	MCP-8260-04(14)
L0908148-05B	Vial HCl preserved	A	N/A	3.7	Y	Absent	MCP-8260-04(14)
L0908148-06A	Vial HCl preserved	A	N/A	3.7	Y	Absent	MCP-8260-04(14)
L0908148-06B	Vial HCl preserved	A	N/A	3.7	Y	Absent	MCP-8260-04(14)
L0908148-06C	Vial H2SO4 preserved	A	N/A	3.7	Y	Absent	TOC-9060(28)
L0908148-06D	Vial H2SO4 preserved	A	N/A	3.7	Y	Absent	TOC-9060(28)
L0908148-06E	Plastic 250ml unpreserved	A	7	3.7	Y	Absent	SO4-9038(28)
L0908148-06F	Plastic 250ml HNO3 preserved	A	<2	3.7	Y	Absent	MCP-NA-6010S(180),MCP-K-6010S(180)
L0908148-07A	Vial HCl preserved	A	N/A	3.7	Y	Absent	MCP-8260-04(14)
L0908148-07B	Vial HCl preserved	A	N/A	3.7	Y	Absent	MCP-8260-04(14)
L0908148-07C	Vial H2SO4 preserved	A	N/A	3.7	Y	Absent	TOC-9060(28)
L0908148-07D	Vial H2SO4 preserved	A	N/A	3.7	Y	Absent	TOC-9060(28)
L0908148-07E	Plastic 250ml unpreserved	A	7	3.7	Y	Absent	SO4-9038(28)
L0908148-07F	Plastic 250ml HNO3 preserved	A	<2	3.7	Y	Absent	MCP-NA-6010S(180),MCP-K-6010S(180)
L0908148-08A	Vial HCl preserved	A	N/A	3.7	Y	Absent	MCP-8260-04(14)

*Hold days indicated by values in parentheses



Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

Container Information

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0908148-08B	Vial HCl preserved	A	N/A	3.7	Y	Absent	MCP-8260-04(14)
L0908148-08C	Vial H2SO4 preserved	A	N/A	3.7	Y	Absent	TOC-9060(28)
L0908148-08D	Vial H2SO4 preserved	A	N/A	3.7	Y	Absent	TOC-9060(28)
L0908148-08E	Plastic 250ml unpreserved	A	7	3.7	Y	Absent	SO4-9038(28)
L0908148-08F	Plastic 250ml HNO3 preserved	A	<2	3.7	Y	Absent	MCP-NA-6010S(180),MCP-K-6010S(180)
L0908148-09A	Vial HCl preserved	A	N/A	3.7	Y	Absent	MCP-8260-04(14)
L0908148-09B	Vial HCl preserved	A	N/A	3.7	Y	Absent	MCP-8260-04(14)
L0908148-09C	Vial H2SO4 preserved	A	N/A	3.7	Y	Absent	TOC-9060(28)
L0908148-09D	Vial H2SO4 preserved	A	N/A	3.7	Y	Absent	TOC-9060(28)
L0908148-09E	Plastic 250ml unpreserved	A	7	3.7	Y	Absent	SO4-9038(28)
L0908148-09F	Plastic 250ml HNO3 preserved	A	<2	3.7	Y	Absent	MCP-NA-6010S(180),MCP-K-6010S(180)
L0908148-10A	Plastic 250ml HNO3 preserved	A	<2	3.7	Y	Absent	MCP-NA-6010S(180),MCP-K-6010S(180)
L0908148-11A	Plastic 250ml HNO3 preserved	A	<2	3.7	Y	Absent	MCP-NA-6010S(180),MCP-K-6010S(180)
L0908148-12A	Vial HCl preserved	A	N/A	3.7	Y	Absent	MCP-8260-04(14)
L0908148-12B	Vial HCl preserved	A	N/A	3.7	Y	Absent	MCP-8260-04(14)
L0908148-12C	Vial H2SO4 preserved	A	N/A	3.7	Y	Absent	TOC-9060(28)
L0908148-12D	Vial H2SO4 preserved	A	N/A	3.7	Y	Absent	TOC-9060(28)
L0908148-12E	Plastic 250ml unpreserved	A	7	3.7	Y	Absent	SO4-9038(28)
L0908148-12F	Plastic 250ml HNO3 preserved	A	<2	3.7	Y	Absent	MCP-NA-6010S(180),MCP-K-6010S(180)
L0908148-13A	Vial HCl preserved	A	N/A	3.7	Y	Absent	MCP-8260-04(14)
L0908148-13B	Vial HCl preserved	A	N/A	3.7	Y	Absent	MCP-8260-04(14)
L0908148-13C	Vial H2SO4 preserved	A	N/A	3.7	Y	Absent	TOC-9060(28)
L0908148-13D	Vial H2SO4 preserved	A	N/A	3.7	Y	Absent	TOC-9060(28)
L0908148-13E	Plastic 250ml unpreserved	A	7	3.7	Y	Absent	SO4-9038(28)
L0908148-13F	Plastic 250ml HNO3 preserved	A	<2	3.7	Y	Absent	MCP-NA-6010S(180),MCP-K-6010S(180)
L0908148-14A	Vial HCl preserved	A	N/A	3.7	Y	Absent	MCP-8260-04(14)
L0908148-14B	Vial HCl preserved	A	N/A	3.7	Y	Absent	MCP-8260-04(14)
L0908148-14C	Vial H2SO4 preserved	A	N/A	3.7	Y	Absent	TOC-9060(28)
L0908148-14D	Vial H2SO4 preserved	A	N/A	3.7	Y	Absent	TOC-9060(28)
L0908148-14E	Plastic 250ml unpreserved	A	7	3.7	Y	Absent	SO4-9038(28)
L0908148-14F	Plastic 250ml HNO3 preserved	A	<2	3.7	Y	Absent	MCP-NA-6010S(180),MCP-K-6010S(180)
L0908148-15A	Vial HCl preserved	A	N/A	3.7	Y	Absent	MCP-8260-04(14)

*Hold days indicated by values in parentheses

06250916:41

Project Name: RAYTHEON WAYLAND

Lab Number: L0908148

Project Number: 0095922

Report Date: 06/25/09

Container Information

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

L0908148-01B

*Hold days indicated by values in parentheses



Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

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.
NI	Not Ignitable.
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 batch duplicate RPD exceeds the acceptance criteria. This flag is not applicable when the sample concentrations are less than 5x the RDL. (Metals only.)

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.
D	Concentration of analyte was quantified from diluted analysis. Flag only applies to 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.
H	The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
N	The matrix spike recovery exceeds the acceptance criteria. This flag is not applicable when the sample concentration is greater than 4x the spike added. (Metals only.)
P	The RPD between the results for the two columns exceeds the method-specified criteria.
R	Analytical results are from sample re-analysis.
RE	Analytical results are from sample re-extraction.
J	Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

Project Name: RAYTHEON WAYLAND
Project Number: 0095922

Lab Number: L0908148
Report Date: 06/25/09

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
- 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 Analytical 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 Analytical 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.



Certificate/Approval Program Summary

Last revised June 24, 2009 - Westboro Facility

The following list includes only those analytes/methods for which certification/approval is currently held.
For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0574. **NELAP Accredited Solid Waste/Soil.**

Drinking Water (Inorganic Parameters: Color, pH, Turbidity, Conductivity, Alkalinity, Chloride, Free Residual Chlorine, Fluoride, Calcium Hardness, Sulfate, Nitrate, Nitrite, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Dissolved Solids, Total Organic Carbon, Total Cyanide, Perchlorate. *Organic Parameters:* Haloacetic Acids, Volatile Organics 524.2, Total Trihalomethanes 524.2, 1,2-Dibromo-3-chloropropane (DBCP), Ethylene Dibromide (EDB).)

Wastewater/Non-Potable Water (Inorganic Parameters: Color, pH, Conductivity, Acidity, Alkalinity, Chloride, Total Residual Chlorine, Fluoride, Total Hardness, Calcium Hardness, Silica, Sulfate, Sulfide, Ammonia, Kjeldahl Nitrogen, Nitrate, Nitrite, O-Phosphate, Total Phosphorus, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Titanium, Vanadium, Zinc, Total Residue (Solids), Total Dissolved Solids, Total Suspended Solids (non-filterable), BOD, CBOD, COD, TOC, Total Cyanide, Phenolics, Foaming Agents (MBAS), Bromide, Oil and Grease. *Organic Parameters:* PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Acid Extractables (Phenols), Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, Polynuclear Aromatic Hydrocarbons, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: Lead in Paint, pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Tin, Vanadium, Zinc, Total Cyanide, Ignitability, Phenolics, Corrosivity, TCLP Leach (1311), Reactivity. *Organic Parameters:* PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Extractable Petroleum Hydrocarbons (ETPH), Dicamba, 2,4-D, 2,4,5-T, 2,4,5-TP(Silvex), Volatile Organics, Acid Extractables (Phenols), 3,3'-Dichlorobenzidine, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Maine Department of Human Services Certificate/Lab ID: 2009024.

Drinking Water (Inorganic Parameters: SM9215B, 9221E, 9222B, 9222D, 9223B, EPA 150.1, 180.1, 300.0, 353.2, SM2130B, 2320B, 4500CI-D, 4500CN-C, 4500CN-E, 4500F-C, 4500H+B, 4500NO3-F, EPA 200.7, EPA 200.8, 245.1. *Organic Parameters:* 504.1, 524.2, SM 6251B.)

Wastewater/Non-Potable Water (Inorganic Parameters: EPA 120.1, 1664A, 350.1, 351.1, 353.2, 410.4, 420.1, Lachat 10-107-06-1-B, SM2320B, 2340B, 2510B, 2540C, 2540D, 426C, 4500CI-D, 4500CI-E, 4500CN-C, 4500CN-E, 4500F-B, 4500F-C, 4500H+B, 4500Norg-B, 4500Norg-C, 4500NH3-B, 4500NH3-G, 4500NH3-H, 4500NO3-F, 4500P-B.5, 4500P-E, 5210B, 5220D, 5310C, EPA 200.7, 200.8, 245.1. *Organic Parameters:* 608, 624.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.

Drinking Water

Inorganic Parameters: (EPA 200.8 for: Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Ni,Se,Tl)

(EPA 200.7 for: Ba,Be,Ca,Cd,Cr,Cu,Na,Ni) 245.1, (300.0 for: Nitrate-N, Nitrite-N, Fluoride, Sulfate)

353.2 for: Nitrate-N, Nitrite-N; SM4500NO3-F, 4500F-C, 4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, 2320B, SM2540C, EPA 150.1, SM4500H-B.

Organic Parameters: (EPA 524.2 for: Trihalomethanes, Volatile Organics)

(504.1 for: 1,2-Dibromoethane, 1,2-Dibromo-3-Chloropropane), SM6251B, 314.0.

Non-Potable Water

Inorganic Parameters:, (EPA 200.8 for: Al,Sb,As,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,Zn)

(EPA 200.7 for: Al,Sb,As,Be,Cd,Cr,Co,Cu,Fe,Pb,Mn,Mo,Ni,Se,Ag,Sr,Ti,Ti,V,Zn,Ca,Mg,Na,K)

245.1, SM4500H,B, EPA 120.1, SM2510B, 2540C, 2540B, 2320B, 4500CL-E, 4500F-BC, 426C, SM4500NH3-BH, (EPA 350.1 for: Ammonia-N), LACHAT 10-107-06-1-B for Nitrate-N, SM4500NO3-F, 353.2 for Nitrate-N, SM4500NH3-B,C-Titr, SM4500NH3-BC-NES, EPA 351.1, SM4500P-E, 4500P-B,E, 5220D, EPA 410.4, SM 5210B, 5310C, 4500CN-CE, 2540D, 4500CL-D, EPA 1664, SM14 510AC, EPA 420.1

Organic Parameters: (EPA 624 for Volatile Halocarbons, Volatile Aromatics)

(608 for: Chlordane, Aldrin, Dieldrin, DDD, DDE, DDT, Heptachlor, Heptachlor Epoxide, PCB-Water)

600/4-81-045-PCB-Oil

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA086.*Drinking Water*

Microbiology Parameters: SM9215B; MF-SM9222B; ENZ. SUB. SM9223; EC-SM9221E; MF-SM9222D; ENZ. SUB. SM9223;

New Hampshire Department of Environmental Services Certificate/Lab ID: 200307. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM6215B, 9222B, 9223B Colilert, EPA 200.7, 200.8, 245.2, 110.2, 120.1, 150.1, 300.0, 325.2, 314.0, SM4500CN-E, 4500H+B, 4500NO3-F, 2320B, 2510B, 2540C, 4500F-C, 5310C, 2120B, EPA 331.0. Organic Parameters: 504.1, 524.2, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9222D, 9221B, 9222B, 9221E-EC, EPA 200.7, 200.8, 245.1, 245.2, SW-846 6010B, 6020, 7196A, 7470A, SM3500-CR-D, EPA 120.1, 150.1, 300.0, 305.1, 310.1, 325.2, 340.2, 350.1, 350.2, 351.1, 353.2, 354.1, 365.2, 375.4, 376.2, 405.1, 415.1, 420.1, 425.1, 1664A, SW-846 9010, 9030, 9040B, EPA 160.1, 160.2, 160.3, SM426C, SM2310B, 2540B, 2540D, 4500H+B, 4500NH3-H, 4500NH3-E, 4500NO2-B, 4500P-E, 4500-S2-D, 5210B, 2320B, 2540C, 4500F-C, 5310C, 5540C, LACHAT 10-117-07-1-B, LACHAT 10-107-06-1-B, LACHAT 10-107-04-1-C, LACHAT 10-107-04-1-J, LACHAT 10-117-07-1-A, SM4500CL-E, LACHAT 10-204-00-1-A, LACHAT 10-107-06-2-D. Organic Parameters: SW-846 3005A, 3015A, 3510C, 5030B, 8021B, 8260B, 8270C, 8330, EPA 624, 625, 608, SW-846 8082, 8081A.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6010B, 7196A, 7471A, 7.3.3.2, 7.3.4.2, 1010, 1030, 9010, 9012A, 9014, 9030B, 9040, 9045C, 9050C, 1311, 3005A, 3050B, 3051A. Organic Parameters: SW-846 3540C, 3545, 3580A, 5030B, 5035, 8021B, 8260B, 8270C, 8330, 8151A, 8082, 8081A.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA935. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9222B, 9221E, 9223B, 9215B, 4500NO3-F, 4500F-C, EPA 300.0, 200.7, 2540C, 2320B, 314.0, 331.0, 110.2, SM2120B, 2510B, 5310C, EPA 150.1, SM4500H-B, EPA 200.8, 245.2. Organic Parameters: 504.1, SM6251B, 524.2.)

Non-Potable Water (Inorganic Parameters: SM5210B, EPA 410.1, SM5220D, 4500CI-D, EPA 300.0, SM2120B, SM4500F-BC, EPA 200.7, 351.1, LACHAT 10-107-06-2-D, EPA 353.2, SM4500NO3-F, 4500NO2-B, EPA 1664A, SM5310B, C or D, 4500-PE, EPA 420.1, SM4500P-B5+E, 2540B, 2540C, 2540D, EPA 120.1, SM2510B, SM15 426C, SM9221CE, 9222D, 9221B, 9222B, 9215B, 2310B, 2320B, 4500NH3-H, 4500-S D, EPA 350.2/1.1, SM5210B, SW-846 3015, 6020, 7470A, 5540C, 4500H-B, EPA 200.8, SM3500Cr-D, EPA 245.1, 245.2, SW-846 9040B, 3005A, EPA 6010B, 7196A, SW-846 9010B, 9030B. Organic Parameters: SW-846 8260B, 8270C, 3510C, EPA 608, 624, 625, SW-846 5030B, 8021B, 8081A, 8082, 8151A, 8330, NJ OQA-QAM-025 Rev.7.)

Solid & Chemical Materials (Inorganic Parameters: SW-846 9040B, 3005A, 6010B, 7196A, 5030B, 9010B, 9030B, 1030, 1311, 3050B, 3051, 7471A, 9014, 9012A, 9045C, 9050A, 9065. Organic Parameters: SW-846 8021B, 8081A, 8082, 8151A, 8330, 8260B, 8270C, 1311, 1312, 3540C, 3545, 3550B, 3580A, 5035L, 5035H, NJ OQA-QAM-025 Rev.7.)

New York Department of Health Certificate/Lab ID: 11148. NELAP Accredited.

Drinking Water (Inorganic Parameters: SM9223B, 9222B, 8215B, EPA 200.8, 200.7, 245.2, SM5310C, EPA 314.0, 331.0, SM2320B, EPA 300.0, 325.2, 110.2, SM2120B, 4500CN-E, 4500F-C, EPA 150.1, SM4500H-B, 4500NO3-F, 2540C, EPA 120.1, SM 2510B. Organic Parameters: EPA 524.2, 504.1, SM6251B.)

Non-Potable Water (Inorganic Parameters: SM9221E, 9222D, 9221B, 9222B, 9215B, EPA 405.1, SM5210B, EPA 410.4, SM5220D, EPA 305.1, SM2310B-4a, EPA 310.1, SM2320B, EPA 200.7, 300.0, 325.2, LACHAT 10-117-07-1A or B, SM4500CI-E, EPA 340.2, SM4500F-C, EPA 375.4, SM15 426C, EPA 350.1, 350.2, LACHAT 10-107-06-1-B, SM4500NH3-H, EPA 351.1, LACHAT 10-107-06-2, EPA 353.2, LACHAT 10-107-041-C, SM4500-NO30F, EPA 354.1, SM4500-NO2-B, EPA 365.2, SM4500P-E, EPA 160.3, EPA 160.1, SM2540C, EPA 160.2, SM2540D, EPA 200.8, EPA 6010B, 6020, EPA 7196A, SM3500Cr-D, EPA 245.1, 245.2, 7470A, 110.2, SM2120B, 335.2, LACHAT 10-204-00-1-A, EPA 150.1, 9040B, SM4500-HB, EPA 1664A, EPA 415.1, SM5310C, EPA 420.1, SM14 510C, EPA 120.1, SM2510B, EPA 376.2, SM4500S-D, EPA 425.1, SM5540C, EPA 3005A, 3015. Organic Parameters: EPA 624, 8260B, 8270C, 625, 608, 8081A, 8151A, 8330, 8082, 8021B, EPA 3510C, 5030B, 9010B, 9030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, 1010, 1030, SW-846 Ch 7 Sec 7.3, EPA 6010B, 7196A, 7471A, 9012A, 9014, 9040B, 9045C, 9065, 9050, EPA 1311, 3005A, 3050B, 3051, 9010B, 9030B. Organic Parameters: EPA 8260B, 8270C, 8081A, 8151A, 8330, 8082, 8021B, 3540C, 3545, 3580, 5030B, 5035.)

Analytical Services Protocol: CLP Volatile Organics, CLP Inorganics, CLP PCB/Pesticides.

Pennsylvania Department of Environmental Protection Certificate/Lab ID : 68-03671. NELAP Accredited.

Non-Potable Water (Organic Parameters: EPA 3510C, 625, 608, 8081A, 8082, 8151A, 8270C, 8330)

Solid & Hazardous Waste (Inorganic Parameters: EPA 1010, 1030, 1311, 3050B, 3051, 6010B, EPA 7.3.3.2, EPA 7.3.4.2, 7196A, 7471A, 9010B, 9012A, 9014, 9040B, 9045C, 9050, 9065. Organic Parameters: 3540C, 3545, 3580A, 5035, 8021B, 8081A, 8082, 8151A, 8260B, 8270C, 8330)

Rhode Island Department of Health Certificate/Lab ID: LAO00065. *NELAP Accredited via NY-DOH.*
Refer to MA-DEP Certificate for Potable and Non-Potable Water.
Refer to NY-DOH Certificate for Potable and Non-Potable Water.

Utah Department of Health Certificate/Lab ID: AAMA. *NELAP Accredited.*
Non-Potable Water (Inorganic Parameters: Chloride EPA 300.0)

CHAIN OF CUSTODY

PAGE 1 OF 2

ALPHA
ANALYTICAL

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

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

Client Information

Client: **ERM**

Address: **399 Baylston St.**

4th Floor Boston, MA

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

Fax: **(617) 247-6447**

Email: **bobacar.frost@erm.com**

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

Project Information

Project Name: **Raytheon Wayland**

Project Location: **Wayland, MA**

Project #: **0095972**

Project Manager: **Jason Flatt**

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: **6/25/09** Time:

Date Rec'd in Lab: **6/18/09**

Report Information - Data Deliverables

FAX EMAIL

LADEX Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program

MA MCP

Criteria **GW1**

MA MCP PRESUMPTIVE CERTAINTY ... CT REASONABLE CONFIDENCE PROTO-

Billing Information

Same as Client info PO #:

ALPHA Job #: **20908148**

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials
08148	IW-11-20090617-01	6/17/09	0955	GW	EW
1	TB-002-20090617-01	6/11/09	1834	-	RR
2	IW-5-20090617-01	6/17/09	0845	GW	CC
3	MW-551-20090617-01		1110	GW	EW
4	DUP 002-20090617-01		2000		CC
5	IW-4-20090617-01		1000		CC
6	IW-13-20090617-01		1110		CC
7	IW-14-20090617-01		1205		CC
8	IW-15-20090617-01		1315		CC
9	MW-552-20090617-01		1325		EW
10					

ANALYSIS
8021 b by 8260
TOC
504
Diss. Na+K (FF)

SAMPLE HANDLING
Filtration Done Diss. Na+K
 Not needed
 Lab to do
Preservation Lab to do
(Please specify below)
Sample Specific Comments

TOTAL # BOTTLES

PLEASE ANSWER QUESTIONS ABOVE!

**IS YOUR PROJECT
MAMCP or CT RCP?**

Relinquished By:

Date/Time

Receiver By:

Date/Time

Container Type	Preservative	V	D	A	P	P	C

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 Terms and Conditions. See reverse side.



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

Client Information

Client: ERM

Address: 399 Boylston St.

Wm. E. Bar Boston, MA

Phone: (617) 646-7800

Fax: (617) 227-6447

Email: valvagar.frost@erm.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments/Detection Limits:

Project Information

Project Name: Raytheon Wayland

Project Location: Wayland, MA

Project #: 0095972

Project Manager: Jason Flattery

ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)

Date Due: 6/25/09 Time:

Date Rec'd in Lab: 6/18/09

Report Information - Data Deliverables

FAX EMAIL

ADEX Add'l Deliverables

Regulatory Requirements/Report Limits

State/Fed Program

MA MCP

GW2

MA MCP PRESUMPTIVE CERTAINTY ... CT REASONABLE CONFIDENCE PROTO.

Yes No Are MCP Analytical Methods Required?

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

Billing Information

Same as Client info

PO #:

ALPHA Job #: LD908148

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

08148 11	MW-2U1S-2009DU17-016/18/09	1445	GW	EW
12	IW-1-20090618-01	6/18/09 1305		
13	IW-2-20090618-01	1125		
14	IW-3-20090618-01	1005		
15	IW-003-20090618-01	6/11/09 1001		KR

TOTAL # BOTTLES	ANALYSIS		SAMPLE HANDLING	
	VOCs (80216)	TOC	Filtration	Done for Diss. NatK (FF)
1			Done	FF
6			Not needed	FF
6			Lab to do	FF
6			Preservation	FF
1			Lab to do	FF

PLEASE ANSWER QUESTIONS ABOVE!

IS YOUR PROJECT
MA MCP or CT RCP?

Relinquished By: Amelia Wang 1/20

Container Type: V V P P
Preservative: 0 BAC

Date/Time: 6/18/09 11:45 AM

Received By: William P. P... 6/18/09 1445

Date/Time: 6/18/09 1800

FORM NO. 01-01 (rev. 14-OCT-07)

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 Terms and Conditions. See reverse side.