Environmental Resources Management

One Beacon Street, 5th Floor
Boston, MA 02108
(617) 646-7800
(617) 267-6447 (fax)

http://www.erm.com

9 May 2017
Reference: 0377766

Mr. David Costello
National Development
2310 Washington Street
Newton Lower Falls, MA 02462

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

Dear Mr. Costello:

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

Innovative Engineering Solutions, Inc. (IESI) collected groundwater samples from twenty nine monitoring wells located on National Development property in April 2017. These samples were submitted to Alpha Analytical Laboratories, Inc. of Mansfield, Massachusetts, and/or TestAmerica Laboratories, Inc. of Amherst, NY for analysis. All analytical results are attached to this letter.

Raytheon has implemented the Public Involvement Process in accordance with 310 CMR 40.1405. Documents pertaining to the Site can be found at the Board of Health Public Involvement Plan files, or at http://raytheon.erm.com/home.htm.

If you have any questions or comments, please contact the undersigned at (617) 646-7800 or Jonathan Hone, Raytheon Company, at (978) 436-8298.

Sincerely,

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

Lyndsey Colburn, P.G.
Principal Consultant

enclosures: BWSC-123 – Notice of Environmental Sampling
Laboratory Analytical Reports (CD)

cc: Jonathan Hone, Raytheon Company
PIP Repositories

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 13302

NOTICE OF ENVIRONMENTAL SAMPLING

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

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: National Development

2. Street Address: 2310 Washington Street

City/Town: Newton Lower Falls Zip Code: 02462

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:

☐ Immediate Response Action
☐ Release Abatement Measure
☐ Utility-related Abatement Measure
☐ Phase I Initial Site Investigation
☐ Phase II Comprehensive Site Assessment
☐ Phase III Feasibility Evaluation
☐ Phase IV Remedy Implementation Plan
☑ Phase V/Remedy Operation Status
☐ Post-Temporary Solution Operation, Maintenance and Monitoring
☐ 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, indoor air, soil gas) 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: 50 Apple Hill Drive

City/Town: Tewksbury Zip Code: 01876

Telephone: (978) 858-1885 Email: louis_j_burkhardt@raytheon.com

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

3 - 13302

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 of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) 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/eea/agencies/massdep/cleanup. 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://public.dep.state.ma.us/SearchableSites2/Search.aspx to view site-specific files on-line or http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html if you would like to make an appointment to see these files in person. 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:	L1711430
Client:	Innovative Engineering Solutions, Inc. 25 Spring Street Walpole, MA 02081
ATTN:	Vicki Pariyar
Phone:	(508) 668-0033
Project Name:	RAYTHEON WAYLAND
Project Number:	RA-008
Report Date:	04/20/17

Samples were collected from 29 wells on National Development property. All other samples have been grayed out for ease of review.

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com

Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L1711430
Report Date: 04/20/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1711430-01	MW-261S-20170411	WATER	WAYLAND, MA	04/11/17 10:35	04/12/17
L1711430-02	MW-265M-201704	WATER	WAYLAND, MA	04/12/17 10:20	04/12/17
L1711430-03	MW-267S-20170410	WATER	WAYLAND, MA	04/10/17 08:05	04/12/17
L1711430-04	MW-268S-20170410	WATER	WAYLAND, MA	04/10/17 10:20	04/12/17
L1711430-05	MW-268M-20170410	WATER	WAYLAND, MA	04/10/17 09:40	04/12/17
L1711430-06	MW-552-20170411	WATER	WAYLAND, MA	04/11/17 11:30	04/12/17
L1711430-07	MW-553-20170411	WATER	WAYLAND, MA	04/11/17 12:30	04/12/17
L1711430-08	MW-560-20170411	WATER	WAYLAND, MA	04/11/17 09:55	04/12/17
L1711430-09	MW-561-20170411	WATER	WAYLAND, MA	04/11/17 13:10	04/12/17
L1711430-10	MW-562-20170411	WATER	WAYLAND, MA	04/11/17 13:30	04/12/17
L1711430-11	MW-563-20170411	WATER	WAYLAND, MA	04/11/17 09:15	04/12/17
L1711430-12	REW-1-201704	WATER	WAYLAND, MA	04/12/17 10:00	04/12/17
L1711430-13	REW-4-201704	WATER	WAYLAND, MA	04/12/17 09:20	04/12/17
L1711430-14	REW-5-201704	WATER	WAYLAND, MA	04/12/17 10:20	04/12/17
L1711430-15	REW-6-20170410	WATER	WAYLAND, MA	04/10/17 08:55	04/12/17
L1711430-16	REW-7-20170410	WATER	WAYLAND, MA	04/10/17 12:30	04/12/17
L1711430-17	REW-8-20170411	WATER	WAYLAND, MA	04/12/17 10:40	04/12/17
L1711430-18	REW-9-20170411	WATER	WAYLAND, MA	04/11/17 11:20	04/12/17
L1711430-19	REW-10-20170411	WATER	WAYLAND, MA	04/11/17 12:15	04/12/17
L1711430-20	REW-11-20170410	WATER	WAYLAND, MA	04/10/17 11:00	04/12/17
L1711430-21	REW-12-20170411	WATER	WAYLAND, MA	04/11/17 08:30	04/12/17

Project Name: RAYTHEON WAYLAND
Project Number: RA-008
Lab Number: L1711430
Report Date: 04/20/17

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 NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. 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. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. 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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

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.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: RAYTHEON WAYLAND **Lab Number:** L1711430
Project Number: RA-008 **Report Date:** 04/20/17

Case Narrative (continued)

Dissolved Gases

L1711430-01 through -03 and -05 through -21: The samples were re-analyzed on dilution in order to quantify the results within the calibration range. The results should be considered estimated, and are qualified with an E flag, for any compounds that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound that exceeded the calibration range.

L1711430-02, -03, -07, -10 and -21 were collected in pre-preserved vials; however, the pH of the samples was determined to be greater than two.

WG994856-10: The Method Blank, associated with L1711430-02,-03,-05,-09, and -10, has concentrations above the reporting limits for Methane. Since the associated sample concentrations are greater than 10x the blank concentrations for these analytes, no corrective action is required.

WG995191-10: The Method Blank, associated with L1711430-11 through -21, has concentrations above the reporting limits for Methane. Since the associated sample concentrations are greater than 10x the blank concentrations for these analytes, no corrective action is required.

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: Susan E O'Neil Susan O' Neil

Title: Technical Director/Representative Date: 04/20/17

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-01
Client ID: MW-261S-20170411
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/17/17 10:00
Analyst: MR

Date Collected: 04/11/17 10:35
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	24500	E	ug/l	3.00	--	1	A
Ethene	5.09		ug/l	0.500	--	1	A
Ethane	30.7		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-01 D
Client ID: MW-261S-20170411
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/19/17 14:29
Analyst: MR

Date Collected: 04/11/17 10:35
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	18000		ug/l	30.0	--	10	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-02
Client ID: MW-265M-201704
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/17/17 10:15
Analyst: MR

Date Collected: 04/12/17 10:20
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	25300	E	ug/l	3.00	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	2.62		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-02 D
Client ID: MW-265M-201704
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 17:44
Analyst: MR

Date Collected: 04/12/17 10:20
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	19600		ug/l	30.0	--	10	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-03
Client ID: MW-267S-20170410
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/17/17 10:30
Analyst: MR

Date Collected: 04/10/17 08:05
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	16400	E	ug/l	3.00	--	1	A
Ethene	2.34		ug/l	0.500	--	1	A
Ethane	1.18		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-03 D
Client ID: MW-267S-20170410
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 17:58
Analyst: MR

Date Collected: 04/10/17 08:05
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	13700		ug/l	30.0	--	10	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-04
Client ID: MW-268S-20170410
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/17/17 10:44
Analyst: MR

Date Collected: 04/10/17 10:20
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	4620		ug/l	3.00	--	1	A
Ethene	2.02		ug/l	0.500	--	1	A
Ethane	0.734		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-05
Client ID: MW-268M-20170410
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/17/17 10:58
Analyst: MR

Date Collected: 04/10/17 09:40
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	44200	E	ug/l	3.00	--	1	A
Ethene	10.4		ug/l	0.500	--	1	A
Ethane	11.2		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-05 D
Client ID: MW-268M-20170410
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 18:13
Analyst: MR

Date Collected: 04/10/17 09:40
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	38600		ug/l	30.0	--	10	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-06
Client ID: MW-552-20170411
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/17/17 11:13
Analyst: MR

Date Collected: 04/11/17 11:30
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	29600	E	ug/l	3.00	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	29.3		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-06 D
Client ID: MW-552-20170411
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/19/17 14:43
Analyst: MR

Date Collected: 04/11/17 11:30
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	20300		ug/l	30.0	--	10	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-07
Client ID: MW-553-20170411
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/17/17 12:06
Analyst: MR

Date Collected: 04/11/17 12:30
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	21400	E	ug/l	3.00	--	1	A
Ethene	4.29		ug/l	0.500	--	1	A
Ethane	4.84		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-07 D
Client ID: MW-553-20170411
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/19/17 14:58
Analyst: MR

Date Collected: 04/11/17 12:30
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	13800		ug/l	30.0	--	10	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-08
Client ID: MW-560-20170411
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/17/17 12:20
Analyst: MR

Date Collected: 04/11/17 09:55
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	33400	E	ug/l	3.00	--	1	A
Ethene	0.755		ug/l	0.500	--	1	A
Ethane	3.22		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-08 D
Client ID: MW-560-20170411
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/19/17 15:12
Analyst: MR

Date Collected: 04/11/17 09:55
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	21500		ug/l	30.0	--	10	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-09
Client ID: MW-561-20170411
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/17/17 12:35
Analyst: MR

Date Collected: 04/11/17 13:10
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	40800	E	ug/l	3.00	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	36.8		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-09 D
Client ID: MW-561-20170411
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 19:10
Analyst: MR

Date Collected: 04/11/17 13:10
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	32700		ug/l	30.0	--	10	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-10
Client ID: MW-562-20170411
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/17/17 12:49
Analyst: MR

Date Collected: 04/11/17 13:30
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	26100	E	ug/l	3.00	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	0.781		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-10 D
Client ID: MW-562-20170411
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 19:24
Analyst: MR

Date Collected: 04/11/17 13:30
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	17500		ug/l	30.0	--	10	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-11
Client ID: MW-563-20170411
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 11:48
Analyst: MR

Date Collected: 04/11/17 09:15
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	32600	E	ug/l	3.00	--	1	A
Ethene	1.17		ug/l	0.500	--	1	A
Ethane	6.76		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-11 D
Client ID: MW-563-20170411
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 19:39
Analyst: MR

Date Collected: 04/11/17 09:15
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	24000		ug/l	30.0	--	10	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-12
Client ID: REW-1-201704
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 12:02
Analyst: MR

Date Collected: 04/12/17 10:00
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	30200	E	ug/l	3.00	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	3.57		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-12 D
Client ID: REW-1-201704
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 20:42
Analyst: MR

Date Collected: 04/12/17 10:00
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	24500		ug/l	30.0	--	10	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-13
Client ID: REW-4-201704
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 12:16
Analyst: MR

Date Collected: 04/12/17 09:20
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	23200	E	ug/l	3.00	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	2.11		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-13 D
Client ID: REW-4-201704
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 20:56
Analyst: MR

Date Collected: 04/12/17 09:20
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	19100		ug/l	30.0	--	10	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-14
Client ID: REW-5-201704
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 12:31
Analyst: MR

Date Collected: 04/12/17 10:20
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	27800	E	ug/l	3.00	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	13.4		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-14 D
Client ID: REW-5-201704
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 21:10
Analyst: MR

Date Collected: 04/12/17 10:20
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	23800		ug/l	30.0	--	10	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-15
Client ID: REW-6-20170410
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 12:45
Analyst: MR

Date Collected: 04/10/17 08:55
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	24500	E	ug/l	3.00	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	4.51		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-15 D
Client ID: REW-6-20170410
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 21:25
Analyst: MR

Date Collected: 04/10/17 08:55
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	23500		ug/l	30.0	--	10	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-16
Client ID: REW-7-20170410
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 13:57
Analyst: MR

Date Collected: 04/10/17 12:30
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	38700	E	ug/l	3.00	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	14.4		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-16 D
Client ID: REW-7-20170410
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 21:39
Analyst: MR

Date Collected: 04/10/17 12:30
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	32000		ug/l	30.0	--	10	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-17
Client ID: REW-8-20170411
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 14:11
Analyst: MR

Date Collected: 04/12/17 10:40
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	38900	E	ug/l	3.00	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	2.56		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-17 D
Client ID: REW-8-20170411
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 21:53
Analyst: MR

Date Collected: 04/12/17 10:40
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	32500		ug/l	30.0	--	10	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-18
Client ID: REW-9-20170411
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 14:25
Analyst: MR

Date Collected: 04/11/17 11:20
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	30800	E	ug/l	3.00	--	1	A
Ethene	0.730		ug/l	0.500	--	1	A
Ethane	2.05		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-18 D
Client ID: REW-9-20170411
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 22:07
Analyst: MR

Date Collected: 04/11/17 11:20
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	26600		ug/l	30.0	--	10	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-19
Client ID: REW-10-20170411
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 14:39
Analyst: MR

Date Collected: 04/11/17 12:15
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	43100	E	ug/l	3.00	--	1	A
Ethene	0.805		ug/l	0.500	--	1	A
Ethane	4.00		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-19 D
Client ID: REW-10-20170411
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 22:22
Analyst: MR

Date Collected: 04/11/17 12:15
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	34500		ug/l	30.0	--	10	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-20
Client ID: REW-11-20170410
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 14:54
Analyst: MR

Date Collected: 04/10/17 11:00
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	39000	E	ug/l	3.00	--	1	A
Ethene	1.48		ug/l	0.500	--	1	A
Ethane	10.7		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-20 D
Client ID: REW-11-20170410
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 22:36
Analyst: MR

Date Collected: 04/10/17 11:00
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	32700		ug/l	30.0	--	10	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-21
Client ID: REW-12-20170411
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 15:08
Analyst: MR

Date Collected: 04/11/17 08:30
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	26600	E	ug/l	3.00	--	1	A
Ethene	1.62		ug/l	0.500	--	1	A
Ethane	5.34		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Lab Number: L1711430
Project Number: RA-008
Report Date: 04/20/17

SAMPLE RESULTS

Lab ID: L1711430-21 D
Client ID: REW-12-20170411
Sample Location: WAYLAND, MA
Matrix: Water
Analytical Method: 117,-
Analytical Date: 04/18/17 22:50
Analyst: MR

Date Collected: 04/11/17 08:30
Date Received: 04/12/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	21000		ug/l	30.0	--	10	A

Project Name: RAYTHEON WAYLAND
Project Number: RA-008
Lab Number: L1711430
Report Date: 04/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 117,-
Analytical Date: 04/18/17 17:13
Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL	
Dissolved Gases by GC - Mansfield Lab for sample(s): 02-03,05,09-10 Batch: WG994856-10						
Methane	7.54		ug/l	3.00	--	A

Project Name: RAYTHEON WAYLAND
Project Number: RA-008
Lab Number: L1711430
Report Date: 04/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 117,-
Analytical Date: 04/19/17 13:47
Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL	
Dissolved Gases by GC - Mansfield Lab for sample(s): 01,06-08 Batch: WG994856-14						
Methane	ND		ug/l	3.00	--	A
Ethene	ND		ug/l	0.500	--	A
Ethane	ND		ug/l	0.500	--	A

Project Name: RAYTHEON WAYLAND
Project Number: RA-008
Lab Number: L1711430
Report Date: 04/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 117,-
Analytical Date: 04/17/17 09:26
Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL	
Dissolved Gases by GC - Mansfield Lab for sample(s): 01-10 Batch: WG994856-3						
Methane	ND		ug/l	3.00	--	A
Ethene	ND		ug/l	0.500	--	A
Ethane	ND		ug/l	0.500	--	A

Project Name: RAYTHEON WAYLAND
Project Number: RA-008
Lab Number: L1711430
Report Date: 04/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 117,-
Analytical Date: 04/18/17 17:13
Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL	
Dissolved Gases by GC - Mansfield Lab for sample(s): 11-21 Batch: WG995191-10						
Methane	7.54		ug/l	3.00	--	A

Project Name: RAYTHEON WAYLAND
Project Number: RA-008
Lab Number: L1711430
Report Date: 04/20/17

Method Blank Analysis
Batch Quality Control

Analytical Method: 117,-
Analytical Date: 04/18/17 09:57
Analyst: MR

Parameter	Result	Qualifier	Units	RL	MDL	
Dissolved Gases by GC - Mansfield Lab for sample(s): 11-21 Batch: WG995191-3						
Methane	ND		ug/l	3.00	--	A
Ethene	ND		ug/l	0.500	--	A
Ethane	ND		ug/l	0.500	--	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: RA-008

Lab Number: L1711430

Report Date: 04/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01,06-08 Batch: WG994856-13									
Methane	120		-		80-120	-		25	A
Ethene	111		-		80-120	-		25	A
Ethane	112		-		80-120	-		25	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: RA-008

Lab Number: L1711430

Report Date: 04/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-10 Batch: WG994856-2									
Methane	118		-		80-120	-		25	A
Ethene	109		-		80-120	-		25	A
Ethane	110		-		80-120	-		25	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: RA-008

Lab Number: L1711430

Report Date: 04/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 02-03,05,09-10 Batch: WG994856-9									
Methane	114		-		80-120	-		25	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: RA-008

Lab Number: L1711430

Report Date: 04/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 11-21 Batch: WG995191-2									
Methane	113		-		80-120	-		25	A
Ethene	105		-		80-120	-		25	A
Ethane	105		-		80-120	-		25	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: RA-008

Lab Number: L1711430

Report Date: 04/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 11-21 Batch: WG995191-9									
Methane	114		-		80-120	-		25	A

Lab Duplicate Analysis
Batch Quality Control

Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L1711430
Report Date: 04/20/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits	
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG994856-4 QC Sample: L1711430-04 Client ID: MW-268S-20170410							
Methane	4620	4740	ug/l	3		25	A
Ethene	2.02	1.95	ug/l	4		25	A
Ethane	0.734	0.831	ug/l	12		25	A

Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L1711430
Report Date: 04/20/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information	Custody Seal
Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1711430-01A	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-01B	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-02A	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-02B	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-03A	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-03B	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-04A	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-04B	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-05A	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-05B	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-06A	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-06B	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-07A	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-07B	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-08A	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-08B	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-09A	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-09B	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-10A	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-10B	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-11A	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-11B	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-12A	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-12B	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-13A	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-13B	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-14A	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-14B	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-15A	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)

*Values in parentheses indicate holding time in days

Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L1711430
Report Date: 04/20/17

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1711430-15B	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-16A	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-16B	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-17A	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-17B	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-18A	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-18B	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-19A	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-19B	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-20A	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-20B	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-21A	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)
L1711430-21B	20ml Vial HCl preserved	A	N/A	4.2	Y	Absent	DISSGAS(14)

*Values in parentheses indicate holding time in days

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L1711430
Project Number:	RA-008	**Report Date:**	04/20/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
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.
LFB	- Laboratory Fortified Blank: 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.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
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.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL 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.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

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

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 at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: Data Usability Report

Project Name:	RAYTHEON WAYLAND	**Lab Number:**	L1711430
Project Number:	RA-008	**Report Date:**	04/20/17

Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

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.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

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

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Report Format: Data Usability Report

REFERENCES

117 Technical Guidance for the Natural Attenuation Indicators: Methane, Ethane, and Ethene, EPA-NE, Revision 1, February 21, 2002 and Sample Preparation & Calculations for Dissolved Gas Analysis in Water Samples using a GC Headspace Equilibration Technique, EPA RSKSOP-175, Revision 2, 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 Analytical 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 Analytical.

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.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.**

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

PAGE 1 OF 3

Date Rec'd in Lab: 4/12/17

ALPHA Job #: L17 11430

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Client Information

Client: Innovative Engineering Solutions Inc
Address: 23 Spring St
Walpole MA 02081
Phone: 508-668-0033
Email: viperinger@IESonline.com

Additional Project Information:

Project Information

Project Name: Raytheon Wayland
Project Location: Wayland MA
Project #: RA-008
Project Manager: Vicki Periyar
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH *(only confirmed if pre-approved!)*

Date Due: 4/19/17

Report Information - Data Deliverables

☐ ADEx ☒ EMAIL

Billing Information

☐ Same as Client info PO #: RA-008

Regulatory Requirements & Project Information Requirements

☐ Yes ☒ No MA MCP Analytical Methods ☐ Yes ☒ No CT RCP Analytical Methods
☐ Yes ☒ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☒ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☒ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

ANALYSIS

- VOC: ☐ 8260 ☐ 624 ☐ 524.2
- SVOC: ☐ ABN ☐ PAH
- METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15
- METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13
- EPH: ☐ Ranges & Targets ☐ Ranges Only
- VPH: ☐ Ranges & Targets ☐ Ranges Only
- ☐ PCB ☐ PEST
- TPH: ☐ Quant Only ☐ Fingerprint
- Dissolved Gases: Methane, Ethane, Ethene

SAMPLE INFO

Filtration
☐ Field
☐ Lab to do

Preservation
☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	TPH: Quant Only	Sample Comments	TOTAL # BOTTLES
11430.01	MW-261S-20170411	4/11/17	1035	GW	DR	X	GW-3	2
.02	MW-265M-20170411	4/12/17	1020	GW	DR	X	Requirements	2
.03	MW-267S-20170410	4/10/17	0805	GW	DR	X		2
.04	MW-268S-20170410	4/10/17	1080	GW	DR	X		2
.05	MW-268M-20170410	4/10/17	0940	GW	DR	X		2
.06	MW-552-20170411	4/11/17	1130	GW	DR	X		2
.07	MW-553-20170411	4/11/17	1230	GW	DR	X		2
.08	MW-560-20170411	4/11/17	0955	GW	DR	X		2
.09	MW-561-20170411	4/11/17	1310	GW	DR	X		2
.10	MW-562-20170411	4/11/17	1330	GW	DR	X		2
						Container Type		
						Preservative		

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H= $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
	4/12/17 1300		4/12/17 13:00

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

CHAIN OF CUSTODY

PAGE 2 OF 3

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Date Rec'd in Lab: 4/12/17

ALPHA Job #: L1711430

Client Information

Client: Innovative Engineering Solutions Inc
Address: 23 Spaing St
Walpole MA 02081
Phone: 508-668-0033
Email: v.perrigo@IESonline.com

Project Information

Project Name: Raytheon - Wayland
Project Location: Wayland MA
Project #: RA-008
Project Manager: Vicki Perrigo
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 4/19/17

Report Information - Data Deliverables

☐ ADEx ☒ EMAIL

Billing Information

☐ Same as Client info PO #: RA-008

Regulatory Requirements & Project Information Requirements

☐ Yes ☒ No MA MCP Analytical Methods ☐ Yes ☒ No CT RCP Analytical Methods
☐ Yes ☒ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☒ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☒ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

Additional Project Information:

ANALYSIS

VOC: ☐ 8260 ☐ 624 ☐ 524.2
SVOC: ☐ ABN ☐ PAH
METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15
METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13
EPH: ☐ Ranges & Targets ☐ Ranges Only
VPH: ☐ Ranges & Targets ☐ Ranges Only
☐ PCB ☐ PEST
TPH: ☐ Quant Only ☐ Fingerprint
Diesel Only
methane
ethane
ethene

SAMPLE INFO

Filtration
☐ Field
☐ Lab to do
Preservation
☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Sample Comments	TOTAL # BOTTLES
11420.11	MW-563-20170411	4/11/17	0915	GW	RD	GW-3	2
.12	REW-1-201704	4/12/17	1000	GW	RD	Requirements	2
.13	REW-4-201704	4/12/17	0920	GW	RD		2
.14	REW-5-201704	4/12/17	1020	GW	RD		2
.15	REW-6-20170410	4/10/17	0855	GW	RD		2
.16	REW-7-20170410	4/10/17	1230	GW	RD		2
.17	REW-8-20170411	~~4/10/17~~ 4/11/17	1040	GW	RD		2
.18	REW-9-201704 11	4/11/17	1120	GW	RD		2
.19	REW-10-201704 11	4/11/17	1215	GW	RD		2
.20	REW-11-201704 10	4/10/17	1100	GW	RD		2
				Container Type			
				Preservative			

Container Type	Preservative
P= Plastic	A= None
A= Amber glass	B= HCl
V= Vial	C= HNO_3
G= Glass	D= H_2SO_4
B= Bacteria cup	E= NaOH
C= Cube	F= MeOH
O= Other	G= $NaHSO_4$
E= Encore	H= $Na_2S_2O_3$
D= BOD Bottle	I= Ascorbic Acid
	J = NH_4Cl
	K= Zn Acetate
	O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
	4/12/17 1300		4/12/17 13:00

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

CHAIN OF CUSTODY

PAGE 3 OF 3

8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

Date Rec'd in Lab: 4/12/17

ALPHA Job #: L1711430

Client Information

Client: Inhabit Engineering Solutions Inc
Address: 25 Spring St
Walpole MA 02081
Phone: 508-668-0033
Email: v.palmer@inhabitsolutions.com

Project Information

Project Name: Raytheon - Wayland
Project Location: Wayland MA
Project #: RA-008
Project Manager: ~~RA-008~~ Vicki Palmer
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 4/19/20

Report Information - Data Deliverables

☐ ADEx ☒ EMAIL

Billing Information

☐ Same as Client info PO #: RA-008

Regulatory Requirements & Project Information Requirements

☐ Yes ☒ No MA MCP Analytical Methods ☐ Yes ☒ No CT RCP Analytical Methods
☐ Yes ☒ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☒ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☒ No NPDES RGP
☐ Other State /Fed Program _____ Criteria _____

Additional Project Information:

ANALYSIS

VOC: ☐ 8260 ☐ 624 ☐ 524.2
SVOC: ☐ ABN ☐ PAH
METALS: ☐ MCP 13 ☐ MCP 14 ☐ RCP 15
METALS: ☐ RCRA5 ☐ RCRA8 ☐ PP13
EPH: ☐ Ranges & Targets ☐ Ranges Only
VPH: ☐ Ranges & Targets ☐ Ranges Only
☐ PCB ☐ PEST
TPH: ☐ Quant Only ☐ Fingerprint
Dissolved Gases: methane, ethane, ethene

SAMPLE INFO
Filtration
☐ Field
☐ Lab to do
Preservation
☐ Lab to do

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler Initials	Sample Comments	TOTAL # BOTTLES
1430.21	REW-12-20170411	4/11/17	0830	GW		GW-3	2
~~22~~	Temp Blank	—	—	—		Per requirements	1

Container Type										V							
Preservative										B							

Container Type
P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative
A= None
B= HCl
C= HNO_3
D= H_2SO_4
E= NaOH
F= MeOH
G= $NaHSO_4$
H = $Na_2S_2O_3$
I= Ascorbic Acid
J = NH_4Cl
K= Zn Acetate
O= Other

Relinquished By:	Date/Time	Received By:	Date/Time
	4/12/17 1300		4/12/17 13:00

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

FORM NO: 01-01 (rev. 12-Mar-2012)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-115930-1
Client Project/Site: IDS Wayland

For:
Innovative Engineering Solutions, Inc
25 Spring Street
Walpole, Massachusetts 02081

Attn: Vicki Pariyar

Denise L Giglia

Authorized for release by:
4/19/2017 3:19:52 PM
Denise Giglia, Project Management Assistant II
denise.giglia@testamericainc.com

Designee for

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
F1	MS and/or MSD Recovery is outside acceptance limits.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-115930-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-115930-1

Receipt
The samples were received on 4/11/2017 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA
Method 8260C: With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for 1,2-dibromo-3-chloropropane, Carbon Disulfide, Isopropyl Ether, Naphthalene, tert-Amyl Methyl Ether and Tetrahydrofuran.

Method 8260C: The continuing calibration verification (CCV) for 1,4-Dioxane, 2-Butanone (MEK), Acetone, Bromoform, and Dichlorodifluoromethane associated with batch 480-352211 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following samples are affected : MW-265D-20170409 (480-115930-1), MW-266Mb-20170409 (480-115930-2), MW-267M-20170409 (480-115930-4), MW-269Ma-20170409 (480-115930-8), DUP1-20170409 (480-115930-12) and MW-551-20170409 (480-115930-15).

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 480-352211 exceeded control limits for the following analytes: Dichlorodifluoromethane and Bromoform. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples are affected: MW-265D-20170409 (480-115930-1), MW-266Mb-20170409 (480-115930-2), MW-267M-20170409 (480-115930-4), MW-269Ma-20170409 (480-115930-8), DUP1-20170409 (480-115930-12) and MW-551-20170409 (480-115930-15).

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 480-352211 exceeded control limits for the following analyte: Tetrahydrofuran. Unlike the calibration standards, this is due to the coelution with Methacrylonitrile in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample. The following samples are affected : MW-265D-20170409 (480-115930-1), MW-266Mb-20170409 (480-115930-2), MW-267M-20170409 (480-115930-4), MW-269Ma-20170409 (480-115930-8), DUP1-20170409 (480-115930-12) and MW-551-20170409 (480-115930-15).

Method 8260C: The initial calibration curve RSD was greater than the 20% acceptance criteria for Bromoform, however the RSD was less than 40%. MCP protocol allows for 10% of the target compounds to be outside of the 20% RSD limit for the calibration provided the RSDs do not exceed 40%. The following samples are impacted: MW-265D-20170409 (480-115930-1), MW-266Mb-20170409 (480-115930-2), MW-267M-20170409 (480-115930-4), MW-269Ma-20170409 (480-115930-8), DUP1-20170409 (480-115930-12) and MW-551-20170409 (480-115930-15).

Method 8260C: The initial calibration curve RSD was greater than the 20% acceptance criteria for Bromoform , however the RSD was less than 40%. MCP protocol allows for 10% of the target compounds to be outside of the 20% RSD limit for the calibration provided the RSDs do not exceed 40%. The following samples are impacted: MW-267S-20170410 (480-115930-3), MW-268S-20170410 (480-115930-5), MW-268M-20170410 (480-115930-6), MW-268D-20170409 (480-115930-7), REW-7-20170410 (480-115930-10), REW-11-20170410 (480-115930-11) and TRIP BLANK (480-115930-14).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-352240 recovered outside MCP control limit but less than 40% for Acetone, Bromoform and 2-Butanone. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. The following samples are impacted: MW-267S-20170410 (480-115930-3), MW-268S-20170410 (480-115930-5), MW-268M-20170410 (480-115930-6), MW-268D-20170409 (480-115930-7), REW-7-20170410 (480-115930-10), REW-11-20170410 (480-115930-11) and TRIP BLANK (480-115930-14).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-352240 recovered outside control limits but were greater than 10% for the following analytes: Acetone and Bromoform . MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples are impacted: MW-267S-20170410 (480-115930-3), MW-268S-20170410 (480-115930-5), MW-268M-20170410 (480-115930-6), MW-268D-20170409

Job ID: 480-115930-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

(480-115930-7), REW-7-20170410 (480-115930-10), REW-11-20170410 (480-115930-11) and TRIP BLANK (480-115930-14).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-352240 exceeded control limits for the following analyte: Tetrahydrofuran. Unlike the calibration standards, this is due to the coelution with Methacrylonitrile in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample. The following samples are impacted: MW-267S-20170410 (480-115930-3), MW-268S-20170410 (480-115930-5), MW-268M-20170410 (480-115930-6), MW-268D-20170409 (480-115930-7), REW-7-20170410 (480-115930-10), REW-11-20170410 (480-115930-11) and TRIP BLANK (480-115930-14).

Method 8260C: The following samples was diluted to bring the concentration of target analytes within the calibration range: MW-267S-20170410 (480-115930-3), MW-268S-20170410 (480-115930-5) and MW-268M-20170410 (480-115930-6). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: REW-6-20170410 (480-115930-9). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-352253 recovered above the upper MCP control limit but less than 40% (less than 60% for poor performing analytes) for Acetone and Bromoform. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. The following sample is impacted: REW-6-20170410 (480-115930-9) and DUP2-20170410 (480-115930-13).

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 480-352253 recovered outside control limits but were greater than 10% for the following analytes: Acetone and Bromoform . MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following sample is impacted: REW-6-20170410 (480-115930-9) and DUP2-20170410 (480-115930-13).

Method 8260C: Due to the co-elution of Ethyl Acetate with 2-Butanone and Methacrylonitrile with Tetrahydrofuran in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) associated with batch 352253: REW-6-20170410 (480-115930-9) and DUP2-20170410 (480-115930-13).

Method 8260C: The initial calibration curve RSD was greater than the 20% acceptance criteria for Bromoform , however the RSD was less than 40%. MCP protocol allows for 10% of the target compounds to be outside of the 20% RSD limit for the calibration provided the RSDs do not exceed 40%. The following sample is impacted: REW-6-20170410 (480-115930-9) and DUP2-20170410 (480-115930-13).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 522: The result reported for Tetrahydrofuran-d8, 1,4-Dioxane-d8 (Surr) and 1,4-Dioxane for the following sample may be attributed to carryover from an earlier analysis: MW-267M-20170409 (480-115930-4). Re-analysis will be performed. Re-analysis was performed, no carryover found.

Method 522: The following sample has chromatographic interferences that could adversely impact the identification and quantitation of target analytes: MW-267S-20170410 (480-115930-3) These interferences could cause false positive and/or false negative results. Re-analysis will be performed to confirm.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The following samples was reported with elevated reporting limits for all analytes: MW-267S-20170410 (480-115930-3), MW-268S-20170410 (480-115930-5), MW-268M-20170410 (480-115930-6), REW-6-20170410 (480-115930-9) and REW-11-20170410 (480-115930-11). The sample was analyzed at a dilution based on screening results.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 480-115930-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Metals
Method 6010: At the request of the client, an abbreviated/modified MCP compound list was reported for this job.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-267S-20170410 (480-115930-3), MW-268M-20170410 (480-115930-6), REW-6-20170410 (480-115930-9), REW-7-20170410 (480-115930-10) and REW-11-20170410 (480-115930-11).

Method Distill/Ammonia: Due to the matrix, the initial volume(s) used for the following samples deviated from the standard procedure: MW-267S-20170410 (480-115930-3), REW-6-20170410 (480-115930-9), REW-11-20170410 (480-115930-11) and (480-115930-A-11 MS). The reporting limits (RLs) have been adjusted proportionately.

Method 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-268S-20170410 (480-115930-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-115930**

Project Location: **IDS Wayland** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):

480-115930[1-15]

Matrices: ■ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A ■	7470/7471 Hg CAM III B ☐	Mass DEP VPH CAM IV A ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	Mass DEP APH CAM IX A ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	Mass DEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐
6010 Metals CAM III A ■	6020 Metals CAM III D ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.	■ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	■ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	■ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	■ Yes ☐ No
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	■ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes ■ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350**

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ■ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	☐ Yes ■ No[1]

[1] All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Denise L Giglia Position: Project Manager Assistant II

Printed Name: Denise L. Giglia Date: 4/19/17 14:55

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-115930-1

Client Sample ID: MW-265D-20170409 — Lab Sample ID: 480-115930-1

No Detections.

Client Sample ID: MW-266Mb-20170409 — Lab Sample ID: 480-115930-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	1.2		1.0		ug/L	1		8260C	Total/NA
1,4-Dichlorobenzene	1.1		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.3		1.0		ug/L	1		8260C	Total/NA
Toluene	5.3		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	2.8		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	11		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-267S-20170410 — Lab Sample ID: 480-115930-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	340		40		ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	190		4.0		ug/L	4		8260C	Total/NA
Toluene	75		4.0		ug/L	4		8260C	Total/NA
Vinyl chloride	15		4.0		ug/L	4		8260C	Total/NA
1,4-Dioxane	4.3		0.20		ug/L	1		522	Total/NA
Iron	270		0.050		mg/L	1		6010	Total/NA
Chloride	56		2.5		mg/L	5		300.0	Total/NA
Sulfate	22		10		mg/L	5		300.0	Total/NA
TOC Result 1	1700		40		mg/L	40		9060A	Total/NA
TOC Result 2	1700		40		mg/L	40		9060A	Total/NA
Total Organic Carbon - Duplicates	1700		40		mg/L	40		9060A	Total/NA
Alkalinity, Total	410		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.071		0.020		mg/L	1		SM 4500 P E	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	5.2	HF	0.1		SU	1		9040C	Total/NA
Temperature	20.2	HF	0.001		Degrees C	1		9040C	Total/NA

Client Sample ID: MW-267M-20170409 — Lab Sample ID: 480-115930-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.1		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	3.6		0.20		ug/L	1		522	Total/NA

Client Sample ID: MW-268S-20170410 — Lab Sample ID: 480-115930-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	90		4.0		ug/L	4		8260C	Total/NA
Trichloroethene	180		4.0		ug/L	4		8260C	Total/NA
Vinyl chloride	6.1		4.0		ug/L	4		8260C	Total/NA
1,4-Dioxane	15		0.20		ug/L	1		522	Total/NA
Iron	0.46		0.050		mg/L	1		6010	Total/NA
Chloride	16		1.0		mg/L	2		300.0	Total/NA
Sulfate	30		4.0		mg/L	2		300.0	Total/NA
Ammonia	0.22		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	360		8.0		mg/L	8		9060A	Total/NA
TOC Result 2	360		8.0		mg/L	8		9060A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-115930-1

Client Sample ID: MW-268S-20170410 (Continued) — Lab Sample ID: 480-115930-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon - Duplicates	360		8.0		mg/L	8		9060A	Total/NA
Alkalinity, Total	230		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.25		0.020		mg/L	1		SM 4500 P E	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	11.2	HF	0.1		SU	1		9040C	Total/NA
Temperature	20.6	HF	0.001		Degrees C	1		9040C	Total/NA

Client Sample ID: MW-268M-20170410 — Lab Sample ID: 480-115930-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	660		20		ug/L	20		8260C	Total/NA
Vinyl chloride	100		20		ug/L	20		8260C	Total/NA
1,4-Dioxane	5.9		0.20		ug/L	1		522	Total/NA
Iron	64		0.050		mg/L	1		6010	Total/NA
Chloride	48		1.0		mg/L	2		300.0	Total/NA
Ammonia	0.26		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	190		4.0		mg/L	4		9060A	Total/NA
TOC Result 2	200		4.0		mg/L	4		9060A	Total/NA
Total Organic Carbon - Duplicates	190		4.0		mg/L	4		9060A	Total/NA
Alkalinity, Total	320		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.041		0.020		mg/L	1		SM 4500 P E	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.8	HF	0.1		SU	1		9040C	Total/NA
Temperature	20.3	HF	0.001		Degrees C	1		9040C	Total/NA

Client Sample ID: MW-268D-20170409 — Lab Sample ID: 480-115930-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.8		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.5		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-269Ma-20170409 — Lab Sample ID: 480-115930-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.8		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	3.8		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	1.2		0.20		ug/L	1		522	Total/NA

Client Sample ID: REW-6-20170410 — Lab Sample ID: 480-115930-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	380	*	20		ug/L	2		8260C	Total/NA
Naphthalene	15		10		ug/L	2		8260C	Total/NA
Toluene	47		2.0		ug/L	2		8260C	Total/NA
Iron	2.7		0.050		mg/L	1		6010	Total/NA
Chloride	52		2.5		mg/L	5		300.0	Total/NA
Ammonia	2.8		1.0		mg/L	1		350.1	Total/NA
TOC Result 1	4300		80		mg/L	80		9060A	Total/NA
TOC Result 2	4300		80		mg/L	80		9060A	Total/NA
Total Organic Carbon - Duplicates	4300		80		mg/L	80		9060A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: REW-6-20170410 (Continued) — Lab Sample ID: 480-115930-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Alkalinity, Total	500		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.23		0.020		mg/L	1		SM 4500 P E	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	9.7	HF	0.1		SU	1		9040C	Total/NA
Temperature	20.5	HF	0.001		Degrees C	1		9040C	Total/NA

Client Sample ID: REW-7-20170410 — Lab Sample ID: 480-115930-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	7.6		0.050		mg/L	1		6010	Total/NA
Chloride	8.6		0.50		mg/L	1		300.0	Total/NA
Sulfate	39		2.0		mg/L	1		300.0	Total/NA
Ammonia	0.77		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	1.4		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	2.1		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	1.7		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	54		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.10		0.020		mg/L	1		SM 4500 P E	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.0	HF	0.1		SU	1		9040C	Total/NA
Temperature	20.5	HF	0.001		Degrees C	1		9040C	Total/NA

Client Sample ID: REW-11-20170410 — Lab Sample ID: 480-115930-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	5.1		1.0		ug/L	1		8260C	Total/NA
Iron	34		0.050		mg/L	1		6010	Total/NA
Chloride	65		1.0		mg/L	2		300.0	Total/NA
Ammonia	1.0	F1	1.0		mg/L	1		350.1	Total/NA
TOC Result 1	170		4.0		mg/L	4		9060A	Total/NA
TOC Result 2	170		4.0		mg/L	4		9060A	Total/NA
Total Organic Carbon - Duplicates	170		4.0		mg/L	4		9060A	Total/NA
Alkalinity, Total	360	F1	5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.029		0.020		mg/L	1		SM 4500 P E	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.2	HF	0.1		SU	1		9040C	Total/NA
Temperature	20.4	HF	0.001		Degrees C	1		9040C	Total/NA

Client Sample ID: DUP1-20170409 — Lab Sample ID: 480-115930-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.7		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	3.9		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	0.99		0.20		ug/L	1		522	Total/NA

Client Sample ID: DUP2-20170410 — Lab Sample ID: 480-115930-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	5.3		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-115930-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-115930-14

No Detections.

Client Sample ID: MW-551-20170409 — Lab Sample ID: 480-115930-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1.2		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-265D-20170409
Date Collected: 04/09/17 10:05
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/15/17 16:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/15/17 16:50	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/15/17 16:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/15/17 16:50	1
1,1-Dichloroethane	ND		1.0		ug/L			04/15/17 16:50	1
1,1-Dichloroethene	ND		1.0		ug/L			04/15/17 16:50	1
1,1-Dichloropropene	ND		1.0		ug/L			04/15/17 16:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/15/17 16:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/15/17 16:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/15/17 16:50	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/15/17 16:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/15/17 16:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/15/17 16:50	1
1,2-Dichloroethane	ND		1.0		ug/L			04/15/17 16:50	1
1,2-Dichloropropane	ND		1.0		ug/L			04/15/17 16:50	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/15/17 16:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/15/17 16:50	1
1,3-Dichloropropane	ND		1.0		ug/L			04/15/17 16:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/15/17 16:50	1
1,4-Dioxane	ND		50		ug/L			04/15/17 16:50	1
2,2-Dichloropropane	ND		1.0		ug/L			04/15/17 16:50	1
2-Butanone (MEK)	ND		10		ug/L			04/15/17 16:50	1
2-Chlorotoluene	ND		1.0		ug/L			04/15/17 16:50	1
2-Hexanone	ND		10		ug/L			04/15/17 16:50	1
4-Chlorotoluene	ND		1.0		ug/L			04/15/17 16:50	1
4-Isopropyltoluene	ND		1.0		ug/L			04/15/17 16:50	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/15/17 16:50	1
Acetone	ND		50		ug/L			04/15/17 16:50	1
Benzene	ND		1.0		ug/L			04/15/17 16:50	1
Bromobenzene	ND		1.0		ug/L			04/15/17 16:50	1
Bromoform	ND	*	1.0		ug/L			04/15/17 16:50	1
Bromomethane	ND		2.0		ug/L			04/15/17 16:50	1
Carbon disulfide	ND		10		ug/L			04/15/17 16:50	1
Carbon tetrachloride	ND		1.0		ug/L			04/15/17 16:50	1
Chlorobenzene	ND		1.0		ug/L			04/15/17 16:50	1
Chlorobromomethane	ND		1.0		ug/L			04/15/17 16:50	1
Chlorodibromomethane	ND		0.50		ug/L			04/15/17 16:50	1
Chloroethane	ND		2.0		ug/L			04/15/17 16:50	1
Chloroform	ND		1.0		ug/L			04/15/17 16:50	1
Chloromethane	ND		2.0		ug/L			04/15/17 16:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/15/17 16:50	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/15/17 16:50	1
Dichlorobromomethane	ND		0.50		ug/L			04/15/17 16:50	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/15/17 16:50	1
Ethyl ether	ND		1.0		ug/L			04/15/17 16:50	1
Ethylbenzene	ND		1.0		ug/L			04/15/17 16:50	1
Ethylene Dibromide	ND		1.0		ug/L			04/15/17 16:50	1
Hexachlorobutadiene	ND		0.40		ug/L			04/15/17 16:50	1
Isopropyl ether	ND		10		ug/L			04/15/17 16:50	1

Client Sample ID: MW-265D-20170409

Lab Sample ID: 480-115930-1

Date Collected: 04/09/17 10:05

Matrix: Water

Date Received: 04/11/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/15/17 16:50	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/15/17 16:50	1
Methylene Chloride	ND		1.0		ug/L			04/15/17 16:50	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/15/17 16:50	1
Naphthalene	ND		5.0		ug/L			04/15/17 16:50	1
n-Butylbenzene	ND		1.0		ug/L			04/15/17 16:50	1
N-Propylbenzene	ND		1.0		ug/L			04/15/17 16:50	1
o-Xylene	ND		1.0		ug/L			04/15/17 16:50	1
sec-Butylbenzene	ND		1.0		ug/L			04/15/17 16:50	1
Styrene	ND		1.0		ug/L			04/15/17 16:50	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/15/17 16:50	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/15/17 16:50	1
tert-Butylbenzene	ND		1.0		ug/L			04/15/17 16:50	1
Tetrachloroethene	ND		1.0		ug/L			04/15/17 16:50	1
Tetrahydrofuran	ND	*	10		ug/L			04/15/17 16:50	1
Toluene	ND		1.0		ug/L			04/15/17 16:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/15/17 16:50	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/15/17 16:50	1
Trichloroethene	ND		1.0		ug/L			04/15/17 16:50	1
Trichlorofluoromethane	ND		1.0		ug/L			04/15/17 16:50	1
Vinyl chloride	ND		1.0		ug/L			04/15/17 16:50	1
Dibromomethane	ND		1.0		ug/L			04/15/17 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/15/17 16:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/15/17 16:50*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*04/15/17 16:50*	*1*

Client Sample ID: MW-266Mb-20170409

Lab Sample ID: 480-115930-2

Date Collected: 04/09/17 10:50

Matrix: Water

Date Received: 04/11/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/15/17 17:14	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/15/17 17:14	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/15/17 17:14	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/15/17 17:14	1
1,1-Dichloroethane	ND		1.0		ug/L			04/15/17 17:14	1
1,1-Dichloroethene	ND		1.0		ug/L			04/15/17 17:14	1
1,1-Dichloropropene	ND		1.0		ug/L			04/15/17 17:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/15/17 17:14	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/15/17 17:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/15/17 17:14	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/15/17 17:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/15/17 17:14	1
1,2-Dichlorobenzene	**1.2**		1.0		ug/L			04/15/17 17:14	1
1,2-Dichloroethane	ND		1.0		ug/L			04/15/17 17:14	1
1,2-Dichloropropane	ND		1.0		ug/L			04/15/17 17:14	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/15/17 17:14	1

Client Sample ID: MW-266Mb-20170409
Date Collected: 04/09/17 10:50
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			04/15/17 17:14	1
1,3-Dichloropropane	ND		1.0		ug/L			04/15/17 17:14	1
1,4-Dichlorobenzene	**1.1**		1.0		ug/L			04/15/17 17:14	1
1,4-Dioxane	ND		50		ug/L			04/15/17 17:14	1
2,2-Dichloropropane	ND		1.0		ug/L			04/15/17 17:14	1
2-Butanone (MEK)	ND		10		ug/L			04/15/17 17:14	1
2-Chlorotoluene	ND		1.0		ug/L			04/15/17 17:14	1
2-Hexanone	ND		10		ug/L			04/15/17 17:14	1
4-Chlorotoluene	ND		1.0		ug/L			04/15/17 17:14	1
4-Isopropyltoluene	ND		1.0		ug/L			04/15/17 17:14	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/15/17 17:14	1
Acetone	ND		50		ug/L			04/15/17 17:14	1
Benzene	ND		1.0		ug/L			04/15/17 17:14	1
Bromobenzene	ND		1.0		ug/L			04/15/17 17:14	1
Bromoform	ND	*	1.0		ug/L			04/15/17 17:14	1
Bromomethane	ND		2.0		ug/L			04/15/17 17:14	1
Carbon disulfide	ND		10		ug/L			04/15/17 17:14	1
Carbon tetrachloride	ND		1.0		ug/L			04/15/17 17:14	1
Chlorobenzene	ND		1.0		ug/L			04/15/17 17:14	1
Chlorobromomethane	ND		1.0		ug/L			04/15/17 17:14	1
Chlorodibromomethane	ND		0.50		ug/L			04/15/17 17:14	1
Chloroethane	ND		2.0		ug/L			04/15/17 17:14	1
Chloroform	ND		1.0		ug/L			04/15/17 17:14	1
Chloromethane	ND		2.0		ug/L			04/15/17 17:14	1
cis-1,2-Dichloroethene	**1.3**		1.0		ug/L			04/15/17 17:14	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/15/17 17:14	1
Dichlorobromomethane	ND		0.50		ug/L			04/15/17 17:14	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/15/17 17:14	1
Ethyl ether	ND		1.0		ug/L			04/15/17 17:14	1
Ethylbenzene	ND		1.0		ug/L			04/15/17 17:14	1
Ethylene Dibromide	ND		1.0		ug/L			04/15/17 17:14	1
Hexachlorobutadiene	ND		0.40		ug/L			04/15/17 17:14	1
Isopropyl ether	ND		10		ug/L			04/15/17 17:14	1
Isopropylbenzene	ND		1.0		ug/L			04/15/17 17:14	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/15/17 17:14	1
Methylene Chloride	ND		1.0		ug/L			04/15/17 17:14	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/15/17 17:14	1
Naphthalene	ND		5.0		ug/L			04/15/17 17:14	1
n-Butylbenzene	ND		1.0		ug/L			04/15/17 17:14	1
N-Propylbenzene	ND		1.0		ug/L			04/15/17 17:14	1
o-Xylene	ND		1.0		ug/L			04/15/17 17:14	1
sec-Butylbenzene	ND		1.0		ug/L			04/15/17 17:14	1
Styrene	ND		1.0		ug/L			04/15/17 17:14	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/15/17 17:14	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/15/17 17:14	1
tert-Butylbenzene	ND		1.0		ug/L			04/15/17 17:14	1
Tetrachloroethene	ND		1.0		ug/L			04/15/17 17:14	1
Tetrahydrofuran	ND	*	10		ug/L			04/15/17 17:14	1
Toluene	**5.3**		1.0		ug/L			04/15/17 17:14	1

Client Sample ID: MW-266Mb-20170409

Lab Sample ID: 480-115930-2

Date Collected: 04/09/17 10:50

Matrix: Water

Date Received: 04/11/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/15/17 17:14	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/15/17 17:14	1
Trichloroethene	**2.8**		1.0		ug/L			04/15/17 17:14	1
Trichlorofluoromethane	ND		1.0		ug/L			04/15/17 17:14	1
Vinyl chloride	**11**		1.0		ug/L			04/15/17 17:14	1
Dibromomethane	ND		1.0		ug/L			04/15/17 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*04/15/17 17:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/15/17 17:14*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*04/15/17 17:14*	*1*

Client Sample ID: MW-267S-20170410

Lab Sample ID: 480-115930-3

Date Collected: 04/10/17 08:05

Matrix: Water

Date Received: 04/11/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0		ug/L			04/16/17 01:05	4
1,1,1-Trichloroethane	ND		4.0		ug/L			04/16/17 01:05	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			04/16/17 01:05	4
1,1,2-Trichloroethane	ND		4.0		ug/L			04/16/17 01:05	4
1,1-Dichloroethane	ND		4.0		ug/L			04/16/17 01:05	4
1,1-Dichloroethene	ND		4.0		ug/L			04/16/17 01:05	4
1,1-Dichloropropene	ND		4.0		ug/L			04/16/17 01:05	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			04/16/17 01:05	4
1,2,3-Trichloropropane	ND		4.0		ug/L			04/16/17 01:05	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			04/16/17 01:05	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			04/16/17 01:05	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			04/16/17 01:05	4
1,2-Dichlorobenzene	ND		4.0		ug/L			04/16/17 01:05	4
1,2-Dichloroethane	ND		4.0		ug/L			04/16/17 01:05	4
1,2-Dichloropropane	ND		4.0		ug/L			04/16/17 01:05	4
1,3,5-Trimethylbenzene	ND		4.0		ug/L			04/16/17 01:05	4
1,3-Dichlorobenzene	ND		4.0		ug/L			04/16/17 01:05	4
1,3-Dichloropropane	ND		4.0		ug/L			04/16/17 01:05	4
1,4-Dichlorobenzene	ND		4.0		ug/L			04/16/17 01:05	4
1,4-Dioxane	ND		200		ug/L			04/16/17 01:05	4
2,2-Dichloropropane	ND		4.0		ug/L			04/16/17 01:05	4
2-Butanone (MEK)	**340**		40		ug/L			04/16/17 01:05	4
2-Chlorotoluene	ND		4.0		ug/L			04/16/17 01:05	4
2-Hexanone	ND		40		ug/L			04/16/17 01:05	4
4-Chlorotoluene	ND		4.0		ug/L			04/16/17 01:05	4
4-Isopropyltoluene	ND		4.0		ug/L			04/16/17 01:05	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			04/16/17 01:05	4
Acetone	ND	*	200		ug/L			04/16/17 01:05	4
Benzene	ND		4.0		ug/L			04/16/17 01:05	4
Bromobenzene	ND		4.0		ug/L			04/16/17 01:05	4
Bromoform	ND	*	4.0		ug/L			04/16/17 01:05	4
Bromomethane	ND		8.0		ug/L			04/16/17 01:05	4

Client Sample ID: MW-267S-20170410
Date Collected: 04/10/17 08:05
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		40		ug/L			04/16/17 01:05	4
Carbon tetrachloride	ND		4.0		ug/L			04/16/17 01:05	4
Chlorobenzene	ND		4.0		ug/L			04/16/17 01:05	4
Chlorobromomethane	ND		4.0		ug/L			04/16/17 01:05	4
Chlorodibromomethane	ND		2.0		ug/L			04/16/17 01:05	4
Chloroethane	ND		8.0		ug/L			04/16/17 01:05	4
Chloroform	ND		4.0		ug/L			04/16/17 01:05	4
Chloromethane	ND		8.0		ug/L			04/16/17 01:05	4
cis-1,2-Dichloroethene	**190**		4.0		ug/L			04/16/17 01:05	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			04/16/17 01:05	4
Dichlorobromomethane	ND		2.0		ug/L			04/16/17 01:05	4
Dichlorodifluoromethane	ND		4.0		ug/L			04/16/17 01:05	4
Ethyl ether	ND		4.0		ug/L			04/16/17 01:05	4
Ethylbenzene	ND		4.0		ug/L			04/16/17 01:05	4
Ethylene Dibromide	ND		4.0		ug/L			04/16/17 01:05	4
Hexachlorobutadiene	ND		1.6		ug/L			04/16/17 01:05	4
Isopropyl ether	ND		40		ug/L			04/16/17 01:05	4
Isopropylbenzene	ND		4.0		ug/L			04/16/17 01:05	4
Methyl tert-butyl ether	ND		4.0		ug/L			04/16/17 01:05	4
Methylene Chloride	ND		4.0		ug/L			04/16/17 01:05	4
m-Xylene & p-Xylene	ND		8.0		ug/L			04/16/17 01:05	4
Naphthalene	ND		20		ug/L			04/16/17 01:05	4
n-Butylbenzene	ND		4.0		ug/L			04/16/17 01:05	4
N-Propylbenzene	ND		4.0		ug/L			04/16/17 01:05	4
o-Xylene	ND		4.0		ug/L			04/16/17 01:05	4
sec-Butylbenzene	ND		4.0		ug/L			04/16/17 01:05	4
Styrene	ND		4.0		ug/L			04/16/17 01:05	4
Tert-amyl methyl ether	ND		20		ug/L			04/16/17 01:05	4
Tert-butyl ethyl ether	ND		20		ug/L			04/16/17 01:05	4
tert-Butylbenzene	ND		4.0		ug/L			04/16/17 01:05	4
Tetrachloroethene	ND		4.0		ug/L			04/16/17 01:05	4
Tetrahydrofuran	ND	*	40		ug/L			04/16/17 01:05	4
Toluene	**75**		4.0		ug/L			04/16/17 01:05	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			04/16/17 01:05	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			04/16/17 01:05	4
Trichloroethene	ND		4.0		ug/L			04/16/17 01:05	4
Trichlorofluoromethane	ND		4.0		ug/L			04/16/17 01:05	4
Vinyl chloride	**15**		4.0		ug/L			04/16/17 01:05	4
Dibromomethane	ND		4.0		ug/L			04/16/17 01:05	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/16/17 01:05*	*4*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*04/16/17 01:05*	*4*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*04/16/17 01:05*	*4*

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**4.3**		0.20		ug/L		04/14/17 17:35	04/19/17 12:37	1

Client Sample ID: MW-267S-20170410

Lab Sample ID: 480-115930-3

Date Collected: 04/10/17 08:05

Matrix: Water

Date Received: 04/11/17 01:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*110*		*46 - 130*	*04/14/17 17:35*	*04/19/17 12:37*	*1*

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**270**		0.050		mg/L		04/11/17 13:03	04/12/17 22:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**56**		2.5		mg/L			04/14/17 01:16	5
Sulfate	**22**		10		mg/L			04/14/17 01:16	5
Ammonia	ND		1.0		mg/L		04/12/17 16:19	04/13/17 09:13	1
Nitrate as N	ND		0.050		mg/L			04/11/17 18:57	1
TOC Result 1	**1700**		40		mg/L			04/13/17 20:20	40
TOC Result 2	**1700**		40		mg/L			04/13/17 20:20	40
Total Organic Carbon - Duplicates	**1700**		40		mg/L			04/13/17 20:20	40
Alkalinity, Total	**410**		5.0		mg/L			04/11/17 19:01	1
ortho-Phosphate	**0.071**		0.020		mg/L			04/11/17 22:21	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.2**	**HF**	0.1		SU			04/11/17 18:49	1
Temperature	**20.2**	**HF**	0.001		Degrees C			04/11/17 18:49	1

Client Sample ID: MW-267M-20170409

Lab Sample ID: 480-115930-4

Date Collected: 04/09/17 11:30

Matrix: Water

Date Received: 04/11/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/15/17 17:38	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/15/17 17:38	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/15/17 17:38	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/15/17 17:38	1
1,1-Dichloroethane	ND		1.0		ug/L			04/15/17 17:38	1
1,1-Dichloroethene	ND		1.0		ug/L			04/15/17 17:38	1
1,1-Dichloropropene	ND		1.0		ug/L			04/15/17 17:38	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/15/17 17:38	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/15/17 17:38	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/15/17 17:38	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/15/17 17:38	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/15/17 17:38	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/15/17 17:38	1
1,2-Dichloroethane	ND		1.0		ug/L			04/15/17 17:38	1
1,2-Dichloropropane	ND		1.0		ug/L			04/15/17 17:38	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/15/17 17:38	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/15/17 17:38	1
1,3-Dichloropropane	ND		1.0		ug/L			04/15/17 17:38	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/15/17 17:38	1
1,4-Dioxane	ND		50		ug/L			04/15/17 17:38	1
2,2-Dichloropropane	ND		1.0		ug/L			04/15/17 17:38	1
2-Butanone (MEK)	ND		10		ug/L			04/15/17 17:38	1
2-Chlorotoluene	ND		1.0		ug/L			04/15/17 17:38	1

Client Sample ID: MW-267M-20170409
Date Collected: 04/09/17 11:30
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		10		ug/L			04/15/17 17:38	1
4-Chlorotoluene	ND		1.0		ug/L			04/15/17 17:38	1
4-Isopropyltoluene	ND		1.0		ug/L			04/15/17 17:38	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/15/17 17:38	1
Acetone	ND		50		ug/L			04/15/17 17:38	1
Benzene	ND		1.0		ug/L			04/15/17 17:38	1
Bromobenzene	ND		1.0		ug/L			04/15/17 17:38	1
Bromoform	ND	*	1.0		ug/L			04/15/17 17:38	1
Bromomethane	ND		2.0		ug/L			04/15/17 17:38	1
Carbon disulfide	ND		10		ug/L			04/15/17 17:38	1
Carbon tetrachloride	ND		1.0		ug/L			04/15/17 17:38	1
Chlorobenzene	ND		1.0		ug/L			04/15/17 17:38	1
Chlorobromomethane	ND		1.0		ug/L			04/15/17 17:38	1
Chlorodibromomethane	ND		0.50		ug/L			04/15/17 17:38	1
Chloroethane	ND		2.0		ug/L			04/15/17 17:38	1
Chloroform	ND		1.0		ug/L			04/15/17 17:38	1
Chloromethane	ND		2.0		ug/L			04/15/17 17:38	1
cis-1,2-Dichloroethene	**1.1**		1.0		ug/L			04/15/17 17:38	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/15/17 17:38	1
Dichlorobromomethane	ND		0.50		ug/L			04/15/17 17:38	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/15/17 17:38	1
Ethyl ether	ND		1.0		ug/L			04/15/17 17:38	1
Ethylbenzene	ND		1.0		ug/L			04/15/17 17:38	1
Ethylene Dibromide	ND		1.0		ug/L			04/15/17 17:38	1
Hexachlorobutadiene	ND		0.40		ug/L			04/15/17 17:38	1
Isopropyl ether	ND		10		ug/L			04/15/17 17:38	1
Isopropylbenzene	ND		1.0		ug/L			04/15/17 17:38	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/15/17 17:38	1
Methylene Chloride	ND		1.0		ug/L			04/15/17 17:38	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/15/17 17:38	1
Naphthalene	ND		5.0		ug/L			04/15/17 17:38	1
n-Butylbenzene	ND		1.0		ug/L			04/15/17 17:38	1
N-Propylbenzene	ND		1.0		ug/L			04/15/17 17:38	1
o-Xylene	ND		1.0		ug/L			04/15/17 17:38	1
sec-Butylbenzene	ND		1.0		ug/L			04/15/17 17:38	1
Styrene	ND		1.0		ug/L			04/15/17 17:38	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/15/17 17:38	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/15/17 17:38	1
tert-Butylbenzene	ND		1.0		ug/L			04/15/17 17:38	1
Tetrachloroethene	ND		1.0		ug/L			04/15/17 17:38	1
Tetrahydrofuran	ND	*	10		ug/L			04/15/17 17:38	1
Toluene	ND		1.0		ug/L			04/15/17 17:38	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/15/17 17:38	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/15/17 17:38	1
Trichloroethene	ND		1.0		ug/L			04/15/17 17:38	1
Trichlorofluoromethane	ND		1.0		ug/L			04/15/17 17:38	1
Vinyl chloride	ND		1.0		ug/L			04/15/17 17:38	1
Dibromomethane	ND		1.0		ug/L			04/15/17 17:38	1

Client Sample ID: MW-267M-20170409

Lab Sample ID: 480-115930-4

Date Collected: 04/09/17 11:30

Matrix: Water

Date Received: 04/11/17 01:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*04/15/17 17:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*04/15/17 17:38*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*04/15/17 17:38*	*1*

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.6		0.20		ug/L		04/14/17 17:35	04/18/17 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*94*		*46 - 130*	*04/14/17 17:35*	*04/18/17 17:54*	*1*

Client Sample ID: MW-268S-20170410

Lab Sample ID: 480-115930-5

Date Collected: 04/10/17 10:20

Matrix: Water

Date Received: 04/11/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0		ug/L			04/16/17 01:29	4
1,1,1-Trichloroethane	ND		4.0		ug/L			04/16/17 01:29	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			04/16/17 01:29	4
1,1,2-Trichloroethane	ND		4.0		ug/L			04/16/17 01:29	4
1,1-Dichloroethane	ND		4.0		ug/L			04/16/17 01:29	4
1,1-Dichloroethene	ND		4.0		ug/L			04/16/17 01:29	4
1,1-Dichloropropene	ND		4.0		ug/L			04/16/17 01:29	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			04/16/17 01:29	4
1,2,3-Trichloropropane	ND		4.0		ug/L			04/16/17 01:29	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			04/16/17 01:29	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			04/16/17 01:29	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			04/16/17 01:29	4
1,2-Dichlorobenzene	ND		4.0		ug/L			04/16/17 01:29	4
1,2-Dichloroethane	ND		4.0		ug/L			04/16/17 01:29	4
1,2-Dichloropropane	ND		4.0		ug/L			04/16/17 01:29	4
1,3,5-Trimethylbenzene	ND		4.0		ug/L			04/16/17 01:29	4
1,3-Dichlorobenzene	ND		4.0		ug/L			04/16/17 01:29	4
1,3-Dichloropropane	ND		4.0		ug/L			04/16/17 01:29	4
1,4-Dichlorobenzene	ND		4.0		ug/L			04/16/17 01:29	4
1,4-Dioxane	ND		200		ug/L			04/16/17 01:29	4
2,2-Dichloropropane	ND		4.0		ug/L			04/16/17 01:29	4
2-Butanone (MEK)	ND		40		ug/L			04/16/17 01:29	4
2-Chlorotoluene	ND		4.0		ug/L			04/16/17 01:29	4
2-Hexanone	ND		40		ug/L			04/16/17 01:29	4
4-Chlorotoluene	ND		4.0		ug/L			04/16/17 01:29	4
4-Isopropyltoluene	ND		4.0		ug/L			04/16/17 01:29	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			04/16/17 01:29	4
Acetone	ND	*	200		ug/L			04/16/17 01:29	4
Benzene	ND		4.0		ug/L			04/16/17 01:29	4
Bromobenzene	ND		4.0		ug/L			04/16/17 01:29	4
Bromoform	ND	*	4.0		ug/L			04/16/17 01:29	4
Bromomethane	ND		8.0		ug/L			04/16/17 01:29	4
Carbon disulfide	ND		40		ug/L			04/16/17 01:29	4
Carbon tetrachloride	ND		4.0		ug/L			04/16/17 01:29	4

Client Sample ID: MW-268S-20170410
Date Collected: 04/10/17 10:20
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		4.0		ug/L			04/16/17 01:29	4
Chlorobromomethane	ND		4.0		ug/L			04/16/17 01:29	4
Chlorodibromomethane	ND		2.0		ug/L			04/16/17 01:29	4
Chloroethane	ND		8.0		ug/L			04/16/17 01:29	4
Chloroform	ND		4.0		ug/L			04/16/17 01:29	4
Chloromethane	ND		8.0		ug/L			04/16/17 01:29	4
cis-1,2-Dichloroethene	**90**		4.0		ug/L			04/16/17 01:29	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			04/16/17 01:29	4
Dichlorobromomethane	ND		2.0		ug/L			04/16/17 01:29	4
Dichlorodifluoromethane	ND		4.0		ug/L			04/16/17 01:29	4
Ethyl ether	ND		4.0		ug/L			04/16/17 01:29	4
Ethylbenzene	ND		4.0		ug/L			04/16/17 01:29	4
Ethylene Dibromide	ND		4.0		ug/L			04/16/17 01:29	4
Hexachlorobutadiene	ND		1.6		ug/L			04/16/17 01:29	4
Isopropyl ether	ND		40		ug/L			04/16/17 01:29	4
Isopropylbenzene	ND		4.0		ug/L			04/16/17 01:29	4
Methyl tert-butyl ether	ND		4.0		ug/L			04/16/17 01:29	4
Methylene Chloride	ND		4.0		ug/L			04/16/17 01:29	4
m-Xylene & p-Xylene	ND		8.0		ug/L			04/16/17 01:29	4
Naphthalene	ND		20		ug/L			04/16/17 01:29	4
n-Butylbenzene	ND		4.0		ug/L			04/16/17 01:29	4
N-Propylbenzene	ND		4.0		ug/L			04/16/17 01:29	4
o-Xylene	ND		4.0		ug/L			04/16/17 01:29	4
sec-Butylbenzene	ND		4.0		ug/L			04/16/17 01:29	4
Styrene	ND		4.0		ug/L			04/16/17 01:29	4
Tert-amyl methyl ether	ND		20		ug/L			04/16/17 01:29	4
Tert-butyl ethyl ether	ND		20		ug/L			04/16/17 01:29	4
tert-Butylbenzene	ND		4.0		ug/L			04/16/17 01:29	4
Tetrachloroethene	ND		4.0		ug/L			04/16/17 01:29	4
Tetrahydrofuran	ND	*	40		ug/L			04/16/17 01:29	4
Toluene	ND		4.0		ug/L			04/16/17 01:29	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			04/16/17 01:29	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			04/16/17 01:29	4
Trichloroethene	**180**		4.0		ug/L			04/16/17 01:29	4
Trichlorofluoromethane	ND		4.0		ug/L			04/16/17 01:29	4
Vinyl chloride	**6.1**		4.0		ug/L			04/16/17 01:29	4
Dibromomethane	ND		4.0		ug/L			04/16/17 01:29	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/16/17 01:29*	*4*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/16/17 01:29*	*4*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*04/16/17 01:29*	*4*

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**15**		0.20		ug/L		04/14/17 17:35	04/18/17 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*102*		*46 - 130*	*04/14/17 17:35*	*04/18/17 18:11*	*1*

Client Sample ID: MW-268S-20170410

Lab Sample ID: 480-115930-5

Date Collected: 04/10/17 10:20

Matrix: Water

Date Received: 04/11/17 01:00

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.46		0.050		mg/L		04/11/17 13:03	04/12/17 22:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16		1.0		mg/L			04/14/17 01:24	2
Sulfate	30		4.0		mg/L			04/14/17 01:24	2
Ammonia	0.22		0.20		mg/L		04/12/17 16:19	04/13/17 09:14	1
Nitrate as N	ND		0.050		mg/L			04/11/17 18:58	1
TOC Result 1	360		8.0		mg/L			04/13/17 20:48	8
TOC Result 2	360		8.0		mg/L			04/13/17 20:48	8
Total Organic Carbon - Duplicates	360		8.0		mg/L			04/13/17 20:48	8
Alkalinity, Total	230		5.0		mg/L			04/11/17 19:06	1
ortho-Phosphate	0.25		0.020		mg/L			04/11/17 22:21	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	11.2	HF	0.1		SU			04/18/17 01:29	1
Temperature	20.6	HF	0.001		Degrees C			04/18/17 01:29	1

Client Sample ID: MW-268M-20170410

Lab Sample ID: 480-115930-6

Date Collected: 04/10/17 09:40

Matrix: Water

Date Received: 04/11/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20		ug/L			04/16/17 01:53	20
1,1,1-Trichloroethane	ND		20		ug/L			04/16/17 01:53	20
1,1,2,2-Tetrachloroethane	ND		10		ug/L			04/16/17 01:53	20
1,1,2-Trichloroethane	ND		20		ug/L			04/16/17 01:53	20
1,1-Dichloroethane	ND		20		ug/L			04/16/17 01:53	20
1,1-Dichloroethene	ND		20		ug/L			04/16/17 01:53	20
1,1-Dichloropropene	ND		20		ug/L			04/16/17 01:53	20
1,2,3-Trichlorobenzene	ND		20		ug/L			04/16/17 01:53	20
1,2,3-Trichloropropane	ND		20		ug/L			04/16/17 01:53	20
1,2,4-Trichlorobenzene	ND		20		ug/L			04/16/17 01:53	20
1,2,4-Trimethylbenzene	ND		20		ug/L			04/16/17 01:53	20
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			04/16/17 01:53	20
1,2-Dichlorobenzene	ND		20		ug/L			04/16/17 01:53	20
1,2-Dichloroethane	ND		20		ug/L			04/16/17 01:53	20
1,2-Dichloropropane	ND		20		ug/L			04/16/17 01:53	20
1,3,5-Trimethylbenzene	ND		20		ug/L			04/16/17 01:53	20
1,3-Dichlorobenzene	ND		20		ug/L			04/16/17 01:53	20
1,3-Dichloropropane	ND		20		ug/L			04/16/17 01:53	20
1,4-Dichlorobenzene	ND		20		ug/L			04/16/17 01:53	20
1,4-Dioxane	ND		1000		ug/L			04/16/17 01:53	20
2,2-Dichloropropane	ND		20		ug/L			04/16/17 01:53	20
2-Butanone (MEK)	ND		200		ug/L			04/16/17 01:53	20
2-Chlorotoluene	ND		20		ug/L			04/16/17 01:53	20
2-Hexanone	ND		200		ug/L			04/16/17 01:53	20
4-Chlorotoluene	ND		20		ug/L			04/16/17 01:53	20
4-Isopropyltoluene	ND		20		ug/L			04/16/17 01:53	20
4-Methyl-2-pentanone (MIBK)	ND		200		ug/L			04/16/17 01:53	20

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-115930-1

Client Sample ID: MW-268M-20170410
Date Collected: 04/10/17 09:40
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	*	1000		ug/L			04/16/17 01:53	20
Benzene	ND		20		ug/L			04/16/17 01:53	20
Bromobenzene	ND		20		ug/L			04/16/17 01:53	20
Bromoform	ND	*	20		ug/L			04/16/17 01:53	20
Bromomethane	ND		40		ug/L			04/16/17 01:53	20
Carbon disulfide	ND		200		ug/L			04/16/17 01:53	20
Carbon tetrachloride	ND		20		ug/L			04/16/17 01:53	20
Chlorobenzene	ND		20		ug/L			04/16/17 01:53	20
Chlorobromomethane	ND		20		ug/L			04/16/17 01:53	20
Chlorodibromomethane	ND		10		ug/L			04/16/17 01:53	20
Chloroethane	ND		40		ug/L			04/16/17 01:53	20
Chloroform	ND		20		ug/L			04/16/17 01:53	20
Chloromethane	ND		40		ug/L			04/16/17 01:53	20
cis-1,2-Dichloroethene	**660**		20		ug/L			04/16/17 01:53	20
cis-1,3-Dichloropropene	ND		8.0		ug/L			04/16/17 01:53	20
Dichlorobromomethane	ND		10		ug/L			04/16/17 01:53	20
Dichlorodifluoromethane	ND		20		ug/L			04/16/17 01:53	20
Ethyl ether	ND		20		ug/L			04/16/17 01:53	20
Ethylbenzene	ND		20		ug/L			04/16/17 01:53	20
Ethylene Dibromide	ND		20		ug/L			04/16/17 01:53	20
Hexachlorobutadiene	ND		8.0		ug/L			04/16/17 01:53	20
Isopropyl ether	ND		200		ug/L			04/16/17 01:53	20
Isopropylbenzene	ND		20		ug/L			04/16/17 01:53	20
Methyl tert-butyl ether	ND		20		ug/L			04/16/17 01:53	20
Methylene Chloride	ND		20		ug/L			04/16/17 01:53	20
m-Xylene & p-Xylene	ND		40		ug/L			04/16/17 01:53	20
Naphthalene	ND		100		ug/L			04/16/17 01:53	20
n-Butylbenzene	ND		20		ug/L			04/16/17 01:53	20
N-Propylbenzene	ND		20		ug/L			04/16/17 01:53	20
o-Xylene	ND		20		ug/L			04/16/17 01:53	20
sec-Butylbenzene	ND		20		ug/L			04/16/17 01:53	20
Styrene	ND		20		ug/L			04/16/17 01:53	20
Tert-amyl methyl ether	ND		100		ug/L			04/16/17 01:53	20
Tert-butyl ethyl ether	ND		100		ug/L			04/16/17 01:53	20
tert-Butylbenzene	ND		20		ug/L			04/16/17 01:53	20
Tetrachloroethene	ND		20		ug/L			04/16/17 01:53	20
Tetrahydrofuran	ND	*	200		ug/L			04/16/17 01:53	20
Toluene	ND		20		ug/L			04/16/17 01:53	20
trans-1,2-Dichloroethene	ND		20		ug/L			04/16/17 01:53	20
trans-1,3-Dichloropropene	ND		8.0		ug/L			04/16/17 01:53	20
Trichloroethene	ND		20		ug/L			04/16/17 01:53	20
Trichlorofluoromethane	ND		20		ug/L			04/16/17 01:53	20
Vinyl chloride	**100**		20		ug/L			04/16/17 01:53	20
Dibromomethane	ND		20		ug/L			04/16/17 01:53	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/16/17 01:53*	*20*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/16/17 01:53*	*20*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/16/17 01:53*	*20*

Client Sample ID: MW-268M-20170410

Lab Sample ID: 480-115930-6

Date Collected: 04/10/17 09:40

Matrix: Water

Date Received: 04/11/17 01:00

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**5.9**		0.20		ug/L		04/14/17 17:35	04/18/17 18:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*91*		*46 - 130*	*04/14/17 17:35*	*04/18/17 18:28*	*1*

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**64**		0.050		mg/L		04/11/17 13:03	04/12/17 22:59	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**48**		1.0		mg/L			04/14/17 01:32	2
Sulfate	ND		4.0		mg/L			04/14/17 01:32	2
Ammonia	**0.26**		0.20		mg/L		04/12/17 16:19	04/13/17 09:14	1
Nitrate as N	ND		0.050		mg/L			04/11/17 18:59	1
TOC Result 1	**190**		4.0		mg/L			04/13/17 21:16	4
TOC Result 2	**200**		4.0		mg/L			04/13/17 21:16	4
Total Organic Carbon - Duplicates	**190**		4.0		mg/L			04/13/17 21:16	4
Alkalinity, Total	**320**		5.0		mg/L			04/11/17 19:12	1
ortho-Phosphate	**0.041**		0.020		mg/L			04/11/17 22:21	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.8**	**HF**	0.1		SU			04/11/17 18:55	1
Temperature	**20.3**	**HF**	0.001		Degrees C			04/11/17 18:55	1

Client Sample ID: MW-268D-20170409

Lab Sample ID: 480-115930-7

Date Collected: 04/09/17 12:50

Matrix: Water

Date Received: 04/11/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/16/17 02:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/16/17 02:17	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/16/17 02:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/16/17 02:17	1
1,1-Dichloroethane	ND		1.0		ug/L			04/16/17 02:17	1
1,1-Dichloroethene	ND		1.0		ug/L			04/16/17 02:17	1
1,1-Dichloropropene	ND		1.0		ug/L			04/16/17 02:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/16/17 02:17	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/16/17 02:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/16/17 02:17	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/16/17 02:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/16/17 02:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/16/17 02:17	1
1,2-Dichloroethane	ND		1.0		ug/L			04/16/17 02:17	1
1,2-Dichloropropane	ND		1.0		ug/L			04/16/17 02:17	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/16/17 02:17	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/16/17 02:17	1
1,3-Dichloropropane	ND		1.0		ug/L			04/16/17 02:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/16/17 02:17	1
1,4-Dioxane	ND		50		ug/L			04/16/17 02:17	1

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-115930-1

Client Sample ID: MW-268D-20170409
Date Collected: 04/09/17 12:50
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		1.0		ug/L			04/16/17 02:17	1
2-Butanone (MEK)	ND		10		ug/L			04/16/17 02:17	1
2-Chlorotoluene	ND		1.0		ug/L			04/16/17 02:17	1
2-Hexanone	ND		10		ug/L			04/16/17 02:17	1
4-Chlorotoluene	ND		1.0		ug/L			04/16/17 02:17	1
4-Isopropyltoluene	ND		1.0		ug/L			04/16/17 02:17	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/16/17 02:17	1
Acetone	ND	*	50		ug/L			04/16/17 02:17	1
Benzene	ND		1.0		ug/L			04/16/17 02:17	1
Bromobenzene	ND		1.0		ug/L			04/16/17 02:17	1
Bromoform	ND	*	1.0		ug/L			04/16/17 02:17	1
Bromomethane	ND		2.0		ug/L			04/16/17 02:17	1
Carbon disulfide	ND		10		ug/L			04/16/17 02:17	1
Carbon tetrachloride	ND		1.0		ug/L			04/16/17 02:17	1
Chlorobenzene	ND		1.0		ug/L			04/16/17 02:17	1
Chlorobromomethane	ND		1.0		ug/L			04/16/17 02:17	1
Chlorodibromomethane	ND		0.50		ug/L			04/16/17 02:17	1
Chloroethane	ND		2.0		ug/L			04/16/17 02:17	1
Chloroform	ND		1.0		ug/L			04/16/17 02:17	1
Chloromethane	ND		2.0		ug/L			04/16/17 02:17	1
cis-1,2-Dichloroethene	**3.8**		1.0		ug/L			04/16/17 02:17	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 02:17	1
Dichlorobromomethane	ND		0.50		ug/L			04/16/17 02:17	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/16/17 02:17	1
Ethyl ether	ND		1.0		ug/L			04/16/17 02:17	1
Ethylbenzene	ND		1.0		ug/L			04/16/17 02:17	1
Ethylene Dibromide	ND		1.0		ug/L			04/16/17 02:17	1
Hexachlorobutadiene	ND		0.40		ug/L			04/16/17 02:17	1
Isopropyl ether	ND		10		ug/L			04/16/17 02:17	1
Isopropylbenzene	ND		1.0		ug/L			04/16/17 02:17	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/16/17 02:17	1
Methylene Chloride	ND		1.0		ug/L			04/16/17 02:17	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/16/17 02:17	1
Naphthalene	ND		5.0		ug/L			04/16/17 02:17	1
n-Butylbenzene	ND		1.0		ug/L			04/16/17 02:17	1
N-Propylbenzene	ND		1.0		ug/L			04/16/17 02:17	1
o-Xylene	ND		1.0		ug/L			04/16/17 02:17	1
sec-Butylbenzene	ND		1.0		ug/L			04/16/17 02:17	1
Styrene	ND		1.0		ug/L			04/16/17 02:17	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/16/17 02:17	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/16/17 02:17	1
tert-Butylbenzene	ND		1.0		ug/L			04/16/17 02:17	1
Tetrachloroethene	ND		1.0		ug/L			04/16/17 02:17	1
Tetrahydrofuran	ND	*	10		ug/L			04/16/17 02:17	1
Toluene	ND		1.0		ug/L			04/16/17 02:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 02:17	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 02:17	1
Trichloroethene	**1.5**		1.0		ug/L			04/16/17 02:17	1
Trichlorofluoromethane	ND		1.0		ug/L			04/16/17 02:17	1

Client Sample ID: MW-268D-20170409

Lab Sample ID: 480-115930-7

Date Collected: 04/09/17 12:50

Matrix: Water

Date Received: 04/11/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		1.0		ug/L			04/16/17 02:17	1
Dibromomethane	ND		1.0		ug/L			04/16/17 02:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/16/17 02:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*04/16/17 02:17*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/16/17 02:17*	*1*

Client Sample ID: MW-269Ma-20170409

Lab Sample ID: 480-115930-8

Date Collected: 04/09/17 13:35

Matrix: Water

Date Received: 04/11/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/15/17 18:25	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/15/17 18:25	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/15/17 18:25	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/15/17 18:25	1
1,1-Dichloroethane	ND		1.0		ug/L			04/15/17 18:25	1
1,1-Dichloroethene	ND		1.0		ug/L			04/15/17 18:25	1
1,1-Dichloropropene	ND		1.0		ug/L			04/15/17 18:25	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/15/17 18:25	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/15/17 18:25	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/15/17 18:25	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/15/17 18:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/15/17 18:25	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/15/17 18:25	1
1,2-Dichloroethane	ND		1.0		ug/L			04/15/17 18:25	1
1,2-Dichloropropane	ND		1.0		ug/L			04/15/17 18:25	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/15/17 18:25	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/15/17 18:25	1
1,3-Dichloropropane	ND		1.0		ug/L			04/15/17 18:25	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/15/17 18:25	1
1,4-Dioxane	ND		50		ug/L			04/15/17 18:25	1
2,2-Dichloropropane	ND		1.0		ug/L			04/15/17 18:25	1
2-Butanone (MEK)	ND		10		ug/L			04/15/17 18:25	1
2-Chlorotoluene	ND		1.0		ug/L			04/15/17 18:25	1
2-Hexanone	ND		10		ug/L			04/15/17 18:25	1
4-Chlorotoluene	ND		1.0		ug/L			04/15/17 18:25	1
4-Isopropyltoluene	ND		1.0		ug/L			04/15/17 18:25	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/15/17 18:25	1
Acetone	ND		50		ug/L			04/15/17 18:25	1
Benzene	ND		1.0		ug/L			04/15/17 18:25	1
Bromobenzene	ND		1.0		ug/L			04/15/17 18:25	1
Bromoform	ND	*	1.0		ug/L			04/15/17 18:25	1
Bromomethane	ND		2.0		ug/L			04/15/17 18:25	1
Carbon disulfide	ND		10		ug/L			04/15/17 18:25	1
Carbon tetrachloride	ND		1.0		ug/L			04/15/17 18:25	1
Chlorobenzene	ND		1.0		ug/L			04/15/17 18:25	1
Chlorobromomethane	ND		1.0		ug/L			04/15/17 18:25	1

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-115930-1

Client Sample ID: MW-269Ma-20170409
Date Collected: 04/09/17 13:35
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	ND		0.50		ug/L			04/15/17 18:25	1
Chloroethane	ND		2.0		ug/L			04/15/17 18:25	1
Chloroform	ND		1.0		ug/L			04/15/17 18:25	1
Chloromethane	ND		2.0		ug/L			04/15/17 18:25	1
cis-1,2-Dichloroethene	**3.8**		1.0		ug/L			04/15/17 18:25	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/15/17 18:25	1
Dichlorobromomethane	ND		0.50		ug/L			04/15/17 18:25	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/15/17 18:25	1
Ethyl ether	ND		1.0		ug/L			04/15/17 18:25	1
Ethylbenzene	ND		1.0		ug/L			04/15/17 18:25	1
Ethylene Dibromide	ND		1.0		ug/L			04/15/17 18:25	1
Hexachlorobutadiene	ND		0.40		ug/L			04/15/17 18:25	1
Isopropyl ether	ND		10		ug/L			04/15/17 18:25	1
Isopropylbenzene	ND		1.0		ug/L			04/15/17 18:25	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/15/17 18:25	1
Methylene Chloride	ND		1.0		ug/L			04/15/17 18:25	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/15/17 18:25	1
Naphthalene	ND		5.0		ug/L			04/15/17 18:25	1
n-Butylbenzene	ND		1.0		ug/L			04/15/17 18:25	1
N-Propylbenzene	ND		1.0		ug/L			04/15/17 18:25	1
o-Xylene	ND		1.0		ug/L			04/15/17 18:25	1
sec-Butylbenzene	ND		1.0		ug/L			04/15/17 18:25	1
Styrene	ND		1.0		ug/L			04/15/17 18:25	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/15/17 18:25	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/15/17 18:25	1
tert-Butylbenzene	ND		1.0		ug/L			04/15/17 18:25	1
Tetrachloroethene	ND		1.0		ug/L			04/15/17 18:25	1
Tetrahydrofuran	ND	*	10		ug/L			04/15/17 18:25	1
Toluene	ND		1.0		ug/L			04/15/17 18:25	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/15/17 18:25	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/15/17 18:25	1
Trichloroethene	**3.8**		1.0		ug/L			04/15/17 18:25	1
Trichlorofluoromethane	ND		1.0		ug/L			04/15/17 18:25	1
Vinyl chloride	ND		1.0		ug/L			04/15/17 18:25	1
Dibromomethane	ND		1.0		ug/L			04/15/17 18:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*04/15/17 18:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/15/17 18:25*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*04/15/17 18:25*	*1*

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.2**		0.20		ug/L		04/14/17 17:35	04/18/17 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*99*		*46 - 130*	*04/14/17 17:35*	*04/18/17 18:45*	*1*

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-115930-1

Client Sample ID: REW-6-20170410
Date Collected: 04/10/17 08:55
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			04/16/17 14:27	2
1,1,1-Trichloroethane	ND		2.0		ug/L			04/16/17 14:27	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/16/17 14:27	2
1,1,2-Trichloroethane	ND		2.0		ug/L			04/16/17 14:27	2
1,1-Dichloroethane	ND		2.0		ug/L			04/16/17 14:27	2
1,1-Dichloroethene	ND		2.0		ug/L			04/16/17 14:27	2
1,1-Dichloropropene	ND		2.0		ug/L			04/16/17 14:27	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			04/16/17 14:27	2
1,2,3-Trichloropropane	ND		2.0		ug/L			04/16/17 14:27	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			04/16/17 14:27	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			04/16/17 14:27	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			04/16/17 14:27	2
1,2-Dichlorobenzene	ND		2.0		ug/L			04/16/17 14:27	2
1,2-Dichloroethane	ND		2.0		ug/L			04/16/17 14:27	2
1,2-Dichloropropane	ND		2.0		ug/L			04/16/17 14:27	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			04/16/17 14:27	2
1,3-Dichlorobenzene	ND		2.0		ug/L			04/16/17 14:27	2
1,3-Dichloropropane	ND		2.0		ug/L			04/16/17 14:27	2
1,4-Dichlorobenzene	ND		2.0		ug/L			04/16/17 14:27	2
1,4-Dioxane	ND		100		ug/L			04/16/17 14:27	2
2,2-Dichloropropane	ND		2.0		ug/L			04/16/17 14:27	2
2-Butanone (MEK)	**380**	*	20		ug/L			04/16/17 14:27	2
2-Chlorotoluene	ND		2.0		ug/L			04/16/17 14:27	2
2-Hexanone	ND		20		ug/L			04/16/17 14:27	2
4-Chlorotoluene	ND		2.0		ug/L			04/16/17 14:27	2
4-Isopropyltoluene	ND		2.0		ug/L			04/16/17 14:27	2
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			04/16/17 14:27	2
Acetone	ND	*	100		ug/L			04/16/17 14:27	2
Benzene	ND		2.0		ug/L			04/16/17 14:27	2
Bromobenzene	ND		2.0		ug/L			04/16/17 14:27	2
Bromoform	ND	*	2.0		ug/L			04/16/17 14:27	2
Bromomethane	ND		4.0		ug/L			04/16/17 14:27	2
Carbon disulfide	ND		20		ug/L			04/16/17 14:27	2
Carbon tetrachloride	ND		2.0		ug/L			04/16/17 14:27	2
Chlorobenzene	ND		2.0		ug/L			04/16/17 14:27	2
Chlorobromomethane	ND		2.0		ug/L			04/16/17 14:27	2
Chlorodibromomethane	ND		1.0		ug/L			04/16/17 14:27	2
Chloroethane	ND		4.0		ug/L			04/16/17 14:27	2
Chloroform	ND		2.0		ug/L			04/16/17 14:27	2
Chloromethane	ND		4.0		ug/L			04/16/17 14:27	2
cis-1,2-Dichloroethene	ND		2.0		ug/L			04/16/17 14:27	2
cis-1,3-Dichloropropene	ND		0.80		ug/L			04/16/17 14:27	2
Dichlorobromomethane	ND		1.0		ug/L			04/16/17 14:27	2
Dichlorodifluoromethane	ND		2.0		ug/L			04/16/17 14:27	2
Ethyl ether	ND		2.0		ug/L			04/16/17 14:27	2
Ethylbenzene	ND		2.0		ug/L			04/16/17 14:27	2
Ethylene Dibromide	ND		2.0		ug/L			04/16/17 14:27	2
Hexachlorobutadiene	ND		0.80		ug/L			04/16/17 14:27	2
Isopropyl ether	ND		20		ug/L			04/16/17 14:27	2

Client Sample ID: REW-6-20170410
Date Collected: 04/10/17 08:55
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		2.0		ug/L			04/16/17 14:27	2
Methyl tert-butyl ether	ND		2.0		ug/L			04/16/17 14:27	2
Methylene Chloride	ND		2.0		ug/L			04/16/17 14:27	2
m-Xylene & p-Xylene	ND		4.0		ug/L			04/16/17 14:27	2
Naphthalene	**15**		10		ug/L			04/16/17 14:27	2
n-Butylbenzene	ND		2.0		ug/L			04/16/17 14:27	2
N-Propylbenzene	ND		2.0		ug/L			04/16/17 14:27	2
o-Xylene	ND		2.0		ug/L			04/16/17 14:27	2
sec-Butylbenzene	ND		2.0		ug/L			04/16/17 14:27	2
Styrene	ND		2.0		ug/L			04/16/17 14:27	2
Tert-amyl methyl ether	ND		10		ug/L			04/16/17 14:27	2
Tert-butyl ethyl ether	ND		10		ug/L			04/16/17 14:27	2
tert-Butylbenzene	ND		2.0		ug/L			04/16/17 14:27	2
Tetrachloroethene	ND		2.0		ug/L			04/16/17 14:27	2
Tetrahydrofuran	ND	*	20		ug/L			04/16/17 14:27	2
Toluene	**47**		2.0		ug/L			04/16/17 14:27	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			04/16/17 14:27	2
trans-1,3-Dichloropropene	ND		0.80		ug/L			04/16/17 14:27	2
Trichloroethene	ND		2.0		ug/L			04/16/17 14:27	2
Trichlorofluoromethane	ND		2.0		ug/L			04/16/17 14:27	2
Vinyl chloride	ND		2.0		ug/L			04/16/17 14:27	2
Dibromomethane	ND		2.0		ug/L			04/16/17 14:27	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/16/17 14:27*	*2*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/16/17 14:27*	*2*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/16/17 14:27*	*2*

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**2.7**		0.050		mg/L		04/11/17 13:03	04/12/17 23:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**52**		2.5		mg/L			04/14/17 01:40	5
Sulfate	ND		10		mg/L			04/14/17 01:40	5
Ammonia	**2.8**		1.0		mg/L		04/12/17 16:19	04/13/17 09:15	1
Nitrate as N	ND		0.050		mg/L			04/11/17 19:05	1
TOC Result 1	**4300**		80		mg/L			04/14/17 19:57	80
TOC Result 2	**4300**		80		mg/L			04/14/17 19:57	80
Total Organic Carbon - Duplicates	**4300**		80		mg/L			04/14/17 19:57	80
Alkalinity, Total	**500**		5.0		mg/L			04/11/17 19:19	1
ortho-Phosphate	**0.23**		0.020		mg/L			04/11/17 22:21	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**9.7**	**HF**	0.1		SU			04/11/17 18:58	1
Temperature	**20.5**	**HF**	0.001		Degrees C			04/11/17 18:58	1

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-115930-1

Client Sample ID: REW-7-20170410
Date Collected: 04/10/17 12:30
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/16/17 03:04	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/16/17 03:04	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/16/17 03:04	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/16/17 03:04	1
1,1-Dichloroethane	ND		1.0		ug/L			04/16/17 03:04	1
1,1-Dichloroethene	ND		1.0		ug/L			04/16/17 03:04	1
1,1-Dichloropropene	ND		1.0		ug/L			04/16/17 03:04	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/16/17 03:04	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/16/17 03:04	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/16/17 03:04	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/16/17 03:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/16/17 03:04	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/16/17 03:04	1
1,2-Dichloroethane	ND		1.0		ug/L			04/16/17 03:04	1
1,2-Dichloropropane	ND		1.0		ug/L			04/16/17 03:04	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/16/17 03:04	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/16/17 03:04	1
1,3-Dichloropropane	ND		1.0		ug/L			04/16/17 03:04	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/16/17 03:04	1
1,4-Dioxane	ND		50		ug/L			04/16/17 03:04	1
2,2-Dichloropropane	ND		1.0		ug/L			04/16/17 03:04	1
2-Butanone (MEK)	ND		10		ug/L			04/16/17 03:04	1
2-Chlorotoluene	ND		1.0		ug/L			04/16/17 03:04	1
2-Hexanone	ND		10		ug/L			04/16/17 03:04	1
4-Chlorotoluene	ND		1.0		ug/L			04/16/17 03:04	1
4-Isopropyltoluene	ND		1.0		ug/L			04/16/17 03:04	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/16/17 03:04	1
Acetone	ND	*	50		ug/L			04/16/17 03:04	1
Benzene	ND		1.0		ug/L			04/16/17 03:04	1
Bromobenzene	ND		1.0		ug/L			04/16/17 03:04	1
Bromoform	ND	*	1.0		ug/L			04/16/17 03:04	1
Bromomethane	ND		2.0		ug/L			04/16/17 03:04	1
Carbon disulfide	ND		10		ug/L			04/16/17 03:04	1
Carbon tetrachloride	ND		1.0		ug/L			04/16/17 03:04	1
Chlorobenzene	ND		1.0		ug/L			04/16/17 03:04	1
Chlorobromomethane	ND		1.0		ug/L			04/16/17 03:04	1
Chlorodibromomethane	ND		0.50		ug/L			04/16/17 03:04	1
Chloroethane	ND		2.0		ug/L			04/16/17 03:04	1
Chloroform	ND		1.0		ug/L			04/16/17 03:04	1
Chloromethane	ND		2.0		ug/L			04/16/17 03:04	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 03:04	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 03:04	1
Dichlorobromomethane	ND		0.50		ug/L			04/16/17 03:04	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/16/17 03:04	1
Ethyl ether	ND		1.0		ug/L			04/16/17 03:04	1
Ethylbenzene	ND		1.0		ug/L			04/16/17 03:04	1
Ethylene Dibromide	ND		1.0		ug/L			04/16/17 03:04	1
Hexachlorobutadiene	ND		0.40		ug/L			04/16/17 03:04	1
Isopropyl ether	ND		10		ug/L			04/16/17 03:04	1

Client Sample ID: REW-7-20170410

Date Collected: 04/10/17 12:30
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-10

Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/16/17 03:04	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/16/17 03:04	1
Methylene Chloride	ND		1.0		ug/L			04/16/17 03:04	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/16/17 03:04	1
Naphthalene	ND		5.0		ug/L			04/16/17 03:04	1
n-Butylbenzene	ND		1.0		ug/L			04/16/17 03:04	1
N-Propylbenzene	ND		1.0		ug/L			04/16/17 03:04	1
o-Xylene	ND		1.0		ug/L			04/16/17 03:04	1
sec-Butylbenzene	ND		1.0		ug/L			04/16/17 03:04	1
Styrene	ND		1.0		ug/L			04/16/17 03:04	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/16/17 03:04	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/16/17 03:04	1
tert-Butylbenzene	ND		1.0		ug/L			04/16/17 03:04	1
Tetrachloroethene	ND		1.0		ug/L			04/16/17 03:04	1
Tetrahydrofuran	ND	*	10		ug/L			04/16/17 03:04	1
Toluene	ND		1.0		ug/L			04/16/17 03:04	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 03:04	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 03:04	1
Trichloroethene	ND		1.0		ug/L			04/16/17 03:04	1
Trichlorofluoromethane	ND		1.0		ug/L			04/16/17 03:04	1
Vinyl chloride	ND		1.0		ug/L			04/16/17 03:04	1
Dibromomethane	ND		1.0		ug/L			04/16/17 03:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*04/16/17 03:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*04/16/17 03:04*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/16/17 03:04*	*1*

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**7.6**		0.050		mg/L		04/11/17 13:03	04/12/17 23:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.6**		0.50		mg/L			04/14/17 01:48	1
Sulfate	**39**		2.0		mg/L			04/14/17 01:48	1
Ammonia	**0.77**		0.20		mg/L		04/13/17 17:33	04/14/17 09:10	1
Nitrate as N	ND		0.050		mg/L			04/11/17 19:06	1
TOC Result 1	**1.4**		1.0		mg/L			04/13/17 22:12	1
TOC Result 2	**2.1**		1.0		mg/L			04/13/17 22:12	1
Total Organic Carbon - Duplicates	**1.7**		1.0		mg/L			04/13/17 22:12	1
Alkalinity, Total	**54**		5.0		mg/L			04/11/17 19:24	1
ortho-Phosphate	**0.10**		0.020		mg/L			04/11/17 22:21	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.0**	**HF**	0.1		SU			04/11/17 19:00	1
Temperature	**20.5**	**HF**	0.001		Degrees C			04/11/17 19:00	1

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-115930-1

Client Sample ID: REW-11-20170410
Date Collected: 04/10/17 11:00
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/16/17 03:27	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/16/17 03:27	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/16/17 03:27	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/16/17 03:27	1
1,1-Dichloroethane	ND		1.0		ug/L			04/16/17 03:27	1
1,1-Dichloroethene	ND		1.0		ug/L			04/16/17 03:27	1
1,1-Dichloropropene	ND		1.0		ug/L			04/16/17 03:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/16/17 03:27	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/16/17 03:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/16/17 03:27	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/16/17 03:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/16/17 03:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/16/17 03:27	1
1,2-Dichloroethane	ND		1.0		ug/L			04/16/17 03:27	1
1,2-Dichloropropane	ND		1.0		ug/L			04/16/17 03:27	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/16/17 03:27	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/16/17 03:27	1
1,3-Dichloropropane	ND		1.0		ug/L			04/16/17 03:27	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/16/17 03:27	1
1,4-Dioxane	ND		50		ug/L			04/16/17 03:27	1
2,2-Dichloropropane	ND		1.0		ug/L			04/16/17 03:27	1
2-Butanone (MEK)	ND		10		ug/L			04/16/17 03:27	1
2-Chlorotoluene	ND		1.0		ug/L			04/16/17 03:27	1
2-Hexanone	ND		10		ug/L			04/16/17 03:27	1
4-Chlorotoluene	ND		1.0		ug/L			04/16/17 03:27	1
4-Isopropyltoluene	ND		1.0		ug/L			04/16/17 03:27	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/16/17 03:27	1
Acetone	ND	*	50		ug/L			04/16/17 03:27	1
Benzene	ND		1.0		ug/L			04/16/17 03:27	1
Bromobenzene	ND		1.0		ug/L			04/16/17 03:27	1
Bromoform	ND	*	1.0		ug/L			04/16/17 03:27	1
Bromomethane	ND		2.0		ug/L			04/16/17 03:27	1
Carbon disulfide	ND		10		ug/L			04/16/17 03:27	1
Carbon tetrachloride	ND		1.0		ug/L			04/16/17 03:27	1
Chlorobenzene	ND		1.0		ug/L			04/16/17 03:27	1
Chlorobromomethane	ND		1.0		ug/L			04/16/17 03:27	1
Chlorodibromomethane	ND		0.50		ug/L			04/16/17 03:27	1
Chloroethane	ND		2.0		ug/L			04/16/17 03:27	1
Chloroform	ND		1.0		ug/L			04/16/17 03:27	1
Chloromethane	ND		2.0		ug/L			04/16/17 03:27	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 03:27	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 03:27	1
Dichlorobromomethane	ND		0.50		ug/L			04/16/17 03:27	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/16/17 03:27	1
Ethyl ether	ND		1.0		ug/L			04/16/17 03:27	1
Ethylbenzene	ND		1.0		ug/L			04/16/17 03:27	1
Ethylene Dibromide	ND		1.0		ug/L			04/16/17 03:27	1
Hexachlorobutadiene	ND		0.40		ug/L			04/16/17 03:27	1
Isopropyl ether	ND		10		ug/L			04/16/17 03:27	1

Client Sample ID: REW-11-20170410
Date Collected: 04/10/17 11:00
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/16/17 03:27	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/16/17 03:27	1
Methylene Chloride	ND		1.0		ug/L			04/16/17 03:27	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/16/17 03:27	1
Naphthalene	ND		5.0		ug/L			04/16/17 03:27	1
n-Butylbenzene	ND		1.0		ug/L			04/16/17 03:27	1
N-Propylbenzene	ND		1.0		ug/L			04/16/17 03:27	1
o-Xylene	ND		1.0		ug/L			04/16/17 03:27	1
sec-Butylbenzene	ND		1.0		ug/L			04/16/17 03:27	1
Styrene	ND		1.0		ug/L			04/16/17 03:27	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/16/17 03:27	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/16/17 03:27	1
tert-Butylbenzene	ND		1.0		ug/L			04/16/17 03:27	1
Tetrachloroethene	ND		1.0		ug/L			04/16/17 03:27	1
Tetrahydrofuran	ND	*	10		ug/L			04/16/17 03:27	1
Toluene	**5.1**		1.0		ug/L			04/16/17 03:27	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 03:27	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 03:27	1
Trichloroethene	ND		1.0		ug/L			04/16/17 03:27	1
Trichlorofluoromethane	ND		1.0		ug/L			04/16/17 03:27	1
Vinyl chloride	ND		1.0		ug/L			04/16/17 03:27	1
Dibromomethane	ND		1.0		ug/L			04/16/17 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*04/16/17 03:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*04/16/17 03:27*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/16/17 03:27*	*1*

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**34**		0.050		mg/L		04/11/17 13:03	04/12/17 23:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**65**		1.0		mg/L			04/14/17 01:56	2
Sulfate	ND		4.0		mg/L			04/14/17 01:56	2
Ammonia	**1.0**	**F1**	1.0		mg/L		04/12/17 16:19	04/13/17 09:16	1
Nitrate as N	ND		0.050		mg/L			04/11/17 19:07	1
TOC Result 1	**170**		4.0		mg/L			04/13/17 22:40	4
TOC Result 2	**170**		4.0		mg/L			04/13/17 22:40	4
Total Organic Carbon - Duplicates	**170**		4.0		mg/L			04/13/17 22:40	4
Alkalinity, Total	**360**	**F1**	5.0		mg/L			04/11/17 19:35	1
ortho-Phosphate	**0.029**		0.020		mg/L			04/11/17 22:21	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.2**	**HF**	0.1		SU			04/11/17 19:03	1
Temperature	**20.4**	**HF**	0.001		Degrees C			04/11/17 19:03	1

Client Sample ID: DUP1-20170409
Date Collected: 04/09/17 00:00
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/15/17 18:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/15/17 18:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/15/17 18:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/15/17 18:49	1
1,1-Dichloroethane	ND		1.0		ug/L			04/15/17 18:49	1
1,1-Dichloroethene	ND		1.0		ug/L			04/15/17 18:49	1
1,1-Dichloropropene	ND		1.0		ug/L			04/15/17 18:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/15/17 18:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/15/17 18:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/15/17 18:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/15/17 18:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/15/17 18:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/15/17 18:49	1
1,2-Dichloroethane	ND		1.0		ug/L			04/15/17 18:49	1
1,2-Dichloropropane	ND		1.0		ug/L			04/15/17 18:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/15/17 18:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/15/17 18:49	1
1,3-Dichloropropane	ND		1.0		ug/L			04/15/17 18:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/15/17 18:49	1
1,4-Dioxane	ND		50		ug/L			04/15/17 18:49	1
2,2-Dichloropropane	ND		1.0		ug/L			04/15/17 18:49	1
2-Butanone (MEK)	ND		10		ug/L			04/15/17 18:49	1
2-Chlorotoluene	ND		1.0		ug/L			04/15/17 18:49	1
2-Hexanone	ND		10		ug/L			04/15/17 18:49	1
4-Chlorotoluene	ND		1.0		ug/L			04/15/17 18:49	1
4-Isopropyltoluene	ND		1.0		ug/L			04/15/17 18:49	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/15/17 18:49	1
Acetone	ND		50		ug/L			04/15/17 18:49	1
Benzene	ND		1.0		ug/L			04/15/17 18:49	1
Bromobenzene	ND		1.0		ug/L			04/15/17 18:49	1
Bromoform	ND	*	1.0		ug/L			04/15/17 18:49	1
Bromomethane	ND		2.0		ug/L			04/15/17 18:49	1
Carbon disulfide	ND		10		ug/L			04/15/17 18:49	1
Carbon tetrachloride	ND		1.0		ug/L			04/15/17 18:49	1
Chlorobenzene	ND		1.0		ug/L			04/15/17 18:49	1
Chlorobromomethane	ND		1.0		ug/L			04/15/17 18:49	1
Chlorodibromomethane	ND		0.50		ug/L			04/15/17 18:49	1
Chloroethane	ND		2.0		ug/L			04/15/17 18:49	1
Chloroform	ND		1.0		ug/L			04/15/17 18:49	1
Chloromethane	ND		2.0		ug/L			04/15/17 18:49	1
cis-1,2-Dichloroethene	**3.7**		1.0		ug/L			04/15/17 18:49	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/15/17 18:49	1
Dichlorobromomethane	ND		0.50		ug/L			04/15/17 18:49	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/15/17 18:49	1
Ethyl ether	ND		1.0		ug/L			04/15/17 18:49	1
Ethylbenzene	ND		1.0		ug/L			04/15/17 18:49	1
Ethylene Dibromide	ND		1.0		ug/L			04/15/17 18:49	1
Hexachlorobutadiene	ND		0.40		ug/L			04/15/17 18:49	1
Isopropyl ether	ND		10		ug/L			04/15/17 18:49	1

Client Sample ID: DUP1-20170409

Lab Sample ID: 480-115930-12

Date Collected: 04/09/17 00:00

Matrix: Water

Date Received: 04/11/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/15/17 18:49	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/15/17 18:49	1
Methylene Chloride	ND		1.0		ug/L			04/15/17 18:49	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/15/17 18:49	1
Naphthalene	ND		5.0		ug/L			04/15/17 18:49	1
n-Butylbenzene	ND		1.0		ug/L			04/15/17 18:49	1
N-Propylbenzene	ND		1.0		ug/L			04/15/17 18:49	1
o-Xylene	ND		1.0		ug/L			04/15/17 18:49	1
sec-Butylbenzene	ND		1.0		ug/L			04/15/17 18:49	1
Styrene	ND		1.0		ug/L			04/15/17 18:49	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/15/17 18:49	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/15/17 18:49	1
tert-Butylbenzene	ND		1.0		ug/L			04/15/17 18:49	1
Tetrachloroethene	ND		1.0		ug/L			04/15/17 18:49	1
Tetrahydrofuran	ND	*	10		ug/L			04/15/17 18:49	1
Toluene	ND		1.0		ug/L			04/15/17 18:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/15/17 18:49	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/15/17 18:49	1
Trichloroethene	**3.9**		1.0		ug/L			04/15/17 18:49	1
Trichlorofluoromethane	ND		1.0		ug/L			04/15/17 18:49	1
Vinyl chloride	ND		1.0		ug/L			04/15/17 18:49	1
Dibromomethane	ND		1.0		ug/L			04/15/17 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/15/17 18:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*04/15/17 18:49*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/15/17 18:49*	*1*

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.99**		0.20		ug/L		04/14/17 17:35	04/18/17 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*95*		*46 - 130*	*04/14/17 17:35*	*04/18/17 19:01*	*1*

Client Sample ID: DUP2-20170410

Lab Sample ID: 480-115930-13

Date Collected: 04/10/17 00:00

Matrix: Water

Date Received: 04/11/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/16/17 14:51	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/16/17 14:51	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/16/17 14:51	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/16/17 14:51	1
1,1-Dichloroethane	ND		1.0		ug/L			04/16/17 14:51	1
1,1-Dichloroethene	ND		1.0		ug/L			04/16/17 14:51	1
1,1-Dichloropropene	ND		1.0		ug/L			04/16/17 14:51	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/16/17 14:51	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/16/17 14:51	1

Client Sample ID: DUP2-20170410
Date Collected: 04/10/17 00:00
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-13
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/16/17 14:51	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/16/17 14:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/16/17 14:51	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/16/17 14:51	1
1,2-Dichloroethane	ND		1.0		ug/L			04/16/17 14:51	1
1,2-Dichloropropane	ND		1.0		ug/L			04/16/17 14:51	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/16/17 14:51	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/16/17 14:51	1
1,3-Dichloropropane	ND		1.0		ug/L			04/16/17 14:51	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/16/17 14:51	1
1,4-Dioxane	ND		50		ug/L			04/16/17 14:51	1
2,2-Dichloropropane	ND		1.0		ug/L			04/16/17 14:51	1
2-Butanone (MEK)	ND	*	10		ug/L			04/16/17 14:51	1
2-Chlorotoluene	ND		1.0		ug/L			04/16/17 14:51	1
2-Hexanone	ND		10		ug/L			04/16/17 14:51	1
4-Chlorotoluene	ND		1.0		ug/L			04/16/17 14:51	1
4-Isopropyltoluene	ND		1.0		ug/L			04/16/17 14:51	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/16/17 14:51	1
Acetone	ND	*	50		ug/L			04/16/17 14:51	1
Benzene	ND		1.0		ug/L			04/16/17 14:51	1
Bromobenzene	ND		1.0		ug/L			04/16/17 14:51	1
Bromoform	ND	*	1.0		ug/L			04/16/17 14:51	1
Bromomethane	ND		2.0		ug/L			04/16/17 14:51	1
Carbon disulfide	ND		10		ug/L			04/16/17 14:51	1
Carbon tetrachloride	ND		1.0		ug/L			04/16/17 14:51	1
Chlorobenzene	ND		1.0		ug/L			04/16/17 14:51	1
Chlorobromomethane	ND		1.0		ug/L			04/16/17 14:51	1
Chlorodibromomethane	ND		0.50		ug/L			04/16/17 14:51	1
Chloroethane	ND		2.0		ug/L			04/16/17 14:51	1
Chloroform	ND		1.0		ug/L			04/16/17 14:51	1
Chloromethane	ND		2.0		ug/L			04/16/17 14:51	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 14:51	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 14:51	1
Dichlorobromomethane	ND		0.50		ug/L			04/16/17 14:51	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/16/17 14:51	1
Ethyl ether	ND		1.0		ug/L			04/16/17 14:51	1
Ethylbenzene	ND		1.0		ug/L			04/16/17 14:51	1
Ethylene Dibromide	ND		1.0		ug/L			04/16/17 14:51	1
Hexachlorobutadiene	ND		0.40		ug/L			04/16/17 14:51	1
Isopropyl ether	ND		10		ug/L			04/16/17 14:51	1
Isopropylbenzene	ND		1.0		ug/L			04/16/17 14:51	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/16/17 14:51	1
Methylene Chloride	ND		1.0		ug/L			04/16/17 14:51	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/16/17 14:51	1
Naphthalene	ND		5.0		ug/L			04/16/17 14:51	1
n-Butylbenzene	ND		1.0		ug/L			04/16/17 14:51	1
N-Propylbenzene	ND		1.0		ug/L			04/16/17 14:51	1
o-Xylene	ND		1.0		ug/L			04/16/17 14:51	1
sec-Butylbenzene	ND		1.0		ug/L			04/16/17 14:51	1

Client Sample ID: DUP2-20170410

Lab Sample ID: 480-115930-13

Date Collected: 04/10/17 00:00

Matrix: Water

Date Received: 04/11/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0		ug/L			04/16/17 14:51	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/16/17 14:51	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/16/17 14:51	1
tert-Butylbenzene	ND		1.0		ug/L			04/16/17 14:51	1
Tetrachloroethene	ND		1.0		ug/L			04/16/17 14:51	1
Tetrahydrofuran	ND	*	10		ug/L			04/16/17 14:51	1
Toluene	**5.3**		1.0		ug/L			04/16/17 14:51	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 14:51	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 14:51	1
Trichloroethene	ND		1.0		ug/L			04/16/17 14:51	1
Trichlorofluoromethane	ND		1.0		ug/L			04/16/17 14:51	1
Vinyl chloride	ND		1.0		ug/L			04/16/17 14:51	1
Dibromomethane	ND		1.0		ug/L			04/16/17 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/16/17 14:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/16/17 14:51*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/16/17 14:51*	*1*

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-115930-14

Date Collected: 04/10/17 00:00

Matrix: Water

Date Received: 04/11/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/16/17 04:15	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/16/17 04:15	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/16/17 04:15	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/16/17 04:15	1
1,1-Dichloroethane	ND		1.0		ug/L			04/16/17 04:15	1
1,1-Dichloroethene	ND		1.0		ug/L			04/16/17 04:15	1
1,1-Dichloropropene	ND		1.0		ug/L			04/16/17 04:15	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/16/17 04:15	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/16/17 04:15	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/16/17 04:15	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/16/17 04:15	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/16/17 04:15	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/16/17 04:15	1
1,2-Dichloroethane	ND		1.0		ug/L			04/16/17 04:15	1
1,2-Dichloropropane	ND		1.0		ug/L			04/16/17 04:15	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/16/17 04:15	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/16/17 04:15	1
1,3-Dichloropropane	ND		1.0		ug/L			04/16/17 04:15	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/16/17 04:15	1
1,4-Dioxane	ND		50		ug/L			04/16/17 04:15	1
2,2-Dichloropropane	ND		1.0		ug/L			04/16/17 04:15	1
2-Butanone (MEK)	ND		10		ug/L			04/16/17 04:15	1
2-Chlorotoluene	ND		1.0		ug/L			04/16/17 04:15	1
2-Hexanone	ND		10		ug/L			04/16/17 04:15	1
4-Chlorotoluene	ND		1.0		ug/L			04/16/17 04:15	1

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-115930-1

Client Sample ID: TRIP BLANK
Date Collected: 04/10/17 00:00
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-14
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Isopropyltoluene	ND		1.0		ug/L			04/16/17 04:15	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/16/17 04:15	1
Acetone	ND	*	50		ug/L			04/16/17 04:15	1
Benzene	ND		1.0		ug/L			04/16/17 04:15	1
Bromobenzene	ND		1.0		ug/L			04/16/17 04:15	1
Bromoform	ND	*	1.0		ug/L			04/16/17 04:15	1
Bromomethane	ND		2.0		ug/L			04/16/17 04:15	1
Carbon disulfide	ND		10		ug/L			04/16/17 04:15	1
Carbon tetrachloride	ND		1.0		ug/L			04/16/17 04:15	1
Chlorobenzene	ND		1.0		ug/L			04/16/17 04:15	1
Chlorobromomethane	ND		1.0		ug/L			04/16/17 04:15	1
Chlorodibromomethane	ND		0.50		ug/L			04/16/17 04:15	1
Chloroethane	ND		2.0		ug/L			04/16/17 04:15	1
Chloroform	ND		1.0		ug/L			04/16/17 04:15	1
Chloromethane	ND		2.0		ug/L			04/16/17 04:15	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 04:15	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 04:15	1
Dichlorobromomethane	ND		0.50		ug/L			04/16/17 04:15	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/16/17 04:15	1
Ethyl ether	ND		1.0		ug/L			04/16/17 04:15	1
Ethylbenzene	ND		1.0		ug/L			04/16/17 04:15	1
Ethylene Dibromide	ND		1.0		ug/L			04/16/17 04:15	1
Hexachlorobutadiene	ND		0.40		ug/L			04/16/17 04:15	1
Isopropyl ether	ND		10		ug/L			04/16/17 04:15	1
Isopropylbenzene	ND		1.0		ug/L			04/16/17 04:15	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/16/17 04:15	1
Methylene Chloride	ND		1.0		ug/L			04/16/17 04:15	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/16/17 04:15	1
Naphthalene	ND		5.0		ug/L			04/16/17 04:15	1
n-Butylbenzene	ND		1.0		ug/L			04/16/17 04:15	1
N-Propylbenzene	ND		1.0		ug/L			04/16/17 04:15	1
o-Xylene	ND		1.0		ug/L			04/16/17 04:15	1
sec-Butylbenzene	ND		1.0		ug/L			04/16/17 04:15	1
Styrene	ND		1.0		ug/L			04/16/17 04:15	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/16/17 04:15	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/16/17 04:15	1
tert-Butylbenzene	ND		1.0		ug/L			04/16/17 04:15	1
Tetrachloroethene	ND		1.0		ug/L			04/16/17 04:15	1
Tetrahydrofuran	ND	*	10		ug/L			04/16/17 04:15	1
Toluene	ND		1.0		ug/L			04/16/17 04:15	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 04:15	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 04:15	1
Trichloroethene	ND		1.0		ug/L			04/16/17 04:15	1
Trichlorofluoromethane	ND		1.0		ug/L			04/16/17 04:15	1
Vinyl chloride	ND		1.0		ug/L			04/16/17 04:15	1
Dibromomethane	ND		1.0		ug/L			04/16/17 04:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/16/17 04:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/16/17 04:15*	*1*

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-115930-14

Date Collected: 04/10/17 00:00

Matrix: Water

Date Received: 04/11/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130		04/16/17 04:15	1

Client Sample ID: MW-551-20170409

Lab Sample ID: 480-115930-15

Date Collected: 04/09/17 09:25

Matrix: Water

Date Received: 04/11/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/15/17 19:13	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/15/17 19:13	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/15/17 19:13	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/15/17 19:13	1
1,1-Dichloroethane	ND		1.0		ug/L			04/15/17 19:13	1
1,1-Dichloroethene	ND		1.0		ug/L			04/15/17 19:13	1
1,1-Dichloropropene	ND		1.0		ug/L			04/15/17 19:13	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/15/17 19:13	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/15/17 19:13	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/15/17 19:13	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/15/17 19:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/15/17 19:13	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/15/17 19:13	1
1,2-Dichloroethane	ND		1.0		ug/L			04/15/17 19:13	1
1,2-Dichloropropane	ND		1.0		ug/L			04/15/17 19:13	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/15/17 19:13	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/15/17 19:13	1
1,3-Dichloropropane	ND		1.0		ug/L			04/15/17 19:13	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/15/17 19:13	1
1,4-Dioxane	ND		50		ug/L			04/15/17 19:13	1
2,2-Dichloropropane	ND		1.0		ug/L			04/15/17 19:13	1
2-Butanone (MEK)	ND		10		ug/L			04/15/17 19:13	1
2-Chlorotoluene	ND		1.0		ug/L			04/15/17 19:13	1
2-Hexanone	ND		10		ug/L			04/15/17 19:13	1
4-Chlorotoluene	ND		1.0		ug/L			04/15/17 19:13	1
4-Isopropyltoluene	ND		1.0		ug/L			04/15/17 19:13	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/15/17 19:13	1
Acetone	ND		50		ug/L			04/15/17 19:13	1
Benzene	ND		1.0		ug/L			04/15/17 19:13	1
Bromobenzene	ND		1.0		ug/L			04/15/17 19:13	1
Bromoform	ND	*	1.0		ug/L			04/15/17 19:13	1
Bromomethane	ND		2.0		ug/L			04/15/17 19:13	1
Carbon disulfide	ND		10		ug/L			04/15/17 19:13	1
Carbon tetrachloride	ND		1.0		ug/L			04/15/17 19:13	1
Chlorobenzene	ND		1.0		ug/L			04/15/17 19:13	1
Chlorobromomethane	ND		1.0		ug/L			04/15/17 19:13	1
Chlorodibromomethane	ND		0.50		ug/L			04/15/17 19:13	1
Chloroethane	ND		2.0		ug/L			04/15/17 19:13	1
Chloroform	ND		1.0		ug/L			04/15/17 19:13	1
Chloromethane	ND		2.0		ug/L			04/15/17 19:13	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/15/17 19:13	1

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-115930-1

Client Sample ID: MW-551-20170409
Date Collected: 04/09/17 09:25
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-15
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/15/17 19:13	1
Dichlorobromomethane	ND		0.50		ug/L			04/15/17 19:13	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/15/17 19:13	1
Ethyl ether	ND		1.0		ug/L			04/15/17 19:13	1
Ethylbenzene	**1.2**		1.0		ug/L			04/15/17 19:13	1
Ethylene Dibromide	ND		1.0		ug/L			04/15/17 19:13	1
Hexachlorobutadiene	ND		0.40		ug/L			04/15/17 19:13	1
Isopropyl ether	ND		10		ug/L			04/15/17 19:13	1
Isopropylbenzene	ND		1.0		ug/L			04/15/17 19:13	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/15/17 19:13	1
Methylene Chloride	ND		1.0		ug/L			04/15/17 19:13	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/15/17 19:13	1
Naphthalene	ND		5.0		ug/L			04/15/17 19:13	1
n-Butylbenzene	ND		1.0		ug/L			04/15/17 19:13	1
N-Propylbenzene	ND		1.0		ug/L			04/15/17 19:13	1
o-Xylene	ND		1.0		ug/L			04/15/17 19:13	1
sec-Butylbenzene	ND		1.0		ug/L			04/15/17 19:13	1
Styrene	ND		1.0		ug/L			04/15/17 19:13	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/15/17 19:13	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/15/17 19:13	1
tert-Butylbenzene	ND		1.0		ug/L			04/15/17 19:13	1
Tetrachloroethene	ND		1.0		ug/L			04/15/17 19:13	1
Tetrahydrofuran	ND	*	10		ug/L			04/15/17 19:13	1
Toluene	ND		1.0		ug/L			04/15/17 19:13	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/15/17 19:13	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/15/17 19:13	1
Trichloroethene	ND		1.0		ug/L			04/15/17 19:13	1
Trichlorofluoromethane	ND		1.0		ug/L			04/15/17 19:13	1
Vinyl chloride	ND		1.0		ug/L			04/15/17 19:13	1
Dibromomethane	ND		1.0		ug/L			04/15/17 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/15/17 19:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*04/15/17 19:13*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*04/15/17 19:13*	*1*

Surrogate Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-115930-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TOL	12DCE	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
480-115930-1	MW-265D-20170409	98	103	102
480-115930-2	MW-266Mb-20170409	93	103	96
480-115930-3	MW-267S-20170410	96	101	100
480-115930-4	MW-267M-20170409	101	105	103
480-115930-5	MW-268S-20170410	97	102	102
480-115930-6	MW-268M-20170410	97	103	98
480-115930-7	MW-268D-20170409	98	101	98
480-115930-8	MW-269Ma-20170409	100	102	105
480-115930-9	REW-6-20170410	95	99	98
480-115930-10	REW-7-20170410	94	100	101
480-115930-11	REW-11-20170410	94	96	98
480-115930-12	DUP1-20170409	98	104	101
480-115930-13	DUP2-20170410	95	102	99
480-115930-14	TRIP BLANK	95	102	99
480-115930-15	MW-551-20170409	97	107	102
LCS 480-352211/5	Lab Control Sample	97	99	101
LCS 480-352240/4	Lab Control Sample	97	101	100
LCS 480-352253/5	Lab Control Sample	95	98	100
LCSD 480-352211/6	Lab Control Sample Dup	98	101	104
LCSD 480-352240/5	Lab Control Sample Dup	97	95	103
LCSD 480-352253/6	Lab Control Sample Dup	97	98	102
MB 480-352211/8	Method Blank	97	103	99
MB 480-352240/7	Method Blank	98	99	101
MB 480-352253/8	Method Blank	96	104	101

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		14DD8
Lab Sample ID	Client Sample ID	(46-130)
480-115930-3	MW-267S-20170410	110
480-115930-4	MW-267M-20170409	94
480-115930-5	MW-268S-20170410	102
480-115930-6	MW-268M-20170410	91
480-115930-8	MW-269Ma-20170409	99
480-115930-12	DUP1-20170409	95
LCS 200-115834/2-A	Lab Control Sample	99
LCSD 200-115834/3-A	Lab Control Sample Dup	97
MB 200-115834/1-A	Method Blank	95

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-352211/8
Matrix: Water
Analysis Batch: 352211

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/15/17 13:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/15/17 13:17	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/15/17 13:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/15/17 13:17	1
1,1-Dichloroethane	ND		1.0		ug/L			04/15/17 13:17	1
1,1-Dichloroethene	ND		1.0		ug/L			04/15/17 13:17	1
1,1-Dichloropropene	ND		1.0		ug/L			04/15/17 13:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/15/17 13:17	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/15/17 13:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/15/17 13:17	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/15/17 13:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/15/17 13:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/15/17 13:17	1
1,2-Dichloroethane	ND		1.0		ug/L			04/15/17 13:17	1
1,2-Dichloropropane	ND		1.0		ug/L			04/15/17 13:17	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/15/17 13:17	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/15/17 13:17	1
1,3-Dichloropropane	ND		1.0		ug/L			04/15/17 13:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/15/17 13:17	1
1,4-Dioxane	ND		50		ug/L			04/15/17 13:17	1
2,2-Dichloropropane	ND		1.0		ug/L			04/15/17 13:17	1
2-Butanone (MEK)	ND		10		ug/L			04/15/17 13:17	1
2-Chlorotoluene	ND		1.0		ug/L			04/15/17 13:17	1
2-Hexanone	ND		10		ug/L			04/15/17 13:17	1
4-Chlorotoluene	ND		1.0		ug/L			04/15/17 13:17	1
4-Isopropyltoluene	ND		1.0		ug/L			04/15/17 13:17	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/15/17 13:17	1
Acetone	ND		50		ug/L			04/15/17 13:17	1
Benzene	ND		1.0		ug/L			04/15/17 13:17	1
Bromobenzene	ND		1.0		ug/L			04/15/17 13:17	1
Bromoform	ND		1.0		ug/L			04/15/17 13:17	1
Bromomethane	ND		2.0		ug/L			04/15/17 13:17	1
Carbon disulfide	ND		10		ug/L			04/15/17 13:17	1
Carbon tetrachloride	ND		1.0		ug/L			04/15/17 13:17	1
Chlorobenzene	ND		1.0		ug/L			04/15/17 13:17	1
Chlorobromomethane	ND		1.0		ug/L			04/15/17 13:17	1
Chlorodibromomethane	ND		0.50		ug/L			04/15/17 13:17	1
Chloroethane	ND		2.0		ug/L			04/15/17 13:17	1
Chloroform	ND		1.0		ug/L			04/15/17 13:17	1
Chloromethane	ND		2.0		ug/L			04/15/17 13:17	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/15/17 13:17	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/15/17 13:17	1
Dichlorobromomethane	ND		0.50		ug/L			04/15/17 13:17	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/15/17 13:17	1
Ethyl ether	ND		1.0		ug/L			04/15/17 13:17	1
Ethylbenzene	ND		1.0		ug/L			04/15/17 13:17	1
Ethylene Dibromide	ND		1.0		ug/L			04/15/17 13:17	1
Hexachlorobutadiene	ND		0.40		ug/L			04/15/17 13:17	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-352211/8
Matrix: Water
Analysis Batch: 352211

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			04/15/17 13:17	1
Isopropylbenzene	ND		1.0		ug/L			04/15/17 13:17	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/15/17 13:17	1
Methylene Chloride	ND		1.0		ug/L			04/15/17 13:17	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/15/17 13:17	1
Naphthalene	ND		5.0		ug/L			04/15/17 13:17	1
n-Butylbenzene	ND		1.0		ug/L			04/15/17 13:17	1
N-Propylbenzene	ND		1.0		ug/L			04/15/17 13:17	1
o-Xylene	ND		1.0		ug/L			04/15/17 13:17	1
sec-Butylbenzene	ND		1.0		ug/L			04/15/17 13:17	1
Styrene	ND		1.0		ug/L			04/15/17 13:17	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/15/17 13:17	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/15/17 13:17	1
tert-Butylbenzene	ND		1.0		ug/L			04/15/17 13:17	1
Tetrachloroethene	ND		1.0		ug/L			04/15/17 13:17	1
Tetrahydrofuran	ND		10		ug/L			04/15/17 13:17	1
Toluene	ND		1.0		ug/L			04/15/17 13:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/15/17 13:17	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/15/17 13:17	1
Trichloroethene	ND		1.0		ug/L			04/15/17 13:17	1
Trichlorofluoromethane	ND		1.0		ug/L			04/15/17 13:17	1
Vinyl chloride	ND		1.0		ug/L			04/15/17 13:17	1
Dibromomethane	ND		1.0		ug/L			04/15/17 13:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/15/17 13:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*04/15/17 13:17*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/15/17 13:17*	*1*

Lab Sample ID: LCS 480-352211/5
Matrix: Water
Analysis Batch: 352211

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	23.5		ug/L		94	70 - 130
1,1,1-Trichloroethane	25.0	26.1		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	25.0	26.3		ug/L		105	70 - 130
1,1,2-Trichloroethane	25.0	24.9		ug/L		99	70 - 130
1,1-Dichloroethane	25.0	26.2		ug/L		105	70 - 130
1,1-Dichloroethene	25.0	25.0		ug/L		100	70 - 130
1,1-Dichloropropene	25.0	25.4		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,2,3-Trichloropropane	25.0	23.8		ug/L		95	70 - 130
1,2,4-Trichlorobenzene	25.0	25.8		ug/L		103	70 - 130
1,2,4-Trimethylbenzene	25.0	24.3		ug/L		97	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.1		ug/L		92	70 - 130
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,2-Dichloroethane	25.0	23.9		ug/L		96	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-352211/5
Matrix: Water
Analysis Batch: 352211

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	25.1		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	25.0	24.3		ug/L		97	70 - 130
1,3-Dichlorobenzene	25.0	25.0		ug/L		100	70 - 130
1,3-Dichloropropane	25.0	23.7		ug/L		95	70 - 130
1,4-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,4-Dioxane	500	519		ug/L		104	70 - 130
2,2-Dichloropropane	25.0	25.3		ug/L		101	70 - 130
2-Butanone (MEK)	125	146		ug/L		116	70 - 130
2-Chlorotoluene	25.0	24.3		ug/L		97	70 - 130
2-Hexanone	125	137		ug/L		109	70 - 130
4-Chlorotoluene	25.0	25.9		ug/L		104	70 - 130
4-Isopropyltoluene	25.0	25.0		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	125	130		ug/L		104	70 - 130
Acetone	125	163		ug/L		130	70 - 130
Benzene	25.0	25.1		ug/L		100	70 - 130
Bromobenzene	25.0	24.2		ug/L		97	70 - 130
Bromoform	25.0	33.5	*	ug/L		134	70 - 130
Bromomethane	25.0	23.0		ug/L		92	70 - 130
Carbon disulfide	25.0	23.5		ug/L		94	70 - 130
Carbon tetrachloride	25.0	28.5		ug/L		114	70 - 130
Chlorobenzene	25.0	24.4		ug/L		97	70 - 130
Chlorobromomethane	25.0	26.5		ug/L		106	70 - 130
Chlorodibromomethane	25.0	26.5		ug/L		106	70 - 130
Chloroethane	25.0	22.0		ug/L		88	70 - 130
Chloroform	25.0	24.2		ug/L		97	70 - 130
Chloromethane	25.0	21.4		ug/L		86	70 - 130
cis-1,2-Dichloroethene	25.0	24.7		ug/L		99	70 - 130
cis-1,3-Dichloropropene	25.0	26.9		ug/L		108	70 - 130
Dichlorobromomethane	25.0	27.8		ug/L		111	70 - 130
Dichlorodifluoromethane	25.0	15.8	*	ug/L		63	70 - 130
Ethyl ether	25.0	24.5		ug/L		98	70 - 130
Ethylbenzene	25.0	23.9		ug/L		96	70 - 130
Ethylene Dibromide	25.0	24.5		ug/L		98	70 - 130
Hexachlorobutadiene	25.0	26.3		ug/L		105	70 - 130
Isopropyl ether	25.0	24.4		ug/L		98	70 - 130
Isopropylbenzene	25.0	24.6		ug/L		98	70 - 130
Methyl tert-butyl ether	25.0	24.4		ug/L		98	70 - 130
Methylene Chloride	25.0	22.8		ug/L		91	70 - 130
m-Xylene & p-Xylene	25.0	24.2		ug/L		97	70 - 130
Naphthalene	25.0	25.4		ug/L		101	70 - 130
n-Butylbenzene	25.0	24.7		ug/L		99	70 - 130
N-Propylbenzene	25.0	24.3		ug/L		97	70 - 130
o-Xylene	25.0	24.0		ug/L		96	70 - 130
sec-Butylbenzene	25.0	24.7		ug/L		99	70 - 130
Styrene	25.0	24.5		ug/L		98	70 - 130
Tert-amyl methyl ether	25.0	24.5		ug/L		98	70 - 130
Tert-butyl ethyl ether	25.0	23.3		ug/L		93	70 - 130
tert-Butylbenzene	25.0	25.6		ug/L		102	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-352211/5
Matrix: Water
Analysis Batch: 352211

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	25.8		ug/L		103	70 - 130
Tetrahydrofuran	50.0	68.2	*	ug/L		136	70 - 130
Toluene	25.0	23.8		ug/L		95	70 - 130
trans-1,2-Dichloroethene	25.0	25.1		ug/L		101	70 - 130
trans-1,3-Dichloropropene	25.0	25.4		ug/L		102	70 - 130
Trichloroethene	25.0	25.2		ug/L		101	70 - 130
Trichlorofluoromethane	25.0	25.0		ug/L		100	70 - 130
Vinyl chloride	25.0	22.5		ug/L		90	70 - 130
Dibromomethane	25.0	25.9		ug/L		104	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 480-352211/6
Matrix: Water
Analysis Batch: 352211

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.4		ug/L		98	70 - 130	4	20
1,1,1-Trichloroethane	25.0	25.6		ug/L		103	70 - 130	2	20
1,1,2,2-Tetrachloroethane	25.0	25.8		ug/L		103	70 - 130	2	20
1,1,2-Trichloroethane	25.0	24.3		ug/L		97	70 - 130	2	20
1,1-Dichloroethane	25.0	26.0		ug/L		104	70 - 130	1	20
1,1-Dichloroethene	25.0	24.0		ug/L		96	70 - 130	4	20
1,1-Dichloropropene	25.0	24.9		ug/L		99	70 - 130	2	20
1,2,3-Trichlorobenzene	25.0	26.2		ug/L		105	70 - 130	0	20
1,2,3-Trichloropropane	25.0	24.9		ug/L		100	70 - 130	4	20
1,2,4-Trichlorobenzene	25.0	25.8		ug/L		103	70 - 130	0	20
1,2,4-Trimethylbenzene	25.0	24.1		ug/L		97	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	24.7		ug/L		99	70 - 130	7	20
1,2-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130	1	20
1,2-Dichloroethane	25.0	24.1		ug/L		96	70 - 130	1	20
1,2-Dichloropropane	25.0	25.9		ug/L		104	70 - 130	3	20
1,3,5-Trimethylbenzene	25.0	24.1		ug/L		96	70 - 130	1	20
1,3-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	1	20
1,3-Dichloropropane	25.0	24.2		ug/L		97	70 - 130	2	20
1,4-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130	1	20
1,4-Dioxane	500	552		ug/L		110	70 - 130	6	20
2,2-Dichloropropane	25.0	25.5		ug/L		102	70 - 130	1	20
2-Butanone (MEK)	125	137		ug/L		110	70 - 130	6	20
2-Chlorotoluene	25.0	24.6		ug/L		98	70 - 130	1	20
2-Hexanone	125	140		ug/L		112	70 - 130	3	20
4-Chlorotoluene	25.0	26.1		ug/L		104	70 - 130	1	20
4-Isopropyltoluene	25.0	25.0		ug/L		100	70 - 130	0	20
4-Methyl-2-pentanone (MIBK)	125	135		ug/L		108	70 - 130	4	20
Acetone	125	160		ug/L		128	70 - 130	2	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-352211/6
Matrix: Water
Analysis Batch: 352211

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			25.0	25.2		ug/L		101	70 - 130	1	20
Bromobenzene			25.0	24.6		ug/L		98	70 - 130	1	20
Bromoform			25.0	35.7	*	ug/L		143	70 - 130	6	20
Bromomethane			25.0	23.3		ug/L		93	70 - 130	1	20
Carbon disulfide			25.0	23.2		ug/L		93	70 - 130	1	20
Carbon tetrachloride			25.0	28.9		ug/L		116	70 - 130	1	20
Chlorobenzene			25.0	25.0		ug/L		100	70 - 130	2	20
Chlorobromomethane			25.0	25.6		ug/L		102	70 - 130	3	20
Chlorodibromomethane			25.0	27.4		ug/L		110	70 - 130	4	20
Chloroethane			25.0	22.0		ug/L		88	70 - 130	0	20
Chloroform			25.0	24.3		ug/L		97	70 - 130	0	20
Chloromethane			25.0	21.0		ug/L		84	70 - 130	2	20
cis-1,2-Dichloroethene			25.0	25.5		ug/L		102	70 - 130	3	20
cis-1,3-Dichloropropene			25.0	26.5		ug/L		106	70 - 130	2	20
Dichlorobromomethane			25.0	29.1		ug/L		116	70 - 130	4	20
Dichlorodifluoromethane			25.0	15.2	*	ug/L		61	70 - 130	4	20
Ethyl ether			25.0	24.2		ug/L		97	70 - 130	1	20
Ethylbenzene			25.0	24.2		ug/L		97	70 - 130	1	20
Ethylene Dibromide			25.0	25.0		ug/L		100	70 - 130	2	20
Hexachlorobutadiene			25.0	26.5		ug/L		106	70 - 130	0	20
Isopropyl ether			25.0	24.5		ug/L		98	70 - 130	0	20
Isopropylbenzene			25.0	24.5		ug/L		98	70 - 130	0	20
Methyl tert-butyl ether			25.0	24.8		ug/L		99	70 - 130	1	20
Methylene Chloride			25.0	22.6		ug/L		90	70 - 130	1	20
m-Xylene & p-Xylene			25.0	24.2		ug/L		97	70 - 130	0	20
Naphthalene			25.0	25.4		ug/L		101	70 - 130	0	20
n-Butylbenzene			25.0	24.8		ug/L		99	70 - 130	0	20
N-Propylbenzene			25.0	24.5		ug/L		98	70 - 130	1	20
o-Xylene			25.0	24.2		ug/L		97	70 - 130	1	20
sec-Butylbenzene			25.0	24.7		ug/L		99	70 - 130	0	20
Styrene			25.0	24.8		ug/L		99	70 - 130	1	20
Tert-amyl methyl ether			25.0	24.6		ug/L		98	70 - 130	1	20
Tert-butyl ethyl ether			25.0	23.7		ug/L		95	70 - 130	2	20
tert-Butylbenzene			25.0	25.5		ug/L		102	70 - 130	1	20
Tetrachloroethene			25.0	26.1		ug/L		105	70 - 130	1	20
Tetrahydrofuran			50.0	67.5	*	ug/L		135	70 - 130	1	20
Toluene			25.0	24.2		ug/L		97	70 - 130	2	20
trans-1,2-Dichloroethene			25.0	25.1		ug/L		100	70 - 130	0	20
trans-1,3-Dichloropropene			25.0	26.0		ug/L		104	70 - 130	2	20
Trichloroethene			25.0	24.9		ug/L		100	70 - 130	1	20
Trichlorofluoromethane			25.0	24.6		ug/L		98	70 - 130	2	20
Vinyl chloride			25.0	22.6		ug/L		91	70 - 130	1	20
Dibromomethane			25.0	25.8		ug/L		103	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: MB 480-352240/7
Matrix: Water
Analysis Batch: 352240

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/15/17 23:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/15/17 23:17	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/15/17 23:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/15/17 23:17	1
1,1-Dichloroethane	ND		1.0		ug/L			04/15/17 23:17	1
1,1-Dichloroethene	ND		1.0		ug/L			04/15/17 23:17	1
1,1-Dichloropropene	ND		1.0		ug/L			04/15/17 23:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/15/17 23:17	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/15/17 23:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/15/17 23:17	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/15/17 23:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/15/17 23:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/15/17 23:17	1
1,2-Dichloroethane	ND		1.0		ug/L			04/15/17 23:17	1
1,2-Dichloropropane	ND		1.0		ug/L			04/15/17 23:17	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/15/17 23:17	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/15/17 23:17	1
1,3-Dichloropropane	ND		1.0		ug/L			04/15/17 23:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/15/17 23:17	1
1,4-Dioxane	ND		50		ug/L			04/15/17 23:17	1
2,2-Dichloropropane	ND		1.0		ug/L			04/15/17 23:17	1
2-Butanone (MEK)	ND		10		ug/L			04/15/17 23:17	1
2-Chlorotoluene	ND		1.0		ug/L			04/15/17 23:17	1
2-Hexanone	ND		10		ug/L			04/15/17 23:17	1
4-Chlorotoluene	ND		1.0		ug/L			04/15/17 23:17	1
4-Isopropyltoluene	ND		1.0		ug/L			04/15/17 23:17	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/15/17 23:17	1
Acetone	ND		50		ug/L			04/15/17 23:17	1
Benzene	ND		1.0		ug/L			04/15/17 23:17	1
Bromobenzene	ND		1.0		ug/L			04/15/17 23:17	1
Bromoform	ND		1.0		ug/L			04/15/17 23:17	1
Bromomethane	ND		2.0		ug/L			04/15/17 23:17	1
Carbon disulfide	ND		10		ug/L			04/15/17 23:17	1
Carbon tetrachloride	ND		1.0		ug/L			04/15/17 23:17	1
Chlorobenzene	ND		1.0		ug/L			04/15/17 23:17	1
Chlorobromomethane	ND		1.0		ug/L			04/15/17 23:17	1
Chlorodibromomethane	ND		0.50		ug/L			04/15/17 23:17	1
Chloroethane	ND		2.0		ug/L			04/15/17 23:17	1
Chloroform	ND		1.0		ug/L			04/15/17 23:17	1
Chloromethane	ND		2.0		ug/L			04/15/17 23:17	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/15/17 23:17	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/15/17 23:17	1
Dichlorobromomethane	ND		0.50		ug/L			04/15/17 23:17	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/15/17 23:17	1
Ethyl ether	ND		1.0		ug/L			04/15/17 23:17	1
Ethylbenzene	ND		1.0		ug/L			04/15/17 23:17	1
Ethylene Dibromide	ND		1.0		ug/L			04/15/17 23:17	1
Hexachlorobutadiene	ND		0.40		ug/L			04/15/17 23:17	1
Isopropyl ether	ND		10		ug/L			04/15/17 23:17	1
Isopropylbenzene	ND		1.0		ug/L			04/15/17 23:17	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-352240/7
Matrix: Water
Analysis Batch: 352240

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			04/15/17 23:17	1
Methylene Chloride	ND		1.0		ug/L			04/15/17 23:17	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/15/17 23:17	1
Naphthalene	ND		5.0		ug/L			04/15/17 23:17	1
n-Butylbenzene	ND		1.0		ug/L			04/15/17 23:17	1
N-Propylbenzene	ND		1.0		ug/L			04/15/17 23:17	1
o-Xylene	ND		1.0		ug/L			04/15/17 23:17	1
sec-Butylbenzene	ND		1.0		ug/L			04/15/17 23:17	1
Styrene	ND		1.0		ug/L			04/15/17 23:17	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/15/17 23:17	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/15/17 23:17	1
tert-Butylbenzene	ND		1.0		ug/L			04/15/17 23:17	1
Tetrachloroethene	ND		1.0		ug/L			04/15/17 23:17	1
Tetrahydrofuran	ND		10		ug/L			04/15/17 23:17	1
Toluene	ND		1.0		ug/L			04/15/17 23:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/15/17 23:17	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/15/17 23:17	1
Trichloroethene	ND		1.0		ug/L			04/15/17 23:17	1
Trichlorofluoromethane	ND		1.0		ug/L			04/15/17 23:17	1
Vinyl chloride	ND		1.0		ug/L			04/15/17 23:17	1
Dibromomethane	ND		1.0		ug/L			04/15/17 23:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/15/17 23:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/15/17 23:17*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/15/17 23:17*	*1*

Lab Sample ID: LCS 480-352240/4
Matrix: Water
Analysis Batch: 352240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	24.2		ug/L		97	70 - 130
1,1,1-Trichloroethane	25.0	24.8		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	25.0	26.5		ug/L		106	70 - 130
1,1,2-Trichloroethane	25.0	25.3		ug/L		101	70 - 130
1,1-Dichloroethane	25.0	25.5		ug/L		102	70 - 130
1,1-Dichloroethene	25.0	24.1		ug/L		96	70 - 130
1,1-Dichloropropene	25.0	24.4		ug/L		98	70 - 130
1,2,3-Trichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,2,3-Trichloropropane	25.0	24.5		ug/L		98	70 - 130
1,2,4-Trichlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,2,4-Trimethylbenzene	25.0	23.3		ug/L		93	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.7		ug/L		99	70 - 130
1,2-Dichlorobenzene	25.0	24.4		ug/L		97	70 - 130
1,2-Dichloroethane	25.0	24.4		ug/L		98	70 - 130
1,2-Dichloropropane	25.0	25.0		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	25.0	23.4		ug/L		94	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-352240/4
Matrix: Water
Analysis Batch: 352240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,3-Dichloropropane	25.0	24.7		ug/L		99	70 - 130
1,4-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130
1,4-Dioxane	500	464		ug/L		93	70 - 130
2,2-Dichloropropane	25.0	24.3		ug/L		97	70 - 130
2-Butanone (MEK)	125	149		ug/L		119	70 - 130
2-Chlorotoluene	25.0	23.3		ug/L		93	70 - 130
2-Hexanone	125	142		ug/L		114	70 - 130
4-Chlorotoluene	25.0	25.7		ug/L		103	70 - 130
4-Isopropyltoluene	25.0	24.1		ug/L		96	70 - 130
4-Methyl-2-pentanone (MIBK)	125	139		ug/L		111	70 - 130
Acetone	125	166	*	ug/L		133	70 - 130
Benzene	25.0	24.7		ug/L		99	70 - 130
Bromobenzene	25.0	24.1		ug/L		96	70 - 130
Bromoform	25.0	34.3	*	ug/L		137	70 - 130
Bromomethane	25.0	24.7		ug/L		99	70 - 130
Carbon disulfide	25.0	23.8		ug/L		95	70 - 130
Carbon tetrachloride	25.0	27.9		ug/L		112	70 - 130
Chlorobenzene	25.0	24.3		ug/L		97	70 - 130
Chlorobromomethane	25.0	26.1		ug/L		104	70 - 130
Chlorodibromomethane	25.0	27.2		ug/L		109	70 - 130
Chloroethane	25.0	22.5		ug/L		90	70 - 130
Chloroform	25.0	24.4		ug/L		98	70 - 130
Chloromethane	25.0	24.4		ug/L		98	70 - 130
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	70 - 130
cis-1,3-Dichloropropene	25.0	26.7		ug/L		107	70 - 130
Dichlorobromomethane	25.0	28.6		ug/L		114	70 - 130
Dichlorodifluoromethane	25.0	24.1		ug/L		96	70 - 130
Ethyl ether	25.0	24.8		ug/L		99	70 - 130
Ethylbenzene	25.0	23.5		ug/L		94	70 - 130
Ethylene Dibromide	25.0	25.6		ug/L		102	70 - 130
Hexachlorobutadiene	25.0	24.9		ug/L		100	70 - 130
Isopropyl ether	25.0	24.0		ug/L		96	70 - 130
Isopropylbenzene	25.0	23.4		ug/L		94	70 - 130
Methyl tert-butyl ether	25.0	24.9		ug/L		100	70 - 130
Methylene Chloride	25.0	22.4		ug/L		90	70 - 130
m-Xylene & p-Xylene	25.0	23.9		ug/L		96	70 - 130
Naphthalene	25.0	25.9		ug/L		104	70 - 130
n-Butylbenzene	25.0	23.4		ug/L		94	70 - 130
N-Propylbenzene	25.0	23.3		ug/L		93	70 - 130
o-Xylene	25.0	23.8		ug/L		95	70 - 130
sec-Butylbenzene	25.0	23.4		ug/L		94	70 - 130
Styrene	25.0	24.6		ug/L		98	70 - 130
Tert-amyl methyl ether	25.0	23.6		ug/L		95	70 - 130
Tert-butyl ethyl ether	25.0	23.0		ug/L		92	70 - 130
tert-Butylbenzene	25.0	24.0		ug/L		96	70 - 130
Tetrachloroethene	25.0	25.2		ug/L		101	70 - 130
Tetrahydrofuran	50.0	71.3	*	ug/L		143	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-352240/4
Matrix: Water
Analysis Batch: 352240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	25.0	23.8		ug/L		95	70 - 130
trans-1,2-Dichloroethene	25.0	24.3		ug/L		97	70 - 130
trans-1,3-Dichloropropene	25.0	25.9		ug/L		104	70 - 130
Trichloroethene	25.0	24.5		ug/L		98	70 - 130
Trichlorofluoromethane	25.0	25.1		ug/L		101	70 - 130
Vinyl chloride	25.0	24.3		ug/L		97	70 - 130
Dibromomethane	25.0	25.7		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 480-352240/5
Matrix: Water
Analysis Batch: 352240

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.8		ug/L		99	70 - 130	3	20
1,1,1-Trichloroethane	25.0	25.0		ug/L		100	70 - 130	1	20
1,1,2,2-Tetrachloroethane	25.0	26.1		ug/L		105	70 - 130	1	20
1,1,2-Trichloroethane	25.0	25.0		ug/L		100	70 - 130	1	20
1,1-Dichloroethane	25.0	25.8		ug/L		103	70 - 130	1	20
1,1-Dichloroethene	25.0	24.9		ug/L		99	70 - 130	3	20
1,1-Dichloropropene	25.0	24.4		ug/L		97	70 - 130	0	20
1,2,3-Trichlorobenzene	25.0	25.5		ug/L		102	70 - 130	3	20
1,2,3-Trichloropropane	25.0	23.1		ug/L		92	70 - 130	6	20
1,2,4-Trichlorobenzene	25.0	25.2		ug/L		101	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	23.6		ug/L		95	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	22.5		ug/L		90	70 - 130	9	20
1,2-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130	2	20
1,2-Dichloroethane	25.0	24.2		ug/L		97	70 - 130	1	20
1,2-Dichloropropane	25.0	25.2		ug/L		101	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 130	2	20
1,3-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130	3	20
1,3-Dichloropropane	25.0	24.7		ug/L		99	70 - 130	0	20
1,4-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130	1	20
1,4-Dioxane	500	471		ug/L		94	70 - 130	1	20
2,2-Dichloropropane	25.0	24.5		ug/L		98	70 - 130	1	20
2-Butanone (MEK)	125	137		ug/L		110	70 - 130	8	20
2-Chlorotoluene	25.0	23.8		ug/L		95	70 - 130	2	20
2-Hexanone	125	138		ug/L		110	70 - 130	3	20
4-Chlorotoluene	25.0	25.6		ug/L		102	70 - 130	0	20
4-Isopropyltoluene	25.0	24.3		ug/L		97	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	136		ug/L		109	70 - 130	2	20
Acetone	125	157		ug/L		126	70 - 130	6	20
Benzene	25.0	24.7		ug/L		99	70 - 130	0	20
Bromobenzene	25.0	24.3		ug/L		97	70 - 130	1	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-352240/5
Matrix: Water
Analysis Batch: 352240

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform			25.0	36.1	*	ug/L		144	70 - 130	5	20
Bromomethane			25.0	25.7		ug/L		103	70 - 130	4	20
Carbon disulfide			25.0	24.6		ug/L		99	70 - 130	4	20
Carbon tetrachloride			25.0	28.9		ug/L		115	70 - 130	3	20
Chlorobenzene			25.0	25.2		ug/L		101	70 - 130	4	20
Chlorobromomethane			25.0	26.0		ug/L		104	70 - 130	0	20
Chlorodibromomethane			25.0	27.7		ug/L		111	70 - 130	2	20
Chloroethane			25.0	23.2		ug/L		93	70 - 130	3	20
Chloroform			25.0	24.2		ug/L		97	70 - 130	1	20
Chloromethane			25.0	24.7		ug/L		99	70 - 130	1	20
cis-1,2-Dichloroethene			25.0	24.8		ug/L		99	70 - 130	0	20
cis-1,3-Dichloropropene			25.0	27.0		ug/L		108	70 - 130	1	20
Dichlorobromomethane			25.0	28.5		ug/L		114	70 - 130	0	20
Dichlorodifluoromethane			25.0	25.5		ug/L		102	70 - 130	6	20
Ethyl ether			25.0	24.6		ug/L		98	70 - 130	1	20
Ethylbenzene			25.0	24.1		ug/L		96	70 - 130	2	20
Ethylene Dibromide			25.0	25.4		ug/L		101	70 - 130	1	20
Hexachlorobutadiene			25.0	25.8		ug/L		103	70 - 130	3	20
Isopropyl ether			25.0	23.9		ug/L		96	70 - 130	0	20
Isopropylbenzene			25.0	23.5		ug/L		94	70 - 130	0	20
Methyl tert-butyl ether			25.0	24.5		ug/L		98	70 - 130	2	20
Methylene Chloride			25.0	22.9		ug/L		92	70 - 130	2	20
m-Xylene & p-Xylene			25.0	24.7		ug/L		99	70 - 130	3	20
Naphthalene			25.0	25.1		ug/L		100	70 - 130	3	20
n-Butylbenzene			25.0	23.9		ug/L		95	70 - 130	2	20
N-Propylbenzene			25.0	23.8		ug/L		95	70 - 130	2	20
o-Xylene			25.0	24.5		ug/L		98	70 - 130	3	20
sec-Butylbenzene			25.0	24.3		ug/L		97	70 - 130	4	20
Styrene			25.0	25.0		ug/L		100	70 - 130	2	20
Tert-amyl methyl ether			25.0	23.5		ug/L		94	70 - 130	0	20
Tert-butyl ethyl ether			25.0	22.6		ug/L		90	70 - 130	2	20
tert-Butylbenzene			25.0	24.8		ug/L		99	70 - 130	4	20
Tetrachloroethene			25.0	26.4		ug/L		106	70 - 130	5	20
Tetrahydrofuran			50.0	67.0	*	ug/L		134	70 - 130	6	20
Toluene			25.0	24.3		ug/L		97	70 - 130	2	20
trans-1,2-Dichloroethene			25.0	25.0		ug/L		100	70 - 130	3	20
trans-1,3-Dichloropropene			25.0	26.8		ug/L		107	70 - 130	3	20
Trichloroethene			25.0	24.9		ug/L		100	70 - 130	2	20
Trichlorofluoromethane			25.0	26.2		ug/L		105	70 - 130	4	20
Vinyl chloride			25.0	25.1		ug/L		101	70 - 130	3	20
Dibromomethane			25.0	25.6		ug/L		102	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-352253/8
Matrix: Water
Analysis Batch: 352253

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/16/17 13:57	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/16/17 13:57	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/16/17 13:57	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/16/17 13:57	1
1,1-Dichloroethane	ND		1.0		ug/L			04/16/17 13:57	1
1,1-Dichloroethene	ND		1.0		ug/L			04/16/17 13:57	1
1,1-Dichloropropene	ND		1.0		ug/L			04/16/17 13:57	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/16/17 13:57	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/16/17 13:57	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/16/17 13:57	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/16/17 13:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/16/17 13:57	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/16/17 13:57	1
1,2-Dichloroethane	ND		1.0		ug/L			04/16/17 13:57	1
1,2-Dichloropropane	ND		1.0		ug/L			04/16/17 13:57	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/16/17 13:57	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/16/17 13:57	1
1,3-Dichloropropane	ND		1.0		ug/L			04/16/17 13:57	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/16/17 13:57	1
1,4-Dioxane	ND		50		ug/L			04/16/17 13:57	1
2,2-Dichloropropane	ND		1.0		ug/L			04/16/17 13:57	1
2-Butanone (MEK)	ND		10		ug/L			04/16/17 13:57	1
2-Chlorotoluene	ND		1.0		ug/L			04/16/17 13:57	1
2-Hexanone	ND		10		ug/L			04/16/17 13:57	1
4-Chlorotoluene	ND		1.0		ug/L			04/16/17 13:57	1
4-Isopropyltoluene	ND		1.0		ug/L			04/16/17 13:57	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/16/17 13:57	1
Acetone	ND		50		ug/L			04/16/17 13:57	1
Benzene	ND		1.0		ug/L			04/16/17 13:57	1
Bromobenzene	ND		1.0		ug/L			04/16/17 13:57	1
Bromoform	ND		1.0		ug/L			04/16/17 13:57	1
Bromomethane	ND		2.0		ug/L			04/16/17 13:57	1
Carbon disulfide	ND		10		ug/L			04/16/17 13:57	1
Carbon tetrachloride	ND		1.0		ug/L			04/16/17 13:57	1
Chlorobenzene	ND		1.0		ug/L			04/16/17 13:57	1
Chlorobromomethane	ND		1.0		ug/L			04/16/17 13:57	1
Chlorodibromomethane	ND		0.50		ug/L			04/16/17 13:57	1
Chloroethane	ND		2.0		ug/L			04/16/17 13:57	1
Chloroform	ND		1.0		ug/L			04/16/17 13:57	1
Chloromethane	ND		2.0		ug/L			04/16/17 13:57	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 13:57	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 13:57	1
Dichlorobromomethane	ND		0.50		ug/L			04/16/17 13:57	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/16/17 13:57	1
Ethyl ether	ND		1.0		ug/L			04/16/17 13:57	1
Ethylbenzene	ND		1.0		ug/L			04/16/17 13:57	1
Ethylene Dibromide	ND		1.0		ug/L			04/16/17 13:57	1
Hexachlorobutadiene	ND		0.40		ug/L			04/16/17 13:57	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-352253/8
Matrix: Water
Analysis Batch: 352253

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			04/16/17 13:57	1
Isopropylbenzene	ND		1.0		ug/L			04/16/17 13:57	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/16/17 13:57	1
Methylene Chloride	ND		1.0		ug/L			04/16/17 13:57	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/16/17 13:57	1
Naphthalene	ND		5.0		ug/L			04/16/17 13:57	1
n-Butylbenzene	ND		1.0		ug/L			04/16/17 13:57	1
N-Propylbenzene	ND		1.0		ug/L			04/16/17 13:57	1
o-Xylene	ND		1.0		ug/L			04/16/17 13:57	1
sec-Butylbenzene	ND		1.0		ug/L			04/16/17 13:57	1
Styrene	ND		1.0		ug/L			04/16/17 13:57	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/16/17 13:57	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/16/17 13:57	1
tert-Butylbenzene	ND		1.0		ug/L			04/16/17 13:57	1
Tetrachloroethene	ND		1.0		ug/L			04/16/17 13:57	1
Tetrahydrofuran	ND		10		ug/L			04/16/17 13:57	1
Toluene	ND		1.0		ug/L			04/16/17 13:57	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 13:57	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 13:57	1
Trichloroethene	ND		1.0		ug/L			04/16/17 13:57	1
Trichlorofluoromethane	ND		1.0		ug/L			04/16/17 13:57	1
Vinyl chloride	ND		1.0		ug/L			04/16/17 13:57	1
Dibromomethane	ND		1.0		ug/L			04/16/17 13:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/16/17 13:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*04/16/17 13:57*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/16/17 13:57*	*1*

Lab Sample ID: LCS 480-352253/5
Matrix: Water
Analysis Batch: 352253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	25.9		ug/L		104	70 - 130
1,1,1-Trichloroethane	25.0	26.7		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	25.0	27.8		ug/L		111	70 - 130
1,1,2-Trichloroethane	25.0	25.7		ug/L		103	70 - 130
1,1-Dichloroethane	25.0	27.6		ug/L		110	70 - 130
1,1-Dichloroethene	25.0	25.5		ug/L		102	70 - 130
1,1-Dichloropropene	25.0	26.3		ug/L		105	70 - 130
1,2,3-Trichlorobenzene	25.0	27.4		ug/L		110	70 - 130
1,2,3-Trichloropropane	25.0	25.3		ug/L		101	70 - 130
1,2,4-Trichlorobenzene	25.0	26.9		ug/L		108	70 - 130
1,2,4-Trimethylbenzene	25.0	24.8		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	26.8		ug/L		107	70 - 130
1,2-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130
1,2-Dichloroethane	25.0	26.0		ug/L		104	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-352253/5
Matrix: Water
Analysis Batch: 352253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	27.2		ug/L		109	70 - 130
1,3,5-Trimethylbenzene	25.0	25.2		ug/L		101	70 - 130
1,3-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,3-Dichloropropane	25.0	25.1		ug/L		101	70 - 130
1,4-Dichlorobenzene	25.0	25.6		ug/L		102	70 - 130
1,4-Dioxane	500	477		ug/L		95	70 - 130
2,2-Dichloropropane	25.0	26.1		ug/L		104	70 - 130
2-Butanone (MEK)	125	184	*	ug/L		147	70 - 130
2-Chlorotoluene	25.0	24.9		ug/L		100	70 - 130
2-Hexanone	125	146		ug/L		117	70 - 130
4-Chlorotoluene	25.0	27.0		ug/L		108	70 - 130
4-Isopropyltoluene	25.0	24.9		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	125	139		ug/L		111	70 - 130
Acetone	125	177	*	ug/L		142	70 - 130
Benzene	25.0	26.5		ug/L		106	70 - 130
Bromobenzene	25.0	25.4		ug/L		101	70 - 130
Bromoform	25.0	40.2	*	ug/L		161	70 - 130
Bromomethane	25.0	24.7		ug/L		99	70 - 130
Carbon disulfide	25.0	25.6		ug/L		102	70 - 130
Carbon tetrachloride	25.0	30.3		ug/L		121	70 - 130
Chlorobenzene	25.0	25.4		ug/L		101	70 - 130
Chlorobromomethane	25.0	28.2		ug/L		113	70 - 130
Chlorodibromomethane	25.0	29.4		ug/L		118	70 - 130
Chloroethane	25.0	23.8		ug/L		95	70 - 130
Chloroform	25.0	26.1		ug/L		104	70 - 130
Chloromethane	25.0	25.4		ug/L		102	70 - 130
cis-1,2-Dichloroethene	25.0	26.5		ug/L		106	70 - 130
cis-1,3-Dichloropropene	25.0	28.4		ug/L		114	70 - 130
Dichlorobromomethane	25.0	30.6		ug/L		122	70 - 130
Dichlorodifluoromethane	25.0	22.3		ug/L		89	70 - 130
Ethyl ether	25.0	26.3		ug/L		105	70 - 130
Ethylbenzene	25.0	24.7		ug/L		99	70 - 130
Ethylene Dibromide	25.0	25.8		ug/L		103	70 - 130
Hexachlorobutadiene	25.0	24.4		ug/L		98	70 - 130
Isopropyl ether	25.0	24.7		ug/L		99	70 - 130
Isopropylbenzene	25.0	25.0		ug/L		100	70 - 130
Methyl tert-butyl ether	25.0	26.2		ug/L		105	70 - 130
Methylene Chloride	25.0	23.6		ug/L		94	70 - 130
m-Xylene & p-Xylene	25.0	25.4		ug/L		102	70 - 130
Naphthalene	25.0	26.7		ug/L		107	70 - 130
n-Butylbenzene	25.0	24.6		ug/L		98	70 - 130
N-Propylbenzene	25.0	25.0		ug/L		100	70 - 130
o-Xylene	25.0	25.4		ug/L		102	70 - 130
sec-Butylbenzene	25.0	24.8		ug/L		99	70 - 130
Styrene	25.0	25.3		ug/L		101	70 - 130
Tert-amyl methyl ether	25.0	23.1		ug/L		92	70 - 130
Tert-butyl ethyl ether	25.0	23.1		ug/L		92	70 - 130
tert-Butylbenzene	25.0	25.9		ug/L		103	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-352253/5
Matrix: Water
Analysis Batch: 352253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	26.8		ug/L		107	70 - 130
Tetrahydrofuran	50.0	70.4	*	ug/L		141	70 - 130
Toluene	25.0	25.1		ug/L		100	70 - 130
trans-1,2-Dichloroethene	25.0	26.7		ug/L		107	70 - 130
trans-1,3-Dichloropropene	25.0	27.0		ug/L		108	70 - 130
Trichloroethene	25.0	27.2		ug/L		109	70 - 130
Trichlorofluoromethane	25.0	25.4		ug/L		102	70 - 130
Vinyl chloride	25.0	25.3		ug/L		101	70 - 130
Dibromomethane	25.0	27.1		ug/L		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 480-352253/6
Matrix: Water
Analysis Batch: 352253

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	25.7		ug/L		103	70 - 130	1	20
1,1,1-Trichloroethane	25.0	25.9		ug/L		103	70 - 130	3	20
1,1,2,2-Tetrachloroethane	25.0	28.1		ug/L		113	70 - 130	1	20
1,1,2-Trichloroethane	25.0	26.3		ug/L		105	70 - 130	2	20
1,1-Dichloroethane	25.0	26.9		ug/L		108	70 - 130	3	20
1,1-Dichloroethene	25.0	24.4		ug/L		98	70 - 130	4	20
1,1-Dichloropropene	25.0	25.5		ug/L		102	70 - 130	3	20
1,2,3-Trichlorobenzene	25.0	27.9		ug/L		112	70 - 130	2	20
1,2,3-Trichloropropane	25.0	25.9		ug/L		104	70 - 130	3	20
1,2,4-Trichlorobenzene	25.0	27.2		ug/L		109	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	24.8		ug/L		99	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	25.0	28.4		ug/L		113	70 - 130	6	20
1,2-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130	0	20
1,2-Dichloroethane	25.0	25.8		ug/L		103	70 - 130	1	20
1,2-Dichloropropane	25.0	26.8		ug/L		107	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	24.3		ug/L		97	70 - 130	4	20
1,3-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130	0	20
1,3-Dichloropropane	25.0	25.3		ug/L		101	70 - 130	1	20
1,4-Dichlorobenzene	25.0	25.3		ug/L		101	70 - 130	1	20
1,4-Dioxane	500	568		ug/L		114	70 - 130	17	20
2,2-Dichloropropane	25.0	25.4		ug/L		102	70 - 130	2	20
2-Butanone (MEK)	125	190	*	ug/L		152	70 - 130	3	20
2-Chlorotoluene	25.0	24.8		ug/L		99	70 - 130	1	20
2-Hexanone	125	150		ug/L		120	70 - 130	3	20
4-Chlorotoluene	25.0	26.9		ug/L		108	70 - 130	0	20
4-Isopropyltoluene	25.0	24.9		ug/L		100	70 - 130	0	20
4-Methyl-2-pentanone (MIBK)	125	145		ug/L		116	70 - 130	4	20
Acetone	125	180	*	ug/L		144	70 - 130	2	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-352253/6
Matrix: Water
Analysis Batch: 352253

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			25.0	26.1		ug/L		104	70 - 130	2	20
Bromobenzene			25.0	25.3		ug/L		101	70 - 130	0	20
Bromoform			25.0	40.6	*	ug/L		162	70 - 130	1	20
Bromomethane			25.0	24.3		ug/L		97	70 - 130	2	20
Carbon disulfide			25.0	24.8		ug/L		99	70 - 130	3	20
Carbon tetrachloride			25.0	29.3		ug/L		117	70 - 130	3	20
Chlorobenzene			25.0	25.4		ug/L		101	70 - 130	0	20
Chlorobromomethane			25.0	28.4		ug/L		113	70 - 130	0	20
Chlorodibromomethane			25.0	30.6		ug/L		122	70 - 130	4	20
Chloroethane			25.0	22.4		ug/L		90	70 - 130	6	20
Chloroform			25.0	25.7		ug/L		103	70 - 130	2	20
Chloromethane			25.0	24.2		ug/L		97	70 - 130	5	20
cis-1,2-Dichloroethene			25.0	26.2		ug/L		105	70 - 130	1	20
cis-1,3-Dichloropropene			25.0	28.3		ug/L		113	70 - 130	0	20
Dichlorobromomethane			25.0	31.6		ug/L		127	70 - 130	3	20
Dichlorodifluoromethane			25.0	20.7		ug/L		83	70 - 130	7	20
Ethyl ether			25.0	26.3		ug/L		105	70 - 130	0	20
Ethylbenzene			25.0	24.4		ug/L		98	70 - 130	1	20
Ethylene Dibromide			25.0	27.0		ug/L		108	70 - 130	5	20
Hexachlorobutadiene			25.0	23.8		ug/L		95	70 - 130	2	20
Isopropyl ether			25.0	24.7		ug/L		99	70 - 130	0	20
Isopropylbenzene			25.0	24.2		ug/L		97	70 - 130	3	20
Methyl tert-butyl ether			25.0	26.5		ug/L		106	70 - 130	1	20
Methylene Chloride			25.0	23.3		ug/L		93	70 - 130	1	20
m-Xylene & p-Xylene			25.0	24.7		ug/L		99	70 - 130	3	20
Naphthalene			25.0	27.2		ug/L		109	70 - 130	2	20
n-Butylbenzene			25.0	24.4		ug/L		98	70 - 130	1	20
N-Propylbenzene			25.0	24.4		ug/L		98	70 - 130	2	20
o-Xylene			25.0	25.1		ug/L		100	70 - 130	1	20
sec-Butylbenzene			25.0	24.2		ug/L		97	70 - 130	3	20
Styrene			25.0	25.3		ug/L		101	70 - 130	0	20
Tert-amyl methyl ether			25.0	24.3		ug/L		97	70 - 130	5	20
Tert-butyl ethyl ether			25.0	23.5		ug/L		94	70 - 130	1	20
tert-Butylbenzene			25.0	25.2		ug/L		101	70 - 130	3	20
Tetrachloroethene			25.0	25.6		ug/L		103	70 - 130	4	20
Tetrahydrofuran			50.0	75.7	*	ug/L		151	70 - 130	7	20
Toluene			25.0	24.6		ug/L		98	70 - 130	2	20
trans-1,2-Dichloroethene			25.0	26.0		ug/L		104	70 - 130	3	20
trans-1,3-Dichloropropene			25.0	27.4		ug/L		110	70 - 130	1	20
Trichloroethene			25.0	25.6		ug/L		103	70 - 130	6	20
Trichlorofluoromethane			25.0	23.6		ug/L		95	70 - 130	7	20
Vinyl chloride			25.0	23.7		ug/L		95	70 - 130	7	20
Dibromomethane			25.0	28.0		ug/L		112	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-115834/1-A
Matrix: Water
Analysis Batch: 115901

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 115834

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/14/17 17:35	04/18/17 17:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*95*		*46 - 130*	*04/14/17 17:35*	*04/18/17 17:20*	*1*

Lab Sample ID: LCS 200-115834/2-A
Matrix: Water
Analysis Batch: 115901

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 115834

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			2.00	2.15		ug/L		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*99*		*46 - 130*

Lab Sample ID: LCSD 200-115834/3-A
Matrix: Water
Analysis Batch: 115901

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 115834

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane			2.00	2.12		ug/L		106	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*97*		*46 - 130*

Method: 6010 - Metals (ICP)

Lab Sample ID: MB 480-351340/1-A
Matrix: Water
Analysis Batch: 351791

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351340

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050		mg/L		04/11/17 13:03	04/12/17 22:26	1

Lab Sample ID: LCS 480-351340/2-A
Matrix: Water
Analysis Batch: 351791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351340

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Iron			10.0	10.1		mg/L		101	80 - 120		

Lab Sample ID: LCSD 480-351340/3-A
Matrix: Water
Analysis Batch: 351791

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 351340

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron			10.0	10.1		mg/L		101	80 - 120	0	20

Method: 6010 - Metals (ICP) (Continued)

Lab Sample ID: 480-115930-10 MS
Matrix: Water
Analysis Batch: 351791

Client Sample ID: REW-7-20170410
Prep Type: Total/NA
Prep Batch: 351340

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	7.6		10.0	17.3		mg/L		97	75 - 125

Lab Sample ID: 480-115930-10 MSD
Matrix: Water
Analysis Batch: 351791

Client Sample ID: REW-7-20170410
Prep Type: Total/NA
Prep Batch: 351340

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	7.6		10.0	17.5		mg/L		99	75 - 125	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-351917/28
Matrix: Water
Analysis Batch: 351917

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			04/13/17 23:38	1
Sulfate	ND		2.0		mg/L			04/13/17 23:38	1

Lab Sample ID: MB 480-351917/4
Matrix: Water
Analysis Batch: 351917

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			04/13/17 20:23	1
Sulfate	ND		2.0		mg/L			04/13/17 20:23	1

Lab Sample ID: LCS 480-351917/27
Matrix: Water
Analysis Batch: 351917

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.4		mg/L		103	90 - 110
Sulfate	50.0	51.4		mg/L		103	90 - 110

Lab Sample ID: LCS 480-351917/3
Matrix: Water
Analysis Batch: 351917

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	51.2		mg/L		102	90 - 110
Sulfate	50.0	53.2		mg/L		106	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-351636/2-A
Matrix: Water
Analysis Batch: 351890

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351636

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		04/12/17 16:19	04/13/17 08:59	1

Lab Sample ID: LCS 480-351636/1-A
Matrix: Water
Analysis Batch: 351890

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351636

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.01		mg/L		101	90 - 110

Lab Sample ID: 480-115930-11 MS
Matrix: Water
Analysis Batch: 351890

Client Sample ID: REW-11-20170410
Prep Type: Total/NA
Prep Batch: 351636

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.0	F1	2.50	3.25	F1	mg/L		88	90 - 110

Lab Sample ID: MB 480-351915/2-A
Matrix: Water
Analysis Batch: 352115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351915

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		04/13/17 17:33	04/14/17 08:45	1

Lab Sample ID: LCS 480-351915/1-A
Matrix: Water
Analysis Batch: 352115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351915

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.05		mg/L		105	90 - 110

Lab Sample ID: 480-115930-10 MS
Matrix: Water
Analysis Batch: 352115

Client Sample ID: REW-7-20170410
Prep Type: Total/NA
Prep Batch: 351915

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.77		0.500	1.23		mg/L		92	90 - 110

Method: 9040C - pH

Lab Sample ID: 480-115930-5 DU
Matrix: Water
Analysis Batch: 352466

Client Sample ID: MW-268S-20170410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	11.2	HF	11.3		SU		0.3	5
Temperature	20.6	HF	20.9		Degrees C		1	10

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-351972/28
Matrix: Water
Analysis Batch: 351972

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			04/13/17 01:49	1
TOC Result 2	ND		1.0		mg/L			04/13/17 01:49	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/13/17 01:49	1

Lab Sample ID: MB 480-351972/52
Matrix: Water
Analysis Batch: 351972

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			04/13/17 12:55	1
TOC Result 2	ND	^	1.0		mg/L			04/13/17 12:55	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/13/17 12:55	1

Lab Sample ID: LCS 480-351972/29
Matrix: Water
Analysis Batch: 351972

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	62.0		mg/L		103	90 - 110
TOC Result 2	60.0	62.3		mg/L		104	90 - 110
Total Organic Carbon - Duplicates	60.0	62.2		mg/L		104	90 - 110

Lab Sample ID: LCS 480-351972/53
Matrix: Water
Analysis Batch: 351972

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	63.4		mg/L		106	90 - 110
TOC Result 2	60.0	63.4	^	mg/L		106	90 - 110
Total Organic Carbon - Duplicates	60.0	63.4		mg/L		106	90 - 110

Lab Sample ID: MB 480-352260/29
Matrix: Water
Analysis Batch: 352260

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			04/15/17 04:50	1
TOC Result 2	ND		1.0		mg/L			04/15/17 04:50	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/15/17 04:50	1

Lab Sample ID: MB 480-352260/5
Matrix: Water
Analysis Batch: 352260

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			04/14/17 17:38	1
TOC Result 2	ND		1.0		mg/L			04/14/17 17:38	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/14/17 17:38	1

Lab Sample ID: LCS 480-352260/30
Matrix: Water
Analysis Batch: 352260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	58.6		mg/L		98	90 - 110
TOC Result 2	60.0	60.9		mg/L		102	90 - 110
Total Organic Carbon - Duplicates	60.0	59.8		mg/L		100	90 - 110

Lab Sample ID: LCS 480-352260/6
Matrix: Water
Analysis Batch: 352260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	62.7		mg/L		105	90 - 110
TOC Result 2	60.0	61.4		mg/L		102	90 - 110
Total Organic Carbon - Duplicates	60.0	62.0		mg/L		103	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-351436/7
Matrix: Water
Analysis Batch: 351436

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			04/11/17 17:58	1

Lab Sample ID: LCS 480-351436/8
Matrix: Water
Analysis Batch: 351436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	93.5		mg/L		93	90 - 110

Lab Sample ID: 480-115930-11 MS
Matrix: Water
Analysis Batch: 351436

Client Sample ID: REW-11-20170410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	360	F1	100	408	F1	mg/L		45	60 - 140

Lab Sample ID: 480-115930-10 DU
Matrix: Water
Analysis Batch: 351436

Client Sample ID: REW-7-20170410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity, Total	54		53.0		mg/L		1	20

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 480-351444/3
Matrix: Water
Analysis Batch: 351444

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ortho-Phosphate	ND		0.020		mg/L			04/11/17 22:21	1

Lab Sample ID: LCS 480-351444/4
Matrix: Water
Analysis Batch: 351444

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
ortho-Phosphate			0.200	0.194		mg/L		97	90 - 110		

Lab Sample ID: 480-115930-5 MS
Matrix: Water
Analysis Batch: 351444

Client Sample ID: MW-268S-20170410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
ortho-Phosphate	0.25		1.00	1.22		mg/L		97	49 - 138		

Lab Sample ID: 480-115930-5 MSD
Matrix: Water
Analysis Batch: 351444

Client Sample ID: MW-268S-20170410
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
ortho-Phosphate	0.25		1.00	1.21		mg/L		96	49 - 138	1	20

GC/MS VOA

Analysis Batch: 352211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115930-1	MW-265D-20170409	Total/NA	Water	8260C	
480-115930-2	MW-266Mb-20170409	Total/NA	Water	8260C	
480-115930-4	MW-267M-20170409	Total/NA	Water	8260C	
480-115930-8	MW-269Ma-20170409	Total/NA	Water	8260C	
480-115930-12	DUP1-20170409	Total/NA	Water	8260C	
480-115930-15	MW-551-20170409	Total/NA	Water	8260C	
MB 480-352211/8	Method Blank	Total/NA	Water	8260C	
LCS 480-352211/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-352211/6	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 352240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115930-3	MW-267S-20170410	Total/NA	Water	8260C	
480-115930-5	MW-268S-20170410	Total/NA	Water	8260C	
480-115930-6	MW-268M-20170410	Total/NA	Water	8260C	
480-115930-7	MW-268D-20170409	Total/NA	Water	8260C	
480-115930-10	REW-7-20170410	Total/NA	Water	8260C	
480-115930-11	REW-11-20170410	Total/NA	Water	8260C	
480-115930-14	TRIP BLANK	Total/NA	Water	8260C	
MB 480-352240/7	Method Blank	Total/NA	Water	8260C	
LCS 480-352240/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-352240/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 352253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115930-9	REW-6-20170410	Total/NA	Water	8260C	
480-115930-13	DUP2-20170410	Total/NA	Water	8260C	
MB 480-352253/8	Method Blank	Total/NA	Water	8260C	
LCS 480-352253/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-352253/6	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 115834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115930-3	MW-267S-20170410	Total/NA	Water	3535A	
480-115930-4	MW-267M-20170409	Total/NA	Water	3535A	
480-115930-5	MW-268S-20170410	Total/NA	Water	3535A	
480-115930-6	MW-268M-20170410	Total/NA	Water	3535A	
480-115930-8	MW-269Ma-20170409	Total/NA	Water	3535A	
480-115930-12	DUP1-20170409	Total/NA	Water	3535A	
MB 200-115834/1-A	Method Blank	Total/NA	Water	3535A	
LCS 200-115834/2-A	Lab Control Sample	Total/NA	Water	3535A	
LCSD 200-115834/3-A	Lab Control Sample Dup	Total/NA	Water	3535A	

Analysis Batch: 115901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115930-4	MW-267M-20170409	Total/NA	Water	522	115834
480-115930-5	MW-268S-20170410	Total/NA	Water	522	115834
480-115930-6	MW-268M-20170410	Total/NA	Water	522	115834

GC/MS Semi VOA (Continued)

Analysis Batch: 115901 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115930-8	MW-269Ma-20170409	Total/NA	Water	522	115834
480-115930-12	DUP1-20170409	Total/NA	Water	522	115834
MB 200-115834/1-A	Method Blank	Total/NA	Water	522	115834
LCS 200-115834/2-A	Lab Control Sample	Total/NA	Water	522	115834
LCSD 200-115834/3-A	Lab Control Sample Dup	Total/NA	Water	522	115834

Analysis Batch: 115937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115930-3	MW-267S-20170410	Total/NA	Water	522	115834

Metals

Prep Batch: 351340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115930-3	MW-267S-20170410	Total/NA	Water	3005A	
480-115930-5	MW-268S-20170410	Total/NA	Water	3005A	
480-115930-6	MW-268M-20170410	Total/NA	Water	3005A	
480-115930-9	REW-6-20170410	Total/NA	Water	3005A	
480-115930-10	REW-7-20170410	Total/NA	Water	3005A	
480-115930-11	REW-11-20170410	Total/NA	Water	3005A	
MB 480-351340/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-351340/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-351340/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	
480-115930-10 MS	REW-7-20170410	Total/NA	Water	3005A	
480-115930-10 MSD	REW-7-20170410	Total/NA	Water	3005A	

Analysis Batch: 351791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115930-3	MW-267S-20170410	Total/NA	Water	6010	351340
480-115930-5	MW-268S-20170410	Total/NA	Water	6010	351340
480-115930-6	MW-268M-20170410	Total/NA	Water	6010	351340
480-115930-9	REW-6-20170410	Total/NA	Water	6010	351340
480-115930-10	REW-7-20170410	Total/NA	Water	6010	351340
480-115930-11	REW-11-20170410	Total/NA	Water	6010	351340
MB 480-351340/1-A	Method Blank	Total/NA	Water	6010	351340
LCS 480-351340/2-A	Lab Control Sample	Total/NA	Water	6010	351340
LCSD 480-351340/3-A	Lab Control Sample Dup	Total/NA	Water	6010	351340
480-115930-10 MS	REW-7-20170410	Total/NA	Water	6010	351340
480-115930-10 MSD	REW-7-20170410	Total/NA	Water	6010	351340

General Chemistry

Analysis Batch: 351430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115930-3	MW-267S-20170410	Total/NA	Water	9040C	
480-115930-6	MW-268M-20170410	Total/NA	Water	9040C	
480-115930-9	REW-6-20170410	Total/NA	Water	9040C	
480-115930-10	REW-7-20170410	Total/NA	Water	9040C	
480-115930-11	REW-11-20170410	Total/NA	Water	9040C	
LCS 480-351430/1	Lab Control Sample	Total/NA	Water	9040C	

General Chemistry (Continued)

Analysis Batch: 351430 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-351430/23	Lab Control Sample	Total/NA	Water	9040C	

Analysis Batch: 351436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115930-3	MW-267S-20170410	Total/NA	Water	SM 2320B	
480-115930-5	MW-268S-20170410	Total/NA	Water	SM 2320B	
480-115930-6	MW-268M-20170410	Total/NA	Water	SM 2320B	
480-115930-9	REW-6-20170410	Total/NA	Water	SM 2320B	
480-115930-10	REW-7-20170410	Total/NA	Water	SM 2320B	
480-115930-11	REW-11-20170410	Total/NA	Water	SM 2320B	
MB 480-351436/7	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-351436/8	Lab Control Sample	Total/NA	Water	SM 2320B	
480-115930-11 MS	REW-11-20170410	Total/NA	Water	SM 2320B	
480-115930-10 DU	REW-7-20170410	Total/NA	Water	SM 2320B	

Analysis Batch: 351444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115930-3	MW-267S-20170410	Total/NA	Water	SM 4500 P E	
480-115930-5	MW-268S-20170410	Total/NA	Water	SM 4500 P E	
480-115930-6	MW-268M-20170410	Total/NA	Water	SM 4500 P E	
480-115930-9	REW-6-20170410	Total/NA	Water	SM 4500 P E	
480-115930-10	REW-7-20170410	Total/NA	Water	SM 4500 P E	
480-115930-11	REW-11-20170410	Total/NA	Water	SM 4500 P E	
MB 480-351444/3	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-351444/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	
480-115930-5 MS	MW-268S-20170410	Total/NA	Water	SM 4500 P E	
480-115930-5 MSD	MW-268S-20170410	Total/NA	Water	SM 4500 P E	

Analysis Batch: 351455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115930-3	MW-267S-20170410	Total/NA	Water	353.2	
480-115930-5	MW-268S-20170410	Total/NA	Water	353.2	
480-115930-6	MW-268M-20170410	Total/NA	Water	353.2	
480-115930-9	REW-6-20170410	Total/NA	Water	353.2	
480-115930-10	REW-7-20170410	Total/NA	Water	353.2	
480-115930-11	REW-11-20170410	Total/NA	Water	353.2	

Prep Batch: 351636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115930-3	MW-267S-20170410	Total/NA	Water	Distill/Ammonia	
480-115930-5	MW-268S-20170410	Total/NA	Water	Distill/Ammonia	
480-115930-6	MW-268M-20170410	Total/NA	Water	Distill/Ammonia	
480-115930-9	REW-6-20170410	Total/NA	Water	Distill/Ammonia	
480-115930-11	REW-11-20170410	Total/NA	Water	Distill/Ammonia	
MB 480-351636/2-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-351636/1-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
480-115930-11 MS	REW-11-20170410	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 351890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115930-3	MW-267S-20170410	Total/NA	Water	350.1	351636

General Chemistry (Continued)

Analysis Batch: 351890 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115930-5	MW-268S-20170410	Total/NA	Water	350.1	351636
480-115930-6	MW-268M-20170410	Total/NA	Water	350.1	351636
480-115930-9	REW-6-20170410	Total/NA	Water	350.1	351636
480-115930-11	REW-11-20170410	Total/NA	Water	350.1	351636
MB 480-351636/2-A	Method Blank	Total/NA	Water	350.1	351636
LCS 480-351636/1-A	Lab Control Sample	Total/NA	Water	350.1	351636
480-115930-11 MS	REW-11-20170410	Total/NA	Water	350.1	351636

Prep Batch: 351915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115930-10	REW-7-20170410	Total/NA	Water	Distill/Ammonia	
MB 480-351915/2-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-351915/1-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
480-115930-10 MS	REW-7-20170410	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 351917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115930-3	MW-267S-20170410	Total/NA	Water	300.0	
480-115930-5	MW-268S-20170410	Total/NA	Water	300.0	
480-115930-6	MW-268M-20170410	Total/NA	Water	300.0	
480-115930-9	REW-6-20170410	Total/NA	Water	300.0	
480-115930-10	REW-7-20170410	Total/NA	Water	300.0	
480-115930-11	REW-11-20170410	Total/NA	Water	300.0	
MB 480-351917/28	Method Blank	Total/NA	Water	300.0	
MB 480-351917/4	Method Blank	Total/NA	Water	300.0	
LCS 480-351917/27	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-351917/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 351972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115930-3	MW-267S-20170410	Total/NA	Water	9060A	
480-115930-5	MW-268S-20170410	Total/NA	Water	9060A	
480-115930-6	MW-268M-20170410	Total/NA	Water	9060A	
480-115930-10	REW-7-20170410	Total/NA	Water	9060A	
480-115930-11	REW-11-20170410	Total/NA	Water	9060A	
MB 480-351972/28	Method Blank	Total/NA	Water	9060A	
MB 480-351972/52	Method Blank	Total/NA	Water	9060A	
LCS 480-351972/29	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-351972/53	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 352115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115930-10	REW-7-20170410	Total/NA	Water	350.1	351915
MB 480-351915/2-A	Method Blank	Total/NA	Water	350.1	351915
LCS 480-351915/1-A	Lab Control Sample	Total/NA	Water	350.1	351915
480-115930-10 MS	REW-7-20170410	Total/NA	Water	350.1	351915

Analysis Batch: 352260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115930-9	REW-6-20170410	Total/NA	Water	9060A	
MB 480-352260/29	Method Blank	Total/NA	Water	9060A	

General Chemistry (Continued)

Analysis Batch: 352260 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-352260/5	Method Blank	Total/NA	Water	9060A	
LCS 480-352260/30	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-352260/6	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 352466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115930-5	MW-268S-20170410	Total/NA	Water	9040C	
LCS 480-352466/1	Lab Control Sample	Total/NA	Water	9040C	
480-115930-5 DU	MW-268S-20170410	Total/NA	Water	9040C	

Client Sample ID: MW-265D-20170409
Date Collected: 04/09/17 10:05
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352211	04/15/17 16:50	SWO	TAL BUF

Client Sample ID: MW-266Mb-20170409
Date Collected: 04/09/17 10:50
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352211	04/15/17 17:14	SWO	TAL BUF

Client Sample ID: MW-267S-20170410
Date Collected: 04/10/17 08:05
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	352240	04/16/17 01:05	LCH	TAL BUF
Total/NA	Prep	3535A			115834	04/14/17 17:35	RCK	TAL BUR
Total/NA	Analysis	522		1	115937	04/19/17 12:37	TPB	TAL BUR
Total/NA	Prep	3005A			351340	04/11/17 13:03	MVZ	TAL BUF
Total/NA	Analysis	6010		1	351791	04/12/17 22:41	SLB	TAL BUF
Total/NA	Analysis	300.0		5	351917	04/14/17 01:16	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			351636	04/12/17 16:19	KRT	TAL BUF
Total/NA	Analysis	350.1		1	351890	04/13/17 09:13	KRT	TAL BUF
Total/NA	Analysis	353.2		1	351455	04/11/17 18:57	DCB	TAL BUF
Total/NA	Analysis	9040C		1	351430	04/11/17 18:49	DSC	TAL BUF
Total/NA	Analysis	9060A		40	351972	04/13/17 20:20	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	351436	04/11/17 19:01	DSC	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	351444	04/11/17 22:21	DSC	TAL BUF

Client Sample ID: MW-267M-20170409
Date Collected: 04/09/17 11:30
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352211	04/15/17 17:38	SWO	TAL BUF
Total/NA	Prep	3535A			115834	04/14/17 17:35	RCK	TAL BUR
Total/NA	Analysis	522		1	115901	04/18/17 17:54	TPB	TAL BUR

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-115930-1

Client Sample ID: MW-268S-20170410

Date Collected: 04/10/17 10:20
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	352240	04/16/17 01:29	LCH	TAL BUF
Total/NA	Prep	3535A			115834	04/14/17 17:35	RCK	TAL BUR
Total/NA	Analysis	522		1	115901	04/18/17 18:11	TPB	TAL BUR
Total/NA	Prep	3005A			351340	04/11/17 13:03	MVZ	TAL BUF
Total/NA	Analysis	6010		1	351791	04/12/17 22:44	SLB	TAL BUF
Total/NA	Analysis	300.0		2	351917	04/14/17 01:24	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			351636	04/12/17 16:19	KRT	TAL BUF
Total/NA	Analysis	350.1		1	351890	04/13/17 09:14	KRT	TAL BUF
Total/NA	Analysis	353.2		1	351455	04/11/17 18:58	DCB	TAL BUF
Total/NA	Analysis	9040C		1	352466	04/18/17 01:29	DSC	TAL BUF
Total/NA	Analysis	9060A		8	351972	04/13/17 20:48	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	351436	04/11/17 19:06	DSC	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	351444	04/11/17 22:21	DSC	TAL BUF

Client Sample ID: MW-268M-20170410

Date Collected: 04/10/17 09:40
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	352240	04/16/17 01:53	LCH	TAL BUF
Total/NA	Prep	3535A			115834	04/14/17 17:35	RCK	TAL BUR
Total/NA	Analysis	522		1	115901	04/18/17 18:28	TPB	TAL BUR
Total/NA	Prep	3005A			351340	04/11/17 13:03	MVZ	TAL BUF
Total/NA	Analysis	6010		1	351791	04/12/17 22:59	SLB	TAL BUF
Total/NA	Analysis	300.0		2	351917	04/14/17 01:32	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			351636	04/12/17 16:19	KRT	TAL BUF
Total/NA	Analysis	350.1		1	351890	04/13/17 09:14	KRT	TAL BUF
Total/NA	Analysis	353.2		1	351455	04/11/17 18:59	DCB	TAL BUF
Total/NA	Analysis	9040C		1	351430	04/11/17 18:55	DSC	TAL BUF
Total/NA	Analysis	9060A		4	351972	04/13/17 21:16	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	351436	04/11/17 19:12	DSC	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	351444	04/11/17 22:21	DSC	TAL BUF

Client Sample ID: MW-268D-20170409

Date Collected: 04/09/17 12:50
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352240	04/16/17 02:17	LCH	TAL BUF

Client Sample ID: MW-269Ma-20170409

Lab Sample ID: 480-115930-8

Date Collected: 04/09/17 13:35

Matrix: Water

Date Received: 04/11/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352211	04/15/17 18:25	SWO	TAL BUF
Total/NA	Prep	3535A			115834	04/14/17 17:35	RCK	TAL BUR
Total/NA	Analysis	522		1	115901	04/18/17 18:45	TPB	TAL BUR

Client Sample ID: REW-6-20170410

Lab Sample ID: 480-115930-9

Date Collected: 04/10/17 08:55

Matrix: Water

Date Received: 04/11/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	352253	04/16/17 14:27	JWG	TAL BUF
Total/NA	Prep	3005A			351340	04/11/17 13:03	MVZ	TAL BUF
Total/NA	Analysis	6010		1	351791	04/12/17 23:02	SLB	TAL BUF
Total/NA	Analysis	300.0		5	351917	04/14/17 01:40	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			351636	04/12/17 16:19	KRT	TAL BUF
Total/NA	Analysis	350.1		1	351890	04/13/17 09:15	KRT	TAL BUF
Total/NA	Analysis	353.2		1	351455	04/11/17 19:05	DCB	TAL BUF
Total/NA	Analysis	9040C		1	351430	04/11/17 18:58	DSC	TAL BUF
Total/NA	Analysis	9060A		80	352260	04/14/17 19:57	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	351436	04/11/17 19:19	DSC	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	351444	04/11/17 22:21	DSC	TAL BUF

Client Sample ID: REW-7-20170410

Lab Sample ID: 480-115930-10

Date Collected: 04/10/17 12:30

Matrix: Water

Date Received: 04/11/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352240	04/16/17 03:04	LCH	TAL BUF
Total/NA	Prep	3005A			351340	04/11/17 13:03	MVZ	TAL BUF
Total/NA	Analysis	6010		1	351791	04/12/17 23:06	SLB	TAL BUF
Total/NA	Analysis	300.0		1	351917	04/14/17 01:48	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			351915	04/13/17 17:33	KRT	TAL BUF
Total/NA	Analysis	350.1		1	352115	04/14/17 09:10	KRT	TAL BUF
Total/NA	Analysis	353.2		1	351455	04/11/17 19:06	DCB	TAL BUF
Total/NA	Analysis	9040C		1	351430	04/11/17 19:00	DSC	TAL BUF
Total/NA	Analysis	9060A		1	351972	04/13/17 22:12	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	351436	04/11/17 19:24	DSC	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	351444	04/11/17 22:21	DSC	TAL BUF

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-115930-1

Client Sample ID: REW-11-20170410
Date Collected: 04/10/17 11:00
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352240	04/16/17 03:27	LCH	TAL BUF
Total/NA	Prep	3005A			351340	04/11/17 13:03	MVZ	TAL BUF
Total/NA	Analysis	6010		1	351791	04/12/17 23:23	SLB	TAL BUF
Total/NA	Analysis	300.0		2	351917	04/14/17 01:56	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			351636	04/12/17 16:19	KRT	TAL BUF
Total/NA	Analysis	350.1		1	351890	04/13/17 09:16	KRT	TAL BUF
Total/NA	Analysis	353.2		1	351455	04/11/17 19:07	DCB	TAL BUF
Total/NA	Analysis	9040C		1	351430	04/11/17 19:03	DSC	TAL BUF
Total/NA	Analysis	9060A		4	351972	04/13/17 22:40	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	351436	04/11/17 19:35	DSC	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	351444	04/11/17 22:21	DSC	TAL BUF

Client Sample ID: DUP1-20170409
Date Collected: 04/09/17 00:00
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352211	04/15/17 18:49	SWO	TAL BUF
Total/NA	Prep	3535A			115834	04/14/17 17:35	RCK	TAL BUR
Total/NA	Analysis	522		1	115901	04/18/17 19:01	TPB	TAL BUR

Client Sample ID: DUP2-20170410
Date Collected: 04/10/17 00:00
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352253	04/16/17 14:51	JWG	TAL BUF

Client Sample ID: TRIP BLANK
Date Collected: 04/10/17 00:00
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352240	04/16/17 04:15	LCH	TAL BUF

Client Sample ID: MW-551-20170409
Date Collected: 04/09/17 09:25
Date Received: 04/11/17 01:00

Lab Sample ID: 480-115930-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352211	04/15/17 19:13	SWO	TAL BUF

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-115930-1

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-115930-1

Laboratory: TestAmerica Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-17
California	State Program	9	1169CA	09-30-17
Connecticut	State Program	1	PH-0568	09-30-18
Florida	NELAP	4	E87672	06-30-17
Georgia	State Program	4	N/A	03-31-18
Illinois	NELAP	5	200003	09-30-17
Iowa	State Program	7	374	03-01-17 *
Kansas	NELAP	7	E-10187	01-31-18
Kentucky (DW)	State Program	4	90029	12-31-17
Kentucky (UST)	State Program	4	30	03-31-17 *
Kentucky (WW)	State Program	4	90029	12-31-17
Louisiana	NELAP	6	02031	06-30-17
Maine	State Program	1	NY00044	12-04-18
Maryland	State Program	3	294	03-31-18
Massachusetts	State Program	1	M-NY044	06-30-17
Michigan	State Program	5	9937	03-31-17 *
Minnesota	NELAP	5	036-999-337	12-31-17
New Hampshire	NELAP Primary AB	1	2973	09-11-17
New Hampshire	NELAP Secondary AB	1	2337	11-17-17
New Jersey	NELAP	2	NY455	06-30-17
New York	NELAP	2	10026	03-31-18
North Dakota	State Program	8	R-176	03-31-17 *
Oklahoma	State Program	6	9421	08-31-17
Oregon	NELAP	10	NY200003	06-09-17 *
Pennsylvania	NELAP	3	68-00281	07-31-17
Rhode Island	State Program	1	LAO00328	12-30-17
Tennessee	State Program	4	TN02970	03-31-18
Texas	NELAP	6	T104704412-15-6	07-31-17
USDA	Federal		P330-11-00386	11-26-17
Virginia	NELAP	3	460185	09-14-17
Washington	State Program	10	C784	02-10-18
Wisconsin	State Program	5	998310390	08-31-17

Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-17
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-02-18
Florida	NELAP	4	E87467	06-30-17
L-A-B	DoD ELAP		L2336	03-25-17 *
Maine	State Program	1	VT00008	04-17-17 *
Minnesota	NELAP	5	050-999-436	12-31-17
New Hampshire	NELAP	1	2006	12-18-17
New Jersey	NELAP	2	VT972	06-30-17 *
New York	NELAP	2	10391	04-01-17 *
Pennsylvania	NELAP	3	68-00489	04-30-17 *
Rhode Island	State Program	1	LAO00298	12-30-17
US Fish & Wildlife	Federal		LE-058448-0	10-31-17
USDA	Federal		P330-11-00093	12-05-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-115930-1

Laboratory: TestAmerica Burlington (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Vermont	State Program	1	VT-4000	12-31-17
Virginia	NELAP	3	460209	12-14-17

Method Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-115930-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
522	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR
6010	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
9040C	pH	SW846	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 4500 P E	Orthophosphate	SM	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency
MA DEP = Massachusetts Department Of Environmental Protection
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-115930-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-115930-1	MW-265D-20170409	Water	04/09/17 10:05	04/11/17 01:00
480-115930-2	MW-266Mb-20170409	Water	04/09/17 10:50	04/11/17 01:00
480-115930-3	MW-267S-20170410	Water	04/10/17 08:05	04/11/17 01:00
480-115930-4	MW-267M-20170409	Water	04/09/17 11:30	04/11/17 01:00
480-115930-5	MW-268S-20170410	Water	04/10/17 10:20	04/11/17 01:00
480-115930-6	MW-268M-20170410	Water	04/10/17 09:40	04/11/17 01:00
480-115930-7	MW-268D-20170409	Water	04/09/17 12:50	04/11/17 01:00
480-115930-8	MW-269Ma-20170409	Water	04/09/17 13:35	04/11/17 01:00
480-115930-9	REW-6-20170410	Water	04/10/17 08:55	04/11/17 01:00
480-115930-10	REW-7-20170410	Water	04/10/17 12:30	04/11/17 01:00
480-115930-11	REW-11-20170410	Water	04/10/17 11:00	04/11/17 01:00
480-115930-12	DUP1-20170409	Water	04/09/17 00:00	04/11/17 01:00
480-115930-13	DUP2-20170410	Water	04/10/17 00:00	04/11/17 01:00
480-115930-14	TRIP BLANK	Water	04/10/17 00:00	04/11/17 01:00
480-115930-15	MW-551-20170409	Water	04/09/17 09:25	04/11/17 01:00

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-115930-1

Login Number: 115930
List Number: 1
Creator: Williams, Christopher S

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	IESI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-115930-1

Login Number: 115930
List Number: 2
Creator: Johnson, Eleanor E

List Source: TestAmerica Burlington
List Creation: 04/11/17 12:24 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	DJ & DR
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

360325-Boston

TestAmerica Westfield
501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (303) 467-7247

TestAmerica Boston
240 Bear Hill Road -- Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

480-115930 COC

COC No: 33734
Page: 1 of 2
Job #:

Client Information:
Client Contact: Vicki Paniagua
Company: Innovative Engineering Solutions Inc
Address: 25 Speen St
City: Walpole
State and Zip: MA 02081
Client's Phone: 508-668-0033
Client's Contact Email: vpaniagua@iesinc.com
Client's Project Name/Number: Raytheon - Wayland RA-008
Sample Collection Site Name & Location: Wayland, MA

Sample Collector's Name (Please Print Neatly): Dave Sayer, Dorren Rolls
Sample Collector's Phone: 508-404-3196
Lab PM:
E-Mail:
Due Date Requested: 4/19/17
Turnaround Time (TAT) Requested (business days): 5 days
Quote # or Project #:
PO #: RA-008
WO #:
PWS ID #:

Analysis Reques

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	8260C	522 Dioxane	6010A TOC	350.1 NH3	6010 med TAL	300.0 SO4 Cl	8260B Allyl Alcohol	Preservation Code:	Total Number of Containers (enter total for each line)
MW-261S-20170410	4/10/17	Drinking	G		X	X	X	X	X	X	X	D	11
MW-264M-20170410	4/10/17	Drinking	G		X							D	3
MW-265D-20170409	4/9/17	1005	G	W	X								3
MW-266MB-20170409	4/9/17	1050	G	W	X								3
MW-267S-20170410	4/10/17	0805	G	W	X	X	X	X	X	X	X	X	11
MW-267M-20170409	4/9/17	1130	G	W	X	X							4
MW-268S-20170410	4/10/17	1020	G	W	X	X	X	X	X	X	X	X	11
MW-268M-20170410	4/10/17	0940	G	W	X	X	X	X	X	X	X	X	11
MW-269D-20170409	4/9/17	1250	G	W	X								3
MW-269MB-20170409	4/9/17	1335	G	W	X	X							4

Preservation Codes: A - Hydrochloric Acid; B - Sodium Hydroxide; C - Zinc Acetate; D - Nitric Acid; E - Sodium Bisulfite; F - Methanol; H - Ascorbic Acid; J - Deionized Water; M - Hexane; N - No Preservative; P - Sodium Sulfate; Q - Sodium Sulfite; R - Sodium Thiosulfate; S - Sulfuric Acid; Z - other (specify)

Regulatory Programs: MCP ☐ GW1/S1 ☐ RCP ☐ CT RSR ☐ DEP Form ☐ EDD Required ☐ eDEP Filing ☐ NPDES ☐

SUBCONTRACT POLICY: Unless you provide instructions to the contrary, or specify which sub-contract labs are or are not to be used, you agree in advance to permit TestAmerica to use certified, subcontract labs, without any additional notification made by us, as necessary to fulfill your work order.

Special Instructions & Notes:
GW-3 Requirements

Possible Hazard Identification (please check off each that may apply):
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

** **Matrix Types:** A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other: _____

► NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !! ◄

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	4/10/17 1420	IESI		4-10-17 1420	TA
Relinquished by:	4-10-17 1700			4-11-17 0100	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 2.1 #1

WI-QA-010 rev 8

Revised 10/29/2014
TAL-8245-360R

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4/19/2017

TestAmerica Westfield
501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (303) 467-7247

TestAmerica Boston
240 Bear Hill Road – Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6901

360325-Boston

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information:	Sample Collector's Name (Please Print Neatly): Dave Soto	Lab PM:	Lab COC Barcode Label	COC No: 36769
Client Contact: Vicki Perilstein	Sample Collector's Phone: 508-404-3192	E-Mail:		Page: 2 of 2
Company: Innovative Engineering Solutions Inc				Job #:
Address: 25 Spring St	Due Date Requested: 4/18/17			
City: Walpole	Turnaround Time (TAT) Requested (business days): 5 days			
State and Zip: MA 02081				
Client's Phone: 508-668-0033	Quote # or Project #:			
Client's Contact Email: vperilstein@iesinc.com	PO #: RA-003			
Client's Project Name/Number: Raytheon - Wayland RA-008	WO #:			
Sample Collection Site Name & Location: Wayland MA	PWS ID #:			

Analysis Requested

Preservation Codes: A - Hydrochloric Acid; B - Sodium Hydroxide; C - Zinc Acetate; D - Nitric Acid; E - Sodium Bisulfite; F - Methanol; H - Ascorbic Acid; J - Deionized Water; M - Hexane; N - No Preservative; P - Sodium Sulfate; Q - Sodium Sulfite; R - Sodium Thiosulfate; S - Sulfuric Acid; Z - other (specify)

Regulatory Programs: MCP ☐ RCP ☐ DEP Form ☐ eDEP Filing ☐ GW1/S1 ☐ CT RSR ☐ EDD Required ☐ NPDES ☐

SUBCONTRACT POLICY: Unless you provide instructions to the contrary, or specify which sub-contract labs are or are not to be used, you agree in advance to permit Test-America to use certified, subcontract labs, without any additional notification made by us, as necessary to fulfill your work order.

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Total Number of Containers (enter total for each line)	Special Instructions & Notes:
Preservation Codes →					↓	
Rec-6- 20170410	4/10/17	0855	C	W	10	CW-3
Rec-7- 20170410	4/10/17	1230	C	W	10	Required MS/MSD
Rec-8- 20170410	4/10/17	1100	C	W	10	
Dup1 - 20170409	4/9/17	—	C	W	4	
Dup2 - 20170410	4/10/17	—	C	W	3	
Trip Blank	—	—	—	W	2	
mw-551-20170409	4/9/17	0925	C	W	3	

Possible Hazard Identification (please check off each that may apply):
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month) :
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

** **Matrix Types**: A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other: _____

► **NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!** ◄

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	4/10/17 1420	IESI		4-10-17 1420	TA
Relinquished by:	4-10-17 1800			4-11-17 0700	TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.1 #1

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4/19/2017

WI-QA-010 rev 8

Revised 10/29/2014
TAL-8245-360R

380325-Boston

TestAmerica Westfield	TestAmerica Boston	TestAmerica
501 Southampton Road Westfield MA 01085 Phone: (413) 572-4000 Fax: (303) 467-7247	240 Bear Hill Road -- Suite 104 Waltham MA 02451 Phone: (781) 466-6900 Fax: (781) 466-6901	THE LEADER IN ENVIRONMENTAL TESTING

C

480-115930 Chain of Custody

Client Information:

Field	Value
Client Contact	Vicki Pazinga
Company	Innovative Engineering Solutions Inc
Address	25 Spring St
City	Walpole
State and Zip	MA 02081
Client's Phone	508-668-0033
Client's Contact Email	vpazinga@iesonline.com
Client's Project Name/Number	Raytheon - Wayland RA-008
Sample Collection Site Name & Location	Wayland, MA
Sample Collector's Name (Please Print Neatly)	Dan Jones, Dermot Rolls
Sample Collector's Phone	508-404-3196
Due Date Requested	4/18/17
Turnaround Time (TAT) Requested (business days)	5 days
Quote # or Project #	
PO #	RA-008
WO #	
PWS ID #	
Lab PM	
E-Mail	
COC No.	33734
Page	1 of 2
Job #	

Analysis Requested

Preservation Codes:
A - Hydrochloric Acid; B - Sodium Hydroxide; C - Zinc Acetate; D - Nitric Acid; E - Sodium Bisulfite; F - Methanol; H - Ascorbic Acid; J - Deionized Water; M - Hexane; N - No Preservative; P - Sodium Sulfate; Q - Sodium Sulfite; R - Sodium Thiosulfate; S - Sulfuric Acid; Z - other (specify)

Regulatory Programs: MCP ☐ RCP ☐ DEP Form ☐ eDEP Filing ☐ GW1/S1 ☐ CT RSR ☐ EDD Required ☐ NPDES ☐

SUBCONTRACT POLICY: Unless you provide instructions to the contrary, or specify which sub-contract labs are or are not to be used, you agree in advance to permit TestAmerica to use certified, subcontract labs, without any additional notification made by us, as necessary to fulfill your work order.

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	8260C	522 Dioxane	9060A TOC	330.1 NH3	6010 MCP Total Iron	300.0-28D SO4-Cl 9040-pH	2320B Alkalinity	4500-P-X Ortho Phos / Nitrate/Nitrite 353.2-NO3	Total Number of Containers	Special Instructions & Notes
← Preservation Codes →					A	A	N	S	D	N	N	N	↓	
~~MW-261S-20170410~~	~~4/10/17~~	Deleted	[illegible]		X	X	X	X	X	X	X	X	11	GW-3 Required
~~MW-264M-20170410~~	~~4/10/17~~	Deleted	[illegible]		X	Deleted							3	
MW-265D-20170409	4/9/17	1005	G	W	X								3	522 1-4 Dioxane To Burlington
MW-266Mb-20170409	4/9/17	1050	G	W	X								3	
MW-267S-20170410	4/10/17	0805	G	W	X	X	X	X	X	X	X	X	11	
MW-267M-20170409	4/9/17	1130	G	W	X	X							4	
MW-268S-20170410	4/10/17	1020	G	W	X	X	X	X	X	X	X	X	11	
MW-268M-20170410	4/10/17	0940	G	W	X	X	X	X	X	X	X	X	11	
MW-268D-20170409	4/9/17	1250	G	W	X								3	
MW-269Ma-20170409	4/9/17	1333	G	W	X	X							4	

Possible Hazard Identification (please check off each that may apply): ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

** Matrix Types: A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other: ____

▶ NOTE!! ~~ALL~~ SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !! ◀

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	4/10/17 1420	IESI	[signature]	4-10-17 1420	TA
[signature]	4-10-17 1[illegible]	[illegible]	[signature]	4/11/17 1015	TA Burl.

Custody Seals Intact: ☒ Yes Δ No	Custody Seal No.: no #s	Cooler Temperature(s) °C and Other Remarks: 2.6°C, intact

WI-QA-010 rev 8

Revised 10/29/2014
TAL-8245-360R

TestAmerica Westfield
501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (303) 467-7247

TestAmerica Boston
240 Bear Hill Road -- Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6901

360325-Boston

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information:	Sample Collector's Name (Please Print Neatly): Devin Soto
Client Contact: Vidi Periyan	Sample Collector's Phone: 508-404-3192
Company: Innovative Engineering Solutions Inc	Lab PM:
Address: 25 Spring St	E-Mail:
City: Walpole	Due Date Requested: 4/18/17
State and Zip: MA 02081	Turnaround Time (TAT) Requested (business days): 5 days
Client's Phone: 508-668-0033	Quote # or Project #:
Client's Contact Email: v.periyan@IESTonline.com	PO #: RA-008
Client's Project Name/Number: Raytheon - Wayland RA-008	WO #:
Sample Collection Site Name & Location: Wayland MA	PWS ID #:

Lab COC Barcode Label

COC No: 36769
Page: 2 of 2
Job #:

Analysis Requested

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	8260C	522 Dioxane	9060A TOC	350.1 NH3	COD MCP Total Iron	300.0_2380 SO4 9040C-pH	2320B Alkalinity	4500-P-E Ortho PO4, Nitrate Nitrite 353.2-NO3	Total Number of Containers (enter total for each line)	Special Instructions & Notes:
				Preservation Codes →	A	A	A	3	D	N	N	N	↓	
RSW-6-20170410	4/10/17	0855	G	W	X		X	X	X	X	X	X	10	GW-3
RSW-7-20170410	4/10/17	1230	G	W	X		X	X	X	X	X	X	10	Requires Metals
RSW-11-20170410	4/10/17	1100	G	W	X		X	X	X	X	X	X	10	
Dup1-20170409	4/9/17	—	G	W	X	X	[illegible]						4	522-1-4 Dioxane To Burlington
Dup2-20170410	4/10/17	—	G	W	X								3	
Trip Blank	—	—	—	W	X								2	
MW-551-20170409	4/9/17	0923	G	W	X								3	

Preservation Codes:
A - Hydrochloric Acid
B - Sodium Hydroxide
C - Zinc Acetate
D - Nitric Acid
E - Sodium Bisulfite
F - Methanol
H - Ascorbic Acid
J - Deionized Water
M - Hexane
N - No Preservative
P - Sodium Sulfate
Q - Sodium Sulfite
R - Sodium Thiosulfate
S - Sulfuric Acid
Z - other (specify)

Regulatory Programs:
MCP ☐ RCP ☐ DEP Form ☐ eDEP Filing ☐ GW1/S1 ☐ CT RSR ☐ EDD Required ☐ NPDES ☐

SUBCONTRACT POLICY: Unless you provide instructions to the contrary, or specify which sub-contract labs are or are not to be used, you agree in advance to permit TestAmerica to use certified, subcontract labs, without any additional notification made by us, as necessary to fulfill your work order.

Possible Hazard Identification (please check off each that may apply):
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

**** Matrix Types:** A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other: ____

▶ **NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!** ◀

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	4/10/17 1430	IESI	[signature]	4-10-17 1520	TA
[signature]	4/10/17 [illegible]		[signature]	4/11/17 10:15	TA Burl

Custody Seals Intact: ☒ Yes △ No
Custody Seal No.: no #s
Cooler Temperature(s) °C and Other Remarks: 2.6 °C, intact

WI-QA-010 rev 8
Revised 10/29/2014
TAL-8245-360R

ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 10APR17
ACTWGT: 23.23 LB
CAD: 590687/CAFE3011

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 660-1990 REF:
INV:
PO: DEPT:

FedEx Express

TRK# 0201 4258 8391 4872

TUE - 11 APR 3:00P
STANDARD OVERNIGHT

NA BTVA

05403
VT-US BTV

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-116033-1
Client Project/Site: IDS Wayland
Revision: 1

For:
Innovative Engineering Solutions, Inc
25 Spring Street
Walpole, Massachusetts 02081

Attn: Vicki Pariyar

Authorized for release by:
4/25/2017 1:03:15 PM

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

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Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-116033-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-116033-1

Revised report: Per client request updated IDs for the following samples: MW-266Ma-20170411 (480-116033-2) and REW-12-20170411 (480-116033-13).

Receipt
The samples were received on 4/12/2017 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0º C.

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): REW-11-20170411 (480-116033-13). The container labels list REW-12-20170411, while the COC lists REW-11-20170411. Logged in as per the COC pending PM/client resolution.

GC/MS VOA
Method 8260C: With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for 1,2-dibromo-3-chloropropane, Carbon Disulfide, Isopropyl Ether, Naphthalene, tert-Amyl Methyl Ether and Tetrahydrofuran.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-352253 recovered above the upper MCP control limit but less than 40% (less than 60% for poor performing analytes) for Acetone and Bromoform. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. The following samples are impacted: MW-264M-20170411 (480-116033-3), MW-553-20170411 (480-116033-5), MW-560-20170411 (480-116033-6), MW-562-20170411 (480-116033-8), MW-563-20170411 (480-116033-9), REW-8-20170411 (480-116033-10), REW-9-20170411 (480-116033-11), REW-10-20170411 (480-116033-12) and TRIP BLANKS (480-116033-15).

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 480-352253 recovered outside control limits but were greater than 10% for the following analytes: Acetone and Bromoform . MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples are impacted: MW-264M-20170411 (480-116033-3), MW-553-20170411 (480-116033-5), MW-560-20170411 (480-116033-6), MW-562-20170411 (480-116033-8), MW-563-20170411 (480-116033-9), REW-8-20170411 (480-116033-10), REW-9-20170411 (480-116033-11), REW-10-20170411 (480-116033-12) and TRIP BLANKS (480-116033-15).

Method 8260C: Due to the co-elution of Ethyl Acetate with 2-Butanone and Methacrylonitrile with Tetrahydrofuran in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) associated with batch 352253: MW-264M-20170411 (480-116033-3), MW-553-20170411 (480-116033-5), MW-560-20170411 (480-116033-6), MW-563-20170411 (480-116033-9), REW-8-20170411 (480-116033-10), REW-9-20170411 (480-116033-11), REW-10-20170411 (480-116033-12) and TRIP BLANKS (480-116033-15).

Method 8260C: The initial calibration curve RSD was greater than the 20% acceptance criteria for Bromoform, however the RSD was less than 40%. MCP protocol allows for 10% of the target compounds to be outside of the 20% RSD limit for the calibration provided the RSDs do not exceed 40%. The following samples are impacted: MW-264M-20170411 (480-116033-3), MW-553-20170411 (480-116033-5), MW-560-20170411 (480-116033-6), MW-562-20170411 (480-116033-8), MW-563-20170411 (480-116033-9), REW-8-20170411 (480-116033-10), REW-9-20170411 (480-116033-11), REW-10-20170411 (480-116033-12) and TRIP BLANKS (480-116033-15).

Method 8260C: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-562-20170411 (480-116033-8). The sample was analyzed within 7 days per EPA recommendation.

Method 8260C: The continuing calibration verification (CCV) for Carbon tetrachloride, Acetone, Bromoform, and 2-Butanone associated with batch 480-352315 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following samples were affected : MW-261S-20170411 (480-116033-1), MW-264Ma-20170411 (480-116033-2), MW-552-20170411 (480-116033-4), MW-561-20170411 (480-116033-7), REW-11-20170411 (480-116033-13) and DUP3-20170411

Job ID: 480-116033-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

(480-116033-14).

Method 8260C: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch 480-352315 exceeded control limits for the following analytes: Bromoform and Acetone. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples were affected : MW-261S-20170411 (480-116033-1), MW-264Ma-20170411 (480-116033-2), MW-552-20170411 (480-116033-4), MW-561-20170411 (480-116033-7), REW-11-20170411 (480-116033-13) and DUP3-20170411 (480-116033-14).

Method 8260C: The laboratory control sample (LCS) and/or the laboratory control sample duplicate (LCSD) for batch 480-352315 exceeded control limits for the following analytes: 2-Butanone and Tetrahydrofuran. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate and Methacrylonitrile in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample. The following samples were affected : MW-261S-20170411 (480-116033-1), MW-264Ma-20170411 (480-116033-2), MW-552-20170411 (480-116033-4), MW-561-20170411 (480-116033-7), REW-11-20170411 (480-116033-13) and DUP3-20170411 (480-116033-14).

Method 8260C: The initial calibration curve RSD was greater than the 20% acceptance criteria for Bromoform, however the RSD was less than 40%. MCP protocol allows for 10% of the target compounds to be outside of the 20% RSD limit for the calibration provided the RSDs do not exceed 40%. The following samples are impacted: MW-261S-20170411 (480-116033-1), MW-266Ma-20170411 (480-116033-2), MW-552-20170411 (480-116033-4), MW-561-20170411 (480-116033-7), REW-11-20170411 (480-116033-13) and DUP3-20170411 (480-116033-14).

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: REW-11-20170411 (480-116033-13). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-562-20170411 (480-116033-8). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-352449 recovered above the upper MCP control limit but less than 40% for Acetone and 2-Butanone. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference, 60% for poor performing compounds. The following sample is impacted: MW-562-20170411 (480-116033-8).

Method 8260C: The laboratory control sample (LCS) and/or the laboratory control sample duplicate (LCSD) for batch 480-352449 recovered outside control limits but were greater than 10% for the following analyte: Acetone . MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following sample is impacted: MW-562-20170411 (480-116033-8).

Method 8260C: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-562-20170411 (480-116033-8). The sample was analyzed within 7 days per EPA recommendation.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

HPLC/IC
Method 300.0: The following samples was reported with elevated reporting limits for all analytes: MW-261S-20170411 (480-116033-1), MW-552-20170411 (480-116033-4) and MW-553-20170411 (480-116033-5). The sample was analyzed at a dilution based on screening results.

Method 300.0: The following sample was diluted due to the nature of the sample matrix: MW-562-20170411 (480-116033-8) and REW-12-20170411 (480-116033-13). Elevated reporting limits (RLs) are provided.

Job ID: 480-116033-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010: At the request of the client, an abbreviated/modified MCP compound list was reported for this job.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 9040C: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-261S-20170411 (480-116033-1), MW-552-20170411 (480-116033-4), MW-553-20170411 (480-116033-5), MW-560-20170411 (480-116033-6), MW-561-20170411 (480-116033-7), MW-562-20170411 (480-116033-8), MW-563-20170411 (480-116033-9), REW-8-20170411 (480-116033-10), REW-9-20170411 (480-116033-11) and REW-10-20170411 (480-116033-12).

Method 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: REW-12-20170411 (480-116033-13).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-116033**

Project Location: **IDS Wayland** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):

480-116033[1-15]

Matrices: ■ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A ■	7470/7471 Hg CAM III B ☐	Mass DEP VPH CAM IV A ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	Mass DEP APH CAM IX A ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	Mass DEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐
6010 Metals CAM III A ■	6020 Metals CAM III D ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.	■ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	■ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	■ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	■ Yes ☐ No
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	■ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes ■ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350**

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ■ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	☐ Yes ■ No[1]

[1] All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Denise L Giglia Position: Project Manager Assistant II

Printed Name: Denise L. Giglia Date: 4/19/17 20:40

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116033-1

Client Sample ID: MW-261S-20170411 — Lab Sample ID: 480-116033-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	3.3		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	11		2.0		ug/L	1		8260C	Total/NA
o-Xylene	2.2		1.0		ug/L	1		8260C	Total/NA
Toluene	1.6		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	2.2		0.20		ug/L	1		522	Total/NA
Iron	43		0.050		mg/L	1		6010	Total/NA
Chloride	21		1.0		mg/L	2		300.0	Total/NA
Ammonia	0.35		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	2.8		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	3.1		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	2.9		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	380		5.0		mg/L	1		SM 2320B	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.1	HF	0.1		SU	1		9040C	Total/NA
Temperature	19.7	HF	0.001		Degrees C	1		9040C	Total/NA

Client Sample ID: MW-266Ma-20170411 — Lab Sample ID: 480-116033-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.1		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.9		2.0		ug/L	1		8260C	Total/NA
Toluene	9.2		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	5.5		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	0.47		0.20		ug/L	1		522	Total/NA

Client Sample ID: MW-552-20170411 — Lab Sample ID: 480-116033-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.3		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	1.6		0.20		ug/L	1		522	Total/NA
Iron	20		0.050		mg/L	1		6010	Total/NA
Chloride	13		1.0		mg/L	2		300.0	Total/NA
TOC Result 1	2.0		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	2.2		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	2.1		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	380	F1	5.0		mg/L	1		SM 2320B	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.3	HF	0.1		SU	1		9040C	Total/NA
Temperature	19.3	HF	0.001		Degrees C	1		9040C	Total/NA

Client Sample ID: MW-553-20170411 — Lab Sample ID: 480-116033-5

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample ID: MW-553-20170411 (Continued) — Lab Sample ID: 480-116033-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	45		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	3.5		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	13		2.0		ug/L	1		8260C	Total/NA
o-Xylene	2.4		1.0		ug/L	1		8260C	Total/NA
Toluene	9.5		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	11		1.0		ug/L	1		8260C	Total/NA
Iron	41		0.050		mg/L	1		6010	Total/NA
Chloride	19		2.5		mg/L	5		300.0	Total/NA
Ammonia	0.22		0.20		mg/L	1		350.1	Total/NA
Nitrate as N	0.061		0.050		mg/L	1		353.2	Total/NA
TOC Result 1	3.2		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	3.4		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	3.3		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	770		5.0		mg/L	1		SM 2320B	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.3	HF	0.1		SU	1		9040C	Total/NA
Temperature	19.1	HF	0.001		Degrees C	1		9040C	Total/NA

Client Sample ID: MW-560-20170411 — Lab Sample ID: 480-116033-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	6.6		0.050		mg/L	1		6010	Total/NA
Chloride	30		0.50		mg/L	1		300.0	Total/NA
Sulfate	4.0		2.0		mg/L	1		300.0	Total/NA
Ammonia	1.0		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	2.5		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	2.5		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	2.5		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	380		5.0		mg/L	1		SM 2320B	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.3	HF	0.1		SU	1		9040C	Total/NA
Temperature	18.9	HF	0.001		Degrees C	1		9040C	Total/NA

Client Sample ID: MW-561-20170411 — Lab Sample ID: 480-116033-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1.5		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	5.5		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.5		1.0		ug/L	1		8260C	Total/NA
Iron	92		0.050		mg/L	1		6010	Total/NA
Chloride	36		0.50		mg/L	1		300.0	Total/NA
Ammonia	2.0		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	4.9		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	5.5		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	5.2		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	250		5.0		mg/L	1		SM 2320B	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.8	HF	0.1		SU	1		9040C	Total/NA
Temperature	18.9	HF	0.001		Degrees C	1		9040C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116033-1

Client Sample ID: MW-562-20170411 — Lab Sample ID: 480-116033-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	2.2		2.0		ug/L	1		8260C	Total/NA
Toluene	19		1.0		ug/L	1		8260C	Total/NA
2-Butanone (MEK) - DL	540		80		ug/L	8		8260C	Total/NA
Acetone - DL	2500	*	400		ug/L	8		8260C	Total/NA
Iron	430		0.050		mg/L	1		6010	Total/NA
Chloride	45		25		mg/L	50		300.0	Total/NA
Ammonia	0.31		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	2600		80		mg/L	80		9060A	Total/NA
TOC Result 2	2600		80		mg/L	80		9060A	Total/NA
Total Organic Carbon - Duplicates	2600		80		mg/L	80		9060A	Total/NA
Alkalinity, Total	850		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.34		0.040		mg/L	2		SM 4500 P E	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	5.6	HF	0.1		SU	1		9040C	Total/NA
Temperature	19.0	HF	0.001		Degrees C	1		9040C	Total/NA

Client Sample ID: MW-563-20170411 — Lab Sample ID: 480-116033-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	14		0.050		mg/L	1		6010	Total/NA
Chloride	11		0.50		mg/L	1		300.0	Total/NA
Sulfate	4.0		2.0		mg/L	1		300.0	Total/NA
Ammonia	0.47		0.20		mg/L	1		350.1	Total/NA
Alkalinity, Total	79		5.0		mg/L	1		SM 2320B	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.1	HF	0.1		SU	1		9040C	Total/NA
Temperature	18.8	HF	0.001		Degrees C	1		9040C	Total/NA

Client Sample ID: REW-8-20170411 — Lab Sample ID: 480-116033-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	31		5.0		ug/L	1		8260C	Total/NA
Iron	8.6		0.050		mg/L	1		6010	Total/NA
Chloride	1.6		0.50		mg/L	1		300.0	Total/NA
Sulfate	7.0		2.0		mg/L	1		300.0	Total/NA
Ammonia	0.59		0.20		mg/L	1		350.1	Total/NA
Nitrate as N	0.13		0.050		mg/L	1		353.2	Total/NA
TOC Result 1	3.4		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	3.4		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	3.4		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	23		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.031		0.020		mg/L	1		SM 4500 P E	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.7	HF	0.1		SU	1		9040C	Total/NA
Temperature	18.6	HF	0.001		Degrees C	1		9040C	Total/NA

Client Sample ID: REW-9-20170411 — Lab Sample ID: 480-116033-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	3.0		0.050		mg/L	1		6010	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: REW-9-20170411 (Continued) — Lab Sample ID: 480-116033-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	6.7		0.50		mg/L	1		300.0	Total/NA
Sulfate	24		2.0		mg/L	1		300.0	Total/NA
Ammonia	1.3		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	3.3		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	3.7		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	3.5		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	40		5.0		mg/L	1		SM 2320B	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.9	HF	0.1		SU	1		9040C	Total/NA
Temperature	18.6	HF	0.001		Degrees C	1		9040C	Total/NA

Client Sample ID: REW-10-20170411 — Lab Sample ID: 480-116033-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	16		0.050		mg/L	1		6010	Total/NA
Chloride	3.4		0.50		mg/L	1		300.0	Total/NA
Sulfate	31		2.0		mg/L	1		300.0	Total/NA
Ammonia	0.96		0.20		mg/L	1		350.1	Total/NA
Nitrate as N	0.11		0.050		mg/L	1		353.2	Total/NA
TOC Result 1	3.9		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	4.3		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	4.1		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	8.6		5.0		mg/L	1		SM 2320B	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.2	HF	0.1		SU	1		9040C	Total/NA
Temperature	19.2	HF	0.001		Degrees C	1		9040C	Total/NA

Client Sample ID: REW-12-20170411 — Lab Sample ID: 480-116033-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	140	*	40		ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	12		4.0		ug/L	4		8260C	Total/NA
Toluene	42		4.0		ug/L	4		8260C	Total/NA
Vinyl chloride	5.2		4.0		ug/L	4		8260C	Total/NA
Iron	72		0.050		mg/L	1		6010	Total/NA
Chloride	19		2.5		mg/L	5		300.0	Total/NA
Ammonia	0.85		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	4300		80		mg/L	80		9060A	Total/NA
TOC Result 2	4300		80		mg/L	80		9060A	Total/NA
Total Organic Carbon - Duplicates	4300		80		mg/L	80		9060A	Total/NA
Alkalinity, Total	690		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.022		0.020		mg/L	1		SM 4500 P E	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.8	HF	0.1		SU	1		9040C	Total/NA
Temperature	19.3	HF	0.001		Degrees C	1		9040C	Total/NA

Client Sample ID: DUP3-20170411 — Lab Sample ID: 480-116033-14

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116033-1

Client Sample ID: TRIP BLANKS **Lab Sample ID: 480-116033-15**

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116033-1

Client Sample ID: MW-261S-20170411
Date Collected: 04/11/17 10:35
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/17/17 13:19	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/17/17 13:19	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/17/17 13:19	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/17/17 13:19	1
1,1-Dichloroethane	ND		1.0		ug/L			04/17/17 13:19	1
1,1-Dichloroethene	ND		1.0		ug/L			04/17/17 13:19	1
1,1-Dichloropropene	ND		1.0		ug/L			04/17/17 13:19	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/17/17 13:19	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/17/17 13:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/17/17 13:19	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/17/17 13:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/17/17 13:19	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/17/17 13:19	1
1,2-Dichloroethane	ND		1.0		ug/L			04/17/17 13:19	1
1,2-Dichloropropane	ND		1.0		ug/L			04/17/17 13:19	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/17/17 13:19	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/17/17 13:19	1
1,3-Dichloropropane	ND		1.0		ug/L			04/17/17 13:19	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/17/17 13:19	1
1,4-Dioxane	ND		50		ug/L			04/17/17 13:19	1
2,2-Dichloropropane	ND		1.0		ug/L			04/17/17 13:19	1
2-Butanone (MEK)	ND	*	10		ug/L			04/17/17 13:19	1
2-Chlorotoluene	ND		1.0		ug/L			04/17/17 13:19	1
2-Hexanone	ND		10		ug/L			04/17/17 13:19	1
4-Chlorotoluene	ND		1.0		ug/L			04/17/17 13:19	1
4-Isopropyltoluene	ND		1.0		ug/L			04/17/17 13:19	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/17/17 13:19	1
Acetone	ND	*	50		ug/L			04/17/17 13:19	1
Benzene	ND		1.0		ug/L			04/17/17 13:19	1
Bromobenzene	ND		1.0		ug/L			04/17/17 13:19	1
Bromoform	ND	*	1.0		ug/L			04/17/17 13:19	1
Bromomethane	ND		2.0		ug/L			04/17/17 13:19	1
Carbon disulfide	ND		10		ug/L			04/17/17 13:19	1
Carbon tetrachloride	ND		1.0		ug/L			04/17/17 13:19	1
Chlorobenzene	ND		1.0		ug/L			04/17/17 13:19	1
Chlorobromomethane	ND		1.0		ug/L			04/17/17 13:19	1
Chlorodibromomethane	ND		0.50		ug/L			04/17/17 13:19	1
Chloroethane	ND		2.0		ug/L			04/17/17 13:19	1
Chloroform	ND		1.0		ug/L			04/17/17 13:19	1
Chloromethane	ND		2.0		ug/L			04/17/17 13:19	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/17/17 13:19	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/17/17 13:19	1
Dichlorobromomethane	ND		0.50		ug/L			04/17/17 13:19	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/17/17 13:19	1
Ethyl ether	ND		1.0		ug/L			04/17/17 13:19	1
Ethylbenzene	**3.3**		1.0		ug/L			04/17/17 13:19	1
Ethylene Dibromide	ND		1.0		ug/L			04/17/17 13:19	1
Hexachlorobutadiene	ND		0.40		ug/L			04/17/17 13:19	1
Isopropyl ether	ND		10		ug/L			04/17/17 13:19	1

Client Sample ID: MW-261S-20170411
Date Collected: 04/11/17 10:35
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/17/17 13:19	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/17/17 13:19	1
Methylene Chloride	ND		1.0		ug/L			04/17/17 13:19	1
m-Xylene & p-Xylene	**11**		2.0		ug/L			04/17/17 13:19	1
Naphthalene	ND		5.0		ug/L			04/17/17 13:19	1
n-Butylbenzene	ND		1.0		ug/L			04/17/17 13:19	1
N-Propylbenzene	ND		1.0		ug/L			04/17/17 13:19	1
o-Xylene	**2.2**		1.0		ug/L			04/17/17 13:19	1
sec-Butylbenzene	ND		1.0		ug/L			04/17/17 13:19	1
Styrene	ND		1.0		ug/L			04/17/17 13:19	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/17/17 13:19	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/17/17 13:19	1
tert-Butylbenzene	ND		1.0		ug/L			04/17/17 13:19	1
Tetrachloroethene	ND		1.0		ug/L			04/17/17 13:19	1
Tetrahydrofuran	ND	*	10		ug/L			04/17/17 13:19	1
Toluene	**1.6**		1.0		ug/L			04/17/17 13:19	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/17/17 13:19	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/17/17 13:19	1
Trichloroethene	ND		1.0		ug/L			04/17/17 13:19	1
Trichlorofluoromethane	ND		1.0		ug/L			04/17/17 13:19	1
Vinyl chloride	ND		1.0		ug/L			04/17/17 13:19	1
Dibromomethane	ND		1.0		ug/L			04/17/17 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/17/17 13:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*04/17/17 13:19*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*04/17/17 13:19*	*1*

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**2.2**		0.20		ug/L		04/14/17 17:35	04/18/17 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*97*		*46 - 130*	*04/14/17 17:35*	*04/18/17 19:19*	*1*

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**43**		0.050		mg/L		04/13/17 09:05	04/14/17 00:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21**		1.0		mg/L			04/19/17 12:58	2
Sulfate	ND		4.0		mg/L			04/19/17 12:58	2
Ammonia	**0.35**		0.20		mg/L		04/13/17 16:42	04/14/17 08:46	1
Nitrate as N	ND		0.050		mg/L			04/12/17 18:20	1
TOC Result 1	**2.8**		1.0		mg/L			04/15/17 06:14	1
TOC Result 2	**3.1**		1.0		mg/L			04/15/17 06:14	1
Total Organic Carbon - Duplicates	**2.9**		1.0		mg/L			04/15/17 06:14	1
Alkalinity, Total	**380**		5.0		mg/L			04/14/17 23:10	1
ortho-Phosphate	ND		0.020		mg/L			04/12/17 22:00	1

Client Sample ID: MW-261S-20170411

Lab Sample ID: 480-116033-1

Date Collected: 04/11/17 10:35

Matrix: Water

Date Received: 04/12/17 10:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.1**	**HF**	0.1		SU			04/14/17 23:45	1
Temperature	**19.7**	**HF**	0.001		Degrees C			04/14/17 23:45	1

Client Sample ID: MW-266Ma-20170411

Lab Sample ID: 480-116033-2

Date Collected: 04/11/17 07:55

Matrix: Water

Date Received: 04/12/17 10:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/17/17 13:43	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/17/17 13:43	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/17/17 13:43	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/17/17 13:43	1
1,1-Dichloroethane	ND		1.0		ug/L			04/17/17 13:43	1
1,1-Dichloroethene	ND		1.0		ug/L			04/17/17 13:43	1
1,1-Dichloropropene	ND		1.0		ug/L			04/17/17 13:43	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/17/17 13:43	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/17/17 13:43	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/17/17 13:43	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/17/17 13:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/17/17 13:43	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/17/17 13:43	1
1,2-Dichloroethane	ND		1.0		ug/L			04/17/17 13:43	1
1,2-Dichloropropane	ND		1.0		ug/L			04/17/17 13:43	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/17/17 13:43	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/17/17 13:43	1
1,3-Dichloropropane	ND		1.0		ug/L			04/17/17 13:43	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/17/17 13:43	1
1,4-Dioxane	ND		50		ug/L			04/17/17 13:43	1
2,2-Dichloropropane	ND		1.0		ug/L			04/17/17 13:43	1
2-Butanone (MEK)	ND	*	10		ug/L			04/17/17 13:43	1
2-Chlorotoluene	ND		1.0		ug/L			04/17/17 13:43	1
2-Hexanone	ND		10		ug/L			04/17/17 13:43	1
4-Chlorotoluene	ND		1.0		ug/L			04/17/17 13:43	1
4-Isopropyltoluene	ND		1.0		ug/L			04/17/17 13:43	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/17/17 13:43	1
Acetone	ND	*	50		ug/L			04/17/17 13:43	1
Benzene	ND		1.0		ug/L			04/17/17 13:43	1
Bromobenzene	ND		1.0		ug/L			04/17/17 13:43	1
Bromoform	ND	*	1.0		ug/L			04/17/17 13:43	1
Bromomethane	ND		2.0		ug/L			04/17/17 13:43	1
Carbon disulfide	ND		10		ug/L			04/17/17 13:43	1
Carbon tetrachloride	ND		1.0		ug/L			04/17/17 13:43	1
Chlorobenzene	ND		1.0		ug/L			04/17/17 13:43	1
Chlorobromomethane	ND		1.0		ug/L			04/17/17 13:43	1
Chlorodibromomethane	ND		0.50		ug/L			04/17/17 13:43	1
Chloroethane	ND		2.0		ug/L			04/17/17 13:43	1
Chloroform	ND		1.0		ug/L			04/17/17 13:43	1
Chloromethane	ND		2.0		ug/L			04/17/17 13:43	1
cis-1,2-Dichloroethene	**6.1**		1.0		ug/L			04/17/17 13:43	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/17/17 13:43	1

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116033-1

Client Sample ID: MW-266Ma-20170411
Date Collected: 04/11/17 07:55
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

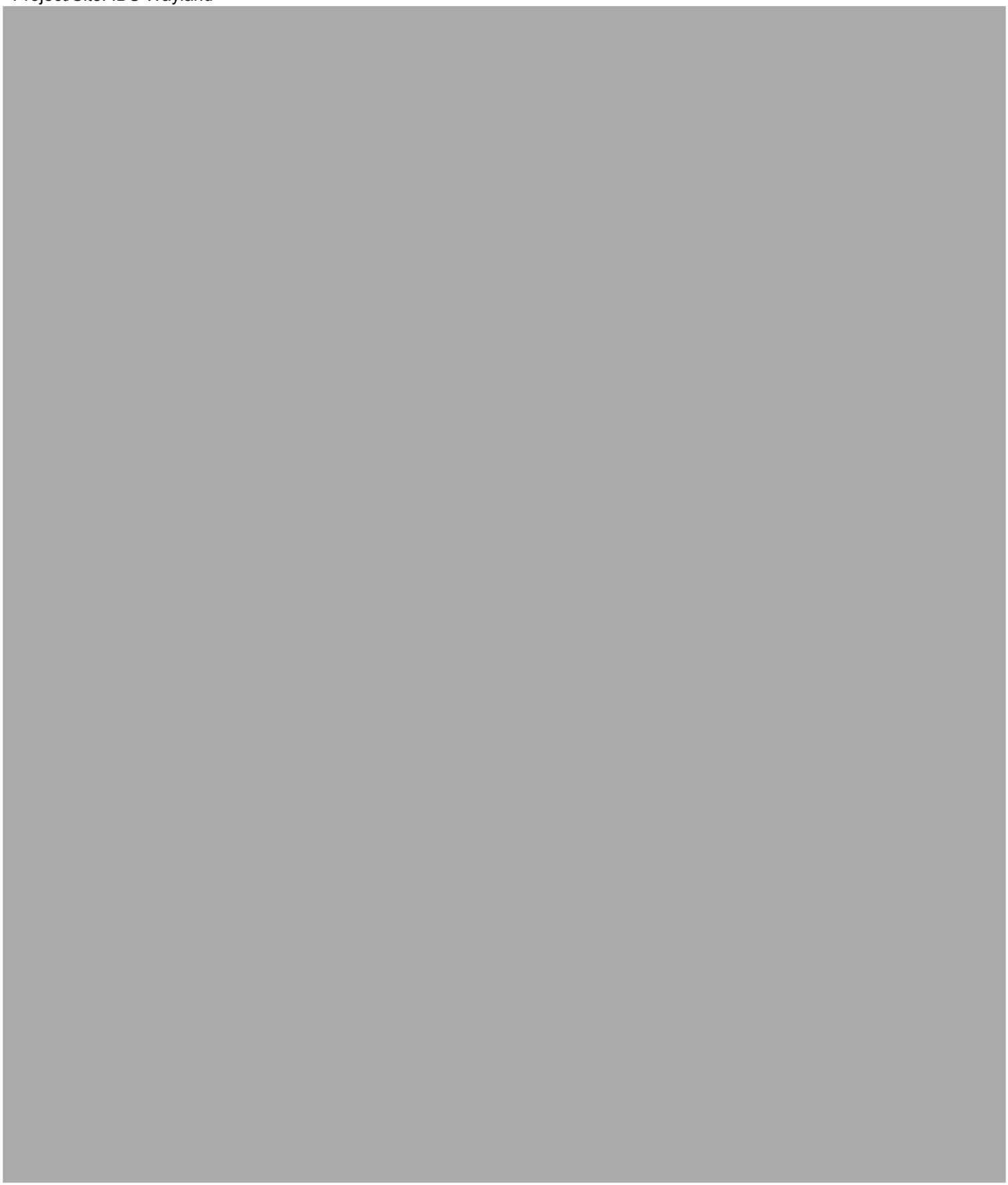
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50		ug/L			04/17/17 13:43	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/17/17 13:43	1
Ethyl ether	ND		1.0		ug/L			04/17/17 13:43	1
Ethylbenzene	ND		1.0		ug/L			04/17/17 13:43	1
Ethylene Dibromide	ND		1.0		ug/L			04/17/17 13:43	1
Hexachlorobutadiene	ND		0.40		ug/L			04/17/17 13:43	1
Isopropyl ether	ND		10		ug/L			04/17/17 13:43	1
Isopropylbenzene	ND		1.0		ug/L			04/17/17 13:43	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/17/17 13:43	1
Methylene Chloride	ND		1.0		ug/L			04/17/17 13:43	1
m-Xylene & p-Xylene	**2.9**		2.0		ug/L			04/17/17 13:43	1
Naphthalene	ND		5.0		ug/L			04/17/17 13:43	1
n-Butylbenzene	ND		1.0		ug/L			04/17/17 13:43	1
N-Propylbenzene	ND		1.0		ug/L			04/17/17 13:43	1
o-Xylene	ND		1.0		ug/L			04/17/17 13:43	1
sec-Butylbenzene	ND		1.0		ug/L			04/17/17 13:43	1
Styrene	ND		1.0		ug/L			04/17/17 13:43	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/17/17 13:43	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/17/17 13:43	1
tert-Butylbenzene	ND		1.0		ug/L			04/17/17 13:43	1
Tetrachloroethene	ND		1.0		ug/L			04/17/17 13:43	1
Tetrahydrofuran	ND	*	10		ug/L			04/17/17 13:43	1
Toluene	**9.2**		1.0		ug/L			04/17/17 13:43	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/17/17 13:43	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/17/17 13:43	1
Trichloroethene	ND		1.0		ug/L			04/17/17 13:43	1
Trichlorofluoromethane	ND		1.0		ug/L			04/17/17 13:43	1
Vinyl chloride	**5.5**		1.0		ug/L			04/17/17 13:43	1
Dibromomethane	ND		1.0		ug/L			04/17/17 13:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/17/17 13:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/17/17 13:43*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/17/17 13:43*	*1*

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.47**		0.20		ug/L		04/14/17 17:35	04/18/17 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*97*		*46 - 130*	*04/14/17 17:35*	*04/18/17 19:35*	*1*



Client Sample ID: MW-552-20170411
Date Collected: 04/11/17 11:30
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/17/17 14:06	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/17/17 14:06	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/17/17 14:06	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/17/17 14:06	1
1,1-Dichloroethane	ND		1.0		ug/L			04/17/17 14:06	1
1,1-Dichloroethene	ND		1.0		ug/L			04/17/17 14:06	1
1,1-Dichloropropene	ND		1.0		ug/L			04/17/17 14:06	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/17/17 14:06	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/17/17 14:06	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/17/17 14:06	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/17/17 14:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/17/17 14:06	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/17/17 14:06	1
1,2-Dichloroethane	ND		1.0		ug/L			04/17/17 14:06	1
1,2-Dichloropropane	ND		1.0		ug/L			04/17/17 14:06	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/17/17 14:06	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/17/17 14:06	1
1,3-Dichloropropane	ND		1.0		ug/L			04/17/17 14:06	1

Client Sample ID: MW-552-20170411
Date Collected: 04/11/17 11:30
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0		ug/L			04/17/17 14:06	1
1,4-Dioxane	ND		50		ug/L			04/17/17 14:06	1
2,2-Dichloropropane	ND		1.0		ug/L			04/17/17 14:06	1
2-Butanone (MEK)	ND	*	10		ug/L			04/17/17 14:06	1
2-Chlorotoluene	ND		1.0		ug/L			04/17/17 14:06	1
2-Hexanone	ND		10		ug/L			04/17/17 14:06	1
4-Chlorotoluene	ND		1.0		ug/L			04/17/17 14:06	1
4-Isopropyltoluene	ND		1.0		ug/L			04/17/17 14:06	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/17/17 14:06	1
Acetone	ND	*	50		ug/L			04/17/17 14:06	1
Benzene	ND		1.0		ug/L			04/17/17 14:06	1
Bromobenzene	ND		1.0		ug/L			04/17/17 14:06	1
Bromoform	ND	*	1.0		ug/L			04/17/17 14:06	1
Bromomethane	ND		2.0		ug/L			04/17/17 14:06	1
Carbon disulfide	ND		10		ug/L			04/17/17 14:06	1
Carbon tetrachloride	ND		1.0		ug/L			04/17/17 14:06	1
Chlorobenzene	ND		1.0		ug/L			04/17/17 14:06	1
Chlorobromomethane	ND		1.0		ug/L			04/17/17 14:06	1
Chlorodibromomethane	ND		0.50		ug/L			04/17/17 14:06	1
Chloroethane	ND		2.0		ug/L			04/17/17 14:06	1
Chloroform	ND		1.0		ug/L			04/17/17 14:06	1
Chloromethane	ND		2.0		ug/L			04/17/17 14:06	1
cis-1,2-Dichloroethene	**1.3**		1.0		ug/L			04/17/17 14:06	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/17/17 14:06	1
Dichlorobromomethane	ND		0.50		ug/L			04/17/17 14:06	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/17/17 14:06	1
Ethyl ether	ND		1.0		ug/L			04/17/17 14:06	1
Ethylbenzene	ND		1.0		ug/L			04/17/17 14:06	1
Ethylene Dibromide	ND		1.0		ug/L			04/17/17 14:06	1
Hexachlorobutadiene	ND		0.40		ug/L			04/17/17 14:06	1
Isopropyl ether	ND		10		ug/L			04/17/17 14:06	1
Isopropylbenzene	ND		1.0		ug/L			04/17/17 14:06	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/17/17 14:06	1
Methylene Chloride	ND		1.0		ug/L			04/17/17 14:06	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/17/17 14:06	1
Naphthalene	ND		5.0		ug/L			04/17/17 14:06	1
n-Butylbenzene	ND		1.0		ug/L			04/17/17 14:06	1
N-Propylbenzene	ND		1.0		ug/L			04/17/17 14:06	1
o-Xylene	ND		1.0		ug/L			04/17/17 14:06	1
sec-Butylbenzene	ND		1.0		ug/L			04/17/17 14:06	1
Styrene	ND		1.0		ug/L			04/17/17 14:06	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/17/17 14:06	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/17/17 14:06	1
tert-Butylbenzene	ND		1.0		ug/L			04/17/17 14:06	1
Tetrachloroethene	ND		1.0		ug/L			04/17/17 14:06	1
Tetrahydrofuran	ND	*	10		ug/L			04/17/17 14:06	1
Toluene	ND		1.0		ug/L			04/17/17 14:06	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/17/17 14:06	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/17/17 14:06	1

Client Sample ID: MW-552-20170411

Lab Sample ID: 480-116033-4

Date Collected: 04/11/17 11:30

Matrix: Water

Date Received: 04/12/17 10:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0		ug/L			04/17/17 14:06	1
Trichlorofluoromethane	ND		1.0		ug/L			04/17/17 14:06	1
Vinyl chloride	ND		1.0		ug/L			04/17/17 14:06	1
Dibromomethane	ND		1.0		ug/L			04/17/17 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*04/17/17 14:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*04/17/17 14:06*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/17/17 14:06*	*1*

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.6**		0.20		ug/L		04/14/17 17:35	04/18/17 19:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*95*		*46 - 130*	*04/14/17 17:35*	*04/18/17 19:52*	*1*

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**20**		0.050		mg/L		04/13/17 09:05	04/14/17 00:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13**		1.0		mg/L			04/19/17 13:06	2
Sulfate	ND		4.0		mg/L			04/19/17 13:06	2
Ammonia	ND		0.20		mg/L		04/13/17 16:42	04/14/17 08:47	1
Nitrate as N	ND		0.050		mg/L			04/12/17 18:48	1
TOC Result 1	**2.0**		1.0		mg/L			04/15/17 07:10	1
TOC Result 2	**2.2**		1.0		mg/L			04/15/17 07:10	1
Total Organic Carbon - Duplicates	**2.1**		1.0		mg/L			04/15/17 07:10	1
Alkalinity, Total	**380**	**F1**	5.0		mg/L			04/14/17 23:24	1
ortho-Phosphate	ND		0.020		mg/L			04/12/17 22:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.3**	**HF**	0.1		SU			04/14/17 23:48	1
Temperature	**19.3**	**HF**	0.001		Degrees C			04/14/17 23:48	1

Client Sample ID: MW-553-20170411

Lab Sample ID: 480-116033-5

Date Collected: 04/11/17 12:30

Matrix: Water

Date Received: 04/12/17 10:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/16/17 17:36	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/16/17 17:36	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/16/17 17:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/16/17 17:36	1
1,1-Dichloroethane	ND		1.0		ug/L			04/16/17 17:36	1
1,1-Dichloroethene	ND		1.0		ug/L			04/16/17 17:36	1
1,1-Dichloropropene	ND		1.0		ug/L			04/16/17 17:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/16/17 17:36	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/16/17 17:36	1

Client Sample ID: MW-553-20170411
Date Collected: 04/11/17 12:30
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/16/17 17:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/16/17 17:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/16/17 17:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/16/17 17:36	1
1,2-Dichloroethane	ND		1.0		ug/L			04/16/17 17:36	1
1,2-Dichloropropane	ND		1.0		ug/L			04/16/17 17:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/16/17 17:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/16/17 17:36	1
1,3-Dichloropropane	ND		1.0		ug/L			04/16/17 17:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/16/17 17:36	1
1,4-Dioxane	ND		50		ug/L			04/16/17 17:36	1
2,2-Dichloropropane	ND		1.0		ug/L			04/16/17 17:36	1
2-Butanone (MEK)	ND	*	10		ug/L			04/16/17 17:36	1
2-Chlorotoluene	ND		1.0		ug/L			04/16/17 17:36	1
2-Hexanone	ND		10		ug/L			04/16/17 17:36	1
4-Chlorotoluene	ND		1.0		ug/L			04/16/17 17:36	1
4-Isopropyltoluene	ND		1.0		ug/L			04/16/17 17:36	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/16/17 17:36	1
Acetone	ND	*	50		ug/L			04/16/17 17:36	1
Benzene	ND		1.0		ug/L			04/16/17 17:36	1
Bromobenzene	ND		1.0		ug/L			04/16/17 17:36	1
Bromoform	ND	*	1.0		ug/L			04/16/17 17:36	1
Bromomethane	ND		2.0		ug/L			04/16/17 17:36	1
Carbon disulfide	ND		10		ug/L			04/16/17 17:36	1
Carbon tetrachloride	ND		1.0		ug/L			04/16/17 17:36	1
Chlorobenzene	ND		1.0		ug/L			04/16/17 17:36	1
Chlorobromomethane	ND		1.0		ug/L			04/16/17 17:36	1
Chlorodibromomethane	ND		0.50		ug/L			04/16/17 17:36	1
Chloroethane	ND		2.0		ug/L			04/16/17 17:36	1
Chloroform	ND		1.0		ug/L			04/16/17 17:36	1
Chloromethane	ND		2.0		ug/L			04/16/17 17:36	1
cis-1,2-Dichloroethene	**45**		1.0		ug/L			04/16/17 17:36	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 17:36	1
Dichlorobromomethane	ND		0.50		ug/L			04/16/17 17:36	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/16/17 17:36	1
Ethyl ether	ND		1.0		ug/L			04/16/17 17:36	1
Ethylbenzene	**3.5**		1.0		ug/L			04/16/17 17:36	1
Ethylene Dibromide	ND		1.0		ug/L			04/16/17 17:36	1
Hexachlorobutadiene	ND		0.40		ug/L			04/16/17 17:36	1
Isopropyl ether	ND		10		ug/L			04/16/17 17:36	1
Isopropylbenzene	ND		1.0		ug/L			04/16/17 17:36	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/16/17 17:36	1
Methylene Chloride	ND		1.0		ug/L			04/16/17 17:36	1
m-Xylene & p-Xylene	**13**		2.0		ug/L			04/16/17 17:36	1
Naphthalene	ND		5.0		ug/L			04/16/17 17:36	1
n-Butylbenzene	ND		1.0		ug/L			04/16/17 17:36	1
N-Propylbenzene	ND		1.0		ug/L			04/16/17 17:36	1
o-Xylene	**2.4**		1.0		ug/L			04/16/17 17:36	1
sec-Butylbenzene	ND		1.0		ug/L			04/16/17 17:36	1

Client Sample ID: MW-553-20170411

Lab Sample ID: 480-116033-5

Date Collected: 04/11/17 12:30

Matrix: Water

Date Received: 04/12/17 10:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0		ug/L			04/16/17 17:36	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/16/17 17:36	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/16/17 17:36	1
tert-Butylbenzene	ND		1.0		ug/L			04/16/17 17:36	1
Tetrachloroethene	ND		1.0		ug/L			04/16/17 17:36	1
Tetrahydrofuran	ND	*	10		ug/L			04/16/17 17:36	1
Toluene	**9.5**		1.0		ug/L			04/16/17 17:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 17:36	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 17:36	1
Trichloroethene	ND		1.0		ug/L			04/16/17 17:36	1
Trichlorofluoromethane	ND		1.0		ug/L			04/16/17 17:36	1
Vinyl chloride	**11**		1.0		ug/L			04/16/17 17:36	1
Dibromomethane	ND		1.0		ug/L			04/16/17 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/16/17 17:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*04/16/17 17:36*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/16/17 17:36*	*1*

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**41**		0.050		mg/L		04/13/17 09:05	04/14/17 00:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19**		2.5		mg/L			04/19/17 13:14	5
Sulfate	ND		10		mg/L			04/19/17 13:14	5
Ammonia	**0.22**		0.20		mg/L		04/13/17 16:42	04/14/17 08:48	1
Nitrate as N	**0.061**		0.050		mg/L			04/13/17 00:37	1
TOC Result 1	**3.2**		1.0		mg/L			04/15/17 08:06	1
TOC Result 2	**3.4**		1.0		mg/L			04/15/17 08:06	1
Total Organic Carbon - Duplicates	**3.3**		1.0		mg/L			04/15/17 08:06	1
Alkalinity, Total	**770**		5.0		mg/L			04/14/17 23:38	1
ortho-Phosphate	ND		0.020		mg/L			04/12/17 22:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.3**	**HF**	0.1		SU			04/14/17 23:51	1
Temperature	**19.1**	**HF**	0.001		Degrees C			04/14/17 23:51	1

Client Sample ID: MW-560-20170411

Lab Sample ID: 480-116033-6

Date Collected: 04/11/17 09:55

Matrix: Water

Date Received: 04/12/17 10:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/16/17 18:00	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/16/17 18:00	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/16/17 18:00	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/16/17 18:00	1
1,1-Dichloroethane	ND		1.0		ug/L			04/16/17 18:00	1
1,1-Dichloroethene	ND		1.0		ug/L			04/16/17 18:00	1

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116033-1

Client Sample ID: MW-560-20170411
Date Collected: 04/11/17 09:55
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		1.0		ug/L			04/16/17 18:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/16/17 18:00	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/16/17 18:00	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/16/17 18:00	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/16/17 18:00	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/16/17 18:00	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/16/17 18:00	1
1,2-Dichloroethane	ND		1.0		ug/L			04/16/17 18:00	1
1,2-Dichloropropane	ND		1.0		ug/L			04/16/17 18:00	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/16/17 18:00	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/16/17 18:00	1
1,3-Dichloropropane	ND		1.0		ug/L			04/16/17 18:00	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/16/17 18:00	1
1,4-Dioxane	ND		50		ug/L			04/16/17 18:00	1
2,2-Dichloropropane	ND		1.0		ug/L			04/16/17 18:00	1
2-Butanone (MEK)	ND	*	10		ug/L			04/16/17 18:00	1
2-Chlorotoluene	ND		1.0		ug/L			04/16/17 18:00	1
2-Hexanone	ND		10		ug/L			04/16/17 18:00	1
4-Chlorotoluene	ND		1.0		ug/L			04/16/17 18:00	1
4-Isopropyltoluene	ND		1.0		ug/L			04/16/17 18:00	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/16/17 18:00	1
Acetone	ND	*	50		ug/L			04/16/17 18:00	1
Benzene	ND		1.0		ug/L			04/16/17 18:00	1
Bromobenzene	ND		1.0		ug/L			04/16/17 18:00	1
Bromoform	ND	*	1.0		ug/L			04/16/17 18:00	1
Bromomethane	ND		2.0		ug/L			04/16/17 18:00	1
Carbon disulfide	ND		10		ug/L			04/16/17 18:00	1
Carbon tetrachloride	ND		1.0		ug/L			04/16/17 18:00	1
Chlorobenzene	ND		1.0		ug/L			04/16/17 18:00	1
Chlorobromomethane	ND		1.0		ug/L			04/16/17 18:00	1
Chlorodibromomethane	ND		0.50		ug/L			04/16/17 18:00	1
Chloroethane	ND		2.0		ug/L			04/16/17 18:00	1
Chloroform	ND		1.0		ug/L			04/16/17 18:00	1
Chloromethane	ND		2.0		ug/L			04/16/17 18:00	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 18:00	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 18:00	1
Dichlorobromomethane	ND		0.50		ug/L			04/16/17 18:00	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/16/17 18:00	1
Ethyl ether	ND		1.0		ug/L			04/16/17 18:00	1
Ethylbenzene	ND		1.0		ug/L			04/16/17 18:00	1
Ethylene Dibromide	ND		1.0		ug/L			04/16/17 18:00	1
Hexachlorobutadiene	ND		0.40		ug/L			04/16/17 18:00	1
Isopropyl ether	ND		10		ug/L			04/16/17 18:00	1
Isopropylbenzene	ND		1.0		ug/L			04/16/17 18:00	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/16/17 18:00	1
Methylene Chloride	ND		1.0		ug/L			04/16/17 18:00	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/16/17 18:00	1
Naphthalene	ND		5.0		ug/L			04/16/17 18:00	1
n-Butylbenzene	ND		1.0		ug/L			04/16/17 18:00	1

Client Sample ID: MW-560-20170411

Date Collected: 04/11/17 09:55
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			04/16/17 18:00	1
o-Xylene	ND		1.0		ug/L			04/16/17 18:00	1
sec-Butylbenzene	ND		1.0		ug/L			04/16/17 18:00	1
Styrene	ND		1.0		ug/L			04/16/17 18:00	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/16/17 18:00	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/16/17 18:00	1
tert-Butylbenzene	ND		1.0		ug/L			04/16/17 18:00	1
Tetrachloroethene	ND		1.0		ug/L			04/16/17 18:00	1
Tetrahydrofuran	ND	*	10		ug/L			04/16/17 18:00	1
Toluene	ND		1.0		ug/L			04/16/17 18:00	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 18:00	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 18:00	1
Trichloroethene	ND		1.0		ug/L			04/16/17 18:00	1
Trichlorofluoromethane	ND		1.0		ug/L			04/16/17 18:00	1
Vinyl chloride	ND		1.0		ug/L			04/16/17 18:00	1
Dibromomethane	ND		1.0		ug/L			04/16/17 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/16/17 18:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/16/17 18:00*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/16/17 18:00*	*1*

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**6.6**		0.050		mg/L		04/13/17 09:05	04/14/17 00:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30**		0.50		mg/L			04/19/17 13:22	1
Sulfate	**4.0**		2.0		mg/L			04/19/17 13:22	1
Ammonia	**1.0**		0.20		mg/L		04/13/17 16:42	04/14/17 08:48	1
Nitrate as N	ND		0.050		mg/L			04/12/17 17:58	1
TOC Result 1	**2.5**		1.0		mg/L			04/15/17 08:34	1
TOC Result 2	**2.5**		1.0		mg/L			04/15/17 08:34	1
Total Organic Carbon - Duplicates	**2.5**		1.0		mg/L			04/15/17 08:34	1
Alkalinity, Total	**380**		5.0		mg/L			04/14/17 23:44	1
ortho-Phosphate	ND		0.020		mg/L			04/12/17 22:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.3**	**HF**	0.1		SU			04/14/17 23:54	1
Temperature	**18.9**	**HF**	0.001		Degrees C			04/14/17 23:54	1

Client Sample ID: MW-561-20170411

Date Collected: 04/11/17 13:10
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/17/17 14:30	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/17/17 14:30	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/17/17 14:30	1

Client Sample ID: MW-561-20170411
Date Collected: 04/11/17 13:10
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0		ug/L			04/17/17 14:30	1
1,1-Dichloroethane	ND		1.0		ug/L			04/17/17 14:30	1
1,1-Dichloroethene	ND		1.0		ug/L			04/17/17 14:30	1
1,1-Dichloropropene	ND		1.0		ug/L			04/17/17 14:30	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/17/17 14:30	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/17/17 14:30	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/17/17 14:30	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/17/17 14:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/17/17 14:30	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/17/17 14:30	1
1,2-Dichloroethane	ND		1.0		ug/L			04/17/17 14:30	1
1,2-Dichloropropane	ND		1.0		ug/L			04/17/17 14:30	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/17/17 14:30	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/17/17 14:30	1
1,3-Dichloropropane	ND		1.0		ug/L			04/17/17 14:30	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/17/17 14:30	1
1,4-Dioxane	ND		50		ug/L			04/17/17 14:30	1
2,2-Dichloropropane	ND		1.0		ug/L			04/17/17 14:30	1
2-Butanone (MEK)	ND	*	10		ug/L			04/17/17 14:30	1
2-Chlorotoluene	ND		1.0		ug/L			04/17/17 14:30	1
2-Hexanone	ND		10		ug/L			04/17/17 14:30	1
4-Chlorotoluene	ND		1.0		ug/L			04/17/17 14:30	1
4-Isopropyltoluene	ND		1.0		ug/L			04/17/17 14:30	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/17/17 14:30	1
Acetone	ND	*	50		ug/L			04/17/17 14:30	1
Benzene	ND		1.0		ug/L			04/17/17 14:30	1
Bromobenzene	ND		1.0		ug/L			04/17/17 14:30	1
Bromoform	ND	*	1.0		ug/L			04/17/17 14:30	1
Bromomethane	ND		2.0		ug/L			04/17/17 14:30	1
Carbon disulfide	ND		10		ug/L			04/17/17 14:30	1
Carbon tetrachloride	ND		1.0		ug/L			04/17/17 14:30	1
Chlorobenzene	ND		1.0		ug/L			04/17/17 14:30	1
Chlorobromomethane	ND		1.0		ug/L			04/17/17 14:30	1
Chlorodibromomethane	ND		0.50		ug/L			04/17/17 14:30	1
Chloroethane	ND		2.0		ug/L			04/17/17 14:30	1
Chloroform	ND		1.0		ug/L			04/17/17 14:30	1
Chloromethane	ND		2.0		ug/L			04/17/17 14:30	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/17/17 14:30	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/17/17 14:30	1
Dichlorobromomethane	ND		0.50		ug/L			04/17/17 14:30	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/17/17 14:30	1
Ethyl ether	ND		1.0		ug/L			04/17/17 14:30	1
Ethylbenzene	**1.5**		1.0		ug/L			04/17/17 14:30	1
Ethylene Dibromide	ND		1.0		ug/L			04/17/17 14:30	1
Hexachlorobutadiene	ND		0.40		ug/L			04/17/17 14:30	1
Isopropyl ether	ND		10		ug/L			04/17/17 14:30	1
Isopropylbenzene	ND		1.0		ug/L			04/17/17 14:30	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/17/17 14:30	1
Methylene Chloride	ND		1.0		ug/L			04/17/17 14:30	1

Client Sample ID: MW-561-20170411
Date Collected: 04/11/17 13:10
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	**5.5**		2.0		ug/L			04/17/17 14:30	1
Naphthalene	ND		5.0		ug/L			04/17/17 14:30	1
n-Butylbenzene	ND		1.0		ug/L			04/17/17 14:30	1
N-Propylbenzene	ND		1.0		ug/L			04/17/17 14:30	1
o-Xylene	**1.5**		1.0		ug/L			04/17/17 14:30	1
sec-Butylbenzene	ND		1.0		ug/L			04/17/17 14:30	1
Styrene	ND		1.0		ug/L			04/17/17 14:30	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/17/17 14:30	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/17/17 14:30	1
tert-Butylbenzene	ND		1.0		ug/L			04/17/17 14:30	1
Tetrachloroethene	ND		1.0		ug/L			04/17/17 14:30	1
Tetrahydrofuran	ND	*	10		ug/L			04/17/17 14:30	1
Toluene	ND		1.0		ug/L			04/17/17 14:30	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/17/17 14:30	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/17/17 14:30	1
Trichloroethene	ND		1.0		ug/L			04/17/17 14:30	1
Trichlorofluoromethane	ND		1.0		ug/L			04/17/17 14:30	1
Vinyl chloride	ND		1.0		ug/L			04/17/17 14:30	1
Dibromomethane	ND		1.0		ug/L			04/17/17 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/17/17 14:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*04/17/17 14:30*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/17/17 14:30*	*1*

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**92**		0.050		mg/L		04/13/17 09:05	04/14/17 00:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**36**		0.50		mg/L			04/19/17 13:30	1
Sulfate	ND		2.0		mg/L			04/19/17 13:30	1
Ammonia	**2.0**		0.20		mg/L		04/13/17 16:42	04/14/17 08:54	1
Nitrate as N	ND		0.050		mg/L			04/13/17 00:51	1
TOC Result 1	**4.9**		1.0		mg/L			04/15/17 09:02	1
TOC Result 2	**5.5**		1.0		mg/L			04/15/17 09:02	1
Total Organic Carbon - Duplicates	**5.2**		1.0		mg/L			04/15/17 09:02	1
Alkalinity, Total	**250**		5.0		mg/L			04/14/17 23:49	1
ortho-Phosphate	ND		0.020		mg/L			04/12/17 22:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.8**	**HF**	0.1		SU			04/14/17 23:57	1
Temperature	**18.9**	**HF**	0.001		Degrees C			04/14/17 23:57	1

Client Sample ID: MW-562-20170411
Date Collected: 04/11/17 13:30
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/16/17 18:47	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/16/17 18:47	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/16/17 18:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/16/17 18:47	1
1,1-Dichloroethane	ND		1.0		ug/L			04/16/17 18:47	1
1,1-Dichloroethene	ND		1.0		ug/L			04/16/17 18:47	1
1,1-Dichloropropene	ND		1.0		ug/L			04/16/17 18:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/16/17 18:47	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/16/17 18:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/16/17 18:47	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/16/17 18:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/16/17 18:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/16/17 18:47	1
1,2-Dichloroethane	ND		1.0		ug/L			04/16/17 18:47	1
1,2-Dichloropropane	ND		1.0		ug/L			04/16/17 18:47	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/16/17 18:47	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/16/17 18:47	1
1,3-Dichloropropane	ND		1.0		ug/L			04/16/17 18:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/16/17 18:47	1
1,4-Dioxane	ND		50		ug/L			04/16/17 18:47	1
2,2-Dichloropropane	ND		1.0		ug/L			04/16/17 18:47	1
2-Chlorotoluene	ND		1.0		ug/L			04/16/17 18:47	1
2-Hexanone	ND		10		ug/L			04/16/17 18:47	1
4-Chlorotoluene	ND		1.0		ug/L			04/16/17 18:47	1
4-Isopropyltoluene	ND		1.0		ug/L			04/16/17 18:47	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/16/17 18:47	1
Benzene	ND		1.0		ug/L			04/16/17 18:47	1
Bromobenzene	ND		1.0		ug/L			04/16/17 18:47	1
Bromoform	ND	*	1.0		ug/L			04/16/17 18:47	1
Bromomethane	ND		2.0		ug/L			04/16/17 18:47	1
Carbon disulfide	ND		10		ug/L			04/16/17 18:47	1
Carbon tetrachloride	ND		1.0		ug/L			04/16/17 18:47	1
Chlorobenzene	ND		1.0		ug/L			04/16/17 18:47	1
Chlorobromomethane	ND		1.0		ug/L			04/16/17 18:47	1
Chlorodibromomethane	ND		0.50		ug/L			04/16/17 18:47	1
Chloroethane	ND		2.0		ug/L			04/16/17 18:47	1
Chloroform	ND		1.0		ug/L			04/16/17 18:47	1
Chloromethane	ND		2.0		ug/L			04/16/17 18:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 18:47	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 18:47	1
Dichlorobromomethane	ND		0.50		ug/L			04/16/17 18:47	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/16/17 18:47	1
Ethyl ether	ND		1.0		ug/L			04/16/17 18:47	1
Ethylbenzene	ND		1.0		ug/L			04/16/17 18:47	1
Ethylene Dibromide	ND		1.0		ug/L			04/16/17 18:47	1
Hexachlorobutadiene	ND		0.40		ug/L			04/16/17 18:47	1
Isopropyl ether	ND		10		ug/L			04/16/17 18:47	1
Isopropylbenzene	ND		1.0		ug/L			04/16/17 18:47	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/16/17 18:47	1

Client Sample ID: MW-562-20170411
Date Collected: 04/11/17 13:30
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-8
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0		ug/L			04/16/17 18:47	1
m-Xylene & p-Xylene	**2.2**		2.0		ug/L			04/16/17 18:47	1
Naphthalene	ND		5.0		ug/L			04/16/17 18:47	1
n-Butylbenzene	ND		1.0		ug/L			04/16/17 18:47	1
N-Propylbenzene	ND		1.0		ug/L			04/16/17 18:47	1
o-Xylene	ND		1.0		ug/L			04/16/17 18:47	1
sec-Butylbenzene	ND		1.0		ug/L			04/16/17 18:47	1
Styrene	ND		1.0		ug/L			04/16/17 18:47	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/16/17 18:47	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/16/17 18:47	1
tert-Butylbenzene	ND		1.0		ug/L			04/16/17 18:47	1
Tetrachloroethene	ND		1.0		ug/L			04/16/17 18:47	1
Tetrahydrofuran	ND	*	10		ug/L			04/16/17 18:47	1
Toluene	**19**		1.0		ug/L			04/16/17 18:47	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 18:47	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 18:47	1
Trichloroethene	ND		1.0		ug/L			04/16/17 18:47	1
Trichlorofluoromethane	ND		1.0		ug/L			04/16/17 18:47	1
Vinyl chloride	ND		1.0		ug/L			04/16/17 18:47	1
Dibromomethane	ND		1.0		ug/L			04/16/17 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/16/17 18:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*04/16/17 18:47*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*04/16/17 18:47*	*1*

Method: 8260C - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	**540**		80		ug/L			04/17/17 22:56	8
Acetone	**2500**	*	400		ug/L			04/17/17 22:56	8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*04/17/17 22:56*	*8*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*04/17/17 22:56*	*8*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/17/17 22:56*	*8*

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**430**		0.050		mg/L		04/13/17 09:05	04/14/17 00:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45**		25		mg/L			04/19/17 13:38	50
Sulfate	ND		100		mg/L			04/19/17 13:38	50
Ammonia	**0.31**		0.20		mg/L		04/14/17 18:49	04/18/17 09:57	1
Nitrate as N	ND		0.050		mg/L			04/12/17 19:40	1
TOC Result 1	**2600**		80		mg/L			04/15/17 10:25	80
TOC Result 2	**2600**		80		mg/L			04/15/17 10:25	80
Total Organic Carbon - Duplicates	**2600**		80		mg/L			04/15/17 10:25	80
Alkalinity, Total	**850**		5.0		mg/L			04/14/17 23:59	1
ortho-Phosphate	**0.34**		0.040		mg/L			04/12/17 22:00	2

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.6	HF	0.1		SU			04/15/17 00:00	1
Temperature	19.0	HF	0.001		Degrees C			04/15/17 00:00	1

Client Sample ID: MW-563-20170411

Lab Sample ID: 480-116033-9

Date Collected: 04/11/17 09:15

Matrix: Water

Date Received: 04/12/17 10:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/16/17 19:10	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/16/17 19:10	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/16/17 19:10	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/16/17 19:10	1
1,1-Dichloroethane	ND		1.0		ug/L			04/16/17 19:10	1
1,1-Dichloroethene	ND		1.0		ug/L			04/16/17 19:10	1
1,1-Dichloropropene	ND		1.0		ug/L			04/16/17 19:10	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/16/17 19:10	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/16/17 19:10	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/16/17 19:10	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/16/17 19:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/16/17 19:10	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/16/17 19:10	1
1,2-Dichloroethane	ND		1.0		ug/L			04/16/17 19:10	1
1,2-Dichloropropane	ND		1.0		ug/L			04/16/17 19:10	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/16/17 19:10	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/16/17 19:10	1
1,3-Dichloropropane	ND		1.0		ug/L			04/16/17 19:10	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/16/17 19:10	1
1,4-Dioxane	ND		50		ug/L			04/16/17 19:10	1
2,2-Dichloropropane	ND		1.0		ug/L			04/16/17 19:10	1
2-Butanone (MEK)	ND	*	10		ug/L			04/16/17 19:10	1
2-Chlorotoluene	ND		1.0		ug/L			04/16/17 19:10	1
2-Hexanone	ND		10		ug/L			04/16/17 19:10	1
4-Chlorotoluene	ND		1.0		ug/L			04/16/17 19:10	1
4-Isopropyltoluene	ND		1.0		ug/L			04/16/17 19:10	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/16/17 19:10	1
Acetone	ND	*	50		ug/L			04/16/17 19:10	1
Benzene	ND		1.0		ug/L			04/16/17 19:10	1
Bromobenzene	ND		1.0		ug/L			04/16/17 19:10	1
Bromoform	ND	*	1.0		ug/L			04/16/17 19:10	1
Bromomethane	ND		2.0		ug/L			04/16/17 19:10	1
Carbon disulfide	ND		10		ug/L			04/16/17 19:10	1
Carbon tetrachloride	ND		1.0		ug/L			04/16/17 19:10	1
Chlorobenzene	ND		1.0		ug/L			04/16/17 19:10	1
Chlorobromomethane	ND		1.0		ug/L			04/16/17 19:10	1
Chlorodibromomethane	ND		0.50		ug/L			04/16/17 19:10	1
Chloroethane	ND		2.0		ug/L			04/16/17 19:10	1
Chloroform	ND		1.0		ug/L			04/16/17 19:10	1
Chloromethane	ND		2.0		ug/L			04/16/17 19:10	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 19:10	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 19:10	1
Dichlorobromomethane	ND		0.50		ug/L			04/16/17 19:10	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/16/17 19:10	1
Ethyl ether	ND		1.0		ug/L			04/16/17 19:10	1
Ethylbenzene	ND		1.0		ug/L			04/16/17 19:10	1

Client Sample ID: MW-563-20170411
Date Collected: 04/11/17 09:15
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylene Dibromide	ND		1.0		ug/L			04/16/17 19:10	1
Hexachlorobutadiene	ND		0.40		ug/L			04/16/17 19:10	1
Isopropyl ether	ND		10		ug/L			04/16/17 19:10	1
Isopropylbenzene	ND		1.0		ug/L			04/16/17 19:10	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/16/17 19:10	1
Methylene Chloride	ND		1.0		ug/L			04/16/17 19:10	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/16/17 19:10	1
Naphthalene	ND		5.0		ug/L			04/16/17 19:10	1
n-Butylbenzene	ND		1.0		ug/L			04/16/17 19:10	1
N-Propylbenzene	ND		1.0		ug/L			04/16/17 19:10	1
o-Xylene	ND		1.0		ug/L			04/16/17 19:10	1
sec-Butylbenzene	ND		1.0		ug/L			04/16/17 19:10	1
Styrene	ND		1.0		ug/L			04/16/17 19:10	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/16/17 19:10	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/16/17 19:10	1
tert-Butylbenzene	ND		1.0		ug/L			04/16/17 19:10	1
Tetrachloroethene	ND		1.0		ug/L			04/16/17 19:10	1
Tetrahydrofuran	ND	*	10		ug/L			04/16/17 19:10	1
Toluene	ND		1.0		ug/L			04/16/17 19:10	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 19:10	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 19:10	1
Trichloroethene	ND		1.0		ug/L			04/16/17 19:10	1
Trichlorofluoromethane	ND		1.0		ug/L			04/16/17 19:10	1
Vinyl chloride	ND		1.0		ug/L			04/16/17 19:10	1
Dibromomethane	ND		1.0		ug/L			04/16/17 19:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*04/16/17 19:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*04/16/17 19:10*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*04/16/17 19:10*	*1*

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**14**		0.050		mg/L		04/13/17 09:05	04/14/17 00:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11**		0.50		mg/L			04/19/17 14:19	1
Sulfate	**4.0**		2.0		mg/L			04/19/17 14:19	1
Ammonia	**0.47**		0.20		mg/L		04/13/17 16:42	04/14/17 08:56	1
Nitrate as N	ND		0.050		mg/L			04/12/17 17:49	1
TOC Result 1	ND		1.0		mg/L			04/17/17 15:48	1
TOC Result 2	ND		1.0		mg/L			04/17/17 15:48	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/17/17 15:48	1
Alkalinity, Total	**79**		5.0		mg/L			04/15/17 00:15	1
ortho-Phosphate	ND		0.020		mg/L			04/12/17 22:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**7.1**	**HF**	0.1		SU			04/15/17 00:02	1
Temperature	**18.8**	**HF**	0.001		Degrees C			04/15/17 00:02	1

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116033-1

Client Sample ID: REW-8-20170411
Date Collected: 04/11/17 10:40
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/16/17 19:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/16/17 19:34	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/16/17 19:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/16/17 19:34	1
1,1-Dichloroethane	ND		1.0		ug/L			04/16/17 19:34	1
1,1-Dichloroethene	ND		1.0		ug/L			04/16/17 19:34	1
1,1-Dichloropropene	ND		1.0		ug/L			04/16/17 19:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/16/17 19:34	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/16/17 19:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/16/17 19:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/16/17 19:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/16/17 19:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/16/17 19:34	1
1,2-Dichloroethane	ND		1.0		ug/L			04/16/17 19:34	1
1,2-Dichloropropane	ND		1.0		ug/L			04/16/17 19:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/16/17 19:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/16/17 19:34	1
1,3-Dichloropropane	ND		1.0		ug/L			04/16/17 19:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/16/17 19:34	1
1,4-Dioxane	ND		50		ug/L			04/16/17 19:34	1
2,2-Dichloropropane	ND		1.0		ug/L			04/16/17 19:34	1
2-Butanone (MEK)	ND	*	10		ug/L			04/16/17 19:34	1
2-Chlorotoluene	ND		1.0		ug/L			04/16/17 19:34	1
2-Hexanone	ND		10		ug/L			04/16/17 19:34	1
4-Chlorotoluene	ND		1.0		ug/L			04/16/17 19:34	1
4-Isopropyltoluene	ND		1.0		ug/L			04/16/17 19:34	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/16/17 19:34	1
Acetone	ND	*	50		ug/L			04/16/17 19:34	1
Benzene	ND		1.0		ug/L			04/16/17 19:34	1
Bromobenzene	ND		1.0		ug/L			04/16/17 19:34	1
Bromoform	ND	*	1.0		ug/L			04/16/17 19:34	1
Bromomethane	ND		2.0		ug/L			04/16/17 19:34	1
Carbon disulfide	ND		10		ug/L			04/16/17 19:34	1
Carbon tetrachloride	ND		1.0		ug/L			04/16/17 19:34	1
Chlorobenzene	ND		1.0		ug/L			04/16/17 19:34	1
Chlorobromomethane	ND		1.0		ug/L			04/16/17 19:34	1
Chlorodibromomethane	ND		0.50		ug/L			04/16/17 19:34	1
Chloroethane	ND		2.0		ug/L			04/16/17 19:34	1
Chloroform	ND		1.0		ug/L			04/16/17 19:34	1
Chloromethane	ND		2.0		ug/L			04/16/17 19:34	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 19:34	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 19:34	1
Dichlorobromomethane	ND		0.50		ug/L			04/16/17 19:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/16/17 19:34	1
Ethyl ether	ND		1.0		ug/L			04/16/17 19:34	1
Ethylbenzene	ND		1.0		ug/L			04/16/17 19:34	1
Ethylene Dibromide	ND		1.0		ug/L			04/16/17 19:34	1
Hexachlorobutadiene	ND		0.40		ug/L			04/16/17 19:34	1
Isopropyl ether	ND		10		ug/L			04/16/17 19:34	1

Client Sample ID: REW-8-20170411
Date Collected: 04/11/17 10:40
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/16/17 19:34	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/16/17 19:34	1
Methylene Chloride	ND		1.0		ug/L			04/16/17 19:34	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/16/17 19:34	1
Naphthalene	**31**		5.0		ug/L			04/16/17 19:34	1
n-Butylbenzene	ND		1.0		ug/L			04/16/17 19:34	1
N-Propylbenzene	ND		1.0		ug/L			04/16/17 19:34	1
o-Xylene	ND		1.0		ug/L			04/16/17 19:34	1
sec-Butylbenzene	ND		1.0		ug/L			04/16/17 19:34	1
Styrene	ND		1.0		ug/L			04/16/17 19:34	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/16/17 19:34	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/16/17 19:34	1
tert-Butylbenzene	ND		1.0		ug/L			04/16/17 19:34	1
Tetrachloroethene	ND		1.0		ug/L			04/16/17 19:34	1
Tetrahydrofuran	ND	*	10		ug/L			04/16/17 19:34	1
Toluene	ND		1.0		ug/L			04/16/17 19:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 19:34	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 19:34	1
Trichloroethene	ND		1.0		ug/L			04/16/17 19:34	1
Trichlorofluoromethane	ND		1.0		ug/L			04/16/17 19:34	1
Vinyl chloride	ND		1.0		ug/L			04/16/17 19:34	1
Dibromomethane	ND		1.0		ug/L			04/16/17 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/16/17 19:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*04/16/17 19:34*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*04/16/17 19:34*	*1*

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**8.6**		0.050		mg/L		04/13/17 09:05	04/14/17 00:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1.6**		0.50		mg/L			04/19/17 14:27	1
Sulfate	**7.0**		2.0		mg/L			04/19/17 14:27	1
Ammonia	**0.59**		0.20		mg/L		04/14/17 19:06	04/18/17 11:10	1
Nitrate as N	**0.13**		0.050		mg/L			04/13/17 00:05	1
TOC Result 1	**3.4**		1.0		mg/L			04/15/17 12:17	1
TOC Result 2	**3.4**		1.0		mg/L			04/15/17 12:17	1
Total Organic Carbon - Duplicates	**3.4**		1.0		mg/L			04/15/17 12:17	1
Alkalinity, Total	**23**		5.0		mg/L			04/15/17 00:19	1
ortho-Phosphate	**0.031**		0.020		mg/L			04/12/17 22:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.7**	**HF**	0.1		SU			04/15/17 00:05	1
Temperature	**18.6**	**HF**	0.001		Degrees C			04/15/17 00:05	1

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116033-1

Client Sample ID: REW-9-20170411
Date Collected: 04/11/17 11:20
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/16/17 19:57	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/16/17 19:57	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/16/17 19:57	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/16/17 19:57	1
1,1-Dichloroethane	ND		1.0		ug/L			04/16/17 19:57	1
1,1-Dichloroethene	ND		1.0		ug/L			04/16/17 19:57	1
1,1-Dichloropropene	ND		1.0		ug/L			04/16/17 19:57	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/16/17 19:57	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/16/17 19:57	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/16/17 19:57	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/16/17 19:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/16/17 19:57	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/16/17 19:57	1
1,2-Dichloroethane	ND		1.0		ug/L			04/16/17 19:57	1
1,2-Dichloropropane	ND		1.0		ug/L			04/16/17 19:57	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/16/17 19:57	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/16/17 19:57	1
1,3-Dichloropropane	ND		1.0		ug/L			04/16/17 19:57	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/16/17 19:57	1
1,4-Dioxane	ND		50		ug/L			04/16/17 19:57	1
2,2-Dichloropropane	ND		1.0		ug/L			04/16/17 19:57	1
2-Butanone (MEK)	ND	*	10		ug/L			04/16/17 19:57	1
2-Chlorotoluene	ND		1.0		ug/L			04/16/17 19:57	1
2-Hexanone	ND		10		ug/L			04/16/17 19:57	1
4-Chlorotoluene	ND		1.0		ug/L			04/16/17 19:57	1
4-Isopropyltoluene	ND		1.0		ug/L			04/16/17 19:57	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/16/17 19:57	1
Acetone	ND	*	50		ug/L			04/16/17 19:57	1
Benzene	ND		1.0		ug/L			04/16/17 19:57	1
Bromobenzene	ND		1.0		ug/L			04/16/17 19:57	1
Bromoform	ND	*	1.0		ug/L			04/16/17 19:57	1
Bromomethane	ND		2.0		ug/L			04/16/17 19:57	1
Carbon disulfide	ND		10		ug/L			04/16/17 19:57	1
Carbon tetrachloride	ND		1.0		ug/L			04/16/17 19:57	1
Chlorobenzene	ND		1.0		ug/L			04/16/17 19:57	1
Chlorobromomethane	ND		1.0		ug/L			04/16/17 19:57	1
Chlorodibromomethane	ND		0.50		ug/L			04/16/17 19:57	1
Chloroethane	ND		2.0		ug/L			04/16/17 19:57	1
Chloroform	ND		1.0		ug/L			04/16/17 19:57	1
Chloromethane	ND		2.0		ug/L			04/16/17 19:57	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 19:57	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 19:57	1
Dichlorobromomethane	ND		0.50		ug/L			04/16/17 19:57	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/16/17 19:57	1
Ethyl ether	ND		1.0		ug/L			04/16/17 19:57	1
Ethylbenzene	ND		1.0		ug/L			04/16/17 19:57	1
Ethylene Dibromide	ND		1.0		ug/L			04/16/17 19:57	1
Hexachlorobutadiene	ND		0.40		ug/L			04/16/17 19:57	1
Isopropyl ether	ND		10		ug/L			04/16/17 19:57	1

Client Sample ID: REW-9-20170411
Date Collected: 04/11/17 11:20
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-11
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/16/17 19:57	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/16/17 19:57	1
Methylene Chloride	ND		1.0		ug/L			04/16/17 19:57	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/16/17 19:57	1
Naphthalene	ND		5.0		ug/L			04/16/17 19:57	1
n-Butylbenzene	ND		1.0		ug/L			04/16/17 19:57	1
N-Propylbenzene	ND		1.0		ug/L			04/16/17 19:57	1
o-Xylene	ND		1.0		ug/L			04/16/17 19:57	1
sec-Butylbenzene	ND		1.0		ug/L			04/16/17 19:57	1
Styrene	ND		1.0		ug/L			04/16/17 19:57	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/16/17 19:57	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/16/17 19:57	1
tert-Butylbenzene	ND		1.0		ug/L			04/16/17 19:57	1
Tetrachloroethene	ND		1.0		ug/L			04/16/17 19:57	1
Tetrahydrofuran	ND	*	10		ug/L			04/16/17 19:57	1
Toluene	ND		1.0		ug/L			04/16/17 19:57	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 19:57	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 19:57	1
Trichloroethene	ND		1.0		ug/L			04/16/17 19:57	1
Trichlorofluoromethane	ND		1.0		ug/L			04/16/17 19:57	1
Vinyl chloride	ND		1.0		ug/L			04/16/17 19:57	1
Dibromomethane	ND		1.0		ug/L			04/16/17 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/16/17 19:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*04/16/17 19:57*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*04/16/17 19:57*	*1*

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3.0**		0.050		mg/L		04/13/17 09:05	04/14/17 00:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.7**		0.50		mg/L			04/19/17 14:35	1
Sulfate	**24**		2.0		mg/L			04/19/17 14:35	1
Ammonia	**1.3**		0.20		mg/L		04/13/17 16:42	04/14/17 08:57	1
Nitrate as N	ND		0.050		mg/L			04/13/17 00:21	1
TOC Result 1	**3.3**		1.0		mg/L			04/15/17 12:46	1
TOC Result 2	**3.7**		1.0		mg/L			04/15/17 12:46	1
Total Organic Carbon - Duplicates	**3.5**		1.0		mg/L			04/15/17 12:46	1
Alkalinity, Total	**40**		5.0		mg/L			04/15/17 00:24	1
ortho-Phosphate	ND		0.020		mg/L			04/12/17 22:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.9**	**HF**	0.1		SU			04/15/17 00:08	1
Temperature	**18.6**	**HF**	0.001		Degrees C			04/15/17 00:08	1

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116033-1

Client Sample ID: REW-10-20170411
Date Collected: 04/11/17 12:15
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/16/17 20:21	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/16/17 20:21	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/16/17 20:21	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/16/17 20:21	1
1,1-Dichloroethane	ND		1.0		ug/L			04/16/17 20:21	1
1,1-Dichloroethene	ND		1.0		ug/L			04/16/17 20:21	1
1,1-Dichloropropene	ND		1.0		ug/L			04/16/17 20:21	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/16/17 20:21	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/16/17 20:21	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/16/17 20:21	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/16/17 20:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/16/17 20:21	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/16/17 20:21	1
1,2-Dichloroethane	ND		1.0		ug/L			04/16/17 20:21	1
1,2-Dichloropropane	ND		1.0		ug/L			04/16/17 20:21	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/16/17 20:21	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/16/17 20:21	1
1,3-Dichloropropane	ND		1.0		ug/L			04/16/17 20:21	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/16/17 20:21	1
1,4-Dioxane	ND		50		ug/L			04/16/17 20:21	1
2,2-Dichloropropane	ND		1.0		ug/L			04/16/17 20:21	1
2-Butanone (MEK)	ND	*	10		ug/L			04/16/17 20:21	1
2-Chlorotoluene	ND		1.0		ug/L			04/16/17 20:21	1
2-Hexanone	ND		10		ug/L			04/16/17 20:21	1
4-Chlorotoluene	ND		1.0		ug/L			04/16/17 20:21	1
4-Isopropyltoluene	ND		1.0		ug/L			04/16/17 20:21	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/16/17 20:21	1
Acetone	ND	*	50		ug/L			04/16/17 20:21	1
Benzene	ND		1.0		ug/L			04/16/17 20:21	1
Bromobenzene	ND		1.0		ug/L			04/16/17 20:21	1
Bromoform	ND	*	1.0		ug/L			04/16/17 20:21	1
Bromomethane	ND		2.0		ug/L			04/16/17 20:21	1
Carbon disulfide	ND		10		ug/L			04/16/17 20:21	1
Carbon tetrachloride	ND		1.0		ug/L			04/16/17 20:21	1
Chlorobenzene	ND		1.0		ug/L			04/16/17 20:21	1
Chlorobromomethane	ND		1.0		ug/L			04/16/17 20:21	1
Chlorodibromomethane	ND		0.50		ug/L			04/16/17 20:21	1
Chloroethane	ND		2.0		ug/L			04/16/17 20:21	1
Chloroform	ND		1.0		ug/L			04/16/17 20:21	1
Chloromethane	ND		2.0		ug/L			04/16/17 20:21	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 20:21	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 20:21	1
Dichlorobromomethane	ND		0.50		ug/L			04/16/17 20:21	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/16/17 20:21	1
Ethyl ether	ND		1.0		ug/L			04/16/17 20:21	1
Ethylbenzene	ND		1.0		ug/L			04/16/17 20:21	1
Ethylene Dibromide	ND		1.0		ug/L			04/16/17 20:21	1
Hexachlorobutadiene	ND		0.40		ug/L			04/16/17 20:21	1
Isopropyl ether	ND		10		ug/L			04/16/17 20:21	1

Client Sample ID: REW-10-20170411
Date Collected: 04/11/17 12:15
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-12
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/16/17 20:21	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/16/17 20:21	1
Methylene Chloride	ND		1.0		ug/L			04/16/17 20:21	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/16/17 20:21	1
Naphthalene	ND		5.0		ug/L			04/16/17 20:21	1
n-Butylbenzene	ND		1.0		ug/L			04/16/17 20:21	1
N-Propylbenzene	ND		1.0		ug/L			04/16/17 20:21	1
o-Xylene	ND		1.0		ug/L			04/16/17 20:21	1
sec-Butylbenzene	ND		1.0		ug/L			04/16/17 20:21	1
Styrene	ND		1.0		ug/L			04/16/17 20:21	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/16/17 20:21	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/16/17 20:21	1
tert-Butylbenzene	ND		1.0		ug/L			04/16/17 20:21	1
Tetrachloroethene	ND		1.0		ug/L			04/16/17 20:21	1
Tetrahydrofuran	ND	*	10		ug/L			04/16/17 20:21	1
Toluene	ND		1.0		ug/L			04/16/17 20:21	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 20:21	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 20:21	1
Trichloroethene	ND		1.0		ug/L			04/16/17 20:21	1
Trichlorofluoromethane	ND		1.0		ug/L			04/16/17 20:21	1
Vinyl chloride	ND		1.0		ug/L			04/16/17 20:21	1
Dibromomethane	ND		1.0		ug/L			04/16/17 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*04/16/17 20:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*04/16/17 20:21*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/16/17 20:21*	*1*

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**16**		0.050		mg/L		04/13/17 09:05	04/14/17 00:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.4**		0.50		mg/L			04/19/17 14:43	1
Sulfate	**31**		2.0		mg/L			04/19/17 14:43	1
Ammonia	**0.96**		0.20		mg/L		04/13/17 16:42	04/14/17 08:58	1
Nitrate as N	**0.11**		0.050		mg/L			04/13/17 00:35	1
TOC Result 1	**3.9**		1.0		mg/L			04/15/17 13:15	1
TOC Result 2	**4.3**		1.0		mg/L			04/15/17 13:15	1
Total Organic Carbon - Duplicates	**4.1**		1.0		mg/L			04/15/17 13:15	1
Alkalinity, Total	**8.6**		5.0		mg/L			04/15/17 00:30	1
ortho-Phosphate	ND		0.020		mg/L			04/12/17 22:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.2**	**HF**	0.1		SU			04/15/17 00:11	1
Temperature	**19.2**	**HF**	0.001		Degrees C			04/15/17 00:11	1

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116033-1

Client Sample ID: REW-12-20170411
Date Collected: 04/11/17 08:30
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-13
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0		ug/L			04/17/17 15:17	4
1,1,1-Trichloroethane	ND		4.0		ug/L			04/17/17 15:17	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			04/17/17 15:17	4
1,1,2-Trichloroethane	ND		4.0		ug/L			04/17/17 15:17	4
1,1-Dichloroethane	ND		4.0		ug/L			04/17/17 15:17	4
1,1-Dichloroethene	ND		4.0		ug/L			04/17/17 15:17	4
1,1-Dichloropropene	ND		4.0		ug/L			04/17/17 15:17	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			04/17/17 15:17	4
1,2,3-Trichloropropane	ND		4.0		ug/L			04/17/17 15:17	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			04/17/17 15:17	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			04/17/17 15:17	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			04/17/17 15:17	4
1,2-Dichlorobenzene	ND		4.0		ug/L			04/17/17 15:17	4
1,2-Dichloroethane	ND		4.0		ug/L			04/17/17 15:17	4
1,2-Dichloropropane	ND		4.0		ug/L			04/17/17 15:17	4
1,3,5-Trimethylbenzene	ND		4.0		ug/L			04/17/17 15:17	4
1,3-Dichlorobenzene	ND		4.0		ug/L			04/17/17 15:17	4
1,3-Dichloropropane	ND		4.0		ug/L			04/17/17 15:17	4
1,4-Dichlorobenzene	ND		4.0		ug/L			04/17/17 15:17	4
1,4-Dioxane	ND		200		ug/L			04/17/17 15:17	4
2,2-Dichloropropane	ND		4.0		ug/L			04/17/17 15:17	4
2-Butanone (MEK)	**140**	*	40		ug/L			04/17/17 15:17	4
2-Chlorotoluene	ND		4.0		ug/L			04/17/17 15:17	4
2-Hexanone	ND		40		ug/L			04/17/17 15:17	4
4-Chlorotoluene	ND		4.0		ug/L			04/17/17 15:17	4
4-Isopropyltoluene	ND		4.0		ug/L			04/17/17 15:17	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			04/17/17 15:17	4
Acetone	ND	*	200		ug/L			04/17/17 15:17	4
Benzene	ND		4.0		ug/L			04/17/17 15:17	4
Bromobenzene	ND		4.0		ug/L			04/17/17 15:17	4
Bromoform	ND	*	4.0		ug/L			04/17/17 15:17	4
Bromomethane	ND		8.0		ug/L			04/17/17 15:17	4
Carbon disulfide	ND		40		ug/L			04/17/17 15:17	4
Carbon tetrachloride	ND		4.0		ug/L			04/17/17 15:17	4
Chlorobenzene	ND		4.0		ug/L			04/17/17 15:17	4
Chlorobromomethane	ND		4.0		ug/L			04/17/17 15:17	4
Chlorodibromomethane	ND		2.0		ug/L			04/17/17 15:17	4
Chloroethane	ND		8.0		ug/L			04/17/17 15:17	4
Chloroform	ND		4.0		ug/L			04/17/17 15:17	4
Chloromethane	ND		8.0		ug/L			04/17/17 15:17	4
cis-1,2-Dichloroethene	**12**		4.0		ug/L			04/17/17 15:17	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			04/17/17 15:17	4
Dichlorobromomethane	ND		2.0		ug/L			04/17/17 15:17	4
Dichlorodifluoromethane	ND		4.0		ug/L			04/17/17 15:17	4
Ethyl ether	ND		4.0		ug/L			04/17/17 15:17	4
Ethylbenzene	ND		4.0		ug/L			04/17/17 15:17	4
Ethylene Dibromide	ND		4.0		ug/L			04/17/17 15:17	4
Hexachlorobutadiene	ND		1.6		ug/L			04/17/17 15:17	4
Isopropyl ether	ND		40		ug/L			04/17/17 15:17	4

Client Sample ID: REW-12-20170411
Date Collected: 04/11/17 08:30
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-13
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		4.0		ug/L			04/17/17 15:17	4
Methyl tert-butyl ether	ND		4.0		ug/L			04/17/17 15:17	4
Methylene Chloride	ND		4.0		ug/L			04/17/17 15:17	4
m-Xylene & p-Xylene	ND		8.0		ug/L			04/17/17 15:17	4
Naphthalene	ND		20		ug/L			04/17/17 15:17	4
n-Butylbenzene	ND		4.0		ug/L			04/17/17 15:17	4
N-Propylbenzene	ND		4.0		ug/L			04/17/17 15:17	4
o-Xylene	ND		4.0		ug/L			04/17/17 15:17	4
sec-Butylbenzene	ND		4.0		ug/L			04/17/17 15:17	4
Styrene	ND		4.0		ug/L			04/17/17 15:17	4
Tert-amyl methyl ether	ND		20		ug/L			04/17/17 15:17	4
Tert-butyl ethyl ether	ND		20		ug/L			04/17/17 15:17	4
tert-Butylbenzene	ND		4.0		ug/L			04/17/17 15:17	4
Tetrachloroethene	ND		4.0		ug/L			04/17/17 15:17	4
Tetrahydrofuran	ND	*	40		ug/L			04/17/17 15:17	4
Toluene	**42**		4.0		ug/L			04/17/17 15:17	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			04/17/17 15:17	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			04/17/17 15:17	4
Trichloroethene	ND		4.0		ug/L			04/17/17 15:17	4
Trichlorofluoromethane	ND		4.0		ug/L			04/17/17 15:17	4
Vinyl chloride	**5.2**		4.0		ug/L			04/17/17 15:17	4
Dibromomethane	ND		4.0		ug/L			04/17/17 15:17	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/17/17 15:17*	*4*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/17/17 15:17*	*4*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/17/17 15:17*	*4*

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**72**		0.050		mg/L		04/13/17 09:05	04/14/17 01:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19**		2.5		mg/L			04/19/17 14:52	5
Sulfate	ND		10		mg/L			04/19/17 14:52	5
Ammonia	**0.85**		0.20		mg/L		04/14/17 18:49	04/18/17 09:57	1
Nitrate as N	ND		0.050		mg/L			04/12/17 17:35	1
TOC Result 1	**4300**		80		mg/L			04/15/17 13:42	80
TOC Result 2	**4300**		80		mg/L			04/15/17 13:42	80
Total Organic Carbon - Duplicates	**4300**		80		mg/L			04/15/17 13:42	80
Alkalinity, Total	**690**		5.0		mg/L			04/15/17 00:38	1
ortho-Phosphate	**0.022**		0.020		mg/L			04/12/17 22:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.8**	**HF**	0.1		SU			04/17/17 20:47	1
Temperature	**19.3**	**HF**	0.001		Degrees C			04/17/17 20:47	1

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116033-1

Client Sample ID: DUP3-20170411
Date Collected: 04/11/17 00:00
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-14
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/17/17 15:41	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/17/17 15:41	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/17/17 15:41	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/17/17 15:41	1
1,1-Dichloroethane	ND		1.0		ug/L			04/17/17 15:41	1
1,1-Dichloroethene	ND		1.0		ug/L			04/17/17 15:41	1
1,1-Dichloropropene	ND		1.0		ug/L			04/17/17 15:41	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/17/17 15:41	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/17/17 15:41	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/17/17 15:41	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/17/17 15:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/17/17 15:41	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/17/17 15:41	1
1,2-Dichloroethane	ND		1.0		ug/L			04/17/17 15:41	1
1,2-Dichloropropane	ND		1.0		ug/L			04/17/17 15:41	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/17/17 15:41	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/17/17 15:41	1
1,3-Dichloropropane	ND		1.0		ug/L			04/17/17 15:41	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/17/17 15:41	1
1,4-Dioxane	ND		50		ug/L			04/17/17 15:41	1
2,2-Dichloropropane	ND		1.0		ug/L			04/17/17 15:41	1
2-Butanone (MEK)	ND	*	10		ug/L			04/17/17 15:41	1
2-Chlorotoluene	ND		1.0		ug/L			04/17/17 15:41	1
2-Hexanone	ND		10		ug/L			04/17/17 15:41	1
4-Chlorotoluene	ND		1.0		ug/L			04/17/17 15:41	1
4-Isopropyltoluene	ND		1.0		ug/L			04/17/17 15:41	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/17/17 15:41	1
Acetone	ND	*	50		ug/L			04/17/17 15:41	1
Benzene	ND		1.0		ug/L			04/17/17 15:41	1
Bromobenzene	ND		1.0		ug/L			04/17/17 15:41	1
Bromoform	ND	*	1.0		ug/L			04/17/17 15:41	1
Bromomethane	ND		2.0		ug/L			04/17/17 15:41	1
Carbon disulfide	ND		10		ug/L			04/17/17 15:41	1
Carbon tetrachloride	ND		1.0		ug/L			04/17/17 15:41	1
Chlorobenzene	ND		1.0		ug/L			04/17/17 15:41	1
Chlorobromomethane	ND		1.0		ug/L			04/17/17 15:41	1
Chlorodibromomethane	ND		0.50		ug/L			04/17/17 15:41	1
Chloroethane	ND		2.0		ug/L			04/17/17 15:41	1
Chloroform	ND		1.0		ug/L			04/17/17 15:41	1
Chloromethane	ND		2.0		ug/L			04/17/17 15:41	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/17/17 15:41	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/17/17 15:41	1
Dichlorobromomethane	ND		0.50		ug/L			04/17/17 15:41	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/17/17 15:41	1
Ethyl ether	ND		1.0		ug/L			04/17/17 15:41	1
Ethylbenzene	ND		1.0		ug/L			04/17/17 15:41	1
Ethylene Dibromide	ND		1.0		ug/L			04/17/17 15:41	1
Hexachlorobutadiene	ND		0.40		ug/L			04/17/17 15:41	1
Isopropyl ether	ND		10		ug/L			04/17/17 15:41	1

Client Sample ID: DUP3-20170411

Lab Sample ID: 480-116033-14

Date Collected: 04/11/17 00:00

Matrix: Water

Date Received: 04/12/17 10:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/17/17 15:41	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/17/17 15:41	1
Methylene Chloride	ND		1.0		ug/L			04/17/17 15:41	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/17/17 15:41	1
Naphthalene	ND		5.0		ug/L			04/17/17 15:41	1
n-Butylbenzene	ND		1.0		ug/L			04/17/17 15:41	1
N-Propylbenzene	ND		1.0		ug/L			04/17/17 15:41	1
o-Xylene	ND		1.0		ug/L			04/17/17 15:41	1
sec-Butylbenzene	ND		1.0		ug/L			04/17/17 15:41	1
Styrene	ND		1.0		ug/L			04/17/17 15:41	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/17/17 15:41	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/17/17 15:41	1
tert-Butylbenzene	ND		1.0		ug/L			04/17/17 15:41	1
Tetrachloroethene	ND		1.0		ug/L			04/17/17 15:41	1
Tetrahydrofuran	ND	*	10		ug/L			04/17/17 15:41	1
Toluene	ND		1.0		ug/L			04/17/17 15:41	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/17/17 15:41	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/17/17 15:41	1
Trichloroethene	ND		1.0		ug/L			04/17/17 15:41	1
Trichlorofluoromethane	ND		1.0		ug/L			04/17/17 15:41	1
Vinyl chloride	ND		1.0		ug/L			04/17/17 15:41	1
Dibromomethane	ND		1.0		ug/L			04/17/17 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*04/17/17 15:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/17/17 15:41*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/17/17 15:41*	*1*

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-116033-15

Date Collected: 04/11/17 00:00

Matrix: Water

Date Received: 04/12/17 10:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/16/17 21:32	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/16/17 21:32	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/16/17 21:32	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/16/17 21:32	1
1,1-Dichloroethane	ND		1.0		ug/L			04/16/17 21:32	1
1,1-Dichloroethene	ND		1.0		ug/L			04/16/17 21:32	1
1,1-Dichloropropene	ND		1.0		ug/L			04/16/17 21:32	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/16/17 21:32	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/16/17 21:32	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/16/17 21:32	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/16/17 21:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/16/17 21:32	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/16/17 21:32	1
1,2-Dichloroethane	ND		1.0		ug/L			04/16/17 21:32	1
1,2-Dichloropropane	ND		1.0		ug/L			04/16/17 21:32	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/16/17 21:32	1

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116033-1

Client Sample ID: TRIP BLANKS
Date Collected: 04/11/17 00:00
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-15
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			04/16/17 21:32	1
1,3-Dichloropropane	ND		1.0		ug/L			04/16/17 21:32	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/16/17 21:32	1
1,4-Dioxane	ND		50		ug/L			04/16/17 21:32	1
2,2-Dichloropropane	ND		1.0		ug/L			04/16/17 21:32	1
2-Butanone (MEK)	ND	*	10		ug/L			04/16/17 21:32	1
2-Chlorotoluene	ND		1.0		ug/L			04/16/17 21:32	1
2-Hexanone	ND		10		ug/L			04/16/17 21:32	1
4-Chlorotoluene	ND		1.0		ug/L			04/16/17 21:32	1
4-Isopropyltoluene	ND		1.0		ug/L			04/16/17 21:32	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/16/17 21:32	1
Acetone	ND	*	50		ug/L			04/16/17 21:32	1
Benzene	ND		1.0		ug/L			04/16/17 21:32	1
Bromobenzene	ND		1.0		ug/L			04/16/17 21:32	1
Bromoform	ND	*	1.0		ug/L			04/16/17 21:32	1
Bromomethane	ND		2.0		ug/L			04/16/17 21:32	1
Carbon disulfide	ND		10		ug/L			04/16/17 21:32	1
Carbon tetrachloride	ND		1.0		ug/L			04/16/17 21:32	1
Chlorobenzene	ND		1.0		ug/L			04/16/17 21:32	1
Chlorobromomethane	ND		1.0		ug/L			04/16/17 21:32	1
Chlorodibromomethane	ND		0.50		ug/L			04/16/17 21:32	1
Chloroethane	ND		2.0		ug/L			04/16/17 21:32	1
Chloroform	ND		1.0		ug/L			04/16/17 21:32	1
Chloromethane	ND		2.0		ug/L			04/16/17 21:32	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 21:32	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 21:32	1
Dichlorobromomethane	ND		0.50		ug/L			04/16/17 21:32	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/16/17 21:32	1
Ethyl ether	ND		1.0		ug/L			04/16/17 21:32	1
Ethylbenzene	ND		1.0		ug/L			04/16/17 21:32	1
Ethylene Dibromide	ND		1.0		ug/L			04/16/17 21:32	1
Hexachlorobutadiene	ND		0.40		ug/L			04/16/17 21:32	1
Isopropyl ether	ND		10		ug/L			04/16/17 21:32	1
Isopropylbenzene	ND		1.0		ug/L			04/16/17 21:32	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/16/17 21:32	1
Methylene Chloride	ND		1.0		ug/L			04/16/17 21:32	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/16/17 21:32	1
Naphthalene	ND		5.0		ug/L			04/16/17 21:32	1
n-Butylbenzene	ND		1.0		ug/L			04/16/17 21:32	1
N-Propylbenzene	ND		1.0		ug/L			04/16/17 21:32	1
o-Xylene	ND		1.0		ug/L			04/16/17 21:32	1
sec-Butylbenzene	ND		1.0		ug/L			04/16/17 21:32	1
Styrene	ND		1.0		ug/L			04/16/17 21:32	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/16/17 21:32	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/16/17 21:32	1
tert-Butylbenzene	ND		1.0		ug/L			04/16/17 21:32	1
Tetrachloroethene	ND		1.0		ug/L			04/16/17 21:32	1
Tetrahydrofuran	ND	*	10		ug/L			04/16/17 21:32	1
Toluene	ND		1.0		ug/L			04/16/17 21:32	1

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116033-1

Client Sample ID: TRIP BLANKS
Date Collected: 04/11/17 00:00
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-15
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 21:32	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 21:32	1
Trichloroethene	ND		1.0		ug/L			04/16/17 21:32	1
Trichlorofluoromethane	ND		1.0		ug/L			04/16/17 21:32	1
Vinyl chloride	ND		1.0		ug/L			04/16/17 21:32	1
Dibromomethane	ND		1.0		ug/L			04/16/17 21:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*04/16/17 21:32*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*04/16/17 21:32*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/16/17 21:32*	*1*

Surrogate Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116033-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TOL	12DCE	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
480-116033-1	MW-261S-20170411	95	96	97
480-116033-2	MW-266Ma-20170411	95	99	101
480-116033-3	MW-264M-20170411	95	100	101
480-116033-4	MW-552-20170411	94	101	98
480-116033-5	MW-553-20170411	97	104	101
480-116033-6	MW-560-20170411	97	102	99
480-116033-7	MW-561-20170411	96	105	101
480-116033-8	MW-562-20170411	96	98	97
480-116033-8 - DL	MW-562-20170411	97	104	98
480-116033-9	MW-563-20170411	93	96	96
480-116033-10	REW-8-20170411	95	101	102
480-116033-11	REW-9-20170411	95	100	100
480-116033-12	REW-10-20170411	94	98	98
480-116033-13	REW-12-20170411	96	102	98
480-116033-14	DUP3-20170411	93	102	99
480-116033-15	TRIP BLANKS	94	100	98
LCS 480-352253/5	Lab Control Sample	95	98	100
LCS 480-352315/5	Lab Control Sample	96	100	101
LCS 480-352449/5	Lab Control Sample	93	96	97
LCSD 480-352253/6	Lab Control Sample Dup	97	98	102
LCSD 480-352315/6	Lab Control Sample Dup	95	99	98
LCSD 480-352449/6	Lab Control Sample Dup	93	96	98
MB 480-352253/8	Method Blank	96	104	101
MB 480-352315/8	Method Blank	95	99	98
MB 480-352449/8	Method Blank	92	97	98

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		14DD8
Lab Sample ID	Client Sample ID	(46-130)
480-116033-1	MW-261S-20170411	97
480-116033-2	MW-266Ma-20170411	97
480-116033-4	MW-552-20170411	95
LCS 200-115834/2-A	Lab Control Sample	99
LCSD 200-115834/3-A	Lab Control Sample Dup	97
MB 200-115834/1-A	Method Blank	95

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-352253/8
Matrix: Water
Analysis Batch: 352253

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/16/17 13:57	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/16/17 13:57	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/16/17 13:57	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/16/17 13:57	1
1,1-Dichloroethane	ND		1.0		ug/L			04/16/17 13:57	1
1,1-Dichloroethene	ND		1.0		ug/L			04/16/17 13:57	1
1,1-Dichloropropene	ND		1.0		ug/L			04/16/17 13:57	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/16/17 13:57	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/16/17 13:57	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/16/17 13:57	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/16/17 13:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/16/17 13:57	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/16/17 13:57	1
1,2-Dichloroethane	ND		1.0		ug/L			04/16/17 13:57	1
1,2-Dichloropropane	ND		1.0		ug/L			04/16/17 13:57	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/16/17 13:57	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/16/17 13:57	1
1,3-Dichloropropane	ND		1.0		ug/L			04/16/17 13:57	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/16/17 13:57	1
1,4-Dioxane	ND		50		ug/L			04/16/17 13:57	1
2,2-Dichloropropane	ND		1.0		ug/L			04/16/17 13:57	1
2-Butanone (MEK)	ND		10		ug/L			04/16/17 13:57	1
2-Chlorotoluene	ND		1.0		ug/L			04/16/17 13:57	1
2-Hexanone	ND		10		ug/L			04/16/17 13:57	1
4-Chlorotoluene	ND		1.0		ug/L			04/16/17 13:57	1
4-Isopropyltoluene	ND		1.0		ug/L			04/16/17 13:57	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/16/17 13:57	1
Acetone	ND		50		ug/L			04/16/17 13:57	1
Benzene	ND		1.0		ug/L			04/16/17 13:57	1
Bromobenzene	ND		1.0		ug/L			04/16/17 13:57	1
Bromoform	ND		1.0		ug/L			04/16/17 13:57	1
Bromomethane	ND		2.0		ug/L			04/16/17 13:57	1
Carbon disulfide	ND		10		ug/L			04/16/17 13:57	1
Carbon tetrachloride	ND		1.0		ug/L			04/16/17 13:57	1
Chlorobenzene	ND		1.0		ug/L			04/16/17 13:57	1
Chlorobromomethane	ND		1.0		ug/L			04/16/17 13:57	1
Chlorodibromomethane	ND		0.50		ug/L			04/16/17 13:57	1
Chloroethane	ND		2.0		ug/L			04/16/17 13:57	1
Chloroform	ND		1.0		ug/L			04/16/17 13:57	1
Chloromethane	ND		2.0		ug/L			04/16/17 13:57	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 13:57	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 13:57	1
Dichlorobromomethane	ND		0.50		ug/L			04/16/17 13:57	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/16/17 13:57	1
Ethyl ether	ND		1.0		ug/L			04/16/17 13:57	1
Ethylbenzene	ND		1.0		ug/L			04/16/17 13:57	1
Ethylene Dibromide	ND		1.0		ug/L			04/16/17 13:57	1
Hexachlorobutadiene	ND		0.40		ug/L			04/16/17 13:57	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-352253/8
Matrix: Water
Analysis Batch: 352253

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			04/16/17 13:57	1
Isopropylbenzene	ND		1.0		ug/L			04/16/17 13:57	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/16/17 13:57	1
Methylene Chloride	ND		1.0		ug/L			04/16/17 13:57	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/16/17 13:57	1
Naphthalene	ND		5.0		ug/L			04/16/17 13:57	1
n-Butylbenzene	ND		1.0		ug/L			04/16/17 13:57	1
N-Propylbenzene	ND		1.0		ug/L			04/16/17 13:57	1
o-Xylene	ND		1.0		ug/L			04/16/17 13:57	1
sec-Butylbenzene	ND		1.0		ug/L			04/16/17 13:57	1
Styrene	ND		1.0		ug/L			04/16/17 13:57	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/16/17 13:57	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/16/17 13:57	1
tert-Butylbenzene	ND		1.0		ug/L			04/16/17 13:57	1
Tetrachloroethene	ND		1.0		ug/L			04/16/17 13:57	1
Tetrahydrofuran	ND		10		ug/L			04/16/17 13:57	1
Toluene	ND		1.0		ug/L			04/16/17 13:57	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 13:57	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 13:57	1
Trichloroethene	ND		1.0		ug/L			04/16/17 13:57	1
Trichlorofluoromethane	ND		1.0		ug/L			04/16/17 13:57	1
Vinyl chloride	ND		1.0		ug/L			04/16/17 13:57	1
Dibromomethane	ND		1.0		ug/L			04/16/17 13:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*04/16/17 13:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*04/16/17 13:57*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/16/17 13:57*	*1*

Lab Sample ID: LCS 480-352253/5
Matrix: Water
Analysis Batch: 352253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	25.9		ug/L		104	70 - 130
1,1,1-Trichloroethane	25.0	26.7		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	25.0	27.8		ug/L		111	70 - 130
1,1,2-Trichloroethane	25.0	25.7		ug/L		103	70 - 130
1,1-Dichloroethane	25.0	27.6		ug/L		110	70 - 130
1,1-Dichloroethene	25.0	25.5		ug/L		102	70 - 130
1,1-Dichloropropene	25.0	26.3		ug/L		105	70 - 130
1,2,3-Trichlorobenzene	25.0	27.4		ug/L		110	70 - 130
1,2,3-Trichloropropane	25.0	25.3		ug/L		101	70 - 130
1,2,4-Trichlorobenzene	25.0	26.9		ug/L		108	70 - 130
1,2,4-Trimethylbenzene	25.0	24.8		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	26.8		ug/L		107	70 - 130
1,2-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130
1,2-Dichloroethane	25.0	26.0		ug/L		104	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-352253/5
Matrix: Water
Analysis Batch: 352253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	27.2		ug/L		109	70 - 130
1,3,5-Trimethylbenzene	25.0	25.2		ug/L		101	70 - 130
1,3-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,3-Dichloropropane	25.0	25.1		ug/L		101	70 - 130
1,4-Dichlorobenzene	25.0	25.6		ug/L		102	70 - 130
1,4-Dioxane	500	477		ug/L		95	70 - 130
2,2-Dichloropropane	25.0	26.1		ug/L		104	70 - 130
2-Butanone (MEK)	125	184	*	ug/L		147	70 - 130
2-Chlorotoluene	25.0	24.9		ug/L		100	70 - 130
2-Hexanone	125	146		ug/L		117	70 - 130
4-Chlorotoluene	25.0	27.0		ug/L		108	70 - 130
4-Isopropyltoluene	25.0	24.9		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	125	139		ug/L		111	70 - 130
Acetone	125	177	*	ug/L		142	70 - 130
Benzene	25.0	26.5		ug/L		106	70 - 130
Bromobenzene	25.0	25.4		ug/L		101	70 - 130
Bromoform	25.0	40.2	*	ug/L		161	70 - 130
Bromomethane	25.0	24.7		ug/L		99	70 - 130
Carbon disulfide	25.0	25.6		ug/L		102	70 - 130
Carbon tetrachloride	25.0	30.3		ug/L		121	70 - 130
Chlorobenzene	25.0	25.4		ug/L		101	70 - 130
Chlorobromomethane	25.0	28.2		ug/L		113	70 - 130
Chlorodibromomethane	25.0	29.4		ug/L		118	70 - 130
Chloroethane	25.0	23.8		ug/L		95	70 - 130
Chloroform	25.0	26.1		ug/L		104	70 - 130
Chloromethane	25.0	25.4		ug/L		102	70 - 130
cis-1,2-Dichloroethene	25.0	26.5		ug/L		106	70 - 130
cis-1,3-Dichloropropene	25.0	28.4		ug/L		114	70 - 130
Dichlorobromomethane	25.0	30.6		ug/L		122	70 - 130
Dichlorodifluoromethane	25.0	22.3		ug/L		89	70 - 130
Ethyl ether	25.0	26.3		ug/L		105	70 - 130
Ethylbenzene	25.0	24.7		ug/L		99	70 - 130
Ethylene Dibromide	25.0	25.8		ug/L		103	70 - 130
Hexachlorobutadiene	25.0	24.4		ug/L		98	70 - 130
Isopropyl ether	25.0	24.7		ug/L		99	70 - 130
Isopropylbenzene	25.0	25.0		ug/L		100	70 - 130
Methyl tert-butyl ether	25.0	26.2		ug/L		105	70 - 130
Methylene Chloride	25.0	23.6		ug/L		94	70 - 130
m-Xylene & p-Xylene	25.0	25.4		ug/L		102	70 - 130
Naphthalene	25.0	26.7		ug/L		107	70 - 130
n-Butylbenzene	25.0	24.6		ug/L		98	70 - 130
N-Propylbenzene	25.0	25.0		ug/L		100	70 - 130
o-Xylene	25.0	25.4		ug/L		102	70 - 130
sec-Butylbenzene	25.0	24.8		ug/L		99	70 - 130
Styrene	25.0	25.3		ug/L		101	70 - 130
Tert-amyl methyl ether	25.0	23.1		ug/L		92	70 - 130
Tert-butyl ethyl ether	25.0	23.1		ug/L		92	70 - 130
tert-Butylbenzene	25.0	25.9		ug/L		103	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-352253/5
Matrix: Water
Analysis Batch: 352253

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	26.8		ug/L		107	70 - 130
Tetrahydrofuran	50.0	70.4	*	ug/L		141	70 - 130
Toluene	25.0	25.1		ug/L		100	70 - 130
trans-1,2-Dichloroethene	25.0	26.7		ug/L		107	70 - 130
trans-1,3-Dichloropropene	25.0	27.0		ug/L		108	70 - 130
Trichloroethene	25.0	27.2		ug/L		109	70 - 130
Trichlorofluoromethane	25.0	25.4		ug/L		102	70 - 130
Vinyl chloride	25.0	25.3		ug/L		101	70 - 130
Dibromomethane	25.0	27.1		ug/L		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 480-352253/6
Matrix: Water
Analysis Batch: 352253

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	25.7		ug/L		103	70 - 130	1	20
1,1,1-Trichloroethane	25.0	25.9		ug/L		103	70 - 130	3	20
1,1,2,2-Tetrachloroethane	25.0	28.1		ug/L		113	70 - 130	1	20
1,1,2-Trichloroethane	25.0	26.3		ug/L		105	70 - 130	2	20
1,1-Dichloroethane	25.0	26.9		ug/L		108	70 - 130	3	20
1,1-Dichloroethene	25.0	24.4		ug/L		98	70 - 130	4	20
1,1-Dichloropropene	25.0	25.5		ug/L		102	70 - 130	3	20
1,2,3-Trichlorobenzene	25.0	27.9		ug/L		112	70 - 130	2	20
1,2,3-Trichloropropane	25.0	25.9		ug/L		104	70 - 130	3	20
1,2,4-Trichlorobenzene	25.0	27.2		ug/L		109	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	24.8		ug/L		99	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	25.0	28.4		ug/L		113	70 - 130	6	20
1,2-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130	0	20
1,2-Dichloroethane	25.0	25.8		ug/L		103	70 - 130	1	20
1,2-Dichloropropane	25.0	26.8		ug/L		107	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	24.3		ug/L		97	70 - 130	4	20
1,3-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130	0	20
1,3-Dichloropropane	25.0	25.3		ug/L		101	70 - 130	1	20
1,4-Dichlorobenzene	25.0	25.3		ug/L		101	70 - 130	1	20
1,4-Dioxane	500	568		ug/L		114	70 - 130	17	20
2,2-Dichloropropane	25.0	25.4		ug/L		102	70 - 130	2	20
2-Butanone (MEK)	125	190	*	ug/L		152	70 - 130	3	20
2-Chlorotoluene	25.0	24.8		ug/L		99	70 - 130	1	20
2-Hexanone	125	150		ug/L		120	70 - 130	3	20
4-Chlorotoluene	25.0	26.9		ug/L		108	70 - 130	0	20
4-Isopropyltoluene	25.0	24.9		ug/L		100	70 - 130	0	20
4-Methyl-2-pentanone (MIBK)	125	145		ug/L		116	70 - 130	4	20
Acetone	125	180	*	ug/L		144	70 - 130	2	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-352253/6
Matrix: Water
Analysis Batch: 352253

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			25.0	26.1		ug/L		104	70 - 130	2	20
Bromobenzene			25.0	25.3		ug/L		101	70 - 130	0	20
Bromoform			25.0	40.6	*	ug/L		162	70 - 130	1	20
Bromomethane			25.0	24.3		ug/L		97	70 - 130	2	20
Carbon disulfide			25.0	24.8		ug/L		99	70 - 130	3	20
Carbon tetrachloride			25.0	29.3		ug/L		117	70 - 130	3	20
Chlorobenzene			25.0	25.4		ug/L		101	70 - 130	0	20
Chlorobromomethane			25.0	28.4		ug/L		113	70 - 130	0	20
Chlorodibromomethane			25.0	30.6		ug/L		122	70 - 130	4	20
Chloroethane			25.0	22.4		ug/L		90	70 - 130	6	20
Chloroform			25.0	25.7		ug/L		103	70 - 130	2	20
Chloromethane			25.0	24.2		ug/L		97	70 - 130	5	20
cis-1,2-Dichloroethene			25.0	26.2		ug/L		105	70 - 130	1	20
cis-1,3-Dichloropropene			25.0	28.3		ug/L		113	70 - 130	0	20
Dichlorobromomethane			25.0	31.6		ug/L		127	70 - 130	3	20
Dichlorodifluoromethane			25.0	20.7		ug/L		83	70 - 130	7	20
Ethyl ether			25.0	26.3		ug/L		105	70 - 130	0	20
Ethylbenzene			25.0	24.4		ug/L		98	70 - 130	1	20
Ethylene Dibromide			25.0	27.0		ug/L		108	70 - 130	5	20
Hexachlorobutadiene			25.0	23.8		ug/L		95	70 - 130	2	20
Isopropyl ether			25.0	24.7		ug/L		99	70 - 130	0	20
Isopropylbenzene			25.0	24.2		ug/L		97	70 - 130	3	20
Methyl tert-butyl ether			25.0	26.5		ug/L		106	70 - 130	1	20
Methylene Chloride			25.0	23.3		ug/L		93	70 - 130	1	20
m-Xylene & p-Xylene			25.0	24.7		ug/L		99	70 - 130	3	20
Naphthalene			25.0	27.2		ug/L		109	70 - 130	2	20
n-Butylbenzene			25.0	24.4		ug/L		98	70 - 130	1	20
N-Propylbenzene			25.0	24.4		ug/L		98	70 - 130	2	20
o-Xylene			25.0	25.1		ug/L		100	70 - 130	1	20
sec-Butylbenzene			25.0	24.2		ug/L		97	70 - 130	3	20
Styrene			25.0	25.3		ug/L		101	70 - 130	0	20
Tert-amyl methyl ether			25.0	24.3		ug/L		97	70 - 130	5	20
Tert-butyl ethyl ether			25.0	23.5		ug/L		94	70 - 130	1	20
tert-Butylbenzene			25.0	25.2		ug/L		101	70 - 130	3	20
Tetrachloroethene			25.0	25.6		ug/L		103	70 - 130	4	20
Tetrahydrofuran			50.0	75.7	*	ug/L		151	70 - 130	7	20
Toluene			25.0	24.6		ug/L		98	70 - 130	2	20
trans-1,2-Dichloroethene			25.0	26.0		ug/L		104	70 - 130	3	20
trans-1,3-Dichloropropene			25.0	27.4		ug/L		110	70 - 130	1	20
Trichloroethene			25.0	25.6		ug/L		103	70 - 130	6	20
Trichlorofluoromethane			25.0	23.6		ug/L		95	70 - 130	7	20
Vinyl chloride			25.0	23.7		ug/L		95	70 - 130	7	20
Dibromomethane			25.0	28.0		ug/L		112	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 480-352315/8
Matrix: Water
Analysis Batch: 352315

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/17/17 12:55	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/17/17 12:55	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/17/17 12:55	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/17/17 12:55	1
1,1-Dichloroethane	ND		1.0		ug/L			04/17/17 12:55	1
1,1-Dichloroethene	ND		1.0		ug/L			04/17/17 12:55	1
1,1-Dichloropropene	ND		1.0		ug/L			04/17/17 12:55	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/17/17 12:55	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/17/17 12:55	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/17/17 12:55	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/17/17 12:55	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/17/17 12:55	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/17/17 12:55	1
1,2-Dichloroethane	ND		1.0		ug/L			04/17/17 12:55	1
1,2-Dichloropropane	ND		1.0		ug/L			04/17/17 12:55	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/17/17 12:55	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/17/17 12:55	1
1,3-Dichloropropane	ND		1.0		ug/L			04/17/17 12:55	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/17/17 12:55	1
1,4-Dioxane	ND		50		ug/L			04/17/17 12:55	1
2,2-Dichloropropane	ND		1.0		ug/L			04/17/17 12:55	1
2-Butanone (MEK)	ND		10		ug/L			04/17/17 12:55	1
2-Chlorotoluene	ND		1.0		ug/L			04/17/17 12:55	1
2-Hexanone	ND		10		ug/L			04/17/17 12:55	1
4-Chlorotoluene	ND		1.0		ug/L			04/17/17 12:55	1
4-Isopropyltoluene	ND		1.0		ug/L			04/17/17 12:55	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/17/17 12:55	1
Acetone	ND		50		ug/L			04/17/17 12:55	1
Benzene	ND		1.0		ug/L			04/17/17 12:55	1
Bromobenzene	ND		1.0		ug/L			04/17/17 12:55	1
Bromoform	ND		1.0		ug/L			04/17/17 12:55	1
Bromomethane	ND		2.0		ug/L			04/17/17 12:55	1
Carbon disulfide	ND		10		ug/L			04/17/17 12:55	1
Carbon tetrachloride	ND		1.0		ug/L			04/17/17 12:55	1
Chlorobenzene	ND		1.0		ug/L			04/17/17 12:55	1
Chlorobromomethane	ND		1.0		ug/L			04/17/17 12:55	1
Chlorodibromomethane	ND		0.50		ug/L			04/17/17 12:55	1
Chloroethane	ND		2.0		ug/L			04/17/17 12:55	1
Chloroform	ND		1.0		ug/L			04/17/17 12:55	1
Chloromethane	ND		2.0		ug/L			04/17/17 12:55	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/17/17 12:55	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/17/17 12:55	1
Dichlorobromomethane	ND		0.50		ug/L			04/17/17 12:55	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/17/17 12:55	1
Ethyl ether	ND		1.0		ug/L			04/17/17 12:55	1
Ethylbenzene	ND		1.0		ug/L			04/17/17 12:55	1
Ethylene Dibromide	ND		1.0		ug/L			04/17/17 12:55	1
Hexachlorobutadiene	ND		0.40		ug/L			04/17/17 12:55	1
Isopropyl ether	ND		10		ug/L			04/17/17 12:55	1
Isopropylbenzene	ND		1.0		ug/L			04/17/17 12:55	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-352315/8
Matrix: Water
Analysis Batch: 352315

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			04/17/17 12:55	1
Methylene Chloride	ND		1.0		ug/L			04/17/17 12:55	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/17/17 12:55	1
Naphthalene	ND		5.0		ug/L			04/17/17 12:55	1
n-Butylbenzene	ND		1.0		ug/L			04/17/17 12:55	1
N-Propylbenzene	ND		1.0		ug/L			04/17/17 12:55	1
o-Xylene	ND		1.0		ug/L			04/17/17 12:55	1
sec-Butylbenzene	ND		1.0		ug/L			04/17/17 12:55	1
Styrene	ND		1.0		ug/L			04/17/17 12:55	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/17/17 12:55	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/17/17 12:55	1
tert-Butylbenzene	ND		1.0		ug/L			04/17/17 12:55	1
Tetrachloroethene	ND		1.0		ug/L			04/17/17 12:55	1
Tetrahydrofuran	ND		10		ug/L			04/17/17 12:55	1
Toluene	ND		1.0		ug/L			04/17/17 12:55	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/17/17 12:55	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/17/17 12:55	1
Trichloroethene	ND		1.0		ug/L			04/17/17 12:55	1
Trichlorofluoromethane	ND		1.0		ug/L			04/17/17 12:55	1
Vinyl chloride	ND		1.0		ug/L			04/17/17 12:55	1
Dibromomethane	ND		1.0		ug/L			04/17/17 12:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/17/17 12:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/17/17 12:55*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/17/17 12:55*	*1*

Lab Sample ID: LCS 480-352315/5
Matrix: Water
Analysis Batch: 352315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	24.4		ug/L		98	70 - 130
1,1,1-Trichloroethane	25.0	26.2		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	25.0	25.7		ug/L		103	70 - 130
1,1,2-Trichloroethane	25.0	24.6		ug/L		98	70 - 130
1,1-Dichloroethane	25.0	27.1		ug/L		108	70 - 130
1,1-Dichloroethene	25.0	26.4		ug/L		106	70 - 130
1,1-Dichloropropene	25.0	26.3		ug/L		105	70 - 130
1,2,3-Trichlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,2,3-Trichloropropane	25.0	24.2		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	25.0	25.1		ug/L		100	70 - 130
1,2,4-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.5		ug/L		94	70 - 130
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,2-Dichloroethane	25.0	25.4		ug/L		102	70 - 130
1,2-Dichloropropane	25.0	26.1		ug/L		104	70 - 130
1,3,5-Trimethylbenzene	25.0	23.9		ug/L		96	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-352315/5
Matrix: Water
Analysis Batch: 352315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,3-Dichloropropane	25.0	24.2		ug/L		97	70 - 130
1,4-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,4-Dioxane	500	471		ug/L		94	70 - 130
2,2-Dichloropropane	25.0	25.6		ug/L		103	70 - 130
2-Butanone (MEK)	125	155		ug/L		124	70 - 130
2-Chlorotoluene	25.0	23.8		ug/L		95	70 - 130
2-Hexanone	125	140		ug/L		112	70 - 130
4-Chlorotoluene	25.0	25.7		ug/L		103	70 - 130
4-Isopropyltoluene	25.0	24.6		ug/L		98	70 - 130
4-Methyl-2-pentanone (MIBK)	125	133		ug/L		106	70 - 130
Acetone	125	176	*	ug/L		141	70 - 130
Benzene	25.0	25.7		ug/L		103	70 - 130
Bromobenzene	25.0	24.0		ug/L		96	70 - 130
Bromoform	25.0	33.9	*	ug/L		136	70 - 130
Bromomethane	25.0	26.2		ug/L		105	70 - 130
Carbon disulfide	25.0	24.8		ug/L		99	70 - 130
Carbon tetrachloride	25.0	29.5		ug/L		118	70 - 130
Chlorobenzene	25.0	24.8		ug/L		99	70 - 130
Chlorobromomethane	25.0	26.6		ug/L		106	70 - 130
Chlorodibromomethane	25.0	26.8		ug/L		107	70 - 130
Chloroethane	25.0	23.4		ug/L		94	70 - 130
Chloroform	25.0	25.0		ug/L		100	70 - 130
Chloromethane	25.0	26.9		ug/L		108	70 - 130
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	70 - 130
cis-1,3-Dichloropropene	25.0	27.1		ug/L		108	70 - 130
Dichlorobromomethane	25.0	29.1		ug/L		116	70 - 130
Dichlorodifluoromethane	25.0	27.0		ug/L		108	70 - 130
Ethyl ether	25.0	25.2		ug/L		101	70 - 130
Ethylbenzene	25.0	24.0		ug/L		96	70 - 130
Ethylene Dibromide	25.0	25.5		ug/L		102	70 - 130
Hexachlorobutadiene	25.0	25.7		ug/L		103	70 - 130
Isopropyl ether	25.0	25.1		ug/L		100	70 - 130
Isopropylbenzene	25.0	23.8		ug/L		95	70 - 130
Methyl tert-butyl ether	25.0	25.0		ug/L		100	70 - 130
Methylene Chloride	25.0	23.3		ug/L		93	70 - 130
m-Xylene & p-Xylene	25.0	24.1		ug/L		97	70 - 130
Naphthalene	25.0	24.9		ug/L		100	70 - 130
n-Butylbenzene	25.0	23.9		ug/L		95	70 - 130
N-Propylbenzene	25.0	24.1		ug/L		96	70 - 130
o-Xylene	25.0	23.9		ug/L		96	70 - 130
sec-Butylbenzene	25.0	24.1		ug/L		96	70 - 130
Styrene	25.0	25.0		ug/L		100	70 - 130
Tert-amyl methyl ether	25.0	23.8		ug/L		95	70 - 130
Tert-butyl ethyl ether	25.0	23.1		ug/L		93	70 - 130
tert-Butylbenzene	25.0	24.8		ug/L		99	70 - 130
Tetrachloroethene	25.0	26.2		ug/L		105	70 - 130
Tetrahydrofuran	50.0	72.4	*	ug/L		145	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-352315/5
Matrix: Water
Analysis Batch: 352315

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	25.0	24.0		ug/L		96	70 - 130
trans-1,2-Dichloroethene	25.0	25.3		ug/L		101	70 - 130
trans-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 130
Trichloroethene	25.0	25.9		ug/L		104	70 - 130
Trichlorofluoromethane	25.0	27.8		ug/L		111	70 - 130
Vinyl chloride	25.0	27.5		ug/L		110	70 - 130
Dibromomethane	25.0	26.4		ug/L		105	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 480-352315/6
Matrix: Water
Analysis Batch: 352315

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.1		ug/L		96	70 - 130	1	20
1,1,1-Trichloroethane	25.0	25.4		ug/L		102	70 - 130	3	20
1,1,2,2-Tetrachloroethane	25.0	25.7		ug/L		103	70 - 130	0	20
1,1,2-Trichloroethane	25.0	24.2		ug/L		97	70 - 130	2	20
1,1-Dichloroethane	25.0	25.6		ug/L		102	70 - 130	5	20
1,1-Dichloroethene	25.0	24.0		ug/L		96	70 - 130	9	20
1,1-Dichloropropene	25.0	25.0		ug/L		100	70 - 130	5	20
1,2,3-Trichlorobenzene	25.0	25.5		ug/L		102	70 - 130	1	20
1,2,3-Trichloropropane	25.0	23.5		ug/L		94	70 - 130	3	20
1,2,4-Trichlorobenzene	25.0	25.0		ug/L		100	70 - 130	0	20
1,2,4-Trimethylbenzene	25.0	22.4		ug/L		90	70 - 130	6	20
1,2-Dibromo-3-Chloropropane	25.0	23.9		ug/L		96	70 - 130	2	20
1,2-Dichlorobenzene	25.0	23.9		ug/L		96	70 - 130	3	20
1,2-Dichloroethane	25.0	24.4		ug/L		98	70 - 130	4	20
1,2-Dichloropropane	25.0	25.7		ug/L		103	70 - 130	2	20
1,3,5-Trimethylbenzene	25.0	22.8		ug/L		91	70 - 130	5	20
1,3-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130	0	20
1,3-Dichloropropane	25.0	23.3		ug/L		93	70 - 130	4	20
1,4-Dichlorobenzene	25.0	23.6		ug/L		94	70 - 130	2	20
1,4-Dioxane	500	531		ug/L		106	70 - 130	12	20
2,2-Dichloropropane	25.0	24.4		ug/L		98	70 - 130	5	20
2-Butanone (MEK)	125	172	*	ug/L		137	70 - 130	10	20
2-Chlorotoluene	25.0	23.2		ug/L		93	70 - 130	3	20
2-Hexanone	125	139		ug/L		111	70 - 130	1	20
4-Chlorotoluene	25.0	24.6		ug/L		98	70 - 130	4	20
4-Isopropyltoluene	25.0	24.0		ug/L		96	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	125	134		ug/L		107	70 - 130	1	20
Acetone	125	173	*	ug/L		138	70 - 130	2	20
Benzene	25.0	24.8		ug/L		99	70 - 130	4	20
Bromobenzene	25.0	24.1		ug/L		97	70 - 130	0	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-352315/6
Matrix: Water
Analysis Batch: 352315

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform			25.0	35.5	*	ug/L		142	70 - 130	5	20
Bromomethane			25.0	25.2		ug/L		101	70 - 130	4	20
Carbon disulfide			25.0	24.0		ug/L		96	70 - 130	3	20
Carbon tetrachloride			25.0	28.2		ug/L		113	70 - 130	5	20
Chlorobenzene			25.0	24.4		ug/L		97	70 - 130	2	20
Chlorobromomethane			25.0	26.7		ug/L		107	70 - 130	0	20
Chlorodibromomethane			25.0	26.8		ug/L		107	70 - 130	0	20
Chloroethane			25.0	23.0		ug/L		92	70 - 130	1	20
Chloroform			25.0	24.5		ug/L		98	70 - 130	2	20
Chloromethane			25.0	25.5		ug/L		102	70 - 130	6	20
cis-1,2-Dichloroethene			25.0	24.8		ug/L		99	70 - 130	2	20
cis-1,3-Dichloropropene			25.0	26.0		ug/L		104	70 - 130	4	20
Dichlorobromomethane			25.0	28.6		ug/L		114	70 - 130	2	20
Dichlorodifluoromethane			25.0	25.5		ug/L		102	70 - 130	6	20
Ethyl ether			25.0	25.4		ug/L		101	70 - 130	1	20
Ethylbenzene			25.0	23.3		ug/L		93	70 - 130	3	20
Ethylene Dibromide			25.0	24.5		ug/L		98	70 - 130	4	20
Hexachlorobutadiene			25.0	25.1		ug/L		100	70 - 130	3	20
Isopropyl ether			25.0	24.3		ug/L		97	70 - 130	3	20
Isopropylbenzene			25.0	22.8		ug/L		91	70 - 130	4	20
Methyl tert-butyl ether			25.0	24.9		ug/L		100	70 - 130	0	20
Methylene Chloride			25.0	22.9		ug/L		91	70 - 130	2	20
m-Xylene & p-Xylene			25.0	24.0		ug/L		96	70 - 130	1	20
Naphthalene			25.0	24.6		ug/L		98	70 - 130	1	20
n-Butylbenzene			25.0	23.4		ug/L		94	70 - 130	2	20
N-Propylbenzene			25.0	23.2		ug/L		93	70 - 130	4	20
o-Xylene			25.0	23.6		ug/L		94	70 - 130	1	20
sec-Butylbenzene			25.0	23.4		ug/L		94	70 - 130	3	20
Styrene			25.0	24.0		ug/L		96	70 - 130	4	20
Tert-amyl methyl ether			25.0	23.6		ug/L		94	70 - 130	1	20
Tert-butyl ethyl ether			25.0	22.9		ug/L		92	70 - 130	1	20
tert-Butylbenzene			25.0	24.0		ug/L		96	70 - 130	3	20
Tetrachloroethene			25.0	25.3		ug/L		101	70 - 130	4	20
Tetrahydrofuran			50.0	72.2	*	ug/L		144	70 - 130	0	20
Toluene			25.0	23.2		ug/L		93	70 - 130	3	20
trans-1,2-Dichloroethene			25.0	24.4		ug/L		98	70 - 130	4	20
trans-1,3-Dichloropropene			25.0	24.9		ug/L		99	70 - 130	4	20
Trichloroethene			25.0	25.4		ug/L		102	70 - 130	2	20
Trichlorofluoromethane			25.0	27.0		ug/L		108	70 - 130	3	20
Vinyl chloride			25.0	25.8		ug/L		103	70 - 130	6	20
Dibromomethane			25.0	26.6		ug/L		106	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*95*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-352449/8
Matrix: Water
Analysis Batch: 352449

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/17/17 22:21	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/17/17 22:21	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/17/17 22:21	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/17/17 22:21	1
1,1-Dichloroethane	ND		1.0		ug/L			04/17/17 22:21	1
1,1-Dichloroethene	ND		1.0		ug/L			04/17/17 22:21	1
1,1-Dichloropropene	ND		1.0		ug/L			04/17/17 22:21	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/17/17 22:21	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/17/17 22:21	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/17/17 22:21	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/17/17 22:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/17/17 22:21	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/17/17 22:21	1
1,2-Dichloroethane	ND		1.0		ug/L			04/17/17 22:21	1
1,2-Dichloropropane	ND		1.0		ug/L			04/17/17 22:21	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/17/17 22:21	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/17/17 22:21	1
1,3-Dichloropropane	ND		1.0		ug/L			04/17/17 22:21	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/17/17 22:21	1
1,4-Dioxane	ND		50		ug/L			04/17/17 22:21	1
2,2-Dichloropropane	ND		1.0		ug/L			04/17/17 22:21	1
2-Butanone (MEK)	ND		10		ug/L			04/17/17 22:21	1
2-Chlorotoluene	ND		1.0		ug/L			04/17/17 22:21	1
2-Hexanone	ND		10		ug/L			04/17/17 22:21	1
4-Chlorotoluene	ND		1.0		ug/L			04/17/17 22:21	1
4-Isopropyltoluene	ND		1.0		ug/L			04/17/17 22:21	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/17/17 22:21	1
Acetone	ND		50		ug/L			04/17/17 22:21	1
Benzene	ND		1.0		ug/L			04/17/17 22:21	1
Bromobenzene	ND		1.0		ug/L			04/17/17 22:21	1
Bromoform	ND		1.0		ug/L			04/17/17 22:21	1
Bromomethane	ND		2.0		ug/L			04/17/17 22:21	1
Carbon disulfide	ND		10		ug/L			04/17/17 22:21	1
Carbon tetrachloride	ND		1.0		ug/L			04/17/17 22:21	1
Chlorobenzene	ND		1.0		ug/L			04/17/17 22:21	1
Chlorobromomethane	ND		1.0		ug/L			04/17/17 22:21	1
Chlorodibromomethane	ND		0.50		ug/L			04/17/17 22:21	1
Chloroethane	ND		2.0		ug/L			04/17/17 22:21	1
Chloroform	ND		1.0		ug/L			04/17/17 22:21	1
Chloromethane	ND		2.0		ug/L			04/17/17 22:21	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/17/17 22:21	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/17/17 22:21	1
Dichlorobromomethane	ND		0.50		ug/L			04/17/17 22:21	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/17/17 22:21	1
Ethyl ether	ND		1.0		ug/L			04/17/17 22:21	1
Ethylbenzene	ND		1.0		ug/L			04/17/17 22:21	1
Ethylene Dibromide	ND		1.0		ug/L			04/17/17 22:21	1
Hexachlorobutadiene	ND		0.40		ug/L			04/17/17 22:21	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-352449/8
Matrix: Water
Analysis Batch: 352449

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			04/17/17 22:21	1
Isopropylbenzene	ND		1.0		ug/L			04/17/17 22:21	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/17/17 22:21	1
Methylene Chloride	ND		1.0		ug/L			04/17/17 22:21	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/17/17 22:21	1
Naphthalene	ND		5.0		ug/L			04/17/17 22:21	1
n-Butylbenzene	ND		1.0		ug/L			04/17/17 22:21	1
N-Propylbenzene	ND		1.0		ug/L			04/17/17 22:21	1
o-Xylene	ND		1.0		ug/L			04/17/17 22:21	1
sec-Butylbenzene	ND		1.0		ug/L			04/17/17 22:21	1
Styrene	ND		1.0		ug/L			04/17/17 22:21	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/17/17 22:21	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/17/17 22:21	1
tert-Butylbenzene	ND		1.0		ug/L			04/17/17 22:21	1
Tetrachloroethene	ND		1.0		ug/L			04/17/17 22:21	1
Tetrahydrofuran	ND		10		ug/L			04/17/17 22:21	1
Toluene	ND		1.0		ug/L			04/17/17 22:21	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/17/17 22:21	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/17/17 22:21	1
Trichloroethene	ND		1.0		ug/L			04/17/17 22:21	1
Trichlorofluoromethane	ND		1.0		ug/L			04/17/17 22:21	1
Vinyl chloride	ND		1.0		ug/L			04/17/17 22:21	1
Dibromomethane	ND		1.0		ug/L			04/17/17 22:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*70 - 130*		*04/17/17 22:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*04/17/17 22:21*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/17/17 22:21*	*1*

Lab Sample ID: LCS 480-352449/5
Matrix: Water
Analysis Batch: 352449

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	21.7		ug/L		87	70 - 130
1,1,1-Trichloroethane	25.0	23.8		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.1		ug/L		97	70 - 130
1,1,2-Trichloroethane	25.0	23.6		ug/L		95	70 - 130
1,1-Dichloroethane	25.0	25.0		ug/L		100	70 - 130
1,1-Dichloroethene	25.0	23.8		ug/L		95	70 - 130
1,1-Dichloropropene	25.0	24.1		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	25.0	24.4		ug/L		97	70 - 130
1,2,3-Trichloropropane	25.0	22.5		ug/L		90	70 - 130
1,2,4-Trichlorobenzene	25.0	23.5		ug/L		94	70 - 130
1,2,4-Trimethylbenzene	25.0	22.3		ug/L		89	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	22.2		ug/L		89	70 - 130
1,2-Dichlorobenzene	25.0	23.3		ug/L		93	70 - 130
1,2-Dichloroethane	25.0	23.7		ug/L		95	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-352449/5
Matrix: Water
Analysis Batch: 352449

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	25.1		ug/L		101	70 - 130
1,3,5-Trimethylbenzene	25.0	22.0		ug/L		88	70 - 130
1,3-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130
1,3-Dichloropropane	25.0	22.3		ug/L		89	70 - 130
1,4-Dichlorobenzene	25.0	22.5		ug/L		90	70 - 130
1,4-Dioxane	500	439		ug/L		88	70 - 130
2,2-Dichloropropane	25.0	23.3		ug/L		93	70 - 130
2-Butanone (MEK)	125	143		ug/L		114	70 - 130
2-Chlorotoluene	25.0	22.2		ug/L		89	70 - 130
2-Hexanone	125	131		ug/L		105	70 - 130
4-Chlorotoluene	25.0	23.7		ug/L		95	70 - 130
4-Isopropyltoluene	25.0	22.6		ug/L		90	70 - 130
4-Methyl-2-pentanone (MIBK)	125	126		ug/L		101	70 - 130
Acetone	125	169	*	ug/L		135	70 - 130
Benzene	25.0	24.0		ug/L		96	70 - 130
Bromobenzene	25.0	22.1		ug/L		89	70 - 130
Bromoform	25.0	30.8		ug/L		123	70 - 130
Bromomethane	25.0	23.1		ug/L		92	70 - 130
Carbon disulfide	25.0	23.0		ug/L		92	70 - 130
Carbon tetrachloride	25.0	26.9		ug/L		108	70 - 130
Chlorobenzene	25.0	23.1		ug/L		92	70 - 130
Chlorobromomethane	25.0	25.2		ug/L		101	70 - 130
Chlorodibromomethane	25.0	24.6		ug/L		99	70 - 130
Chloroethane	25.0	21.6		ug/L		86	70 - 130
Chloroform	25.0	23.5		ug/L		94	70 - 130
Chloromethane	25.0	23.8		ug/L		95	70 - 130
cis-1,2-Dichloroethene	25.0	24.5		ug/L		98	70 - 130
cis-1,3-Dichloropropene	25.0	25.9		ug/L		103	70 - 130
Dichlorobromomethane	25.0	27.2		ug/L		109	70 - 130
Dichlorodifluoromethane	25.0	23.5		ug/L		94	70 - 130
Ethyl ether	25.0	24.8		ug/L		99	70 - 130
Ethylbenzene	25.0	21.5		ug/L		86	70 - 130
Ethylene Dibromide	25.0	23.3		ug/L		93	70 - 130
Hexachlorobutadiene	25.0	24.1		ug/L		96	70 - 130
Isopropyl ether	25.0	23.2		ug/L		93	70 - 130
Isopropylbenzene	25.0	22.0		ug/L		88	70 - 130
Methyl tert-butyl ether	25.0	24.0		ug/L		96	70 - 130
Methylene Chloride	25.0	23.1		ug/L		93	70 - 130
m-Xylene & p-Xylene	25.0	22.5		ug/L		90	70 - 130
Naphthalene	25.0	23.5		ug/L		94	70 - 130
n-Butylbenzene	25.0	22.3		ug/L		89	70 - 130
N-Propylbenzene	25.0	21.9		ug/L		87	70 - 130
o-Xylene	25.0	22.1		ug/L		88	70 - 130
sec-Butylbenzene	25.0	22.1		ug/L		88	70 - 130
Styrene	25.0	22.8		ug/L		91	70 - 130
Tert-amyl methyl ether	25.0	22.5		ug/L		90	70 - 130
Tert-butyl ethyl ether	25.0	21.9		ug/L		88	70 - 130
tert-Butylbenzene	25.0	23.3		ug/L		93	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-352449/5
Matrix: Water
Analysis Batch: 352449

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Tetrachloroethene			25.0	23.8		ug/L		95	70 - 130		
Tetrahydrofuran			50.0	66.5	*	ug/L		133	70 - 130		
Toluene			25.0	22.0		ug/L		88	70 - 130		
trans-1,2-Dichloroethene			25.0	24.7		ug/L		99	70 - 130		
trans-1,3-Dichloropropene			25.0	23.7		ug/L		95	70 - 130		
Trichloroethene			25.0	24.3		ug/L		97	70 - 130		
Trichlorofluoromethane			25.0	24.5		ug/L		98	70 - 130		
Vinyl chloride			25.0	23.5		ug/L		94	70 - 130		
Dibromomethane			25.0	25.2		ug/L		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 480-352449/6
Matrix: Water
Analysis Batch: 352449

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			25.0	22.9		ug/L		92	70 - 130	6	20
1,1,1-Trichloroethane			25.0	25.5		ug/L		102	70 - 130	7	20
1,1,2,2-Tetrachloroethane			25.0	24.3		ug/L		97	70 - 130	1	20
1,1,2-Trichloroethane			25.0	23.3		ug/L		93	70 - 130	2	20
1,1-Dichloroethane			25.0	26.4		ug/L		106	70 - 130	6	20
1,1-Dichloroethene			25.0	25.7		ug/L		103	70 - 130	8	20
1,1-Dichloropropene			25.0	25.6		ug/L		102	70 - 130	6	20
1,2,3-Trichlorobenzene			25.0	25.2		ug/L		101	70 - 130	4	20
1,2,3-Trichloropropane			25.0	23.6		ug/L		94	70 - 130	5	20
1,2,4-Trichlorobenzene			25.0	24.9		ug/L		100	70 - 130	6	20
1,2,4-Trimethylbenzene			25.0	23.1		ug/L		92	70 - 130	3	20
1,2-Dibromo-3-Chloropropane			25.0	23.0		ug/L		92	70 - 130	4	20
1,2-Dichlorobenzene			25.0	23.8		ug/L		95	70 - 130	2	20
1,2-Dichloroethane			25.0	24.1		ug/L		96	70 - 130	2	20
1,2-Dichloropropane			25.0	25.8		ug/L		103	70 - 130	3	20
1,3,5-Trimethylbenzene			25.0	23.7		ug/L		95	70 - 130	7	20
1,3-Dichlorobenzene			25.0	24.2		ug/L		97	70 - 130	4	20
1,3-Dichloropropane			25.0	22.9		ug/L		92	70 - 130	3	20
1,4-Dichlorobenzene			25.0	23.3		ug/L		93	70 - 130	4	20
1,4-Dioxane			500	461		ug/L		92	70 - 130	5	20
2,2-Dichloropropane			25.0	25.1		ug/L		100	70 - 130	7	20
2-Butanone (MEK)			125	144		ug/L		115	70 - 130	1	20
2-Chlorotoluene			25.0	23.3		ug/L		93	70 - 130	5	20
2-Hexanone			125	132		ug/L		105	70 - 130	0	20
4-Chlorotoluene			25.0	24.7		ug/L		99	70 - 130	4	20
4-Isopropyltoluene			25.0	24.4		ug/L		98	70 - 130	8	20
4-Methyl-2-pentanone (MIBK)			125	123		ug/L		99	70 - 130	2	20
Acetone			125	164	*	ug/L		132	70 - 130	3	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-352449/6
Matrix: Water
Analysis Batch: 352449

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			25.0	25.3		ug/L		101	70 - 130	5	20
Bromobenzene			25.0	24.0		ug/L		96	70 - 130	8	20
Bromoform			25.0	33.5	*	ug/L		134	70 - 130	8	20
Bromomethane			25.0	24.1		ug/L		96	70 - 130	4	20
Carbon disulfide			25.0	24.6		ug/L		98	70 - 130	7	20
Carbon tetrachloride			25.0	29.1		ug/L		116	70 - 130	8	20
Chlorobenzene			25.0	23.9		ug/L		96	70 - 130	3	20
Chlorobromomethane			25.0	26.0		ug/L		104	70 - 130	3	20
Chlorodibromomethane			25.0	25.2		ug/L		101	70 - 130	2	20
Chloroethane			25.0	22.8		ug/L		91	70 - 130	6	20
Chloroform			25.0	24.1		ug/L		97	70 - 130	3	20
Chloromethane			25.0	24.6		ug/L		99	70 - 130	3	20
cis-1,2-Dichloroethene			25.0	25.6		ug/L		102	70 - 130	4	20
cis-1,3-Dichloropropene			25.0	26.8		ug/L		107	70 - 130	4	20
Dichlorobromomethane			25.0	28.3		ug/L		113	70 - 130	4	20
Dichlorodifluoromethane			25.0	26.0		ug/L		104	70 - 130	10	20
Ethyl ether			25.0	24.4		ug/L		98	70 - 130	1	20
Ethylbenzene			25.0	23.2		ug/L		93	70 - 130	8	20
Ethylene Dibromide			25.0	23.3		ug/L		93	70 - 130	0	20
Hexachlorobutadiene			25.0	25.3		ug/L		101	70 - 130	5	20
Isopropyl ether			25.0	23.6		ug/L		94	70 - 130	2	20
Isopropylbenzene			25.0	23.2		ug/L		93	70 - 130	6	20
Methyl tert-butyl ether			25.0	24.2		ug/L		97	70 - 130	1	20
Methylene Chloride			25.0	23.8		ug/L		95	70 - 130	3	20
m-Xylene & p-Xylene			25.0	23.5		ug/L		94	70 - 130	4	20
Naphthalene			25.0	23.6		ug/L		94	70 - 130	0	20
n-Butylbenzene			25.0	23.8		ug/L		95	70 - 130	6	20
N-Propylbenzene			25.0	23.6		ug/L		94	70 - 130	8	20
o-Xylene			25.0	23.0		ug/L		92	70 - 130	4	20
sec-Butylbenzene			25.0	24.2		ug/L		97	70 - 130	9	20
Styrene			25.0	23.9		ug/L		96	70 - 130	5	20
Tert-amyl methyl ether			25.0	22.8		ug/L		91	70 - 130	1	20
Tert-butyl ethyl ether			25.0	22.0		ug/L		88	70 - 130	0	20
tert-Butylbenzene			25.0	24.7		ug/L		99	70 - 130	6	20
Tetrachloroethene			25.0	25.1		ug/L		101	70 - 130	6	20
Tetrahydrofuran			50.0	67.3	*	ug/L		135	70 - 130	1	20
Toluene			25.0	22.9		ug/L		92	70 - 130	4	20
trans-1,2-Dichloroethene			25.0	25.4		ug/L		102	70 - 130	3	20
trans-1,3-Dichloropropene			25.0	24.5		ug/L		98	70 - 130	3	20
Trichloroethene			25.0	25.5		ug/L		102	70 - 130	5	20
Trichlorofluoromethane			25.0	26.4		ug/L		105	70 - 130	7	20
Vinyl chloride			25.0	25.5		ug/L		102	70 - 130	8	20
Dibromomethane			25.0	25.9		ug/L		103	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-115834/1-A
Matrix: Water
Analysis Batch: 115901

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 115834

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/14/17 17:35	04/18/17 17:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*95*		*46 - 130*	*04/14/17 17:35*	*04/18/17 17:20*	*1*

Lab Sample ID: LCS 200-115834/2-A
Matrix: Water
Analysis Batch: 115901

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 115834

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.00	2.15		ug/L		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*99*		*46 - 130*

Lab Sample ID: LCSD 200-115834/3-A
Matrix: Water
Analysis Batch: 115901

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 115834

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	2.00	2.12		ug/L		106	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*97*		*46 - 130*

Method: 6010 - Metals (ICP)

Lab Sample ID: MB 480-351627/1-A
Matrix: Water
Analysis Batch: 352098

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351627

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050		mg/L		04/13/17 09:05	04/13/17 23:26	1

Lab Sample ID: LCS 480-351627/2-A
Matrix: Water
Analysis Batch: 352098

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351627

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	10.3		mg/L		103	80 - 120

Lab Sample ID: LCSD 480-351627/3-A
Matrix: Water
Analysis Batch: 352098

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 351627

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	10.0	10.5		mg/L		105	80 - 120	2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-352836/4
Matrix: Water
Analysis Batch: 352836

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			04/19/17 12:49	1
Sulfate	ND		2.0		mg/L			04/19/17 12:49	1

Lab Sample ID: LCS 480-352836/3
Matrix: Water
Analysis Batch: 352836

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.9		mg/L		100	90 - 110
Sulfate	50.0	48.2		mg/L		96	90 - 110

Lab Sample ID: 480-116033-8 MS
Matrix: Water
Analysis Batch: 352836

Client Sample ID: MW-562-20170411
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	45		2500	2640		mg/L		104	81 - 120
Sulfate	ND		2500	2850		mg/L		114	80 - 120

Lab Sample ID: 480-116033-8 MSD
Matrix: Water
Analysis Batch: 352836

Client Sample ID: MW-562-20170411
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	45		2500	2650		mg/L		104	81 - 120	1	20
Sulfate	ND		2500	2920		mg/L		117	80 - 120	3	20

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-351911/2-A
Matrix: Water
Analysis Batch: 352115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351911

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		04/13/17 16:42	04/14/17 08:43	1

Lab Sample ID: LCS 480-351911/1-A
Matrix: Water
Analysis Batch: 352115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351911

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.07		mg/L		107	90 - 110

Lab Sample ID: MB 480-352153/2-A
Matrix: Water
Analysis Batch: 352600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352153

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		04/14/17 18:49	04/18/17 09:44	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 480-352153/1-A
Matrix: Water
Analysis Batch: 352600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352153

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.960		mg/L		96	90 - 110

Lab Sample ID: MB 480-352155/2-A
Matrix: Water
Analysis Batch: 352600

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 352155

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		04/14/17 19:06	04/18/17 09:45	1

Lab Sample ID: LCS 480-352155/1-A
Matrix: Water
Analysis Batch: 352600

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 352155

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.921		mg/L		92	90 - 110

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-352260/29
Matrix: Water
Analysis Batch: 352260

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			04/15/17 04:50	1
TOC Result 2	ND		1.0		mg/L			04/15/17 04:50	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/15/17 04:50	1

Lab Sample ID: LCS 480-352260/30
Matrix: Water
Analysis Batch: 352260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	58.6		mg/L		98	90 - 110
TOC Result 2	60.0	60.9		mg/L		102	90 - 110
Total Organic Carbon - Duplicates	60.0	59.8		mg/L		100	90 - 110

Lab Sample ID: 480-116033-4 MS
Matrix: Water
Analysis Batch: 352260

Client Sample ID: MW-552-20170411
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	2.0		20.0	22.8		mg/L		104	54 - 131
TOC Result 2	2.2		20.0	23.1		mg/L		104	54 - 131
Total Organic Carbon - Duplicates	2.1		20.0	23.0		mg/L		104	54 - 131

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 480-116033-8 MS
Matrix: Water
Analysis Batch: 352260

Client Sample ID: MW-562-20170411
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	2600		1600	4290		mg/L		103	54 - 131
TOC Result 2	2600		1600	4320		mg/L		108	54 - 131
Total Organic Carbon - Duplicates	2600		1600	4300		mg/L		105	54 - 131

Lab Sample ID: 480-116033-1 DU
Matrix: Water
Analysis Batch: 352260

Client Sample ID: MW-261S-20170411
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
TOC Result 1	2.8		2.87		mg/L		4	20
TOC Result 2	3.1		2.96		mg/L		5	20
Total Organic Carbon - Duplicates	2.9		2.91		mg/L		0.7	20

Lab Sample ID: MB 480-352731/4
Matrix: Water
Analysis Batch: 352731

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			04/17/17 14:53	1
TOC Result 2	ND		1.0		mg/L			04/17/17 14:53	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/17/17 14:53	1

Lab Sample ID: MB 480-352731/76
Matrix: Water
Analysis Batch: 352731

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			04/19/17 00:17	1
TOC Result 2	ND		1.0		mg/L			04/19/17 00:17	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/19/17 00:17	1

Lab Sample ID: LCS 480-352731/5
Matrix: Water
Analysis Batch: 352731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	61.6		mg/L		103	90 - 110
TOC Result 2	60.0	62.0		mg/L		103	90 - 110
Total Organic Carbon - Duplicates	60.0	61.8		mg/L		103	90 - 110

Lab Sample ID: LCS 480-352731/77
Matrix: Water
Analysis Batch: 352731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	61.7		mg/L		103	90 - 110
TOC Result 2	60.0	61.9		mg/L		103	90 - 110

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 480-352731/77
Matrix: Water
Analysis Batch: 352731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	60.0	61.8		mg/L		103	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-352401/30
Matrix: Water
Analysis Batch: 352401

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			04/14/17 22:57	1

Lab Sample ID: LCS 480-352401/31
Matrix: Water
Analysis Batch: 352401

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	94.2		mg/L		94	90 - 110

Lab Sample ID: 480-116033-4 MS
Matrix: Water
Analysis Batch: 352401

Client Sample ID: MW-552-20170411
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	380	F1	100	434	F1	mg/L		53	60 - 140

Lab Sample ID: 480-116033-1 DU
Matrix: Water
Analysis Batch: 352401

Client Sample ID: MW-261S-20170411
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity, Total	380		378		mg/L		0.1	20

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 480-351673/3
Matrix: Water
Analysis Batch: 351673

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ortho-Phosphate	ND		0.020		mg/L			04/12/17 22:00	1

Lab Sample ID: LCS 480-351673/4
Matrix: Water
Analysis Batch: 351673

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.200	0.203		mg/L		102	90 - 110

Method: SM 4500 P E - Orthophosphate (Continued)

Lab Sample ID: 480-116033-6 MS
Matrix: Water
Analysis Batch: 351673

Client Sample ID: MW-560-20170411
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
ortho-Phosphate	ND		1.00	0.959		mg/L		96	49 - 138		

Lab Sample ID: 480-116033-6 MSD
Matrix: Water
Analysis Batch: 351673

Client Sample ID: MW-560-20170411
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
ortho-Phosphate	ND		1.00	0.959		mg/L		96	49 - 138	0	20

GC/MS VOA

Analysis Batch: 352253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-3	MW-264M-20170411	Total/NA	Water	8260C	
480-116033-5	MW-553-20170411	Total/NA	Water	8260C	
480-116033-6	MW-560-20170411	Total/NA	Water	8260C	
480-116033-8	MW-562-20170411	Total/NA	Water	8260C	
480-116033-9	MW-563-20170411	Total/NA	Water	8260C	
480-116033-10	REW-8-20170411	Total/NA	Water	8260C	
480-116033-11	REW-9-20170411	Total/NA	Water	8260C	
480-116033-12	REW-10-20170411	Total/NA	Water	8260C	
480-116033-15	TRIP BLANKS	Total/NA	Water	8260C	
MB 480-352253/8	Method Blank	Total/NA	Water	8260C	
LCS 480-352253/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-352253/6	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 352315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-1	MW-261S-20170411	Total/NA	Water	8260C	
480-116033-2	MW-266Ma-20170411	Total/NA	Water	8260C	
480-116033-4	MW-552-20170411	Total/NA	Water	8260C	
480-116033-7	MW-561-20170411	Total/NA	Water	8260C	
480-116033-13	REW-12-20170411	Total/NA	Water	8260C	
480-116033-14	DUP3-20170411	Total/NA	Water	8260C	
MB 480-352315/8	Method Blank	Total/NA	Water	8260C	
LCS 480-352315/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-352315/6	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 352449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-8 - DL	MW-562-20170411	Total/NA	Water	8260C	
MB 480-352449/8	Method Blank	Total/NA	Water	8260C	
LCS 480-352449/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-352449/6	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 115834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-1	MW-261S-20170411	Total/NA	Water	3535A	
480-116033-2	MW-266Ma-20170411	Total/NA	Water	3535A	
480-116033-4	MW-552-20170411	Total/NA	Water	3535A	
MB 200-115834/1-A	Method Blank	Total/NA	Water	3535A	
LCS 200-115834/2-A	Lab Control Sample	Total/NA	Water	3535A	
LCSD 200-115834/3-A	Lab Control Sample Dup	Total/NA	Water	3535A	

Analysis Batch: 115901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-1	MW-261S-20170411	Total/NA	Water	522	115834
480-116033-2	MW-266Ma-20170411	Total/NA	Water	522	115834
480-116033-4	MW-552-20170411	Total/NA	Water	522	115834
MB 200-115834/1-A	Method Blank	Total/NA	Water	522	115834
LCS 200-115834/2-A	Lab Control Sample	Total/NA	Water	522	115834

GC/MS Semi VOA (Continued)

Analysis Batch: 115901 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 200-115834/3-A	Lab Control Sample Dup	Total/NA	Water	522	115834

Metals

Prep Batch: 351627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-1	MW-261S-20170411	Total/NA	Water	3005A	
480-116033-4	MW-552-20170411	Total/NA	Water	3005A	
480-116033-5	MW-553-20170411	Total/NA	Water	3005A	
480-116033-6	MW-560-20170411	Total/NA	Water	3005A	
480-116033-7	MW-561-20170411	Total/NA	Water	3005A	
480-116033-8	MW-562-20170411	Total/NA	Water	3005A	
480-116033-9	MW-563-20170411	Total/NA	Water	3005A	
480-116033-10	REW-8-20170411	Total/NA	Water	3005A	
480-116033-11	REW-9-20170411	Total/NA	Water	3005A	
480-116033-12	REW-10-20170411	Total/NA	Water	3005A	
480-116033-13	REW-12-20170411	Total/NA	Water	3005A	
MB 480-351627/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-351627/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-351627/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Analysis Batch: 352098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-1	MW-261S-20170411	Total/NA	Water	6010	351627
480-116033-4	MW-552-20170411	Total/NA	Water	6010	351627
480-116033-5	MW-553-20170411	Total/NA	Water	6010	351627
480-116033-6	MW-560-20170411	Total/NA	Water	6010	351627
480-116033-7	MW-561-20170411	Total/NA	Water	6010	351627
480-116033-8	MW-562-20170411	Total/NA	Water	6010	351627
480-116033-9	MW-563-20170411	Total/NA	Water	6010	351627
480-116033-10	REW-8-20170411	Total/NA	Water	6010	351627
480-116033-11	REW-9-20170411	Total/NA	Water	6010	351627
480-116033-12	REW-10-20170411	Total/NA	Water	6010	351627
480-116033-13	REW-12-20170411	Total/NA	Water	6010	351627
MB 480-351627/1-A	Method Blank	Total/NA	Water	6010	351627
LCS 480-351627/2-A	Lab Control Sample	Total/NA	Water	6010	351627
LCSD 480-351627/3-A	Lab Control Sample Dup	Total/NA	Water	6010	351627

General Chemistry

Analysis Batch: 351673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-1	MW-261S-20170411	Total/NA	Water	SM 4500 P E	
480-116033-4	MW-552-20170411	Total/NA	Water	SM 4500 P E	
480-116033-5	MW-553-20170411	Total/NA	Water	SM 4500 P E	
480-116033-6	MW-560-20170411	Total/NA	Water	SM 4500 P E	
480-116033-7	MW-561-20170411	Total/NA	Water	SM 4500 P E	
480-116033-8	MW-562-20170411	Total/NA	Water	SM 4500 P E	
480-116033-9	MW-563-20170411	Total/NA	Water	SM 4500 P E	
480-116033-10	REW-8-20170411	Total/NA	Water	SM 4500 P E	

General Chemistry (Continued)

Analysis Batch: 351673 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-11	REW-9-20170411	Total/NA	Water	SM 4500 P E	
480-116033-12	REW-10-20170411	Total/NA	Water	SM 4500 P E	
480-116033-13	REW-12-20170411	Total/NA	Water	SM 4500 P E	
MB 480-351673/3	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-351673/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	
480-116033-6 MS	MW-560-20170411	Total/NA	Water	SM 4500 P E	
480-116033-6 MSD	MW-560-20170411	Total/NA	Water	SM 4500 P E	

Analysis Batch: 351682

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-1	MW-261S-20170411	Total/NA	Water	353.2	
480-116033-4	MW-552-20170411	Total/NA	Water	353.2	
480-116033-5	MW-553-20170411	Total/NA	Water	353.2	
480-116033-6	MW-560-20170411	Total/NA	Water	353.2	
480-116033-7	MW-561-20170411	Total/NA	Water	353.2	
480-116033-8	MW-562-20170411	Total/NA	Water	353.2	
480-116033-9	MW-563-20170411	Total/NA	Water	353.2	
480-116033-10	REW-8-20170411	Total/NA	Water	353.2	
480-116033-11	REW-9-20170411	Total/NA	Water	353.2	
480-116033-12	REW-10-20170411	Total/NA	Water	353.2	
480-116033-13	REW-12-20170411	Total/NA	Water	353.2	

Prep Batch: 351911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-1	MW-261S-20170411	Total/NA	Water	Distill/Ammonia	
480-116033-4	MW-552-20170411	Total/NA	Water	Distill/Ammonia	
480-116033-5	MW-553-20170411	Total/NA	Water	Distill/Ammonia	
480-116033-6	MW-560-20170411	Total/NA	Water	Distill/Ammonia	
480-116033-7	MW-561-20170411	Total/NA	Water	Distill/Ammonia	
480-116033-9	MW-563-20170411	Total/NA	Water	Distill/Ammonia	
480-116033-11	REW-9-20170411	Total/NA	Water	Distill/Ammonia	
480-116033-12	REW-10-20170411	Total/NA	Water	Distill/Ammonia	
MB 480-351911/2-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-351911/1-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 352115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-1	MW-261S-20170411	Total/NA	Water	350.1	351911
480-116033-4	MW-552-20170411	Total/NA	Water	350.1	351911
480-116033-5	MW-553-20170411	Total/NA	Water	350.1	351911
480-116033-6	MW-560-20170411	Total/NA	Water	350.1	351911
480-116033-7	MW-561-20170411	Total/NA	Water	350.1	351911
480-116033-9	MW-563-20170411	Total/NA	Water	350.1	351911
480-116033-11	REW-9-20170411	Total/NA	Water	350.1	351911
480-116033-12	REW-10-20170411	Total/NA	Water	350.1	351911
MB 480-351911/2-A	Method Blank	Total/NA	Water	350.1	351911
LCS 480-351911/1-A	Lab Control Sample	Total/NA	Water	350.1	351911

Prep Batch: 352153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-8	MW-562-20170411	Total/NA	Water	Distill/Ammonia	

General Chemistry (Continued)

Prep Batch: 352153 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-13	REW-12-20170411	Total/NA	Water	Distill/Ammonia	
MB 480-352153/2-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-352153/1-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Prep Batch: 352155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-10	REW-8-20170411	Total/NA	Water	Distill/Ammonia	
MB 480-352155/2-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-352155/1-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 352260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-1	MW-261S-20170411	Total/NA	Water	9060A	
480-116033-4	MW-552-20170411	Total/NA	Water	9060A	
480-116033-5	MW-553-20170411	Total/NA	Water	9060A	
480-116033-6	MW-560-20170411	Total/NA	Water	9060A	
480-116033-7	MW-561-20170411	Total/NA	Water	9060A	
480-116033-8	MW-562-20170411	Total/NA	Water	9060A	
480-116033-10	REW-8-20170411	Total/NA	Water	9060A	
480-116033-11	REW-9-20170411	Total/NA	Water	9060A	
480-116033-12	REW-10-20170411	Total/NA	Water	9060A	
480-116033-13	REW-12-20170411	Total/NA	Water	9060A	
MB 480-352260/29	Method Blank	Total/NA	Water	9060A	
LCS 480-352260/30	Lab Control Sample	Total/NA	Water	9060A	
480-116033-4 MS	MW-552-20170411	Total/NA	Water	9060A	
480-116033-8 MS	MW-562-20170411	Total/NA	Water	9060A	
480-116033-1 DU	MW-261S-20170411	Total/NA	Water	9060A	

Analysis Batch: 352400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-1	MW-261S-20170411	Total/NA	Water	9040C	
480-116033-4	MW-552-20170411	Total/NA	Water	9040C	
480-116033-5	MW-553-20170411	Total/NA	Water	9040C	
480-116033-6	MW-560-20170411	Total/NA	Water	9040C	
480-116033-7	MW-561-20170411	Total/NA	Water	9040C	
480-116033-8	MW-562-20170411	Total/NA	Water	9040C	
480-116033-9	MW-563-20170411	Total/NA	Water	9040C	
480-116033-10	REW-8-20170411	Total/NA	Water	9040C	
480-116033-11	REW-9-20170411	Total/NA	Water	9040C	
480-116033-12	REW-10-20170411	Total/NA	Water	9040C	
LCS 480-352400/1	Lab Control Sample	Total/NA	Water	9040C	

Analysis Batch: 352401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-1	MW-261S-20170411	Total/NA	Water	SM 2320B	
480-116033-4	MW-552-20170411	Total/NA	Water	SM 2320B	
480-116033-5	MW-553-20170411	Total/NA	Water	SM 2320B	
480-116033-6	MW-560-20170411	Total/NA	Water	SM 2320B	
480-116033-7	MW-561-20170411	Total/NA	Water	SM 2320B	
480-116033-8	MW-562-20170411	Total/NA	Water	SM 2320B	
480-116033-9	MW-563-20170411	Total/NA	Water	SM 2320B	

General Chemistry (Continued)

Analysis Batch: 352401 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-10	REW-8-20170411	Total/NA	Water	SM 2320B	
480-116033-11	REW-9-20170411	Total/NA	Water	SM 2320B	
480-116033-12	REW-10-20170411	Total/NA	Water	SM 2320B	
480-116033-13	REW-12-20170411	Total/NA	Water	SM 2320B	
MB 480-352401/30	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-352401/31	Lab Control Sample	Total/NA	Water	SM 2320B	
480-116033-4 MS	MW-552-20170411	Total/NA	Water	SM 2320B	
480-116033-1 DU	MW-261S-20170411	Total/NA	Water	SM 2320B	

Analysis Batch: 352459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-13	REW-12-20170411	Total/NA	Water	9040C	
LCS 480-352459/1	Lab Control Sample	Total/NA	Water	9040C	

Analysis Batch: 352600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-8	MW-562-20170411	Total/NA	Water	350.1	352153
480-116033-13	REW-12-20170411	Total/NA	Water	350.1	352153
MB 480-352153/2-A	Method Blank	Total/NA	Water	350.1	352153
MB 480-352155/2-A	Method Blank	Total/NA	Water	350.1	352155
LCS 480-352153/1-A	Lab Control Sample	Total/NA	Water	350.1	352153
LCS 480-352155/1-A	Lab Control Sample	Total/NA	Water	350.1	352155

Analysis Batch: 352601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-10	REW-8-20170411	Total/NA	Water	350.1	352155

Analysis Batch: 352731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-9	MW-563-20170411	Total/NA	Water	9060A	
MB 480-352731/4	Method Blank	Total/NA	Water	9060A	
MB 480-352731/76	Method Blank	Total/NA	Water	9060A	
LCS 480-352731/5	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-352731/77	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 352836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-1	MW-261S-20170411	Total/NA	Water	300.0	
480-116033-4	MW-552-20170411	Total/NA	Water	300.0	
480-116033-5	MW-553-20170411	Total/NA	Water	300.0	
480-116033-6	MW-560-20170411	Total/NA	Water	300.0	
480-116033-7	MW-561-20170411	Total/NA	Water	300.0	
480-116033-8	MW-562-20170411	Total/NA	Water	300.0	
480-116033-9	MW-563-20170411	Total/NA	Water	300.0	
480-116033-10	REW-8-20170411	Total/NA	Water	300.0	
480-116033-11	REW-9-20170411	Total/NA	Water	300.0	
480-116033-12	REW-10-20170411	Total/NA	Water	300.0	
480-116033-13	REW-12-20170411	Total/NA	Water	300.0	
MB 480-352836/4	Method Blank	Total/NA	Water	300.0	
LCS 480-352836/3	Lab Control Sample	Total/NA	Water	300.0	
480-116033-8 MS	MW-562-20170411	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 352836 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116033-8 MSD	MW-562-20170411	Total/NA	Water	300.0	

Client Sample ID: MW-261S-20170411
Date Collected: 04/11/17 10:35
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352315	04/17/17 13:19	RRS	TAL BUF
Total/NA	Prep	3535A			115834	04/14/17 17:35	RCK	TAL BUR
Total/NA	Analysis	522		1	115901	04/18/17 19:19	TPB	TAL BUR
Total/NA	Prep	3005A			351627	04/13/17 09:05	MVZ	TAL BUF
Total/NA	Analysis	6010		1	352098	04/14/17 00:17	SLB	TAL BUF
Total/NA	Analysis	300.0		2	352836	04/19/17 12:58	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			351911	04/13/17 16:42	KRT	TAL BUF
Total/NA	Analysis	350.1		1	352115	04/14/17 08:46	KRT	TAL BUF
Total/NA	Analysis	353.2		1	351682	04/12/17 18:20	DSC	TAL BUF
Total/NA	Analysis	9040C		1	352400	04/14/17 23:45	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	352260	04/15/17 06:14	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	352401	04/14/17 23:10	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	351673	04/12/17 22:00	DCB	TAL BUF

Client Sample ID: MW-266Ma-20170411
Date Collected: 04/11/17 07:55
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352315	04/17/17 13:43	RRS	TAL BUF
Total/NA	Prep	3535A			115834	04/14/17 17:35	RCK	TAL BUR
Total/NA	Analysis	522		1	115901	04/18/17 19:35	TPB	TAL BUR

Client Sample ID: MW-264M-20170411
Date Collected: 04/11/17 14:30
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352253	04/16/17 16:49	JWG	TAL BUF

Client Sample ID: MW-552-20170411
Date Collected: 04/11/17 11:30
Date Received: 04/12/17 10:00

Lab Sample ID: 480-116033-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352315	04/17/17 14:06	RRS	TAL BUF
Total/NA	Prep	3535A			115834	04/14/17 17:35	RCK	TAL BUR
Total/NA	Analysis	522		1	115901	04/18/17 19:52	TPB	TAL BUR
Total/NA	Prep	3005A			351627	04/13/17 09:05	MVZ	TAL BUF
Total/NA	Analysis	6010		1	352098	04/14/17 00:20	SLB	TAL BUF
Total/NA	Analysis	300.0		2	352836	04/19/17 13:06	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			351911	04/13/17 16:42	KRT	TAL BUF

Client Sample ID: MW-552-20170411

Lab Sample ID: 480-116033-4

Date Collected: 04/11/17 11:30

Matrix: Water

Date Received: 04/12/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	350.1		1	352115	04/14/17 08:47	KRT	TAL BUF
Total/NA	Analysis	353.2		1	351682	04/12/17 18:48	DSC	TAL BUF
Total/NA	Analysis	9040C		1	352400	04/14/17 23:48	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	352260	04/15/17 07:10	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	352401	04/14/17 23:24	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	351673	04/12/17 22:00	DCB	TAL BUF

Client Sample ID: MW-553-20170411

Lab Sample ID: 480-116033-5

Date Collected: 04/11/17 12:30

Matrix: Water

Date Received: 04/12/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352253	04/16/17 17:36	JWG	TAL BUF
Total/NA	Prep	3005A			351627	04/13/17 09:05	MVZ	TAL BUF
Total/NA	Analysis	6010		1	352098	04/14/17 00:23	SLB	TAL BUF
Total/NA	Analysis	300.0		5	352836	04/19/17 13:14	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			351911	04/13/17 16:42	KRT	TAL BUF
Total/NA	Analysis	350.1		1	352115	04/14/17 08:48	KRT	TAL BUF
Total/NA	Analysis	353.2		1	351682	04/13/17 00:37	DSC	TAL BUF
Total/NA	Analysis	9040C		1	352400	04/14/17 23:51	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	352260	04/15/17 08:06	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	352401	04/14/17 23:38	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	351673	04/12/17 22:00	DCB	TAL BUF

Client Sample ID: MW-560-20170411

Lab Sample ID: 480-116033-6

Date Collected: 04/11/17 09:55

Matrix: Water

Date Received: 04/12/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352253	04/16/17 18:00	JWG	TAL BUF
Total/NA	Prep	3005A			351627	04/13/17 09:05	MVZ	TAL BUF
Total/NA	Analysis	6010		1	352098	04/14/17 00:37	SLB	TAL BUF
Total/NA	Analysis	300.0		1	352836	04/19/17 13:22	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			351911	04/13/17 16:42	KRT	TAL BUF
Total/NA	Analysis	350.1		1	352115	04/14/17 08:48	KRT	TAL BUF
Total/NA	Analysis	353.2		1	351682	04/12/17 17:58	DSC	TAL BUF
Total/NA	Analysis	9040C		1	352400	04/14/17 23:54	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	352260	04/15/17 08:34	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	352401	04/14/17 23:44	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	351673	04/12/17 22:00	DCB	TAL BUF

Client Sample ID: MW-561-20170411

Lab Sample ID: 480-116033-7

Date Collected: 04/11/17 13:10

Matrix: Water

Date Received: 04/12/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352315	04/17/17 14:30	RRS	TAL BUF
Total/NA	Prep	3005A			351627	04/13/17 09:05	MVZ	TAL BUF
Total/NA	Analysis	6010		1	352098	04/14/17 00:40	SLB	TAL BUF
Total/NA	Analysis	300.0		1	352836	04/19/17 13:30	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			351911	04/13/17 16:42	KRT	TAL BUF
Total/NA	Analysis	350.1		1	352115	04/14/17 08:54	KRT	TAL BUF
Total/NA	Analysis	353.2		1	351682	04/13/17 00:51	DSC	TAL BUF
Total/NA	Analysis	9040C		1	352400	04/14/17 23:57	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	352260	04/15/17 09:02	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	352401	04/14/17 23:49	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	351673	04/12/17 22:00	DCB	TAL BUF

Client Sample ID: MW-562-20170411

Lab Sample ID: 480-116033-8

Date Collected: 04/11/17 13:30

Matrix: Water

Date Received: 04/12/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352253	04/16/17 18:47	JWG	TAL BUF
Total/NA	Analysis	8260C	DL	8	352449	04/17/17 22:56	JWG	TAL BUF
Total/NA	Prep	3005A			351627	04/13/17 09:05	MVZ	TAL BUF
Total/NA	Analysis	6010		1	352098	04/14/17 00:44	SLB	TAL BUF
Total/NA	Analysis	300.0		50	352836	04/19/17 13:38	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			352153	04/14/17 18:49	KRT	TAL BUF
Total/NA	Analysis	350.1		1	352600	04/18/17 09:57	KRT	TAL BUF
Total/NA	Analysis	353.2		1	351682	04/12/17 19:40	DSC	TAL BUF
Total/NA	Analysis	9040C		1	352400	04/15/17 00:00	ALZ	TAL BUF
Total/NA	Analysis	9060A		80	352260	04/15/17 10:25	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	352401	04/14/17 23:59	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		2	351673	04/12/17 22:00	DCB	TAL BUF

Client Sample ID: MW-563-20170411

Lab Sample ID: 480-116033-9

Date Collected: 04/11/17 09:15

Matrix: Water

Date Received: 04/12/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352253	04/16/17 19:10	JWG	TAL BUF
Total/NA	Prep	3005A			351627	04/13/17 09:05	MVZ	TAL BUF
Total/NA	Analysis	6010		1	352098	04/14/17 00:47	SLB	TAL BUF
Total/NA	Analysis	300.0		1	352836	04/19/17 14:19	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			351911	04/13/17 16:42	KRT	TAL BUF
Total/NA	Analysis	350.1		1	352115	04/14/17 08:56	KRT	TAL BUF

Client Sample ID: MW-563-20170411

Lab Sample ID: 480-116033-9

Date Collected: 04/11/17 09:15

Matrix: Water

Date Received: 04/12/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	351682	04/12/17 17:49	DSC	TAL BUF
Total/NA	Analysis	9040C		1	352400	04/15/17 00:02	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	352731	04/17/17 15:48	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	352401	04/15/17 00:15	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	351673	04/12/17 22:00	DCB	TAL BUF

Client Sample ID: REW-8-20170411

Lab Sample ID: 480-116033-10

Date Collected: 04/11/17 10:40

Matrix: Water

Date Received: 04/12/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352253	04/16/17 19:34	JWG	TAL BUF
Total/NA	Prep	3005A			351627	04/13/17 09:05	MVZ	TAL BUF
Total/NA	Analysis	6010		1	352098	04/14/17 00:51	SLB	TAL BUF
Total/NA	Analysis	300.0		1	352836	04/19/17 14:27	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			352155	04/14/17 19:06	KRT	TAL BUF
Total/NA	Analysis	350.1		1	352601	04/18/17 11:10	KRT	TAL BUF
Total/NA	Analysis	353.2		1	351682	04/13/17 00:05	DSC	TAL BUF
Total/NA	Analysis	9040C		1	352400	04/15/17 00:05	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	352260	04/15/17 12:17	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	352401	04/15/17 00:19	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	351673	04/12/17 22:00	DCB	TAL BUF

Client Sample ID: REW-9-20170411

Lab Sample ID: 480-116033-11

Date Collected: 04/11/17 11:20

Matrix: Water

Date Received: 04/12/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352253	04/16/17 19:57	JWG	TAL BUF
Total/NA	Prep	3005A			351627	04/13/17 09:05	MVZ	TAL BUF
Total/NA	Analysis	6010		1	352098	04/14/17 00:54	SLB	TAL BUF
Total/NA	Analysis	300.0		1	352836	04/19/17 14:35	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			351911	04/13/17 16:42	KRT	TAL BUF
Total/NA	Analysis	350.1		1	352115	04/14/17 08:57	KRT	TAL BUF
Total/NA	Analysis	353.2		1	351682	04/13/17 00:21	DSC	TAL BUF
Total/NA	Analysis	9040C		1	352400	04/15/17 00:08	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	352260	04/15/17 12:46	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	352401	04/15/17 00:24	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	351673	04/12/17 22:00	DCB	TAL BUF

Client Sample ID: REW-10-20170411

Lab Sample ID: 480-116033-12

Date Collected: 04/11/17 12:15

Matrix: Water

Date Received: 04/12/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352253	04/16/17 20:21	JWG	TAL BUF
Total/NA	Prep	3005A			351627	04/13/17 09:05	MVZ	TAL BUF
Total/NA	Analysis	6010		1	352098	04/14/17 00:58	SLB	TAL BUF
Total/NA	Analysis	300.0		1	352836	04/19/17 14:43	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			351911	04/13/17 16:42	KRT	TAL BUF
Total/NA	Analysis	350.1		1	352115	04/14/17 08:58	KRT	TAL BUF
Total/NA	Analysis	353.2		1	351682	04/13/17 00:35	DSC	TAL BUF
Total/NA	Analysis	9040C		1	352400	04/15/17 00:11	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	352260	04/15/17 13:15	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	352401	04/15/17 00:30	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	351673	04/12/17 22:00	DCB	TAL BUF

Client Sample ID: REW-12-20170411

Lab Sample ID: 480-116033-13

Date Collected: 04/11/17 08:30

Matrix: Water

Date Received: 04/12/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	352315	04/17/17 15:17	RRS	TAL BUF
Total/NA	Prep	3005A			351627	04/13/17 09:05	MVZ	TAL BUF
Total/NA	Analysis	6010		1	352098	04/14/17 01:01	SLB	TAL BUF
Total/NA	Analysis	300.0		5	352836	04/19/17 14:52	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			352153	04/14/17 18:49	KRT	TAL BUF
Total/NA	Analysis	350.1		1	352600	04/18/17 09:57	KRT	TAL BUF
Total/NA	Analysis	353.2		1	351682	04/12/17 17:35	DSC	TAL BUF
Total/NA	Analysis	9040C		1	352459	04/17/17 20:47	ALZ	TAL BUF
Total/NA	Analysis	9060A		80	352260	04/15/17 13:42	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	352401	04/15/17 00:38	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	351673	04/12/17 22:00	DCB	TAL BUF

Client Sample ID: DUP3-20170411

Lab Sample ID: 480-116033-14

Date Collected: 04/11/17 00:00

Matrix: Water

Date Received: 04/12/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352315	04/17/17 15:41	RRS	TAL BUF

Client Sample ID: TRIP BLANKS — **Lab Sample ID: 480-116033-15**

Date Collected: 04/11/17 00:00 — **Matrix: Water**

Date Received: 04/12/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352253	04/16/17 21:32	JWG	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116033-1

Laboratory: TestAmerica Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-17
California	State Program	9	1169CA	09-30-17
Connecticut	State Program	1	PH-0568	09-30-18
Florida	NELAP	4	E87672	06-30-17
Georgia	State Program	4	N/A	03-31-18
Illinois	NELAP	5	200003	09-30-17
Iowa	State Program	7	374	03-01-17 *
Kansas	NELAP	7	E-10187	01-31-18
Kentucky (DW)	State Program	4	90029	12-31-17
Kentucky (UST)	State Program	4	30	03-31-17 *
Kentucky (WW)	State Program	4	90029	12-31-17
Louisiana	NELAP	6	02031	06-30-17
Maine	State Program	1	NY00044	12-04-18
Maryland	State Program	3	294	03-31-18
Massachusetts	State Program	1	M-NY044	06-30-17
Michigan	State Program	5	9937	03-31-17 *
Minnesota	NELAP	5	036-999-337	12-31-17
New Hampshire	NELAP Primary AB	1	2973	09-11-17
New Hampshire	NELAP Secondary AB	1	2337	11-17-17
New Jersey	NELAP	2	NY455	06-30-17
New York	NELAP	2	10026	03-31-18
North Dakota	State Program	8	R-176	03-31-17 *
Oklahoma	State Program	6	9421	08-31-17
Oregon	NELAP	10	NY200003	06-09-17 *
Pennsylvania	NELAP	3	68-00281	07-31-17
Rhode Island	State Program	1	LAO00328	12-30-17
Tennessee	State Program	4	TN02970	03-31-18
Texas	NELAP	6	T104704412-15-6	07-31-17
USDA	Federal		P330-11-00386	11-26-17
Virginia	NELAP	3	460185	09-14-17
Washington	State Program	10	C784	02-10-18
Wisconsin	State Program	5	998310390	08-31-17

Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-17
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-02-18
Florida	NELAP	4	E87467	06-30-17
L-A-B	DoD ELAP		L2336	03-25-17 *
Maine	State Program	1	VT00008	04-17-17 *
Minnesota	NELAP	5	050-999-436	12-31-17
New Hampshire	NELAP	1	2006	12-18-17
New Jersey	NELAP	2	VT972	06-30-17 *
New York	NELAP	2	10391	04-01-17 *
Pennsylvania	NELAP	3	68-00489	04-30-17 *
Rhode Island	State Program	1	LAO00298	12-30-17
US Fish & Wildlife	Federal		LE-058448-0	10-31-17
USDA	Federal		P330-11-00093	12-05-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Laboratory: TestAmerica Burlington (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Vermont	State Program	1	VT-4000	12-31-17
Virginia	NELAP	3	460209	12-14-17

Method Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116033-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
522	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR
6010	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
9040C	pH	SW846	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 4500 P E	Orthophosphate	SM	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency
MA DEP = Massachusetts Department Of Environmental Protection
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116033-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-116033-1	MW-261S-20170411	Water	04/11/17 10:35	04/12/17 10:00
480-116033-2	MW-266Ma-20170411	Water	04/11/17 07:55	04/12/17 10:00
480-116033-4	MW-552-20170411	Water	04/11/17 11:30	04/12/17 10:00
480-116033-5	MW-553-20170411	Water	04/11/17 12:30	04/12/17 10:00
480-116033-6	MW-560-20170411	Water	04/11/17 09:55	04/12/17 10:00
480-116033-7	MW-561-20170411	Water	04/11/17 13:10	04/12/17 10:00
480-116033-8	MW-562-20170411	Water	04/11/17 13:30	04/12/17 10:00
480-116033-9	MW-563-20170411	Water	04/11/17 09:15	04/12/17 10:00
480-116033-10	REW-8-20170411	Water	04/11/17 10:40	04/12/17 10:00
480-116033-11	REW-9-20170411	Water	04/11/17 11:20	04/12/17 10:00
480-116033-12	REW-10-20170411	Water	04/11/17 12:15	04/12/17 10:00
480-116033-13	REW-12-20170411	Water	04/11/17 08:30	04/12/17 10:00
480-116033-14	DUP3-20170411	Water	04/11/17 00:00	04/12/17 10:00
480-116033-15	TRIP BLANKS	Water	04/11/17 00:00	04/12/17 10:00

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-116033-1

Login Number: 116033
List Number: 1
Creator: Janish, Carl M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	IESI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-116033-1

Login Number: 116033
List Number: 2
Creator: Lavigne, Scott M

List Source: TestAmerica Burlington
List Creation: 04/12/17 04:42 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9ºC,1.4ºC,2.4ºC,1.8ºC,1.2ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

360325-Boston

TestAmerica Westfield
501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (303) 467-7247

TestAmerica Boston
240 Bear Hill Road -- Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information:	Sample Collector's Name (Please Print Neatly): Dan Sokis, Daniel Rolls	Lab PM:	Lab COC Barcode Label	COC No: 37305
Client Contact: Vidhi Parmar	Sample Collector's Phone: 508-404-3196	E-Mail:		Page: 1 of 2
Company: Innovative Engineering Solutions Inc				Job #:
Address: 25 Spring St	Due Date Requested: 4/19/17			
City: Walpole	Turnaround Time (TAT) Requested (business days): 5 days			
State and Zip: MA 02081				
Client's Phone: 508-668-0033	Quote # or Project #:			
Client's Contact Email: vparmar@TESTamerica.com	PO #: RA-008			
Client's Project Name/Number: Raytheon-Wayland RA 008	WO #:			
Sample Collection Site Name & Location: Wayland MA	PWS ID #:			

Analysis Requested

Preservation Codes:
A - Hydrochloric Acid; B - Sodium Hydroxide; C - Zinc Acetate; D - Nitric Acid; E - Sodium Bisulfite; F - Methanol; H - Ascorbic Acid; J - Deionized Water; M - Hexane; N - No Preservative; P - Sodium Sulfate; Q - Sodium Sulfite; R - Sodium Thiosulfate; S - Sulfuric Acid; Z - other (specify)

480-116033 COC

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Preservation Codes =>	Total Number of Containers (enter total for each line)	Special Instructions & Notes:
MW-24S-20170411	4/11/17	1035	G	W	A A A S D N N N	8	CW-3 Requirements
MW-24Ms-20170411	4/11/17	0755	G	W	A A	4	
MW-552-20170411	4/11/17	1130	G	W	A A A A A A A A	11	
MW-553-20170411	4/11/17	1230	G	W	A A A A A A A	10	
MW-560-20170411	4/11/17	0955	G	W	A A A A A A A	10	
MW-561-20170411	4/11/17	1310	G	W	A A A A A A A	10	
MW-562-20170411	4/11/17	1330	G	W	A A A A A A A	10	
MW-563-20170411	4/11/17	0915	G	W	A A A A A A A	10	
REW-8-20170411	4/11/17	1040	G	W	A A A A A A A	10	

Possible Hazard Identification (please check off each that may apply):
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

** Matrix Types: A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other: _____

► NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !! ◄

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/11/17 1313	TEST		4-11-17 1700	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4-11-17 1800	TA		4/12/17 1000	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 20 to 1

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WI-QA-010 rev 8

Revised 10/29/2014
TAL-8245-360R

TestAmerica Westfield
501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (303) 467-7247

TestAmerica Boston
240 Bear Hill Road -- Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6901

Chain of Custody Record

360325-Boston

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information:	Sample Collector's Name (Please Print Neatly): Dan Tobo	Lab PM:	Lab COC Barcode Label	COC No: 37303
Client Contact: Vicki Pariseau	Sample Collector's Phone: 508-404-3796	E-Mail:		Page: 2 of 2
Company: Innovative Engineering Solutions Inc		Analysis Requested		Job #:
Address: 25 Spring St	Due Date Requested: 4/19/17			Preservation Codes: A - Hydrochloric Acid; B - Sodium Hydroxide; C - Zinc Acetate; D - Nitric Acid; E - Sodium Bisulfite; F - Methanol; H - Ascorbic Acid; J - Deionized Water; M - Hexane; N - No Preservative; P - Sodium Sulfate; Q - Sodium Sulfite; R - Sodium Thiosulfate; S - Sulfuric Acid; Z - other (specify)
City: Walpole	Turnaround Time (TAT) Requested (business days): 5 days			
State and Zip: MA 02081				
Client's Phone: 508-668-0033	Quote # or Project #:			
Client's Contact Email: v.pariseau@IESI-online.com	PO #: RA-008			
Client's Project Name/Number: Raytheon Wayland RA-008	WO #:			
Sample Collection Site Name & Location: Wayland MA	PWS ID #:			

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Preservation Codes →	A	A	A	S	D	N	N	N	Total Number of Containers (enter total for each line)	Special Instructions & Notes:
REW-9-20170411	4/11/17	1130	G	W		X		X	X	X	X	X	X	10	GW-3 Requirements
REW-10-20170411	4/11/17	1215	G	W		X		X	X	X	X	X	X	10	
REW-11-20170411	4/11/17	0830	G	W		X		X	X	X	X	X	X	10	
Dup3-20170411	4/11/17	—	G	W		X								3	
Trip Blank	—	—	—	W		X								2	

Regulatory Programs: MCP ☐ GW1/S1 ☐ RCP ☐ CT RSR ☐ DEP Form ☐ EDD Required ☐ eDEP Filing ☐ NPDES ☐

SUBCONTRACT POLICY: Unless you provide instructions to the contrary, or specify which sub-contract labs are or are not to be used, you agree in advance to permit Test-America to use certified, subcontract labs, without any additional notification made by us, as necessary to fulfill your work order.

Possible Hazard Identification (please check off each that may apply):
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

** **Matrix Types**: A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other: _____

► NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !! ◄

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/11/17 1515	IESI		4-11-17 1700	TK
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4-11-17 1800	TK		4/12/17 1000	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

20#1

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Revised 10/29/2014
TAL-8245-360R

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4/25/2017

360325-Boston

TestAmerica Westfield
501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (303) 467-7247

TestAmerica Boston
240 Bear Hill Road -- Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information:
Client Contact: Vidi Parinyar
Company: Innovative Engineering Solutions Inc
Address: 25 Sparky St
City: Walpole
State and Zip: MA 02081
Client's Phone: 508-668-0033
Client's Contact Email: v.parinyar@TESTonline.com
Client's Project Name/Number: Raytheon-Wayland RA-008
Sample Collection Site Name & Location: Wayland MA

Sample Collector's Name (Please Print Neatly): Dan Sorrs, Darren Rolls
Sample Collector's Phone: 508-404-3196
Lab PM:
E-Mail:
Lab COC Barcode Label
COC No: 37305
Page: 1 of 2
Job #:

Due Date Requested: 4/19/17
Turnaround Time (TAT) Requested (business days): 5 days
Quote # or Project #:
PO #: RA-008
WO #:
PWS ID #:

Analysis Requested

Preservation Codes:
A - Hydrochloric Acid; B - Sodium Hydroxide; C - Zinc Acetate; D - Nitric Acid; E - Sodium Bisulfite; F - Methanol; H - Ascorbic Acid; J - Deionized Water; M - Hexane; N - No Preservative; P - Sodium Sulfate; Q - Sodium Sulfite; R - Sodium Thiosulfate; S - Sulfuric Acid; Z - other (specify)

480-116033 COC

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Total Number of Containers (enter total for each line)	Special Instructions & Notes:
MW-26S-20170411	4/11/17	1035	G	W	8	CW-3 Requirements
MW-26M-20170411	4/11/17	0755	G	W	4	
MW-552-20170411	4/11/17	1130	G	W	11	
MW-553-20170411	4/11/17	1330	G	W	10	
MW-560-20170411	4/11/17	0955	G	W	10	
MW-561-20170411	4/11/17	1310	G	W	10	
MW-562-20170411	4/11/17	1330	G	W	10	
MW-563-20170411	4/11/17	0915	G	W	10	
REW-8-20170411	4/11/17	1040	G	W	10	

Possible Hazard Identification (please check off each that may apply):
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

** Matrix Types: A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other: _____

► NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !! ◄

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/11/17 1515	TEST		4/11/17 1700	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4-11-17 1800	TA		4/12/17 1000	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				4/12/17@1015	TA Buffalo

Custody Seals Intact: ☒ Yes ☐ No
Custody Seal No.: N/A
Cooler Temperature(s) °C and Other Remarks: Infact 2.0°C, 1.4°C, 2.4°C, 1.8°C, 1.7°C

WI-QA-010 rev 8

Revised 10/29/2014
TAL-8245-360R


ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US
SHIP DATE: 11APR17
ACTWGT: 53.68 LB
CAD: 590687/CAFE3011
BILL RECIPIENT
TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
REF:
INV:
PO:
DEPT:
FedEx Express
1 of 5
TRK# 0201 4258 8391 4909
MASTER
WED - 12 APR 3:00P
STANDARD OVERNIGHT
NA BTVA
05403
VT-US BTV
ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US
SHIP DATE: 11APR17
ACTWGT: 55.13 LB
CAD: 590687/CAFE3011
BILL RECIPIENT
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TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
REF:
INV:
PO:
DEPT:
FedEx Express
2 of 5
MPS# 0263 4258 8391 4910
Mstr# 4258 8391 4909
0201
WED - 12 APR 3:00P
STANDARD OVERNIGHT
NA BTVA
05403
VT-US BTV
ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US
SHIP DATE: 11APR17
ACTWGT: 53.20 LB
CAD: 590687/CAFE3011
BILL RECIPIENT
TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
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PO:
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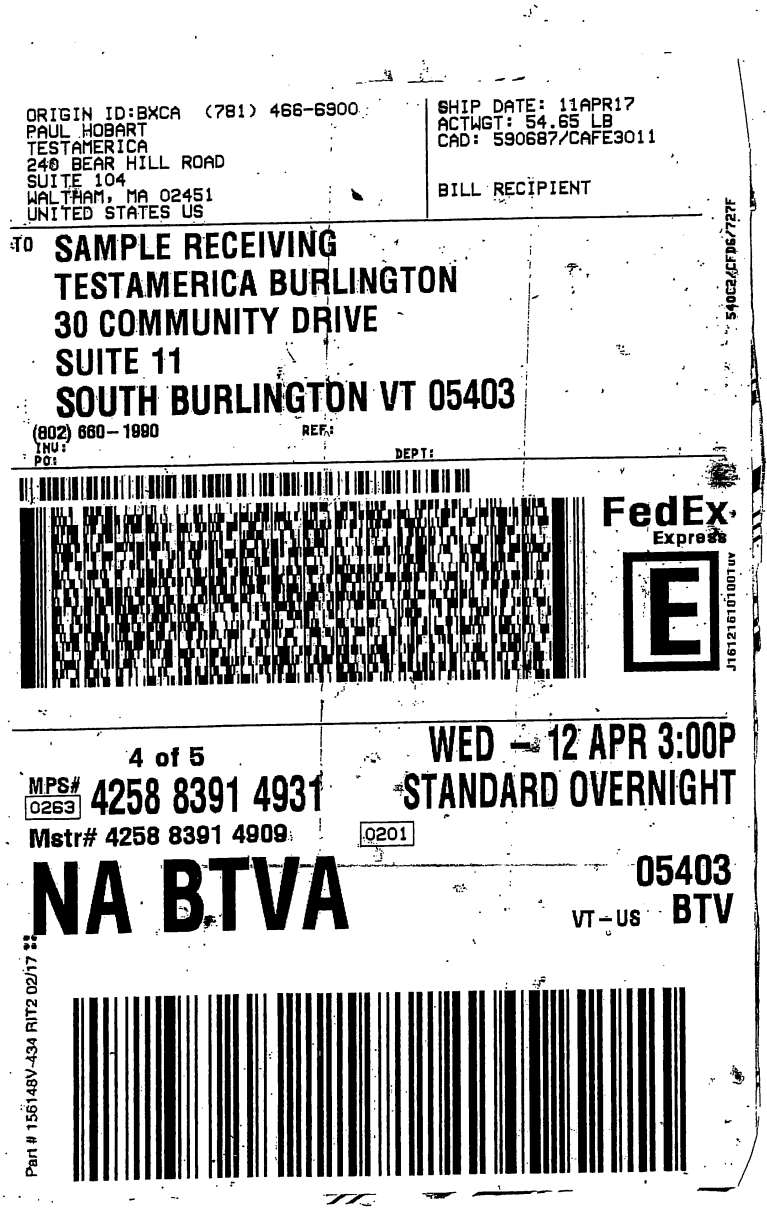
FedEx Express
3 of 5
MPS# 0263 4258 8391 4920
Mstr# 4258 8391 4909
0201
WED - 12 APR 3:00P
STANDARD OVERNIGHT
NA BTVA
05403
VT-US BTV



ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 11APR17
ACTWGT: 54.65 LB
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SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990 REF:
INV:
PO: DEPT:

FedEx Express

4 of 5
MPS# 4258 8391 4931
Mstr# 4258 8391 4909

WED - 12 APR 3:00P
STANDARD OVERNIGHT

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NA BTVA

05403
VT-US BTV

Part # 156148V-434 RIT2 02/17

D:BXCA (781) 466-6900
BART
ERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 11APR17
ACTWGT: 54.12 LB
CAD: 590687/CAFE3011

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990 REF:
INV:
PO: DEPT:

FedEx Express

5 of 5
S# 4258 8391 4942
tr# 4258 8391 4909

WED - 12 APR 3:00P
STANDARD OVERNIGHT

0201

IA BTVA

05403
VT-US BTV

TestAmerica Westfield
501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (303) 467-7247

TestAmerica Boston
240 Bear Hill Road – Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-[illegible]

480-116033 Chain of Custody

y Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information:	Sample Collector's Name (Please Print Neatly): Doug Jones, Danner Rolls	Lab PM:	Lab COC Barcode Label	COC No: 37305
Client Contact: Vidi Parinyas	Sample Collector's Phone: 508-404-3196	E-Mail:		Page: 1 of 2
Company: Innovative Engineering Solutions Inc				Job #:
Address: 25 Sandy St	Due Date Requested: 4/19/17			
City: Walpole	Turnaround Time (TAT) Requested (business days): 5 days			
State and Zip: MA 02081				
Client's Phone: 508-668-0033	Quote # or Project #:			
Client's Contact Email: vparinyas@TESTonline.com	PO #: RA-008			
Client's Project Name/Number: Raytheon-Wayland RA-008	WO #:			
Sample Collection Site Name & Location: Wayland MA	PWS ID #:			

Analysis Requested

Preservation Codes: G | N | B | S | D | N | N | N

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Total Number of Containers (enter total for each line)
MW-245-20170411	4/11/17	1035	G	W	8
MW-246MA-20170411	4/11/17	0755	G	W	4
MW-264M-20170411	4/11/17	1430	G	W	3
MW-552-20170411	4/11/17	1130	G	W	11
MW-553-20170411	4/11/17	1230	G	W	10
MW-560-20170411	4/11/17	0955	G	W	10
MW-561-20170411	4/11/17	1310	G	W	10
MW-562-20170411	4/11/17	1330	G	W	10
MW-563-20170411	4/11/17	0915	G	W	10
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Preservation Codes:
A - Hydrochloric Acid; B - Sodium Hydroxide; C - Zinc Acetate; D - Nitric Acid; E - Sodium Bisulfite; F - Methanol; H - Ascorbic Acid; J - Deionized Water; M - Hexane; N - No Preservative; P - Sodium Sulfate; Q - Sodium Sulfite; R - Sodium Thiosulfate; S - Sulfuric Acid; Z - other (specify)

480-116033 COC

Special Instructions & Notes:
CW-3 Requirements

Possible Hazard Identification (please check off each that may apply):
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

** Matrix Types: A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other: _____

► NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !! ◄

Relinquished by:	Date/Time: 4/11/17 1515	Company: TEST	Received by:	Date/Time: 4-11-17 1700	Company: TA
Relinquished by:	Date/Time: 4-11-17 1800	Company: TA	Received by:	Date/Time: 4/12/17 1000	Company:
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 4/12/17@1015	Company: TA Bost

Custody Seals Intact: ☒ Yes ☐ No | Custody Seal No.: NA

Cooler Temperature(s) °C and Other Remarks: Intact 2.0°C, 1.4°C, 2.4°C, 1.8°C, 1.2°C

WI-QA-010 rev 8

Revised 10/29/2014
TAL-8245-360R


ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US
SHIP DATE: 11APR17
ACTWGT: 53.68 LB
CAD: 590687/CAFE3011
BILL RECIPIENT
TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
INV:
PO:
REF:
DEPT:
FedEx Express
1 of 5
TRK# 0201 4258 8391 4909
MASTER
WED - 12 APR 3:00P
STANDARD OVERNIGHT
NA BTVA
05403
VT-US BTV
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2 of 5
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Mstr# 4258 8391 4909
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VT-US BTV
ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
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SUITE 104
WALTHAM, MA 02451
UNITED STATES US
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CAD: 590687/CAFE3011
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FedEx Express
3 of 5
MPS# 0263 4258 8391 4920
Mstr# 4258 8391 4909
0201
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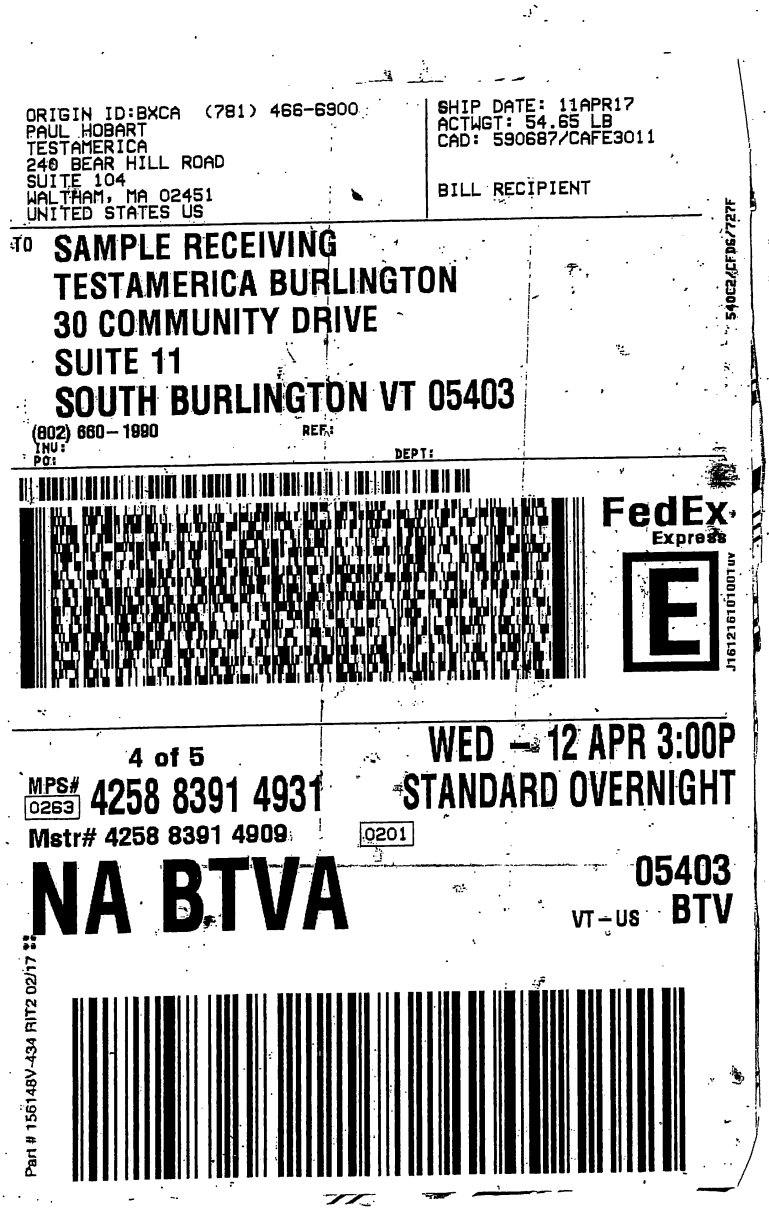
STANDARD OVERNIGHT
NA BTVA
05403
VT-US BTV



ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 11APR17
ACTWGT: 54.65 LB
CAD: 590687/CAFE3011

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990 REF:
INV:
PO: DEPT:

FedEx Express

4 of 5
MPS# 4258 8391 4931
Mstr# 4258 8391 4909

WED - 12 APR 3:00P
STANDARD OVERNIGHT

0263 0201

NA BTVA

05403
VT-US BTV

Part # 156148V-434 RIT2 02/17

SHIP DATE: 11APR17
ACTWGT: 54.12 LB
CAD: 590687/CAFE3011

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990 REF:
INV:
PO: DEPT:

FedEx Express

5 of 5
S# 4258 8391 4942
tr# 4258 8391 4909

WED - 12 APR 3:00P
STANDARD OVERNIGHT

0201

IA BTVA

05403
VT-US BTV

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-116135-1
Client Project/Site: IDS Wayland

For:
Innovative Engineering Solutions, Inc
25 Spring Street
Walpole, Massachusetts 02081

Attn: Vicki Pariyar

Denise L Giglia

Authorized for release by:
4/24/2017 11:15:45 AM
Denise Giglia, Project Management Assistant II
denise.giglia@testamericainc.com

Designee for

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-116135-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-116135-1

Receipt
The samples were received on 4/13/2017 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8º C.

GC/MS VOA
Method 8260C: With the exception of diluted samples, per question G on the MassDEP Analytical Protocol Certification Form, TestAmerica's routine reporting limits do not achieve the CAM reporting limits specified in this CAM protocol for 1,2-dibromo-3-chloropropane, Carbon Disulfide, Isopropyl Ether, Naphthalene, tert-Amyl Methyl Ether and Tetrahydrofuran.

Method 8260C: The initial calibration curve RSD was greater than the 20% acceptance criteria for Bromoform , however the RSD was less than 40%. MCP protocol allows for 10% of the target compounds to be outside of the 20% RSD limit for the calibration provided the RSDs do not exceed 40%. The following samples are impacted: DEP-21-20170412 (480-116135-1), MW-265S-20170412 (480-116135-2), MW-265M-20170412 (480-116135-3), REW-1-20170412 (480-116135-4), REW-4-20170412 (480-116135-5) and REW-5-20170412 (480-116135-6).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-352240 recovered outside MCP control limit but less than 40% for Acetone, Bromoform and 2-Butanone. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. The following samples are impacted: DEP-21-20170412 (480-116135-1), MW-265S-20170412 (480-116135-2), MW-265M-20170412 (480-116135-3), REW-1-20170412 (480-116135-4), REW-4-20170412 (480-116135-5) and REW-5-20170412 (480-116135-6).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-352240 recovered outside control limits but were greater than 10% for the following analytes: Acetone and Bromoform. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples are impacted: DEP-21-20170412 (480-116135-1), MW-265S-20170412 (480-116135-2), MW-265M-20170412 (480-116135-3), REW-1-20170412 (480-116135-4), REW-4-20170412 (480-116135-5) and REW-5-20170412 (480-116135-6).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-352240 exceeded control limits for the following analyte: Tetrahydrofuran. Unlike the calibration standards, this is due to the coelution with Methacrylonitrile in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample. The following samples are impacted: DEP-21-20170412 (480-116135-1), MW-265S-20170412 (480-116135-2), MW-265M-20170412 (480-116135-3), REW-1-20170412 (480-116135-4), REW-4-20170412 (480-116135-5) and REW-5-20170412 (480-116135-6).

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-265M-20170412 (480-116135-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-352449 recovered outside the MCP control limit but less than 40% for Acetone, Bromoform and 2-Butanone. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference, 60% for poor performing compounds. The following sample is impacted: TRIP BLANKS (480-116135-7).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-352449 recovered outside control limits but were greater than 10% for the following analytes: Acetone and Bromoform . MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following sample is impacted: TRIP BLANKS (480-116135-7).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-352449 exceeded control limits for the following analyte: Tetrahydrofuran. Unlike the calibration standards, this is due to the coelution with Methacrylonitrile in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can

Job ID: 480-116135-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

be distinguished from one another if present in a client sample.

Method 8260C: The initial calibration curve RSD was greater than the 20% acceptance criteria for Bromoform , however the RSD was less than 40%. MCP protocol allows for 10% of the target compounds to be outside of the 20% RSD limit for the calibration provided the RSDs do not exceed 40%. The following sample is impacted: TRIP BLANKS (480-116135-7).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 522: Surrogate recovery for the following sample was outside control limits: MW-265M-20170412 (480-116135-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 522: Surrogate recovery for the following sample was outside control limits: MW-265M-20170412 (480-116135-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

HPLC/IC

Method 300.0: The following sample was diluted due to the nature of the sample matrix: MW-265M-20170412 (480-116135-3) and REW-1-20170412 (480-116135-4). Elevated reporting limits (RLs) are provided.

Method 300.0: The following sample was diluted due to the nature of the sample matrix: MW-265M-20170412 (480-116135-3) and REW-1-20170412 (480-116135-4). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010: At the request of the client, an abbreviated/modified MCP compound list was reported for this job.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Method 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-265M-20170412 (480-116135-3), REW-1-20170412 (480-116135-4), REW-4-20170412 (480-116135-5) and REW-5-20170412 (480-116135-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-116135**

Project Location: **IDS Wayland** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):

480-116135

Matrices: ■ Groundwater/Surface Water ☐ Soil/Sediment ☐ Drinking Water ☐ Air ☐ Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A ■	7470/7471 Hg CAM III B ☐	Mass DEP VPH CAM IV A ☐	8081 Pesticides CAM V B ☐	7196 Hex Cr CAM VI B ☐	Mass DEP APH CAM IX A ☐
8270 SVOC CAM II B ☐	7010 Metals CAM III C ☐	Mass DEP EPH CAM IV B ☐	8151 Herbicides CAM V C ☐	8330 Explosives CAM VIII A ☐	TO-15 VOC CAM IX B ☐
6010 Metals CAM III A ■	6020 Metals CAM III D ☐	8082 PCB CAM V A ☐	9014 Total Cyanide/PAC CAM VI A ☐	6860 Perchlorate CAM VIII B ☐	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.	■ Yes ☐ No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	■ Yes ☐ No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	■ Yes ☐ No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	■ Yes ☐ No
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No ☐ Yes ☐ No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	■ Yes ☐ No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes ■ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350**

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	☐ Yes ■ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	☐ Yes ■ No[1]

[1] All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature: Denise L Giglia Position: Project Manager Assistant II

Printed Name: Denise L. Giglia Date: 4/24/17 11:00

Client Sample ID: MW-265S-20170412 — Lab Sample ID: 480-116135-2

No Detections.

Client Sample ID: MW-265M-20170412 — Lab Sample ID: 480-116135-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	160		50		ug/L	5		8260C	Total/NA
Acetone	640	*	250		ug/L	5		8260C	Total/NA
m-Xylene & p-Xylene	16		10		ug/L	5		8260C	Total/NA
o-Xylene	5.9		5.0		ug/L	5		8260C	Total/NA
Toluene	8.1		5.0		ug/L	5		8260C	Total/NA
1,4-Dioxane	0.41		0.20		ug/L	1		522	Total/NA
Iron	430		0.050		mg/L	1		6010	Total/NA
Chloride	13		5.0		mg/L	10		300.0	Total/NA
Ammonia	0.36		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	1200		40		mg/L	40		9060A	Total/NA
TOC Result 2	1200		40		mg/L	40		9060A	Total/NA
Total Organic Carbon - Duplicates	1200		40		mg/L	40		9060A	Total/NA
Alkalinity, Total	720		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.10		0.020		mg/L	1		SM 4500 P E	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	5.1	HF	0.1		SU	1		9040C	Total/NA
Temperature	19.3	HF	0.001		Degrees C	1		9040C	Total/NA

Client Sample ID: REW-1-20170412 — Lab Sample ID: 480-116135-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.0		1.0		ug/L	1		8260C	Total/NA
Iron	12		0.050		mg/L	1		6010	Total/NA
Chloride	8.4		1.0		mg/L	2		300.0	Total/NA
Ammonia	0.37		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	2.6		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	3.7		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	3.1		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	260		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.074		0.020		mg/L	1		SM 4500 P E	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.8	HF	0.1		SU	1		9040C	Total/NA
Temperature	19.2	HF	0.001		Degrees C	1		9040C	Total/NA

Client Sample ID: REW-4-20170412 — Lab Sample ID: 480-116135-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.3		1.0		ug/L	1		8260C	Total/NA
Iron	6.8		0.050		mg/L	1		6010	Total/NA
Chloride	3.0		0.50		mg/L	1		300.0	Total/NA
Sulfate	9.4		2.0		mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: REW-4-20170412 (Continued) — Lab Sample ID: 480-116135-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	0.49		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	2.2		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	2.5		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	2.3		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	64		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.032		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	**Result**	**Qualifier**	**RL**	**RL**	**Unit**	**Dil Fac**	**D**	**Method**	**Prep Type**
pH	6.8	HF	0.1		SU	1		9040C	Total/NA
Temperature	19.2	HF	0.001		Degrees C	1		9040C	Total/NA

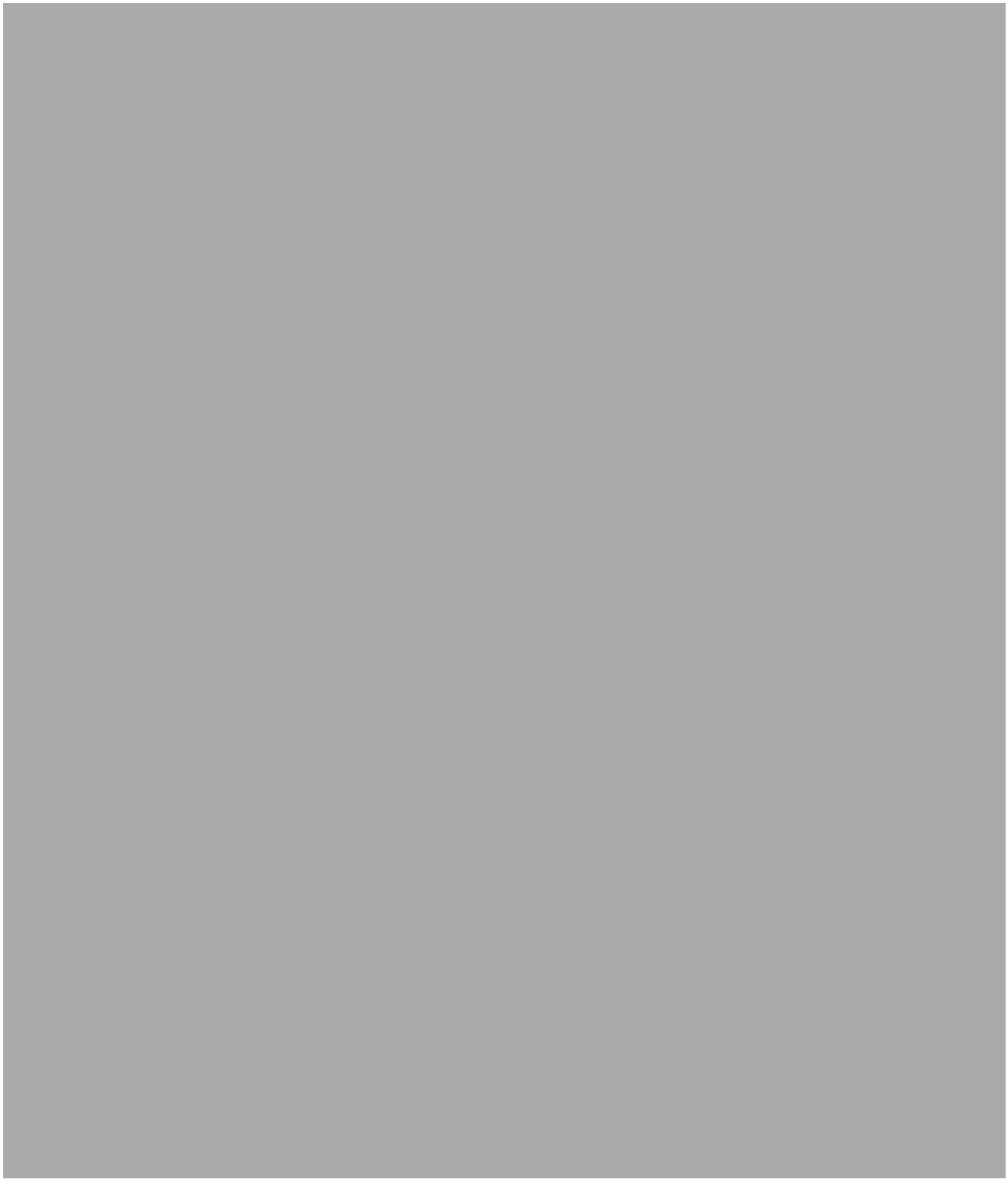
Client Sample ID: REW-5-20170412 — Lab Sample ID: 480-116135-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.7		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	3.1		1.0		ug/L	1		8260C	Total/NA
Iron	7.3		0.050		mg/L	1		6010	Total/NA
Chloride	6.7		0.50		mg/L	1		300.0	Total/NA
Sulfate	14		2.0		mg/L	1		300.0	Total/NA
Ammonia	0.78	F1	0.20		mg/L	1		350.1	Total/NA
TOC Result 1	2.0		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	2.1		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	2.1		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	170		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.027		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	**Result**	**Qualifier**	**RL**	**RL**	**Unit**	**Dil Fac**	**D**	**Method**	**Prep Type**
pH	6.7	HF	0.1		SU	1		9040C	Total/NA
Temperature	19.5	HF	0.001		Degrees C	1		9040C	Total/NA

Client Sample ID: TRIP BLANKS — Lab Sample ID: 480-116135-7

No Detections.

This Detection Summary does not include radiochemical test results.



Client Sample ID: MW-265S-20170412
Date Collected: 04/12/17 10:40
Date Received: 04/13/17 01:00

Lab Sample ID: 480-116135-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/16/17 05:03	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/16/17 05:03	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/16/17 05:03	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/16/17 05:03	1
1,1-Dichloroethane	ND		1.0		ug/L			04/16/17 05:03	1
1,1-Dichloroethene	ND		1.0		ug/L			04/16/17 05:03	1
1,1-Dichloropropene	ND		1.0		ug/L			04/16/17 05:03	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/16/17 05:03	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/16/17 05:03	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/16/17 05:03	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/16/17 05:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/16/17 05:03	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/16/17 05:03	1
1,2-Dichloroethane	ND		1.0		ug/L			04/16/17 05:03	1
1,2-Dichloropropane	ND		1.0		ug/L			04/16/17 05:03	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/16/17 05:03	1

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116135-1

Client Sample ID: MW-265S-20170412
Date Collected: 04/12/17 10:40
Date Received: 04/13/17 01:00

Lab Sample ID: 480-116135-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			04/16/17 05:03	1
1,3-Dichloropropane	ND		1.0		ug/L			04/16/17 05:03	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/16/17 05:03	1
1,4-Dioxane	ND		50		ug/L			04/16/17 05:03	1
2,2-Dichloropropane	ND		1.0		ug/L			04/16/17 05:03	1
2-Butanone (MEK)	ND		10		ug/L			04/16/17 05:03	1
2-Chlorotoluene	ND		1.0		ug/L			04/16/17 05:03	1
2-Hexanone	ND		10		ug/L			04/16/17 05:03	1
4-Chlorotoluene	ND		1.0		ug/L			04/16/17 05:03	1
4-Isopropyltoluene	ND		1.0		ug/L			04/16/17 05:03	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/16/17 05:03	1
Acetone	ND	*	50		ug/L			04/16/17 05:03	1
Benzene	ND		1.0		ug/L			04/16/17 05:03	1
Bromobenzene	ND		1.0		ug/L			04/16/17 05:03	1
Bromoform	ND	*	1.0		ug/L			04/16/17 05:03	1
Bromomethane	ND		2.0		ug/L			04/16/17 05:03	1
Carbon disulfide	ND		10		ug/L			04/16/17 05:03	1
Carbon tetrachloride	ND		1.0		ug/L			04/16/17 05:03	1
Chlorobenzene	ND		1.0		ug/L			04/16/17 05:03	1
Chlorobromomethane	ND		1.0		ug/L			04/16/17 05:03	1
Chlorodibromomethane	ND		0.50		ug/L			04/16/17 05:03	1
Chloroethane	ND		2.0		ug/L			04/16/17 05:03	1
Chloroform	ND		1.0		ug/L			04/16/17 05:03	1
Chloromethane	ND		2.0		ug/L			04/16/17 05:03	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 05:03	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 05:03	1
Dichlorobromomethane	ND		0.50		ug/L			04/16/17 05:03	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/16/17 05:03	1
Ethyl ether	ND		1.0		ug/L			04/16/17 05:03	1
Ethylbenzene	ND		1.0		ug/L			04/16/17 05:03	1
Ethylene Dibromide	ND		1.0		ug/L			04/16/17 05:03	1
Hexachlorobutadiene	ND		0.40		ug/L			04/16/17 05:03	1
Isopropyl ether	ND		10		ug/L			04/16/17 05:03	1
Isopropylbenzene	ND		1.0		ug/L			04/16/17 05:03	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/16/17 05:03	1
Methylene Chloride	ND		1.0		ug/L			04/16/17 05:03	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/16/17 05:03	1
Naphthalene	ND		5.0		ug/L			04/16/17 05:03	1
n-Butylbenzene	ND		1.0		ug/L			04/16/17 05:03	1
N-Propylbenzene	ND		1.0		ug/L			04/16/17 05:03	1
o-Xylene	ND		1.0		ug/L			04/16/17 05:03	1
sec-Butylbenzene	ND		1.0		ug/L			04/16/17 05:03	1
Styrene	ND		1.0		ug/L			04/16/17 05:03	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/16/17 05:03	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/16/17 05:03	1
tert-Butylbenzene	ND		1.0		ug/L			04/16/17 05:03	1
Tetrachloroethene	ND		1.0		ug/L			04/16/17 05:03	1
Tetrahydrofuran	ND	*	10		ug/L			04/16/17 05:03	1
Toluene	ND		1.0		ug/L			04/16/17 05:03	1

Client Sample ID: MW-265S-20170412

Lab Sample ID: 480-116135-2

Date Collected: 04/12/17 10:40

Matrix: Water

Date Received: 04/13/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 05:03	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 05:03	1
Trichloroethene	ND		1.0		ug/L			04/16/17 05:03	1
Trichlorofluoromethane	ND		1.0		ug/L			04/16/17 05:03	1
Vinyl chloride	ND		1.0		ug/L			04/16/17 05:03	1
Dibromomethane	ND		1.0		ug/L			04/16/17 05:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/16/17 05:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*04/16/17 05:03*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*04/16/17 05:03*	*1*

Client Sample ID: MW-265M-20170412

Lab Sample ID: 480-116135-3

Date Collected: 04/12/17 10:20

Matrix: Water

Date Received: 04/13/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			04/16/17 05:27	5
1,1,1-Trichloroethane	ND		5.0		ug/L			04/16/17 05:27	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			04/16/17 05:27	5
1,1,2-Trichloroethane	ND		5.0		ug/L			04/16/17 05:27	5
1,1-Dichloroethane	ND		5.0		ug/L			04/16/17 05:27	5
1,1-Dichloroethene	ND		5.0		ug/L			04/16/17 05:27	5
1,1-Dichloropropene	ND		5.0		ug/L			04/16/17 05:27	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			04/16/17 05:27	5
1,2,3-Trichloropropane	ND		5.0		ug/L			04/16/17 05:27	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			04/16/17 05:27	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			04/16/17 05:27	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			04/16/17 05:27	5
1,2-Dichlorobenzene	ND		5.0		ug/L			04/16/17 05:27	5
1,2-Dichloroethane	ND		5.0		ug/L			04/16/17 05:27	5
1,2-Dichloropropane	ND		5.0		ug/L			04/16/17 05:27	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			04/16/17 05:27	5
1,3-Dichlorobenzene	ND		5.0		ug/L			04/16/17 05:27	5
1,3-Dichloropropane	ND		5.0		ug/L			04/16/17 05:27	5
1,4-Dichlorobenzene	ND		5.0		ug/L			04/16/17 05:27	5
1,4-Dioxane	ND		250		ug/L			04/16/17 05:27	5
2,2-Dichloropropane	ND		5.0		ug/L			04/16/17 05:27	5
2-Butanone (MEK)	**160**		50		ug/L			04/16/17 05:27	5
2-Chlorotoluene	ND		5.0		ug/L			04/16/17 05:27	5
2-Hexanone	ND		50		ug/L			04/16/17 05:27	5
4-Chlorotoluene	ND		5.0		ug/L			04/16/17 05:27	5
4-Isopropyltoluene	ND		5.0		ug/L			04/16/17 05:27	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			04/16/17 05:27	5
Acetone	**640**	*	250		ug/L			04/16/17 05:27	5
Benzene	ND		5.0		ug/L			04/16/17 05:27	5
Bromobenzene	ND		5.0		ug/L			04/16/17 05:27	5
Bromoform	ND	*	5.0		ug/L			04/16/17 05:27	5
Bromomethane	ND		10		ug/L			04/16/17 05:27	5

Client Sample ID: MW-265M-20170412
Date Collected: 04/12/17 10:20
Date Received: 04/13/17 01:00

Lab Sample ID: 480-116135-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		50		ug/L			04/16/17 05:27	5
Carbon tetrachloride	ND		5.0		ug/L			04/16/17 05:27	5
Chlorobenzene	ND		5.0		ug/L			04/16/17 05:27	5
Chlorobromomethane	ND		5.0		ug/L			04/16/17 05:27	5
Chlorodibromomethane	ND		2.5		ug/L			04/16/17 05:27	5
Chloroethane	ND		10		ug/L			04/16/17 05:27	5
Chloroform	ND		5.0		ug/L			04/16/17 05:27	5
Chloromethane	ND		10		ug/L			04/16/17 05:27	5
cis-1,2-Dichloroethene	ND		5.0		ug/L			04/16/17 05:27	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			04/16/17 05:27	5
Dichlorobromomethane	ND		2.5		ug/L			04/16/17 05:27	5
Dichlorodifluoromethane	ND		5.0		ug/L			04/16/17 05:27	5
Ethyl ether	ND		5.0		ug/L			04/16/17 05:27	5
Ethylbenzene	ND		5.0		ug/L			04/16/17 05:27	5
Ethylene Dibromide	ND		5.0		ug/L			04/16/17 05:27	5
Hexachlorobutadiene	ND		2.0		ug/L			04/16/17 05:27	5
Isopropyl ether	ND		50		ug/L			04/16/17 05:27	5
Isopropylbenzene	ND		5.0		ug/L			04/16/17 05:27	5
Methyl tert-butyl ether	ND		5.0		ug/L			04/16/17 05:27	5
Methylene Chloride	ND		5.0		ug/L			04/16/17 05:27	5
m-Xylene & p-Xylene	**16**		10		ug/L			04/16/17 05:27	5
Naphthalene	ND		25		ug/L			04/16/17 05:27	5
n-Butylbenzene	ND		5.0		ug/L			04/16/17 05:27	5
N-Propylbenzene	ND		5.0		ug/L			04/16/17 05:27	5
o-Xylene	**5.9**		5.0		ug/L			04/16/17 05:27	5
sec-Butylbenzene	ND		5.0		ug/L			04/16/17 05:27	5
Styrene	ND		5.0		ug/L			04/16/17 05:27	5
Tert-amyl methyl ether	ND		25		ug/L			04/16/17 05:27	5
Tert-butyl ethyl ether	ND		25		ug/L			04/16/17 05:27	5
tert-Butylbenzene	ND		5.0		ug/L			04/16/17 05:27	5
Tetrachloroethene	ND		5.0		ug/L			04/16/17 05:27	5
Tetrahydrofuran	ND	*	50		ug/L			04/16/17 05:27	5
Toluene	**8.1**		5.0		ug/L			04/16/17 05:27	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			04/16/17 05:27	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			04/16/17 05:27	5
Trichloroethene	ND		5.0		ug/L			04/16/17 05:27	5
Trichlorofluoromethane	ND		5.0		ug/L			04/16/17 05:27	5
Vinyl chloride	ND		5.0		ug/L			04/16/17 05:27	5
Dibromomethane	ND		5.0		ug/L			04/16/17 05:27	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/16/17 05:27*	*5*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/16/17 05:27*	*5*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/16/17 05:27*	*5*

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/19/17 10:35	04/20/17 05:00	1
1,4-Dioxane	**0.41**		0.20		ug/L		04/19/17 10:35	04/21/17 10:40	1

Client Sample ID: MW-265M-20170412

Lab Sample ID: 480-116135-3

Date Collected: 04/12/17 10:20

Matrix: Water

Date Received: 04/13/17 01:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*9*	*X*	*46 - 130*	*04/19/17 10:35*	*04/20/17 05:00*	*1*
1,4-Dioxane-d8 (Surr)	*9*	*X*	*46 - 130*	*04/19/17 10:35*	*04/21/17 10:40*	*1*

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**430**		0.050		mg/L		04/13/17 13:25	04/14/17 15:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13**		5.0		mg/L			04/19/17 20:01	10
Sulfate	ND		40		mg/L			04/20/17 13:29	20
Ammonia	**0.36**		0.20		mg/L		04/13/17 17:33	04/14/17 09:18	1
Nitrate as N	ND		0.050		mg/L			04/13/17 10:08	1
TOC Result 1	**1200**		40		mg/L			04/17/17 16:43	40
TOC Result 2	**1200**		40		mg/L			04/17/17 16:43	40
Total Organic Carbon - Duplicates	**1200**		40		mg/L			04/17/17 16:43	40
Alkalinity, Total	**720**		5.0		mg/L			04/15/17 00:47	1
ortho-Phosphate	**0.10**		0.020		mg/L			04/13/17 22:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**5.1**	**HF**	0.1		SU			04/17/17 20:49	1
Temperature	**19.3**	**HF**	0.001		Degrees C			04/17/17 20:49	1

Client Sample ID: REW-1-20170412

Lab Sample ID: 480-116135-4

Date Collected: 04/12/17 10:00

Matrix: Water

Date Received: 04/13/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/16/17 05:55	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/16/17 05:55	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/16/17 05:55	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/16/17 05:55	1
1,1-Dichloroethane	ND		1.0		ug/L			04/16/17 05:55	1
1,1-Dichloroethene	ND		1.0		ug/L			04/16/17 05:55	1
1,1-Dichloropropene	ND		1.0		ug/L			04/16/17 05:55	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/16/17 05:55	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/16/17 05:55	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/16/17 05:55	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/16/17 05:55	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/16/17 05:55	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/16/17 05:55	1
1,2-Dichloroethane	ND		1.0		ug/L			04/16/17 05:55	1
1,2-Dichloropropane	ND		1.0		ug/L			04/16/17 05:55	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/16/17 05:55	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/16/17 05:55	1
1,3-Dichloropropane	ND		1.0		ug/L			04/16/17 05:55	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/16/17 05:55	1
1,4-Dioxane	ND		50		ug/L			04/16/17 05:55	1
2,2-Dichloropropane	ND		1.0		ug/L			04/16/17 05:55	1
2-Butanone (MEK)	ND		10		ug/L			04/16/17 05:55	1

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116135-1

Client Sample ID: REW-1-20170412
Date Collected: 04/12/17 10:00
Date Received: 04/13/17 01:00

Lab Sample ID: 480-116135-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		1.0		ug/L			04/16/17 05:55	1
2-Hexanone	ND		10		ug/L			04/16/17 05:55	1
4-Chlorotoluene	ND		1.0		ug/L			04/16/17 05:55	1
4-Isopropyltoluene	ND		1.0		ug/L			04/16/17 05:55	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/16/17 05:55	1
Acetone	ND	*	50		ug/L			04/16/17 05:55	1
Benzene	ND		1.0		ug/L			04/16/17 05:55	1
Bromobenzene	ND		1.0		ug/L			04/16/17 05:55	1
Bromoform	ND	*	1.0		ug/L			04/16/17 05:55	1
Bromomethane	ND		2.0		ug/L			04/16/17 05:55	1
Carbon disulfide	ND		10		ug/L			04/16/17 05:55	1
Carbon tetrachloride	ND		1.0		ug/L			04/16/17 05:55	1
Chlorobenzene	ND		1.0		ug/L			04/16/17 05:55	1
Chlorobromomethane	ND		1.0		ug/L			04/16/17 05:55	1
Chlorodibromomethane	ND		0.50		ug/L			04/16/17 05:55	1
Chloroethane	ND		2.0		ug/L			04/16/17 05:55	1
Chloroform	ND		1.0		ug/L			04/16/17 05:55	1
Chloromethane	ND		2.0		ug/L			04/16/17 05:55	1
cis-1,2-Dichloroethene	**2.0**		1.0		ug/L			04/16/17 05:55	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 05:55	1
Dichlorobromomethane	ND		0.50		ug/L			04/16/17 05:55	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/16/17 05:55	1
Ethyl ether	ND		1.0		ug/L			04/16/17 05:55	1
Ethylbenzene	ND		1.0		ug/L			04/16/17 05:55	1
Ethylene Dibromide	ND		1.0		ug/L			04/16/17 05:55	1
Hexachlorobutadiene	ND		0.40		ug/L			04/16/17 05:55	1
Isopropyl ether	ND		10		ug/L			04/16/17 05:55	1
Isopropylbenzene	ND		1.0		ug/L			04/16/17 05:55	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/16/17 05:55	1
Methylene Chloride	ND		1.0		ug/L			04/16/17 05:55	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/16/17 05:55	1
Naphthalene	ND		5.0		ug/L			04/16/17 05:55	1
n-Butylbenzene	ND		1.0		ug/L			04/16/17 05:55	1
N-Propylbenzene	ND		1.0		ug/L			04/16/17 05:55	1
o-Xylene	ND		1.0		ug/L			04/16/17 05:55	1
sec-Butylbenzene	ND		1.0		ug/L			04/16/17 05:55	1
Styrene	ND		1.0		ug/L			04/16/17 05:55	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/16/17 05:55	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/16/17 05:55	1
tert-Butylbenzene	ND		1.0		ug/L			04/16/17 05:55	1
Tetrachloroethene	ND		1.0		ug/L			04/16/17 05:55	1
Tetrahydrofuran	ND	*	10		ug/L			04/16/17 05:55	1
Toluene	ND		1.0		ug/L			04/16/17 05:55	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 05:55	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 05:55	1
Trichloroethene	ND		1.0		ug/L			04/16/17 05:55	1
Trichlorofluoromethane	ND		1.0		ug/L			04/16/17 05:55	1
Vinyl chloride	ND		1.0		ug/L			04/16/17 05:55	1
Dibromomethane	ND		1.0		ug/L			04/16/17 05:55	1

Client Sample ID: REW-1-20170412

Lab Sample ID: 480-116135-4

Date Collected: 04/12/17 10:00

Matrix: Water

Date Received: 04/13/17 01:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*70 - 130*		*04/16/17 05:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*04/16/17 05:55*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/16/17 05:55*	*1*

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**12**		0.050		mg/L		04/13/17 13:25	04/14/17 15:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.4**		1.0		mg/L			04/19/17 20:09	2
Sulfate	ND		4.0		mg/L			04/20/17 13:37	2
Ammonia	**0.37**		0.20		mg/L		04/13/17 17:33	04/14/17 09:19	1
Nitrate as N	ND		0.050		mg/L			04/13/17 10:09	1
TOC Result 1	**2.6**		1.0		mg/L			04/15/17 14:38	1
TOC Result 2	**3.7**		1.0		mg/L			04/15/17 14:38	1
Total Organic Carbon - Duplicates	**3.1**		1.0		mg/L			04/15/17 14:38	1
Alkalinity, Total	**260**		5.0		mg/L			04/15/17 00:53	1
ortho-Phosphate	**0.074**		0.020		mg/L			04/13/17 22:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.8**	**HF**	0.1		SU			04/17/17 20:52	1
Temperature	**19.2**	**HF**	0.001		Degrees C			04/17/17 20:52	1

Client Sample ID: REW-4-20170412

Lab Sample ID: 480-116135-5

Date Collected: 04/12/17 09:20

Matrix: Water

Date Received: 04/13/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/16/17 06:18	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/16/17 06:18	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/16/17 06:18	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/16/17 06:18	1
1,1-Dichloroethane	ND		1.0		ug/L			04/16/17 06:18	1
1,1-Dichloroethene	ND		1.0		ug/L			04/16/17 06:18	1
1,1-Dichloropropene	ND		1.0		ug/L			04/16/17 06:18	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/16/17 06:18	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/16/17 06:18	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/16/17 06:18	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/16/17 06:18	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/16/17 06:18	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/16/17 06:18	1
1,2-Dichloroethane	ND		1.0		ug/L			04/16/17 06:18	1
1,2-Dichloropropane	ND		1.0		ug/L			04/16/17 06:18	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/16/17 06:18	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/16/17 06:18	1
1,3-Dichloropropane	ND		1.0		ug/L			04/16/17 06:18	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/16/17 06:18	1
1,4-Dioxane	ND		50		ug/L			04/16/17 06:18	1
2,2-Dichloropropane	ND		1.0		ug/L			04/16/17 06:18	1

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116135-1

Client Sample ID: REW-4-20170412
Date Collected: 04/12/17 09:20
Date Received: 04/13/17 01:00

Lab Sample ID: 480-116135-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		10		ug/L			04/16/17 06:18	1
2-Chlorotoluene	ND		1.0		ug/L			04/16/17 06:18	1
2-Hexanone	ND		10		ug/L			04/16/17 06:18	1
4-Chlorotoluene	ND		1.0		ug/L			04/16/17 06:18	1
4-Isopropyltoluene	ND		1.0		ug/L			04/16/17 06:18	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/16/17 06:18	1
Acetone	ND	*	50		ug/L			04/16/17 06:18	1
Benzene	ND		1.0		ug/L			04/16/17 06:18	1
Bromobenzene	ND		1.0		ug/L			04/16/17 06:18	1
Bromoform	ND	*	1.0		ug/L			04/16/17 06:18	1
Bromomethane	ND		2.0		ug/L			04/16/17 06:18	1
Carbon disulfide	ND		10		ug/L			04/16/17 06:18	1
Carbon tetrachloride	ND		1.0		ug/L			04/16/17 06:18	1
Chlorobenzene	ND		1.0		ug/L			04/16/17 06:18	1
Chlorobromomethane	ND		1.0		ug/L			04/16/17 06:18	1
Chlorodibromomethane	ND		0.50		ug/L			04/16/17 06:18	1
Chloroethane	ND		2.0		ug/L			04/16/17 06:18	1
Chloroform	ND		1.0		ug/L			04/16/17 06:18	1
Chloromethane	ND		2.0		ug/L			04/16/17 06:18	1
cis-1,2-Dichloroethene	**2.3**		1.0		ug/L			04/16/17 06:18	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 06:18	1
Dichlorobromomethane	ND		0.50		ug/L			04/16/17 06:18	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/16/17 06:18	1
Ethyl ether	ND		1.0		ug/L			04/16/17 06:18	1
Ethylbenzene	ND		1.0		ug/L			04/16/17 06:18	1
Ethylene Dibromide	ND		1.0		ug/L			04/16/17 06:18	1
Hexachlorobutadiene	ND		0.40		ug/L			04/16/17 06:18	1
Isopropyl ether	ND		10		ug/L			04/16/17 06:18	1
Isopropylbenzene	ND		1.0		ug/L			04/16/17 06:18	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/16/17 06:18	1
Methylene Chloride	ND		1.0		ug/L			04/16/17 06:18	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/16/17 06:18	1
Naphthalene	ND		5.0		ug/L			04/16/17 06:18	1
n-Butylbenzene	ND		1.0		ug/L			04/16/17 06:18	1
N-Propylbenzene	ND		1.0		ug/L			04/16/17 06:18	1
o-Xylene	ND		1.0		ug/L			04/16/17 06:18	1
sec-Butylbenzene	ND		1.0		ug/L			04/16/17 06:18	1
Styrene	ND		1.0		ug/L			04/16/17 06:18	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/16/17 06:18	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/16/17 06:18	1
tert-Butylbenzene	ND		1.0		ug/L			04/16/17 06:18	1
Tetrachloroethene	ND		1.0		ug/L			04/16/17 06:18	1
Tetrahydrofuran	ND	*	10		ug/L			04/16/17 06:18	1
Toluene	ND		1.0		ug/L			04/16/17 06:18	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 06:18	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 06:18	1
Trichloroethene	ND		1.0		ug/L			04/16/17 06:18	1
Trichlorofluoromethane	ND		1.0		ug/L			04/16/17 06:18	1
Vinyl chloride	ND		1.0		ug/L			04/16/17 06:18	1

Client Sample ID: REW-4-20170412

Lab Sample ID: 480-116135-5

Date Collected: 04/12/17 09:20

Matrix: Water

Date Received: 04/13/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1.0		ug/L			04/16/17 06:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*70 - 130*		*04/16/17 06:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/16/17 06:18*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*04/16/17 06:18*	*1*

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**6.8**		0.050		mg/L		04/13/17 13:25	04/14/17 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.0**		0.50		mg/L			04/20/17 13:12	1
Sulfate	**9.4**		2.0		mg/L			04/20/17 13:12	1
Ammonia	**0.49**		0.20		mg/L		04/13/17 17:33	04/14/17 09:20	1
Nitrate as N	ND		0.050		mg/L			04/13/17 10:11	1
TOC Result 1	**2.2**		1.0		mg/L			04/17/17 17:12	1
TOC Result 2	**2.5**		1.0		mg/L			04/17/17 17:12	1
Total Organic Carbon - Duplicates	**2.3**		1.0		mg/L			04/17/17 17:12	1
Alkalinity, Total	**64**		5.0		mg/L			04/15/17 00:58	1
ortho-Phosphate	**0.032**		0.020		mg/L			04/13/17 22:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.8**	**HF**	0.1		SU			04/17/17 20:55	1
Temperature	**19.2**	**HF**	0.001		Degrees C			04/17/17 20:55	1

Client Sample ID: REW-5-20170412

Lab Sample ID: 480-116135-6

Date Collected: 04/12/17 10:20

Matrix: Water

Date Received: 04/13/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/16/17 06:42	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/16/17 06:42	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/16/17 06:42	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/16/17 06:42	1
1,1-Dichloroethane	ND		1.0		ug/L			04/16/17 06:42	1
1,1-Dichloroethene	ND		1.0		ug/L			04/16/17 06:42	1
1,1-Dichloropropene	ND		1.0		ug/L			04/16/17 06:42	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/16/17 06:42	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/16/17 06:42	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/16/17 06:42	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/16/17 06:42	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/16/17 06:42	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/16/17 06:42	1
1,2-Dichloroethane	ND		1.0		ug/L			04/16/17 06:42	1
1,2-Dichloropropane	ND		1.0		ug/L			04/16/17 06:42	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/16/17 06:42	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/16/17 06:42	1
1,3-Dichloropropane	ND		1.0		ug/L			04/16/17 06:42	1

Client Sample ID: REW-5-20170412
Date Collected: 04/12/17 10:20
Date Received: 04/13/17 01:00

Lab Sample ID: 480-116135-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0		ug/L			04/16/17 06:42	1
1,4-Dioxane	ND		50		ug/L			04/16/17 06:42	1
2,2-Dichloropropane	ND		1.0		ug/L			04/16/17 06:42	1
2-Butanone (MEK)	ND		10		ug/L			04/16/17 06:42	1
2-Chlorotoluene	ND		1.0		ug/L			04/16/17 06:42	1
2-Hexanone	ND		10		ug/L			04/16/17 06:42	1
4-Chlorotoluene	ND		1.0		ug/L			04/16/17 06:42	1
4-Isopropyltoluene	ND		1.0		ug/L			04/16/17 06:42	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/16/17 06:42	1
Acetone	ND	*	50		ug/L			04/16/17 06:42	1
Benzene	ND		1.0		ug/L			04/16/17 06:42	1
Bromobenzene	ND		1.0		ug/L			04/16/17 06:42	1
Bromoform	ND	*	1.0		ug/L			04/16/17 06:42	1
Bromomethane	ND		2.0		ug/L			04/16/17 06:42	1
Carbon disulfide	ND		10		ug/L			04/16/17 06:42	1
Carbon tetrachloride	ND		1.0		ug/L			04/16/17 06:42	1
Chlorobenzene	ND		1.0		ug/L			04/16/17 06:42	1
Chlorobromomethane	ND		1.0		ug/L			04/16/17 06:42	1
Chlorodibromomethane	ND		0.50		ug/L			04/16/17 06:42	1
Chloroethane	ND		2.0		ug/L			04/16/17 06:42	1
Chloroform	ND		1.0		ug/L			04/16/17 06:42	1
Chloromethane	ND		2.0		ug/L			04/16/17 06:42	1
cis-1,2-Dichloroethene	**7.7**		1.0		ug/L			04/16/17 06:42	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 06:42	1
Dichlorobromomethane	ND		0.50		ug/L			04/16/17 06:42	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/16/17 06:42	1
Ethyl ether	ND		1.0		ug/L			04/16/17 06:42	1
Ethylbenzene	ND		1.0		ug/L			04/16/17 06:42	1
Ethylene Dibromide	ND		1.0		ug/L			04/16/17 06:42	1
Hexachlorobutadiene	ND		0.40		ug/L			04/16/17 06:42	1
Isopropyl ether	ND		10		ug/L			04/16/17 06:42	1
Isopropylbenzene	ND		1.0		ug/L			04/16/17 06:42	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/16/17 06:42	1
Methylene Chloride	ND		1.0		ug/L			04/16/17 06:42	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/16/17 06:42	1
Naphthalene	ND		5.0		ug/L			04/16/17 06:42	1
n-Butylbenzene	ND		1.0		ug/L			04/16/17 06:42	1
N-Propylbenzene	ND		1.0		ug/L			04/16/17 06:42	1
o-Xylene	ND		1.0		ug/L			04/16/17 06:42	1
sec-Butylbenzene	ND		1.0		ug/L			04/16/17 06:42	1
Styrene	ND		1.0		ug/L			04/16/17 06:42	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/16/17 06:42	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/16/17 06:42	1
tert-Butylbenzene	ND		1.0		ug/L			04/16/17 06:42	1
Tetrachloroethene	ND		1.0		ug/L			04/16/17 06:42	1
Tetrahydrofuran	ND	*	10		ug/L			04/16/17 06:42	1
Toluene	ND		1.0		ug/L			04/16/17 06:42	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/16/17 06:42	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/16/17 06:42	1

Client Sample ID: REW-5-20170412

Lab Sample ID: 480-116135-6

Date Collected: 04/12/17 10:20

Matrix: Water

Date Received: 04/13/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0		ug/L			04/16/17 06:42	1
Trichlorofluoromethane	ND		1.0		ug/L			04/16/17 06:42	1
Vinyl chloride	**3.1**		1.0		ug/L			04/16/17 06:42	1
Dibromomethane	ND		1.0		ug/L			04/16/17 06:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/16/17 06:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*04/16/17 06:42*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/16/17 06:42*	*1*

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**7.3**		0.050		mg/L		04/13/17 13:25	04/14/17 15:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.7**		0.50		mg/L			04/20/17 13:20	1
Sulfate	**14**		2.0		mg/L			04/20/17 13:20	1
Ammonia	**0.78**	**F1**	0.20		mg/L		04/13/17 17:33	04/14/17 09:21	1
Nitrate as N	ND		0.050		mg/L			04/13/17 10:12	1
TOC Result 1	**2.0**		1.0		mg/L			04/15/17 16:56	1
TOC Result 2	**2.1**		1.0		mg/L			04/15/17 16:56	1
Total Organic Carbon - Duplicates	**2.1**		1.0		mg/L			04/15/17 16:56	1
Alkalinity, Total	**170**		5.0		mg/L			04/15/17 01:04	1
ortho-Phosphate	**0.027**		0.020		mg/L			04/13/17 22:07	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	**6.7**	**HF**	0.1		SU			04/17/17 20:58	1
Temperature	**19.5**	**HF**	0.001		Degrees C			04/17/17 20:58	1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-116135-7

Date Collected: 04/12/17 00:00

Matrix: Water

Date Received: 04/13/17 01:00

Method: 8260C - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/17/17 23:19	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/17/17 23:19	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/17/17 23:19	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/17/17 23:19	1
1,1-Dichloroethane	ND		1.0		ug/L			04/17/17 23:19	1
1,1-Dichloroethene	ND		1.0		ug/L			04/17/17 23:19	1
1,1-Dichloropropene	ND		1.0		ug/L			04/17/17 23:19	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/17/17 23:19	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/17/17 23:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/17/17 23:19	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/17/17 23:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/17/17 23:19	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/17/17 23:19	1
1,2-Dichloroethane	ND		1.0		ug/L			04/17/17 23:19	1
1,2-Dichloropropane	ND		1.0		ug/L			04/17/17 23:19	1

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116135-1

Client Sample ID: TRIP BLANKS
Date Collected: 04/12/17 00:00
Date Received: 04/13/17 01:00

Lab Sample ID: 480-116135-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/17/17 23:19	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/17/17 23:19	1
1,3-Dichloropropane	ND		1.0		ug/L			04/17/17 23:19	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/17/17 23:19	1
1,4-Dioxane	ND		50		ug/L			04/17/17 23:19	1
2,2-Dichloropropane	ND		1.0		ug/L			04/17/17 23:19	1
2-Butanone (MEK)	ND		10		ug/L			04/17/17 23:19	1
2-Chlorotoluene	ND		1.0		ug/L			04/17/17 23:19	1
2-Hexanone	ND		10		ug/L			04/17/17 23:19	1
4-Chlorotoluene	ND		1.0		ug/L			04/17/17 23:19	1
4-Isopropyltoluene	ND		1.0		ug/L			04/17/17 23:19	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/17/17 23:19	1
Acetone	ND	*	50		ug/L			04/17/17 23:19	1
Benzene	ND		1.0		ug/L			04/17/17 23:19	1
Bromobenzene	ND		1.0		ug/L			04/17/17 23:19	1
Bromoform	ND	*	1.0		ug/L			04/17/17 23:19	1
Bromomethane	ND		2.0		ug/L			04/17/17 23:19	1
Carbon disulfide	ND		10		ug/L			04/17/17 23:19	1
Carbon tetrachloride	ND		1.0		ug/L			04/17/17 23:19	1
Chlorobenzene	ND		1.0		ug/L			04/17/17 23:19	1
Chlorobromomethane	ND		1.0		ug/L			04/17/17 23:19	1
Chlorodibromomethane	ND		0.50		ug/L			04/17/17 23:19	1
Chloroethane	ND		2.0		ug/L			04/17/17 23:19	1
Chloroform	ND		1.0		ug/L			04/17/17 23:19	1
Chloromethane	ND		2.0		ug/L			04/17/17 23:19	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/17/17 23:19	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/17/17 23:19	1
Dichlorobromomethane	ND		0.50		ug/L			04/17/17 23:19	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/17/17 23:19	1
Ethyl ether	ND		1.0		ug/L			04/17/17 23:19	1
Ethylbenzene	ND		1.0		ug/L			04/17/17 23:19	1
Ethylene Dibromide	ND		1.0		ug/L			04/17/17 23:19	1
Hexachlorobutadiene	ND		0.40		ug/L			04/17/17 23:19	1
Isopropyl ether	ND		10		ug/L			04/17/17 23:19	1
Isopropylbenzene	ND		1.0		ug/L			04/17/17 23:19	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/17/17 23:19	1
Methylene Chloride	ND		1.0		ug/L			04/17/17 23:19	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/17/17 23:19	1
Naphthalene	ND		5.0		ug/L			04/17/17 23:19	1
n-Butylbenzene	ND		1.0		ug/L			04/17/17 23:19	1
N-Propylbenzene	ND		1.0		ug/L			04/17/17 23:19	1
o-Xylene	ND		1.0		ug/L			04/17/17 23:19	1
sec-Butylbenzene	ND		1.0		ug/L			04/17/17 23:19	1
Styrene	ND		1.0		ug/L			04/17/17 23:19	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/17/17 23:19	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/17/17 23:19	1
tert-Butylbenzene	ND		1.0		ug/L			04/17/17 23:19	1
Tetrachloroethene	ND		1.0		ug/L			04/17/17 23:19	1
Tetrahydrofuran	ND	*	10		ug/L			04/17/17 23:19	1

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116135-1

Client Sample ID: TRIP BLANKS
Date Collected: 04/12/17 00:00
Date Received: 04/13/17 01:00

Lab Sample ID: 480-116135-7
Matrix: Water

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0		ug/L			04/17/17 23:19	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/17/17 23:19	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/17/17 23:19	1
Trichloroethene	ND		1.0		ug/L			04/17/17 23:19	1
Trichlorofluoromethane	ND		1.0		ug/L			04/17/17 23:19	1
Vinyl chloride	ND		1.0		ug/L			04/17/17 23:19	1
Dibromomethane	ND		1.0		ug/L			04/17/17 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*04/17/17 23:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*04/17/17 23:19*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*04/17/17 23:19*	*1*

Surrogate Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116135-1

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TOL	12DCE	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
480-116135-1	DFB 21 20170412	95	101	101
480-116135-2	MW-265S-20170412	95	100	95
480-116135-3	MW-265M-20170412	95	102	99
480-116135-4	REW-1-20170412	93	100	99
480-116135-5	REW-4-20170412	94	99	99
480-116135-6	REW-5-20170412	95	101	98
480-116135-7	TRIP BLANKS	95	102	97
LCS 480-352240/4	Lab Control Sample	97	101	100
LCS 480-352449/5	Lab Control Sample	93	96	97
LCSD 480-352240/5	Lab Control Sample Dup	97	95	103
LCSD 480-352449/6	Lab Control Sample Dup	93	96	98
MB 480-352240/7	Method Blank	98	99	101
MB 480-352449/8	Method Blank	92	97	98

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		14DD8
Lab Sample ID	Client Sample ID	(46-130)
480-116135-3	MW-265M-20170412	9 X
480-116135-3	MW-265M-20170412	9 X
LCS 200-115930/2-A	Lab Control Sample	98
LCSD 200-115930/3-A	Lab Control Sample Dup	88
MB 200-115930/1-A	Method Blank	77

Surrogate Legend

14DD8 = 1,4-Dioxane-d8 (Surr)

Method: 8260C - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-352240/7
Matrix: Water
Analysis Batch: 352240

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/15/17 23:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/15/17 23:17	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/15/17 23:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/15/17 23:17	1
1,1-Dichloroethane	ND		1.0		ug/L			04/15/17 23:17	1
1,1-Dichloroethene	ND		1.0		ug/L			04/15/17 23:17	1
1,1-Dichloropropene	ND		1.0		ug/L			04/15/17 23:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/15/17 23:17	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/15/17 23:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/15/17 23:17	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/15/17 23:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/15/17 23:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/15/17 23:17	1
1,2-Dichloroethane	ND		1.0		ug/L			04/15/17 23:17	1
1,2-Dichloropropane	ND		1.0		ug/L			04/15/17 23:17	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/15/17 23:17	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/15/17 23:17	1
1,3-Dichloropropane	ND		1.0		ug/L			04/15/17 23:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/15/17 23:17	1
1,4-Dioxane	ND		50		ug/L			04/15/17 23:17	1
2,2-Dichloropropane	ND		1.0		ug/L			04/15/17 23:17	1
2-Butanone (MEK)	ND		10		ug/L			04/15/17 23:17	1
2-Chlorotoluene	ND		1.0		ug/L			04/15/17 23:17	1
2-Hexanone	ND		10		ug/L			04/15/17 23:17	1
4-Chlorotoluene	ND		1.0		ug/L			04/15/17 23:17	1
4-Isopropyltoluene	ND		1.0		ug/L			04/15/17 23:17	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/15/17 23:17	1
Acetone	ND		50		ug/L			04/15/17 23:17	1
Benzene	ND		1.0		ug/L			04/15/17 23:17	1
Bromobenzene	ND		1.0		ug/L			04/15/17 23:17	1
Bromoform	ND		1.0		ug/L			04/15/17 23:17	1
Bromomethane	ND		2.0		ug/L			04/15/17 23:17	1
Carbon disulfide	ND		10		ug/L			04/15/17 23:17	1
Carbon tetrachloride	ND		1.0		ug/L			04/15/17 23:17	1
Chlorobenzene	ND		1.0		ug/L			04/15/17 23:17	1
Chlorobromomethane	ND		1.0		ug/L			04/15/17 23:17	1
Chlorodibromomethane	ND		0.50		ug/L			04/15/17 23:17	1
Chloroethane	ND		2.0		ug/L			04/15/17 23:17	1
Chloroform	ND		1.0		ug/L			04/15/17 23:17	1
Chloromethane	ND		2.0		ug/L			04/15/17 23:17	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/15/17 23:17	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/15/17 23:17	1
Dichlorobromomethane	ND		0.50		ug/L			04/15/17 23:17	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/15/17 23:17	1
Ethyl ether	ND		1.0		ug/L			04/15/17 23:17	1
Ethylbenzene	ND		1.0		ug/L			04/15/17 23:17	1
Ethylene Dibromide	ND		1.0		ug/L			04/15/17 23:17	1
Hexachlorobutadiene	ND		0.40		ug/L			04/15/17 23:17	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-352240/7
Matrix: Water
Analysis Batch: 352240

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			04/15/17 23:17	1
Isopropylbenzene	ND		1.0		ug/L			04/15/17 23:17	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/15/17 23:17	1
Methylene Chloride	ND		1.0		ug/L			04/15/17 23:17	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/15/17 23:17	1
Naphthalene	ND		5.0		ug/L			04/15/17 23:17	1
n-Butylbenzene	ND		1.0		ug/L			04/15/17 23:17	1
N-Propylbenzene	ND		1.0		ug/L			04/15/17 23:17	1
o-Xylene	ND		1.0		ug/L			04/15/17 23:17	1
sec-Butylbenzene	ND		1.0		ug/L			04/15/17 23:17	1
Styrene	ND		1.0		ug/L			04/15/17 23:17	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/15/17 23:17	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/15/17 23:17	1
tert-Butylbenzene	ND		1.0		ug/L			04/15/17 23:17	1
Tetrachloroethene	ND		1.0		ug/L			04/15/17 23:17	1
Tetrahydrofuran	ND		10		ug/L			04/15/17 23:17	1
Toluene	ND		1.0		ug/L			04/15/17 23:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/15/17 23:17	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/15/17 23:17	1
Trichloroethene	ND		1.0		ug/L			04/15/17 23:17	1
Trichlorofluoromethane	ND		1.0		ug/L			04/15/17 23:17	1
Vinyl chloride	ND		1.0		ug/L			04/15/17 23:17	1
Dibromomethane	ND		1.0		ug/L			04/15/17 23:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*04/15/17 23:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*04/15/17 23:17*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*04/15/17 23:17*	*1*

Lab Sample ID: LCS 480-352240/4
Matrix: Water
Analysis Batch: 352240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	24.2		ug/L		97	70 - 130
1,1,1-Trichloroethane	25.0	24.8		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	25.0	26.5		ug/L		106	70 - 130
1,1,2-Trichloroethane	25.0	25.3		ug/L		101	70 - 130
1,1-Dichloroethane	25.0	25.5		ug/L		102	70 - 130
1,1-Dichloroethene	25.0	24.1		ug/L		96	70 - 130
1,1-Dichloropropene	25.0	24.4		ug/L		98	70 - 130
1,2,3-Trichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,2,3-Trichloropropane	25.0	24.5		ug/L		98	70 - 130
1,2,4-Trichlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,2,4-Trimethylbenzene	25.0	23.3		ug/L		93	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.7		ug/L		99	70 - 130
1,2-Dichlorobenzene	25.0	24.4		ug/L		97	70 - 130
1,2-Dichloroethane	25.0	24.4		ug/L		98	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-352240/4
Matrix: Water
Analysis Batch: 352240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	25.0		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	25.0	23.4		ug/L		94	70 - 130
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,3-Dichloropropane	25.0	24.7		ug/L		99	70 - 130
1,4-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130
1,4-Dioxane	500	464		ug/L		93	70 - 130
2,2-Dichloropropane	25.0	24.3		ug/L		97	70 - 130
2-Butanone (MEK)	125	149		ug/L		119	70 - 130
2-Chlorotoluene	25.0	23.3		ug/L		93	70 - 130
2-Hexanone	125	142		ug/L		114	70 - 130
4-Chlorotoluene	25.0	25.7		ug/L		103	70 - 130
4-Isopropyltoluene	25.0	24.1		ug/L		96	70 - 130
4-Methyl-2-pentanone (MIBK)	125	139		ug/L		111	70 - 130
Acetone	125	166	*	ug/L		133	70 - 130
Benzene	25.0	24.7		ug/L		99	70 - 130
Bromobenzene	25.0	24.1		ug/L		96	70 - 130
Bromoform	25.0	34.3	*	ug/L		137	70 - 130
Bromomethane	25.0	24.7		ug/L		99	70 - 130
Carbon disulfide	25.0	23.8		ug/L		95	70 - 130
Carbon tetrachloride	25.0	27.9		ug/L		112	70 - 130
Chlorobenzene	25.0	24.3		ug/L		97	70 - 130
Chlorobromomethane	25.0	26.1		ug/L		104	70 - 130
Chlorodibromomethane	25.0	27.2		ug/L		109	70 - 130
Chloroethane	25.0	22.5		ug/L		90	70 - 130
Chloroform	25.0	24.4		ug/L		98	70 - 130
Chloromethane	25.0	24.4		ug/L		98	70 - 130
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	70 - 130
cis-1,3-Dichloropropene	25.0	26.7		ug/L		107	70 - 130
Dichlorobromomethane	25.0	28.6		ug/L		114	70 - 130
Dichlorodifluoromethane	25.0	24.1		ug/L		96	70 - 130
Ethyl ether	25.0	24.8		ug/L		99	70 - 130
Ethylbenzene	25.0	23.5		ug/L		94	70 - 130
Ethylene Dibromide	25.0	25.6		ug/L		102	70 - 130
Hexachlorobutadiene	25.0	24.9		ug/L		100	70 - 130
Isopropyl ether	25.0	24.0		ug/L		96	70 - 130
Isopropylbenzene	25.0	23.4		ug/L		94	70 - 130
Methyl tert-butyl ether	25.0	24.9		ug/L		100	70 - 130
Methylene Chloride	25.0	22.4		ug/L		90	70 - 130
m-Xylene & p-Xylene	25.0	23.9		ug/L		96	70 - 130
Naphthalene	25.0	25.9		ug/L		104	70 - 130
n-Butylbenzene	25.0	23.4		ug/L		94	70 - 130
N-Propylbenzene	25.0	23.3		ug/L		93	70 - 130
o-Xylene	25.0	23.8		ug/L		95	70 - 130
sec-Butylbenzene	25.0	23.4		ug/L		94	70 - 130
Styrene	25.0	24.6		ug/L		98	70 - 130
Tert-amyl methyl ether	25.0	23.6		ug/L		95	70 - 130
Tert-butyl ethyl ether	25.0	23.0		ug/L		92	70 - 130
tert-Butylbenzene	25.0	24.0		ug/L		96	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-352240/4
Matrix: Water
Analysis Batch: 352240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	25.2		ug/L		101	70 - 130
Tetrahydrofuran	50.0	71.3	*	ug/L		143	70 - 130
Toluene	25.0	23.8		ug/L		95	70 - 130
trans-1,2-Dichloroethene	25.0	24.3		ug/L		97	70 - 130
trans-1,3-Dichloropropene	25.0	25.9		ug/L		104	70 - 130
Trichloroethene	25.0	24.5		ug/L		98	70 - 130
Trichlorofluoromethane	25.0	25.1		ug/L		101	70 - 130
Vinyl chloride	25.0	24.3		ug/L		97	70 - 130
Dibromomethane	25.0	25.7		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 480-352240/5
Matrix: Water
Analysis Batch: 352240

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.8		ug/L		99	70 - 130	3	20
1,1,1-Trichloroethane	25.0	25.0		ug/L		100	70 - 130	1	20
1,1,2,2-Tetrachloroethane	25.0	26.1		ug/L		105	70 - 130	1	20
1,1,2-Trichloroethane	25.0	25.0		ug/L		100	70 - 130	1	20
1,1-Dichloroethane	25.0	25.8		ug/L		103	70 - 130	1	20
1,1-Dichloroethene	25.0	24.9		ug/L		99	70 - 130	3	20
1,1-Dichloropropene	25.0	24.4		ug/L		97	70 - 130	0	20
1,2,3-Trichlorobenzene	25.0	25.5		ug/L		102	70 - 130	3	20
1,2,3-Trichloropropane	25.0	23.1		ug/L		92	70 - 130	6	20
1,2,4-Trichlorobenzene	25.0	25.2		ug/L		101	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	23.6		ug/L		95	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	22.5		ug/L		90	70 - 130	9	20
1,2-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130	2	20
1,2-Dichloroethane	25.0	24.2		ug/L		97	70 - 130	1	20
1,2-Dichloropropane	25.0	25.2		ug/L		101	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 130	2	20
1,3-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130	3	20
1,3-Dichloropropane	25.0	24.7		ug/L		99	70 - 130	0	20
1,4-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130	1	20
1,4-Dioxane	500	471		ug/L		94	70 - 130	1	20
2,2-Dichloropropane	25.0	24.5		ug/L		98	70 - 130	1	20
2-Butanone (MEK)	125	137		ug/L		110	70 - 130	8	20
2-Chlorotoluene	25.0	23.8		ug/L		95	70 - 130	2	20
2-Hexanone	125	138		ug/L		110	70 - 130	3	20
4-Chlorotoluene	25.0	25.6		ug/L		102	70 - 130	0	20
4-Isopropyltoluene	25.0	24.3		ug/L		97	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	136		ug/L		109	70 - 130	2	20
Acetone	125	157		ug/L		126	70 - 130	6	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-352240/5
Matrix: Water
Analysis Batch: 352240

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			25.0	24.7		ug/L		99	70 - 130	0	20
Bromobenzene			25.0	24.3		ug/L		97	70 - 130	1	20
Bromoform			25.0	36.1	*	ug/L		144	70 - 130	5	20
Bromomethane			25.0	25.7		ug/L		103	70 - 130	4	20
Carbon disulfide			25.0	24.6		ug/L		99	70 - 130	4	20
Carbon tetrachloride			25.0	28.9		ug/L		115	70 - 130	3	20
Chlorobenzene			25.0	25.2		ug/L		101	70 - 130	4	20
Chlorobromomethane			25.0	26.0		ug/L		104	70 - 130	0	20
Chlorodibromomethane			25.0	27.7		ug/L		111	70 - 130	2	20
Chloroethane			25.0	23.2		ug/L		93	70 - 130	3	20
Chloroform			25.0	24.2		ug/L		97	70 - 130	1	20
Chloromethane			25.0	24.7		ug/L		99	70 - 130	1	20
cis-1,2-Dichloroethene			25.0	24.8		ug/L		99	70 - 130	0	20
cis-1,3-Dichloropropene			25.0	27.0		ug/L		108	70 - 130	1	20
Dichlorobromomethane			25.0	28.5		ug/L		114	70 - 130	0	20
Dichlorodifluoromethane			25.0	25.5		ug/L		102	70 - 130	6	20
Ethyl ether			25.0	24.6		ug/L		98	70 - 130	1	20
Ethylbenzene			25.0	24.1		ug/L		96	70 - 130	2	20
Ethylene Dibromide			25.0	25.4		ug/L		101	70 - 130	1	20
Hexachlorobutadiene			25.0	25.8		ug/L		103	70 - 130	3	20
Isopropyl ether			25.0	23.9		ug/L		96	70 - 130	0	20
Isopropylbenzene			25.0	23.5		ug/L		94	70 - 130	0	20
Methyl tert-butyl ether			25.0	24.5		ug/L		98	70 - 130	2	20
Methylene Chloride			25.0	22.9		ug/L		92	70 - 130	2	20
m-Xylene & p-Xylene			25.0	24.7		ug/L		99	70 - 130	3	20
Naphthalene			25.0	25.1		ug/L		100	70 - 130	3	20
n-Butylbenzene			25.0	23.9		ug/L		95	70 - 130	2	20
N-Propylbenzene			25.0	23.8		ug/L		95	70 - 130	2	20
o-Xylene			25.0	24.5		ug/L		98	70 - 130	3	20
sec-Butylbenzene			25.0	24.3		ug/L		97	70 - 130	4	20
Styrene			25.0	25.0		ug/L		100	70 - 130	2	20
Tert-amyl methyl ether			25.0	23.5		ug/L		94	70 - 130	0	20
Tert-butyl ethyl ether			25.0	22.6		ug/L		90	70 - 130	2	20
tert-Butylbenzene			25.0	24.8		ug/L		99	70 - 130	4	20
Tetrachloroethene			25.0	26.4		ug/L		106	70 - 130	5	20
Tetrahydrofuran			50.0	67.0	*	ug/L		134	70 - 130	6	20
Toluene			25.0	24.3		ug/L		97	70 - 130	2	20
trans-1,2-Dichloroethene			25.0	25.0		ug/L		100	70 - 130	3	20
trans-1,3-Dichloropropene			25.0	26.8		ug/L		107	70 - 130	3	20
Trichloroethene			25.0	24.9		ug/L		100	70 - 130	2	20
Trichlorofluoromethane			25.0	26.2		ug/L		105	70 - 130	4	20
Vinyl chloride			25.0	25.1		ug/L		101	70 - 130	3	20
Dibromomethane			25.0	25.6		ug/L		102	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 480-352449/8
Matrix: Water
Analysis Batch: 352449

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/17/17 22:21	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/17/17 22:21	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/17/17 22:21	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/17/17 22:21	1
1,1-Dichloroethane	ND		1.0		ug/L			04/17/17 22:21	1
1,1-Dichloroethene	ND		1.0		ug/L			04/17/17 22:21	1
1,1-Dichloropropene	ND		1.0		ug/L			04/17/17 22:21	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/17/17 22:21	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/17/17 22:21	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/17/17 22:21	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/17/17 22:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/17/17 22:21	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/17/17 22:21	1
1,2-Dichloroethane	ND		1.0		ug/L			04/17/17 22:21	1
1,2-Dichloropropane	ND		1.0		ug/L			04/17/17 22:21	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/17/17 22:21	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/17/17 22:21	1
1,3-Dichloropropane	ND		1.0		ug/L			04/17/17 22:21	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/17/17 22:21	1
1,4-Dioxane	ND		50		ug/L			04/17/17 22:21	1
2,2-Dichloropropane	ND		1.0		ug/L			04/17/17 22:21	1
2-Butanone (MEK)	ND		10		ug/L			04/17/17 22:21	1
2-Chlorotoluene	ND		1.0		ug/L			04/17/17 22:21	1
2-Hexanone	ND		10		ug/L			04/17/17 22:21	1
4-Chlorotoluene	ND		1.0		ug/L			04/17/17 22:21	1
4-Isopropyltoluene	ND		1.0		ug/L			04/17/17 22:21	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/17/17 22:21	1
Acetone	ND		50		ug/L			04/17/17 22:21	1
Benzene	ND		1.0		ug/L			04/17/17 22:21	1
Bromobenzene	ND		1.0		ug/L			04/17/17 22:21	1
Bromoform	ND		1.0		ug/L			04/17/17 22:21	1
Bromomethane	ND		2.0		ug/L			04/17/17 22:21	1
Carbon disulfide	ND		10		ug/L			04/17/17 22:21	1
Carbon tetrachloride	ND		1.0		ug/L			04/17/17 22:21	1
Chlorobenzene	ND		1.0		ug/L			04/17/17 22:21	1
Chlorobromomethane	ND		1.0		ug/L			04/17/17 22:21	1
Chlorodibromomethane	ND		0.50		ug/L			04/17/17 22:21	1
Chloroethane	ND		2.0		ug/L			04/17/17 22:21	1
Chloroform	ND		1.0		ug/L			04/17/17 22:21	1
Chloromethane	ND		2.0		ug/L			04/17/17 22:21	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/17/17 22:21	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/17/17 22:21	1
Dichlorobromomethane	ND		0.50		ug/L			04/17/17 22:21	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/17/17 22:21	1
Ethyl ether	ND		1.0		ug/L			04/17/17 22:21	1
Ethylbenzene	ND		1.0		ug/L			04/17/17 22:21	1
Ethylene Dibromide	ND		1.0		ug/L			04/17/17 22:21	1
Hexachlorobutadiene	ND		0.40		ug/L			04/17/17 22:21	1
Isopropyl ether	ND		10		ug/L			04/17/17 22:21	1
Isopropylbenzene	ND		1.0		ug/L			04/17/17 22:21	1

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-352449/8
Matrix: Water
Analysis Batch: 352449

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			04/17/17 22:21	1
Methylene Chloride	ND		1.0		ug/L			04/17/17 22:21	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/17/17 22:21	1
Naphthalene	ND		5.0		ug/L			04/17/17 22:21	1
n-Butylbenzene	ND		1.0		ug/L			04/17/17 22:21	1
N-Propylbenzene	ND		1.0		ug/L			04/17/17 22:21	1
o-Xylene	ND		1.0		ug/L			04/17/17 22:21	1
sec-Butylbenzene	ND		1.0		ug/L			04/17/17 22:21	1
Styrene	ND		1.0		ug/L			04/17/17 22:21	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/17/17 22:21	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/17/17 22:21	1
tert-Butylbenzene	ND		1.0		ug/L			04/17/17 22:21	1
Tetrachloroethene	ND		1.0		ug/L			04/17/17 22:21	1
Tetrahydrofuran	ND		10		ug/L			04/17/17 22:21	1
Toluene	ND		1.0		ug/L			04/17/17 22:21	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/17/17 22:21	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/17/17 22:21	1
Trichloroethene	ND		1.0		ug/L			04/17/17 22:21	1
Trichlorofluoromethane	ND		1.0		ug/L			04/17/17 22:21	1
Vinyl chloride	ND		1.0		ug/L			04/17/17 22:21	1
Dibromomethane	ND		1.0		ug/L			04/17/17 22:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*70 - 130*		*04/17/17 22:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*04/17/17 22:21*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*04/17/17 22:21*	*1*

Lab Sample ID: LCS 480-352449/5
Matrix: Water
Analysis Batch: 352449

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	21.7		ug/L		87	70 - 130
1,1,1-Trichloroethane	25.0	23.8		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.1		ug/L		97	70 - 130
1,1,2-Trichloroethane	25.0	23.6		ug/L		95	70 - 130
1,1-Dichloroethane	25.0	25.0		ug/L		100	70 - 130
1,1-Dichloroethene	25.0	23.8		ug/L		95	70 - 130
1,1-Dichloropropene	25.0	24.1		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	25.0	24.4		ug/L		97	70 - 130
1,2,3-Trichloropropane	25.0	22.5		ug/L		90	70 - 130
1,2,4-Trichlorobenzene	25.0	23.5		ug/L		94	70 - 130
1,2,4-Trimethylbenzene	25.0	22.3		ug/L		89	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	22.2		ug/L		89	70 - 130
1,2-Dichlorobenzene	25.0	23.3		ug/L		93	70 - 130
1,2-Dichloroethane	25.0	23.7		ug/L		95	70 - 130
1,2-Dichloropropane	25.0	25.1		ug/L		101	70 - 130
1,3,5-Trimethylbenzene	25.0	22.0		ug/L		88	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-352449/5
Matrix: Water
Analysis Batch: 352449

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130
1,3-Dichloropropane	25.0	22.3		ug/L		89	70 - 130
1,4-Dichlorobenzene	25.0	22.5		ug/L		90	70 - 130
1,4-Dioxane	500	439		ug/L		88	70 - 130
2,2-Dichloropropane	25.0	23.3		ug/L		93	70 - 130
2-Butanone (MEK)	125	143		ug/L		114	70 - 130
2-Chlorotoluene	25.0	22.2		ug/L		89	70 - 130
2-Hexanone	125	131		ug/L		105	70 - 130
4-Chlorotoluene	25.0	23.7		ug/L		95	70 - 130
4-Isopropyltoluene	25.0	22.6		ug/L		90	70 - 130
4-Methyl-2-pentanone (MIBK)	125	126		ug/L		101	70 - 130
Acetone	125	169	*	ug/L		135	70 - 130
Benzene	25.0	24.0		ug/L		96	70 - 130
Bromobenzene	25.0	22.1		ug/L		89	70 - 130
Bromoform	25.0	30.8		ug/L		123	70 - 130
Bromomethane	25.0	23.1		ug/L		92	70 - 130
Carbon disulfide	25.0	23.0		ug/L		92	70 - 130
Carbon tetrachloride	25.0	26.9		ug/L		108	70 - 130
Chlorobenzene	25.0	23.1		ug/L		92	70 - 130
Chlorobromomethane	25.0	25.2		ug/L		101	70 - 130
Chlorodibromomethane	25.0	24.6		ug/L		99	70 - 130
Chloroethane	25.0	21.6		ug/L		86	70 - 130
Chloroform	25.0	23.5		ug/L		94	70 - 130
Chloromethane	25.0	23.8		ug/L		95	70 - 130
cis-1,2-Dichloroethene	25.0	24.5		ug/L		98	70 - 130
cis-1,3-Dichloropropene	25.0	25.9		ug/L		103	70 - 130
Dichlorobromomethane	25.0	27.2		ug/L		109	70 - 130
Dichlorodifluoromethane	25.0	23.5		ug/L		94	70 - 130
Ethyl ether	25.0	24.8		ug/L		99	70 - 130
Ethylbenzene	25.0	21.5		ug/L		86	70 - 130
Ethylene Dibromide	25.0	23.3		ug/L		93	70 - 130
Hexachlorobutadiene	25.0	24.1		ug/L		96	70 - 130
Isopropyl ether	25.0	23.2		ug/L		93	70 - 130
Isopropylbenzene	25.0	22.0		ug/L		88	70 - 130
Methyl tert-butyl ether	25.0	24.0		ug/L		96	70 - 130
Methylene Chloride	25.0	23.1		ug/L		93	70 - 130
m-Xylene & p-Xylene	25.0	22.5		ug/L		90	70 - 130
Naphthalene	25.0	23.5		ug/L		94	70 - 130
n-Butylbenzene	25.0	22.3		ug/L		89	70 - 130
N-Propylbenzene	25.0	21.9		ug/L		87	70 - 130
o-Xylene	25.0	22.1		ug/L		88	70 - 130
sec-Butylbenzene	25.0	22.1		ug/L		88	70 - 130
Styrene	25.0	22.8		ug/L		91	70 - 130
Tert-amyl methyl ether	25.0	22.5		ug/L		90	70 - 130
Tert-butyl ethyl ether	25.0	21.9		ug/L		88	70 - 130
tert-Butylbenzene	25.0	23.3		ug/L		93	70 - 130
Tetrachloroethene	25.0	23.8		ug/L		95	70 - 130
Tetrahydrofuran	50.0	66.5	*	ug/L		133	70 - 130

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-352449/5
Matrix: Water
Analysis Batch: 352449

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	25.0	22.0		ug/L		88	70 - 130
trans-1,2-Dichloroethene	25.0	24.7		ug/L		99	70 - 130
trans-1,3-Dichloropropene	25.0	23.7		ug/L		95	70 - 130
Trichloroethene	25.0	24.3		ug/L		97	70 - 130
Trichlorofluoromethane	25.0	24.5		ug/L		98	70 - 130
Vinyl chloride	25.0	23.5		ug/L		94	70 - 130
Dibromomethane	25.0	25.2		ug/L		101	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 480-352449/6
Matrix: Water
Analysis Batch: 352449

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	22.9		ug/L		92	70 - 130	6	20
1,1,1-Trichloroethane	25.0	25.5		ug/L		102	70 - 130	7	20
1,1,2,2-Tetrachloroethane	25.0	24.3		ug/L		97	70 - 130	1	20
1,1,2-Trichloroethane	25.0	23.3		ug/L		93	70 - 130	2	20
1,1-Dichloroethane	25.0	26.4		ug/L		106	70 - 130	6	20
1,1-Dichloroethene	25.0	25.7		ug/L		103	70 - 130	8	20
1,1-Dichloropropene	25.0	25.6		ug/L		102	70 - 130	6	20
1,2,3-Trichlorobenzene	25.0	25.2		ug/L		101	70 - 130	4	20
1,2,3-Trichloropropane	25.0	23.6		ug/L		94	70 - 130	5	20
1,2,4-Trichlorobenzene	25.0	24.9		ug/L		100	70 - 130	6	20
1,2,4-Trimethylbenzene	25.0	23.1		ug/L		92	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	23.0		ug/L		92	70 - 130	4	20
1,2-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130	2	20
1,2-Dichloroethane	25.0	24.1		ug/L		96	70 - 130	2	20
1,2-Dichloropropane	25.0	25.8		ug/L		103	70 - 130	3	20
1,3,5-Trimethylbenzene	25.0	23.7		ug/L		95	70 - 130	7	20
1,3-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130	4	20
1,3-Dichloropropane	25.0	22.9		ug/L		92	70 - 130	3	20
1,4-Dichlorobenzene	25.0	23.3		ug/L		93	70 - 130	4	20
1,4-Dioxane	500	461		ug/L		92	70 - 130	5	20
2,2-Dichloropropane	25.0	25.1		ug/L		100	70 - 130	7	20
2-Butanone (MEK)	125	144		ug/L		115	70 - 130	1	20
2-Chlorotoluene	25.0	23.3		ug/L		93	70 - 130	5	20
2-Hexanone	125	132		ug/L		105	70 - 130	0	20
4-Chlorotoluene	25.0	24.7		ug/L		99	70 - 130	4	20
4-Isopropyltoluene	25.0	24.4		ug/L		98	70 - 130	8	20
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		99	70 - 130	2	20
Acetone	125	164	*	ug/L		132	70 - 130	3	20
Benzene	25.0	25.3		ug/L		101	70 - 130	5	20
Bromobenzene	25.0	24.0		ug/L		96	70 - 130	8	20

Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-352449/6
Matrix: Water
Analysis Batch: 352449

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform			25.0	33.5	*	ug/L		134	70 - 130	8	20
Bromomethane			25.0	24.1		ug/L		96	70 - 130	4	20
Carbon disulfide			25.0	24.6		ug/L		98	70 - 130	7	20
Carbon tetrachloride			25.0	29.1		ug/L		116	70 - 130	8	20
Chlorobenzene			25.0	23.9		ug/L		96	70 - 130	3	20
Chlorobromomethane			25.0	26.0		ug/L		104	70 - 130	3	20
Chlorodibromomethane			25.0	25.2		ug/L		101	70 - 130	2	20
Chloroethane			25.0	22.8		ug/L		91	70 - 130	6	20
Chloroform			25.0	24.1		ug/L		97	70 - 130	3	20
Chloromethane			25.0	24.6		ug/L		99	70 - 130	3	20
cis-1,2-Dichloroethene			25.0	25.6		ug/L		102	70 - 130	4	20
cis-1,3-Dichloropropene			25.0	26.8		ug/L		107	70 - 130	4	20
Dichlorobromomethane			25.0	28.3		ug/L		113	70 - 130	4	20
Dichlorodifluoromethane			25.0	26.0		ug/L		104	70 - 130	10	20
Ethyl ether			25.0	24.4		ug/L		98	70 - 130	1	20
Ethylbenzene			25.0	23.2		ug/L		93	70 - 130	8	20
Ethylene Dibromide			25.0	23.3		ug/L		93	70 - 130	0	20
Hexachlorobutadiene			25.0	25.3		ug/L		101	70 - 130	5	20
Isopropyl ether			25.0	23.6		ug/L		94	70 - 130	2	20
Isopropylbenzene			25.0	23.2		ug/L		93	70 - 130	6	20
Methyl tert-butyl ether			25.0	24.2		ug/L		97	70 - 130	1	20
Methylene Chloride			25.0	23.8		ug/L		95	70 - 130	3	20
m-Xylene & p-Xylene			25.0	23.5		ug/L		94	70 - 130	4	20
Naphthalene			25.0	23.6		ug/L		94	70 - 130	0	20
n-Butylbenzene			25.0	23.8		ug/L		95	70 - 130	6	20
N-Propylbenzene			25.0	23.6		ug/L		94	70 - 130	8	20
o-Xylene			25.0	23.0		ug/L		92	70 - 130	4	20
sec-Butylbenzene			25.0	24.2		ug/L		97	70 - 130	9	20
Styrene			25.0	23.9		ug/L		96	70 - 130	5	20
Tert-amyl methyl ether			25.0	22.8		ug/L		91	70 - 130	1	20
Tert-butyl ethyl ether			25.0	22.0		ug/L		88	70 - 130	0	20
tert-Butylbenzene			25.0	24.7		ug/L		99	70 - 130	6	20
Tetrachloroethene			25.0	25.1		ug/L		101	70 - 130	6	20
Tetrahydrofuran			50.0	67.3	*	ug/L		135	70 - 130	1	20
Toluene			25.0	22.9		ug/L		92	70 - 130	4	20
trans-1,2-Dichloroethene			25.0	25.4		ug/L		102	70 - 130	3	20
trans-1,3-Dichloropropene			25.0	24.5		ug/L		98	70 - 130	3	20
Trichloroethene			25.0	25.5		ug/L		102	70 - 130	5	20
Trichlorofluoromethane			25.0	26.4		ug/L		105	70 - 130	7	20
Vinyl chloride			25.0	25.5		ug/L		102	70 - 130	8	20
Dibromomethane			25.0	25.9		ug/L		103	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*93*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*

Method: 522 - 1,4 Dioxane (GC/MS SIM)

Lab Sample ID: MB 200-115930/1-A
Matrix: Water
Analysis Batch: 115998

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 115930

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/19/17 10:35	04/21/17 09:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Dioxane-d8 (Surr)	*77*		*46 - 130*	*04/19/17 10:35*	*04/21/17 09:20*	*1*

Lab Sample ID: LCS 200-115930/2-A
Matrix: Water
Analysis Batch: 115937

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 115930

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dioxane			2.00	2.00		ug/L		100	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*98*		*46 - 130*

Lab Sample ID: LCSD 200-115930/3-A
Matrix: Water
Analysis Batch: 115937

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 115930

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane			2.00	1.95		ug/L		97	70 - 130	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,4-Dioxane-d8 (Surr)	*88*		*46 - 130*

Method: 6010 - Metals (ICP)

Lab Sample ID: MB 480-351808/1-A
Matrix: Water
Analysis Batch: 352346

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351808

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050		mg/L		04/13/17 13:25	04/14/17 14:30	1

Lab Sample ID: LCS 480-351808/2-A
Matrix: Water
Analysis Batch: 352346

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351808

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Iron			10.0	9.95		mg/L		99	80 - 120		

Lab Sample ID: LCSD 480-351808/3-A
Matrix: Water
Analysis Batch: 352346

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 351808

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron			10.0	9.93		mg/L		99	80 - 120	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-352836/52
Matrix: Water
Analysis Batch: 352836

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			04/19/17 19:20	1
Sulfate	ND		2.0		mg/L			04/19/17 19:20	1

Lab Sample ID: LCS 480-352836/51
Matrix: Water
Analysis Batch: 352836

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.6		mg/L		99	90 - 110
Sulfate	50.0	45.7		mg/L		91	90 - 110

Lab Sample ID: 480-116135-4 MS
Matrix: Water
Analysis Batch: 352836

Client Sample ID: REW-1-20170412
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	8.4		100	112		mg/L		104	81 - 120
Sulfate	ND		100	98.9		mg/L		96	80 - 120

Lab Sample ID: 480-116135-4 MSD
Matrix: Water
Analysis Batch: 352836

Client Sample ID: REW-1-20170412
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.4		100	111		mg/L		103	81 - 120	1	20
Sulfate	ND		100	97.8		mg/L		95	80 - 120	1	20

Lab Sample ID: MB 480-353081/28
Matrix: Water
Analysis Batch: 353081

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			04/20/17 16:20	1
Sulfate	ND		2.0		mg/L			04/20/17 16:20	1

Lab Sample ID: MB 480-353081/4
Matrix: Water
Analysis Batch: 353081

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			04/20/17 13:04	1
Sulfate	ND		2.0		mg/L			04/20/17 13:04	1

Lab Sample ID: LCS 480-353081/27
Matrix: Water
Analysis Batch: 353081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.2		mg/L		100	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 480-353081/27
Matrix: Water
Analysis Batch: 353081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	46.3		mg/L		93	90 - 110

Lab Sample ID: LCS 480-353081/3
Matrix: Water
Analysis Batch: 353081

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.9		mg/L		100	90 - 110
Sulfate	50.0	46.7		mg/L		93	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 480-351915/2-A
Matrix: Water
Analysis Batch: 352115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 351915

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		04/13/17 17:33	04/14/17 08:45	1

Lab Sample ID: LCS 480-351915/1-A
Matrix: Water
Analysis Batch: 352115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 351915

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.05		mg/L		105	90 - 110

Lab Sample ID: 480-116135-6 MS
Matrix: Water
Analysis Batch: 352115

Client Sample ID: REW-5-20170412
Prep Type: Total/NA
Prep Batch: 351915

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.78	F1	0.500	1.41	F1	mg/L		127	90 - 110

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 480-352260/29
Matrix: Water
Analysis Batch: 352260

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			04/15/17 04:50	1
TOC Result 2	ND		1.0		mg/L			04/15/17 04:50	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/15/17 04:50	1

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: MB 480-352260/53
Matrix: Water
Analysis Batch: 352260

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			04/15/17 16:00	1
TOC Result 2	ND		1.0		mg/L			04/15/17 16:00	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/15/17 16:00	1

Lab Sample ID: LCS 480-352260/30
Matrix: Water
Analysis Batch: 352260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	58.6		mg/L		98	90 - 110
TOC Result 2	60.0	60.9		mg/L		102	90 - 110
Total Organic Carbon - Duplicates	60.0	59.8		mg/L		100	90 - 110

Lab Sample ID: LCS 480-352260/54
Matrix: Water
Analysis Batch: 352260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	61.3		mg/L		102	90 - 110
TOC Result 2	60.0	61.1		mg/L		102	90 - 110
Total Organic Carbon - Duplicates	60.0	61.2		mg/L		102	90 - 110

Lab Sample ID: MB 480-352731/4
Matrix: Water
Analysis Batch: 352731

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			04/17/17 14:53	1
TOC Result 2	ND		1.0		mg/L			04/17/17 14:53	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/17/17 14:53	1

Lab Sample ID: MB 480-352731/76
Matrix: Water
Analysis Batch: 352731

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			04/19/17 00:17	1
TOC Result 2	ND		1.0		mg/L			04/19/17 00:17	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/19/17 00:17	1

Lab Sample ID: LCS 480-352731/5
Matrix: Water
Analysis Batch: 352731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	61.6		mg/L		103	90 - 110
TOC Result 2	60.0	62.0		mg/L		103	90 - 110

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 480-352731/5
Matrix: Water
Analysis Batch: 352731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	60.0	61.8		mg/L		103	90 - 110

Lab Sample ID: LCS 480-352731/77
Matrix: Water
Analysis Batch: 352731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	61.7		mg/L		103	90 - 110
TOC Result 2	60.0	61.9		mg/L		103	90 - 110
Total Organic Carbon - Duplicates	60.0	61.8		mg/L		103	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-352401/30
Matrix: Water
Analysis Batch: 352401

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			04/14/17 22:57	1

Lab Sample ID: LCS 480-352401/31
Matrix: Water
Analysis Batch: 352401

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	94.2		mg/L		94	90 - 110

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 480-351956/3
Matrix: Water
Analysis Batch: 351956

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ortho-Phosphate	ND		0.020		mg/L			04/13/17 22:07	1

Lab Sample ID: LCS 480-351956/4
Matrix: Water
Analysis Batch: 351956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.200	0.190		mg/L		95	90 - 110

Method: SM 4500 P E - Orthophosphate (Continued)

Lab Sample ID: 480-116135-4 MS
Matrix: Water
Analysis Batch: 351956

Client Sample ID: REW-1-20170412
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
ortho-Phosphate	0.074		0.500	0.522		mg/L		90	49 - 138		

Lab Sample ID: 480-116135-4 MSD
Matrix: Water
Analysis Batch: 351956

Client Sample ID: REW-1-20170412
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
ortho-Phosphate	0.074		0.500	0.523		mg/L		90	49 - 138	0	20

GC/MS VOA

Analysis Batch: 352240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116135-1	DEP-21-20170412	Total/NA	Water	8260C	
480-116135-2	MW-265S-20170412	Total/NA	Water	8260C	
480-116135-3	MW-265M-20170412	Total/NA	Water	8260C	
480-116135-4	REW-1-20170412	Total/NA	Water	8260C	
480-116135-5	REW-4-20170412	Total/NA	Water	8260C	
480-116135-6	REW-5-20170412	Total/NA	Water	8260C	
MB 480-352240/7	Method Blank	Total/NA	Water	8260C	
LCS 480-352240/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-352240/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 352449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116135-7	TRIP BLANKS	Total/NA	Water	8260C	
MB 480-352449/8	Method Blank	Total/NA	Water	8260C	
LCS 480-352449/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-352449/6	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 115930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116135-3	MW-265M-20170412	Total/NA	Water	3535A	
MB 200-115930/1-A	Method Blank	Total/NA	Water	3535A	
LCS 200-115930/2-A	Lab Control Sample	Total/NA	Water	3535A	
LCSD 200-115930/3-A	Lab Control Sample Dup	Total/NA	Water	3535A	

Analysis Batch: 115937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116135-3	MW-265M-20170412	Total/NA	Water	522	115930
LCS 200-115930/2-A	Lab Control Sample	Total/NA	Water	522	115930
LCSD 200-115930/3-A	Lab Control Sample Dup	Total/NA	Water	522	115930

Analysis Batch: 115998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116135-3	MW-265M-20170412	Total/NA	Water	522	115930
MB 200-115930/1-A	Method Blank	Total/NA	Water	522	115930

Metals

Prep Batch: 351808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116135-3	MW-265M-20170412	Total/NA	Water	3005A	
480-116135-4	REW-1-20170412	Total/NA	Water	3005A	
480-116135-5	REW-4-20170412	Total/NA	Water	3005A	
480-116135-6	REW-5-20170412	Total/NA	Water	3005A	
MB 480-351808/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-351808/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-351808/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Metals (Continued)

Analysis Batch: 352346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116135-3	MW-265M-20170412	Total/NA	Water	6010	351808
480-116135-4	REW-1-20170412	Total/NA	Water	6010	351808
480-116135-5	REW-4-20170412	Total/NA	Water	6010	351808
480-116135-6	REW-5-20170412	Total/NA	Water	6010	351808
MB 480-351808/1-A	Method Blank	Total/NA	Water	6010	351808
LCS 480-351808/2-A	Lab Control Sample	Total/NA	Water	6010	351808
LCSD 480-351808/3-A	Lab Control Sample Dup	Total/NA	Water	6010	351808

General Chemistry

Analysis Batch: 351853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116135-3	MW-265M-20170412	Total/NA	Water	353.2	
480-116135-4	REW-1-20170412	Total/NA	Water	353.2	
480-116135-5	REW-4-20170412	Total/NA	Water	353.2	
480-116135-6	REW-5-20170412	Total/NA	Water	353.2	

Prep Batch: 351915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116135-3	MW-265M-20170412	Total/NA	Water	Distill/Ammonia	
480-116135-4	REW-1-20170412	Total/NA	Water	Distill/Ammonia	
480-116135-5	REW-4-20170412	Total/NA	Water	Distill/Ammonia	
480-116135-6	REW-5-20170412	Total/NA	Water	Distill/Ammonia	
MB 480-351915/2-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-351915/1-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
480-116135-6 MS	REW-5-20170412	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 351956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116135-3	MW-265M-20170412	Total/NA	Water	SM 4500 P E	
480-116135-4	REW-1-20170412	Total/NA	Water	SM 4500 P E	
480-116135-5	REW-4-20170412	Total/NA	Water	SM 4500 P E	
480-116135-6	REW-5-20170412	Total/NA	Water	SM 4500 P E	
MB 480-351956/3	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-351956/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	
480-116135-4 MS	REW-1-20170412	Total/NA	Water	SM 4500 P E	
480-116135-4 MSD	REW-1-20170412	Total/NA	Water	SM 4500 P E	

Analysis Batch: 352115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116135-3	MW-265M-20170412	Total/NA	Water	350.1	351915
480-116135-4	REW-1-20170412	Total/NA	Water	350.1	351915
480-116135-5	REW-4-20170412	Total/NA	Water	350.1	351915
480-116135-6	REW-5-20170412	Total/NA	Water	350.1	351915
MB 480-351915/2-A	Method Blank	Total/NA	Water	350.1	351915
LCS 480-351915/1-A	Lab Control Sample	Total/NA	Water	350.1	351915
480-116135-6 MS	REW-5-20170412	Total/NA	Water	350.1	351915

General Chemistry (Continued)

Analysis Batch: 352260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116135-4	REW-1-20170412	Total/NA	Water	9060A	
480-116135-6	REW-5-20170412	Total/NA	Water	9060A	
MB 480-352260/29	Method Blank	Total/NA	Water	9060A	
MB 480-352260/53	Method Blank	Total/NA	Water	9060A	
LCS 480-352260/30	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-352260/54	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 352401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116135-3	MW-265M-20170412	Total/NA	Water	SM 2320B	
480-116135-4	REW-1-20170412	Total/NA	Water	SM 2320B	
480-116135-5	REW-4-20170412	Total/NA	Water	SM 2320B	
480-116135-6	REW-5-20170412	Total/NA	Water	SM 2320B	
MB 480-352401/30	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-352401/31	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 352459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116135-3	MW-265M-20170412	Total/NA	Water	9040C	
480-116135-4	REW-1-20170412	Total/NA	Water	9040C	
480-116135-5	REW-4-20170412	Total/NA	Water	9040C	
480-116135-6	REW-5-20170412	Total/NA	Water	9040C	
LCS 480-352459/1	Lab Control Sample	Total/NA	Water	9040C	

Analysis Batch: 352731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116135-3	MW-265M-20170412	Total/NA	Water	9060A	
480-116135-5	REW-4-20170412	Total/NA	Water	9060A	
MB 480-352731/4	Method Blank	Total/NA	Water	9060A	
MB 480-352731/76	Method Blank	Total/NA	Water	9060A	
LCS 480-352731/5	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-352731/77	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 352836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116135-3	MW-265M-20170412	Total/NA	Water	300.0	
480-116135-4	REW-1-20170412	Total/NA	Water	300.0	
MB 480-352836/52	Method Blank	Total/NA	Water	300.0	
LCS 480-352836/51	Lab Control Sample	Total/NA	Water	300.0	
480-116135-4 MS	REW-1-20170412	Total/NA	Water	300.0	
480-116135-4 MSD	REW-1-20170412	Total/NA	Water	300.0	

Analysis Batch: 353081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116135-3	MW-265M-20170412	Total/NA	Water	300.0	
480-116135-4	REW-1-20170412	Total/NA	Water	300.0	
480-116135-5	REW-4-20170412	Total/NA	Water	300.0	
480-116135-6	REW-5-20170412	Total/NA	Water	300.0	
MB 480-353081/28	Method Blank	Total/NA	Water	300.0	
MB 480-353081/4	Method Blank	Total/NA	Water	300.0	
LCS 480-353081/27	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 353081 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-353081/3	Lab Control Sample	Total/NA	Water	300.0	

Client Sample ID: MW-265S-20170412

Lab Sample ID: 480-116135-2

Date Collected: 04/12/17 10:40

Matrix: Water

Date Received: 04/13/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352240	04/16/17 05:03	LCH	TAL BUF

Client Sample ID: MW-265M-20170412

Lab Sample ID: 480-116135-3

Date Collected: 04/12/17 10:20

Matrix: Water

Date Received: 04/13/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	352240	04/16/17 05:27	LCH	TAL BUF
Total/NA	Prep	3535A			115930	04/19/17 10:35	JM1	TAL BUR
Total/NA	Analysis	522		1	115937	04/20/17 05:00	TPB	TAL BUR
Total/NA	Prep	3535A			115930	04/19/17 10:35	JM1	TAL BUR
Total/NA	Analysis	522		1	115998	04/21/17 10:40	TPB	TAL BUR
Total/NA	Prep	3005A			351808	04/13/17 13:25	MVZ	TAL BUF
Total/NA	Analysis	6010		1	352346	04/14/17 15:44	AMH	TAL BUF
Total/NA	Analysis	300.0		10	352836	04/19/17 20:01	DMR	TAL BUF
Total/NA	Analysis	300.0		20	353081	04/20/17 13:29	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			351915	04/13/17 17:33	KRT	TAL BUF
Total/NA	Analysis	350.1		1	352115	04/14/17 09:18	KRT	TAL BUF
Total/NA	Analysis	353.2		1	351853	04/13/17 10:08	CLT	TAL BUF
Total/NA	Analysis	9040C		1	352459	04/17/17 20:49	ALZ	TAL BUF
Total/NA	Analysis	9060A		40	352731	04/17/17 16:43	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	352401	04/15/17 00:47	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	351956	04/13/17 22:07	DSC	TAL BUF

Client Sample ID: REW-1-20170412

Lab Sample ID: 480-116135-4

Date Collected: 04/12/17 10:00

Matrix: Water

Date Received: 04/13/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352240	04/16/17 05:55	LCH	TAL BUF
Total/NA	Prep	3005A			351808	04/13/17 13:25	MVZ	TAL BUF
Total/NA	Analysis	6010		1	352346	04/14/17 15:47	AMH	TAL BUF
Total/NA	Analysis	300.0		2	352836	04/19/17 20:09	DMR	TAL BUF
Total/NA	Analysis	300.0		2	353081	04/20/17 13:37	DMR	TAL BUF

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116135-1

Client Sample ID: REW-1-20170412

Date Collected: 04/12/17 10:00
Date Received: 04/13/17 01:00

Lab Sample ID: 480-116135-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Distill/Ammonia			351915	04/13/17 17:33	KRT	TAL BUF
Total/NA	Analysis	350.1		1	352115	04/14/17 09:19	KRT	TAL BUF
Total/NA	Analysis	353.2		1	351853	04/13/17 10:09	CLT	TAL BUF
Total/NA	Analysis	9040C		1	352459	04/17/17 20:52	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	352260	04/15/17 14:38	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	352401	04/15/17 00:53	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	351956	04/13/17 22:07	DSC	TAL BUF

Client Sample ID: REW-4-20170412

Date Collected: 04/12/17 09:20
Date Received: 04/13/17 01:00

Lab Sample ID: 480-116135-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352240	04/16/17 06:18	LCH	TAL BUF
Total/NA	Prep	3005A			351808	04/13/17 13:25	MVZ	TAL BUF
Total/NA	Analysis	6010		1	352346	04/14/17 15:51	AMH	TAL BUF
Total/NA	Analysis	300.0		1	353081	04/20/17 13:12	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			351915	04/13/17 17:33	KRT	TAL BUF
Total/NA	Analysis	350.1		1	352115	04/14/17 09:20	KRT	TAL BUF
Total/NA	Analysis	353.2		1	351853	04/13/17 10:11	CLT	TAL BUF
Total/NA	Analysis	9040C		1	352459	04/17/17 20:55	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	352731	04/17/17 17:12	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	352401	04/15/17 00:58	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	351956	04/13/17 22:07	DSC	TAL BUF

Client Sample ID: REW-5-20170412

Date Collected: 04/12/17 10:20
Date Received: 04/13/17 01:00

Lab Sample ID: 480-116135-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352240	04/16/17 06:42	LCH	TAL BUF
Total/NA	Prep	3005A			351808	04/13/17 13:25	MVZ	TAL BUF
Total/NA	Analysis	6010		1	352346	04/14/17 15:54	AMH	TAL BUF
Total/NA	Analysis	300.0		1	353081	04/20/17 13:20	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			351915	04/13/17 17:33	KRT	TAL BUF
Total/NA	Analysis	350.1		1	352115	04/14/17 09:21	KRT	TAL BUF
Total/NA	Analysis	353.2		1	351853	04/13/17 10:12	CLT	TAL BUF
Total/NA	Analysis	9040C		1	352459	04/17/17 20:58	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	352260	04/15/17 16:56	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	352401	04/15/17 01:04	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	351956	04/13/17 22:07	DSC	TAL BUF

Lab Chronicle

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116135-1

Client Sample ID: TRIP BLANKS

Date Collected: 04/12/17 00:00
Date Received: 04/13/17 01:00

Lab Sample ID: 480-116135-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	352449	04/17/17 23:19	JWG	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116135-1

Laboratory: TestAmerica Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-17
California	State Program	9	1169CA	09-30-17
Connecticut	State Program	1	PH-0568	09-30-18
Florida	NELAP	4	E87672	06-30-17
Georgia	State Program	4	N/A	03-31-18
Illinois	NELAP	5	200003	09-30-17
Iowa	State Program	7	374	03-01-17 *
Kansas	NELAP	7	E-10187	01-31-18
Kentucky (DW)	State Program	4	90029	12-31-17
Kentucky (UST)	State Program	4	30	03-31-17 *
Kentucky (WW)	State Program	4	90029	12-31-17
Louisiana	NELAP	6	02031	06-30-17
Maine	State Program	1	NY00044	12-04-18
Maryland	State Program	3	294	03-31-18
Massachusetts	State Program	1	M-NY044	06-30-17
Michigan	State Program	5	9937	03-31-17 *
Minnesota	NELAP	5	036-999-337	12-31-17
New Hampshire	NELAP Primary AB	1	2973	09-11-17
New Hampshire	NELAP Secondary AB	1	2337	11-17-17
New Jersey	NELAP	2	NY455	06-30-17
New York	NELAP	2	10026	03-31-18
North Dakota	State Program	8	R-176	03-31-17 *
Oklahoma	State Program	6	9421	08-31-17
Oregon	NELAP	10	NY200003	06-09-17 *
Pennsylvania	NELAP	3	68-00281	07-31-17
Rhode Island	State Program	1	LAO00328	12-30-17
Tennessee	State Program	4	TN02970	03-31-18
Texas	NELAP	6	T104704412-15-6	07-31-17
USDA	Federal		P330-11-00386	11-26-17
Virginia	NELAP	3	460185	09-14-17
Washington	State Program	10	C784	02-10-18
Wisconsin	State Program	5	998310390	08-31-17

Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-17
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-02-18
Florida	NELAP	4	E87467	06-30-17
L-A-B	DoD ELAP		L2336	03-25-17 *
Maine	State Program	1	VT00008	04-17-17 *
Minnesota	NELAP	5	050-999-436	12-31-17
New Hampshire	NELAP	1	2006	12-18-17
New Jersey	NELAP	2	VT972	06-30-17 *
New York	NELAP	2	10391	04-01-17 *
Pennsylvania	NELAP	3	68-00489	04-30-17 *
Rhode Island	State Program	1	LAO00298	12-30-17
US Fish & Wildlife	Federal		LE-058448-0	10-31-17
USDA	Federal		P330-11-00093	12-05-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Laboratory: TestAmerica Burlington (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Vermont	State Program	1	VT-4000	12-31-17
Virginia	NELAP	3	460209	12-14-17

Method Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116135-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
522	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR
6010	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
9040C	pH	SW846	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 4500 P E	Orthophosphate	SM	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency
MA DEP = Massachusetts Department Of Environmental Protection
MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Sample Summary

Client: Innovative Engineering Solutions, Inc
Project/Site: IDS Wayland

TestAmerica Job ID: 480-116135-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-116135-2	MW-265S-20170412	Water	04/12/17 10:40	04/13/17 01:00
480-116135-3	MW-265M-20170412	Water	04/12/17 10:20	04/13/17 01:00
480-116135-4	REW-1-20170412	Water	04/12/17 10:00	04/13/17 01:00
480-116135-5	REW-4-20170412	Water	04/12/17 09:20	04/13/17 01:00
480-116135-6	REW-5-20170412	Water	04/12/17 10:20	04/13/17 01:00
480-116135-7	TRIP BLANKS	Water	04/12/17 00:00	04/13/17 01:00

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-116135-1

Login Number: 116135
List Number: 1
Creator: Williams, Christopher S

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	IESI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-116135-1

Login Number: 116135
List Number: 2
Creator: Nye, Elizabeth A

List Source: TestAmerica Burlington
List Creation: 04/13/17 11:57 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1º C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica Westfield
501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (303) 467-7247

TestAmerica Boston
240 Bear Hill Road -- Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6901

360325-Boston

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information:

Client Contact: Vicki Parziale
Company: Innovative Engineering Solutions Inc
Address: 25 Spring St
City: Walpole
State and Zip: MA 02081
Client's Phone: 508-668-0033
Client's Contact Email: vparziale@IESInc.com
Client's Project Name/Number: Raytheon Wayland RA-009
Sample Collection Site Name & Location: Wayland MA

Sample Collector's Name (Please Print Neatly): Dawn Jones
Sample Collector's Phone: 508-404-3196
Due Date Requested: 4/17
Turnaround Time (TAT) Requested (business days): 5 days
Quote # or Project #:
PO #: RA-008
WO #:
PWS ID #:

Lab PM:
E-Mail:
Lab C
480-116135 COC

COC No: 37304
Page: ____ of ____
Job #:

Analysis Request: 8260C; 522 Dioxane; 9060A TOC; 350.1 NH3; Colormetric Total Iron; 300.0_28D SO4+Cl; 9040C pH; 2320B Alkalinity; 4500_P_E ortho Phos; Nitrate Calc; 353.2 NO3

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	8260C	522 Dioxane	9060A TOC	350.1 NH3	Colormetric Total Iron	300.0_28D SO4+Cl / 9040C pH	2320B Alkalinity	4500_P_E ortho Phos / Nitrate Calc / 353.2 NO3	Total Number of Containers
Preservation Codes =>					A	A	A	S	D	N	N	N	
MW-265S-20170412	4/12/17	1040	G	W	X								3
MW-265M-20170412	4/12/17	1020	G	W	X	X	X	X	X	X	X	X	11
REW-1-20170412	4/12/17	1000	G	W	X		X	X	X	X	X	X	10
REW-4-20170412	4/12/17	0920	G	W	X		X	X	X	X	X	X	10
REW-5-20170412	4/12/17	1020	G	W	X		X	X	X	X	X	X	10
Trip Blanks	-	-	-	W	X								2

Preservation Codes:
A - Hydrochloric Acid; B - Sodium Hydroxide; C - Zinc Acetate; D - Nitric Acid; E - Sodium Bisulfite; F - Methanol; H - Ascorbic Acid; J - Deionized Water; M - Hexane; N - No Preservative; P - Sodium Sulfate; Q - Sodium Sulfite; R - Sodium Thiosulfate; S - Sulfuric Acid; Z - other (specify)

Regulatory Programs:
☐ MCP ☐ RCP ☐ DEP Form ☐ eDEP Filing ☐ GW1/S1 ☐ CT RSR ☐ EDD Required ☐ NPDES

SUBCONTRACT POLICY: Unless you provide instructions to the contrary, or specify which sub-contract labs are or are not to be used, you agree in advance to permit TestAmerica to use certified, subcontract labs, without any additional notification made by us, as necessary to fulfill your work order.

Special Instructions & Notes:

Possible Hazard Identification (please check off each that may apply):
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

** **Matrix Types:** A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other: ______

▶ **NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!** ◀

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	4/12 1223	IESI	[signature]	4-12-17	Bay TA
[signature]	4-12-17	TA	[signature]	4-13-17 0100	TAB

Custody Seals Intact: △ Yes △ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 1.8

WI-QA-010 rev 8
Revised 10/29/2014
TAL-8245-360R

360325-Boston

360325-Boston

TestAmerica Westfield
501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (303) 467-7247

TestAmerica Boston
240 Bear Hill Road -- Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6901

Chain of Custody

480-116135 COC

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information:	Sample Collector's Name (Please Print Neatly): Dawn Sowa	Lab PM:	Lab C	COC No: 37304
Client Contact: Vicki Praiser	Sample Collector's Phone: 508-404-3196	E-Mail:		Page: _____ of _____
Company: Innovative Engineering Solutions Inc				Job #:
Address: 25 Spring St	Due Date Requested: 4/17			
City: Walpole	Turnaround Time (TAT) Requested (business days): 5 days			
State and Zip: MA 02081				
Client's Phone: 508-668-0033	Quote # or Project #:			
Client's Contact Email: vpraiser@IESIonline.com	PO #: RA-008			
Client's Project Name/Number: Raytheon Wayland RA-008	WO #:			
Sample Collection Site Name & Location: Wayland MA	PWS ID #:			

Analysis Requested

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	8260C	522 Dioxane	6010A TOC	350.1 NH3	Chloride	300.0 SO4	8260B Allyl Chloride	1,4-Dioxane	353.2 NO3	Total Number of Containers (enter total for each line)
MW-265S-20170412	4/12/17	1040	G	W	X									3
MW-265M-20170412	4/12/17	1030	G	W	X	X	X	X	X	X	X	X		11
REW-1-20170412	4/12/17	1000	G	W	X		X	X	X	X	X	X		10
REW-4-20170412	4/12/17	0920	G	W	X		X	X	X	X	X	X		10
REW-5-20170412	4/12/17	1020	G	W	X		X	X	X	X	X	X		10
Trip Blanks	-	-	-	W	X									2

522 - 1,4-Dioxane To Burlington.

Preservation Codes:
A - Hydrochloric Acid; B - Sodium Hydroxide; C - Zinc Acetate; D - Nitric Acid; E - Sodium Bisulfite; F - Methanol; H - Ascorbic Acid; J - Deionized Water; M - Hexane; N - No Preservative; P - Sodium Sulfate; Q - Sodium Sulfite; R - Sodium Thiosulfate; S - Sulfuric Acid; Z - other (specify)

Regulatory Programs:
MCP ☐ GW1/S1 ☐
RCP ☐ CT RSR ☐
DEP Form ☐ EDD Required ☐
eDEP Filing ☐ NPDES ☐

SUBCONTRACT POLICY: Unless you provide instructions to the contrary, or specify which sub-contract labs are or are not to be used, you agree in advance to permit Test-America to use certified, subcontract labs, without any additional notification made by us, as necessary to fulfill your work order.

Special Instructions & Notes:

Possible Hazard Identification (please check off each that may apply):
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month) :
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

** **Matrix Types**: A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other: _____

► NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !! ◄

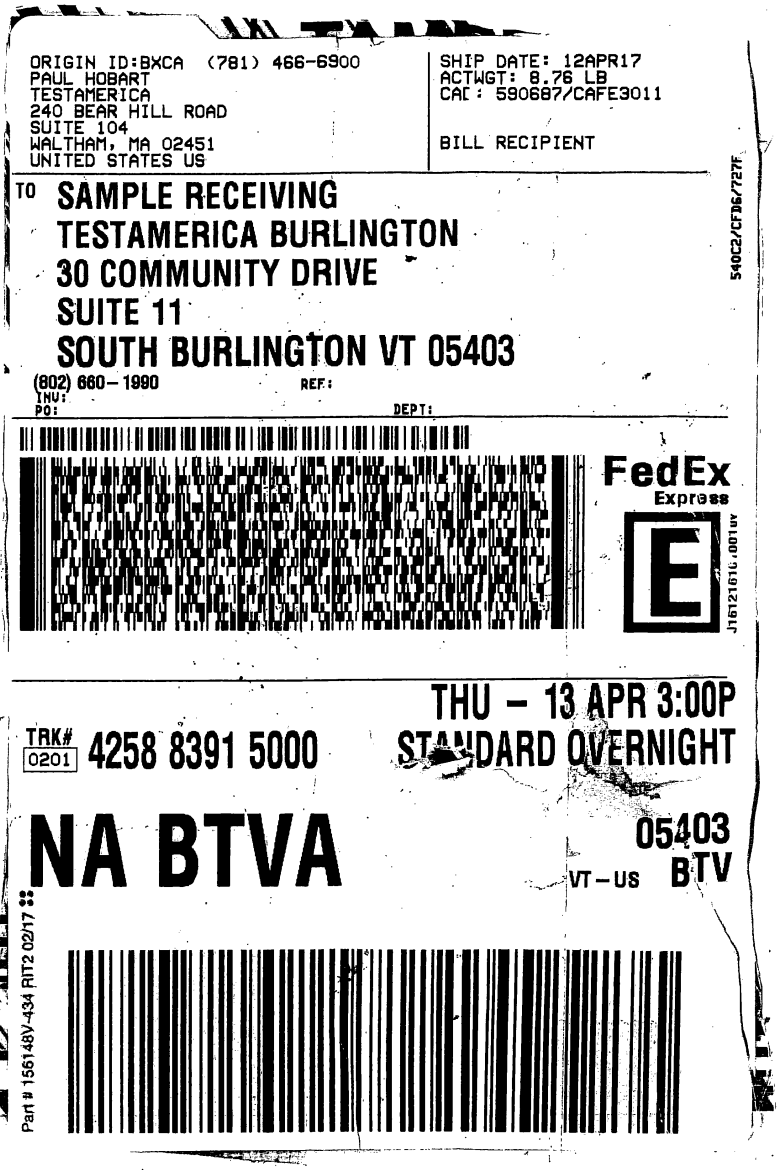
	Date/Time:	Company		Date/Time:	Company
Relinquished by:	4/12/17 1223	IESI	Received by:	4-12-17	Bat
Relinquished by:	4/12/17 1600		Received by:	4/13/17 1035	TA Burl.
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.: NO #S

Cooler Temperature(s) °C and Other Remarks:

WI-QA-010 rev 8

Revised 10/29/2014
TAL-8245-360R



ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

SHIP DATE: 12APR17
ACTWGT: 8.76 LB
CAD: 590687/CAFE3011

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
INV:
PO:
REF:
DEPT:

FedEx Express

THU - 13 APR 3:00P
STANDARD OVERNIGHT

TRK# 0201 4258 8391 5000

NA BTVA

05403
VT-US BTV

Part # 156148V-434 RIT2 02/17