

**Environmental  
Resources  
Management**

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<http://www.erm.com>



23 May 2014

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

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

Dear Mr. DeLuca:

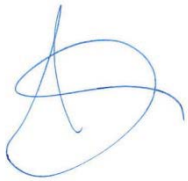
On behalf of Raytheon Company (Raytheon), Environmental Resources Management (ERM) is submitting the results of groundwater sample analyses related to the Former Raytheon Facility located at 430 Boston Post Road in Wayland, Massachusetts (Site). These results are submitted pursuant to 310 CMR 40.1403(10)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

Innovative Engineering Solutions, Inc. collected 19 groundwater samples from wells on portions of the Site within the boundaries of your property from 5 April 2014 to 8 April 2014. ERM collected 29 groundwater samples from wells on portions of the Site within the boundaries of your property from 10 April 2014 through 14 April 2014. Samples were submitted to TestAmerica Laboratories, Inc. of Westfield, Massachusetts, the Spectrum Analytical, Inc. of North Kingstown, RI. Analytical results are attached to this letter. These analytical data from the groundwater monitoring wells will be provided to the Massachusetts Department of Environmental Protection in the next MCP submittal.

Raytheon has implemented the Public Involvement Process in accordance with 310 CMR 40.1405. Documents pertaining to the Site can be found at the Board of Health 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,

A handwritten signature in blue ink, appearing to be 'John C. Drobinski', written in a cursive style.

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

A handwritten signature in blue ink, appearing to be 'Lyndsey Colburn', written in a cursive style.

Lyndsey Colburn, P.G.  
*Project Manager*

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

cc: Jonathan Hone, Raytheon Company  
Ben Gould, CMG Environmental  
PIP Repositories



**NOTICE OF ENVIRONMENTAL SAMPLING**

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

**BWSC 123**

This Notice is Related to Release Tracking Number

3 13302

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

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

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

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

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

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

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

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

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

- 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-Class C 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) to the extent known at the time of this notice.

Collection of groundwater samples on the property.

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

Contact Name: Louis J. Burkhardt  
50 Apple Hill Drive  
Street Address: \_\_\_\_\_  
Tewksbury 01876  
City/Town: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
978-858-1885  
Telephone: \_\_\_\_\_ Email: louis\_j\_burkhardt@raytheon.com

## **NOTICE OF ENVIRONMENTAL SAMPLING**

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

### MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

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

### THE PERSON(S) PROVIDING THIS NOTICE

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

### PURPOSE OF THIS NOTICE

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

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

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

### FOR MORE INFORMATION

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

# 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: 480-57495-1  
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:  
5/6/2014 10:32:22 AM

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

All samples were collected from the Koffler Group property except for DEP-19M, DEP-21, MW-263M, and MW-264M. Those four samples were grayed out for ease of review.

*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?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

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# Definitions/Glossary

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

TestAmerica Job ID: 480-57495-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits
*	RPD of the LCS and LCSD exceeds the control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
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)

# Case Narrative

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

TestAmerica Job ID: 480-57495-1

## Job ID: 480-57495-1

### Laboratory: TestAmerica Buffalo

#### Narrative

Revision: Per client request correct ID for 480-57495-7, the COC was incorrect. This replaces final report data 4/16/14.

#### Receipt

The samples were received on 4/9/2014 at 1:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.1° C and 2.3° C.

#### GC/MS VOA

Method 8260: 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-Butyl Ethyl Ether, tert-Amyl Methyl Ether and Tetrahydrofuran.

Method 8260: Due to the dilutions required, per question G on the MassDEP Analytical Protocol Certification Form, the CAM reporting limits specified in this CAM protocol could not be achieved for some or all samples/analytes.

Method 8260B SIM: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: DupX3-20140408-01 (480-57495-36), MW-261S-20140408-01 (480-57495-3), MW-265M-20140408-01 (480-57495-7), MW-267M-20140405-01 (480-57495-12), MW-267S-20140405-01 (480-57495-11) and MW-552-20140407-01 (480-57495-18). Elevated reporting limits (RLs) are provided.

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batches 174684 and 175485 exceeded control limits for the following analyte: Tetrahydrofuran. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-261S-20140408-01 (480-57495-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batches 175074, 175163 and 174949 exceeded control limits for the following analytes: 2-Hexanone. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%.

Method 8260C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 175074 recovered outside control limits for the following analytes: 1,4-Dioxane.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 175074 were outside control limits.

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (480-57495-17 MS), (480-57495-17 MSD), DupX2-20140406-01 (480-57495-35), MW-551-20140408-01 (480-57495-17), MW-560-20140407-01 (480-57495-20), MW-561-20140407-01 (480-57495-21), MW-562-20140407-01 (480-57495-22), REW-1-20140406-01 (480-57495-24), (480-57495-33 MS), (480-57495-33 MSD), MW-562-20140407-01 (480-57495-22), MW-563-20140407-01 (480-57495-23), REW-11-20140406-01 (480-57495-32), REW-12-20140406-01 (480-57495-33), REW-6-20140406-01 (480-57495-27), REW-7-20140406-01 (480-57495-28), MW-263M-20140408-01 (480-57495-7), MW-267S-20140405-01 (480-57495-11), MW-268M-20140407 (480-57495-14) and DupX3-20140408-01 (480-57495-36). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted due to the abundance of non-target analytes: MW-267M-20140405-01 (480-57495-12). Elevated reporting limits (RLs) are provided.

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 174949 exceeded control limits for the following analyte: 2-Butanone. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate 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.

Method 8260C: The method blank for batch 175163 contained Carbon Disulfide above the method detection limit. This target analyte concentration was less than the reporting limit (RL) so re-analysis of the associated samples was not performed.



## Case Narrative

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

TestAmerica Job ID: 480-57495-1

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### Job ID: 480-57495-1 (Continued)

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#### Laboratory: TestAmerica Buffalo (Continued)

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 175163 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260C: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for batch 175163 was outside control limits. Sample matrix interference was suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

No other analytical or quality issues were noted.

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## MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-57495**

Project Location: **IDS Wayland** RTN:

**This form provides certifications for the data set for the following Laboratory Sample ID Number(s):**  
**480-57495 [1-36]**

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

### CAM Protocols (check all that apply below):

8260 VOC CAM II A <input checked="" type="checkbox"/>	7470/7471 Hg CAM III B <input type="checkbox"/>	Mass DEP VPH CAM IV A <input type="checkbox"/>	8081 Pesticides CAM V B <input type="checkbox"/>	7196 Hex Cr CAM VI B <input type="checkbox"/>	Mass DEP APH CAM IX A <input type="checkbox"/>
8270 SVOC CAM II B <input type="checkbox"/>	7010 Metals CAM III C <input type="checkbox"/>	Mass DEP EPH CAM IV B <input type="checkbox"/>	8151 Herbicides CAM V C <input type="checkbox"/>	8330 Explosives CAM VIII A <input type="checkbox"/>	TO-15 VOC CAM IX B <input type="checkbox"/>
6010 Metals CAM III A <input type="checkbox"/>	6020 Metals CAM III D <input type="checkbox"/>	8082 PCB CAM V A <input type="checkbox"/>	9012 / 9014/ 4500CN Total Cyanide/PAC CAM VI A <input type="checkbox"/>	6860 Perchlorate CAM VIII B <input type="checkbox"/>	

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

<b>A</b>	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.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>B</b>	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>C</b>	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>D</b>	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"?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>E</b>	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?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>F</b>	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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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


<b>G</b>	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <sup>1</sup>
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**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**

<b>H</b>	Were all QC performance standards specified in the CAM protocol(s) achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <sup>1</sup>
<b>I</b>	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <sup>1</sup>

<sup>1</sup> 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:  Position: Technical Director, TestAmerica Westfield

Printed Name: Richard Emerich Date: 4/15/14 15:29

This form has been electronically signed and approved.

# Detection Summary

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

TestAmerica Job ID: 480-57495-1

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## Client Sample ID: MW-261S-20140408-01

## Lab Sample ID: 480-57495-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11000		2500		ug/L	50		8260C	Total/NA

## Client Sample ID: MW-265S-20140408-01

## Lab Sample ID: 480-57495-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	2.7		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-265M-20140408-01

## Lab Sample ID: 480-57495-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	230		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	49		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.8		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	5.6		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.7		1.0		ug/L	1		8260C	Total/NA
Tetrahydrofuran	50 *		10		ug/L	1		8260C	Total/NA
Toluene	6.2		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.9		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	15		1.0		ug/L	1		8260C	Total/NA
Acetone - DL	2200		250		ug/L	5		8260C	Total/NA

## Client Sample ID: MW-265D-20140408-01

## Lab Sample ID: 480-57495-8

No Detections.

## Client Sample ID: MW-266Ma-20140405-01

## Lab Sample ID: 480-57495-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.5		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.6		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Detection Summary

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

TestAmerica Job ID: 480-57495-1

## Client Sample ID: MW-266Mb-20140405-01

## Lab Sample ID: 480-57495-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	60		1.0		ug/L	1		8260C	Total/NA
Tetrachloroethene	11		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	39		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	49		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-267S-20140405-01

## Lab Sample ID: 480-57495-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	210	*	50		ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	360		5.0		ug/L	5		8260C	Total/NA
Toluene	410		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	16		5.0		ug/L	5		8260C	Total/NA

## Client Sample ID: MW-267M-20140405-01

## Lab Sample ID: 480-57495-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	180	*	100		ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	380		10		ug/L	10		8260C	Total/NA
Toluene	87		10		ug/L	10		8260C	Total/NA
Vinyl chloride	31		10		ug/L	10		8260C	Total/NA

## Client Sample ID: MW-268S-20140407

## Lab Sample ID: 480-57495-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	11		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	11		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-268M-20140407

## Lab Sample ID: 480-57495-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	25		1.6		ug/L	1		8260B SIM	Total/NA
cis-1,2-Dichloroethene	3100		40		ug/L	40		8260C	Total/NA
Trichloroethene	1200		40		ug/L	40		8260C	Total/NA
Vinyl chloride	180		40		ug/L	40		8260C	Total/NA

## Client Sample ID: MW-268D-20140405

## Lab Sample ID: 480-57495-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8.5		1.0		ug/L	1		8260C	Total/NA
Toluene	2.0		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.2		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	2.6		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-269Ma-20140405

## Lab Sample ID: 480-57495-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.9		1.6		ug/L	1		8260B SIM	Total/NA
cis-1,2-Dichloroethene	3.2		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	2.2		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Detection Summary

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

TestAmerica Job ID: 480-57495-1

## Client Sample ID: MW-551-20140408-01

Lab Sample ID: 480-57495-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15000		2000		ug/L	40		8260C	Total/NA

## Client Sample ID: MW-552-20140407-01

Lab Sample ID: 480-57495-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	120		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.6		1.0		ug/L	1		8260C	Total/NA
Toluene	2.4		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	2.8		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	4.6		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-553-20140407-01

Lab Sample ID: 480-57495-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	160		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	22		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.6		2.0		ug/L	1		8260C	Total/NA
Tetrahydrofuran	10		10		ug/L	1		8260C	Total/NA
Toluene	3.9		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.8		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	28		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-560-20140407-01

Lab Sample ID: 480-57495-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	210	*	10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	48		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.8		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	6.9		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.7		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	42		1.0		ug/L	1		8260C	Total/NA
Toluene - DL	200		4.0		ug/L	4		8260C	Total/NA

## Client Sample ID: MW-561-20140407-01

Lab Sample ID: 480-57495-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	21		20		ug/L	10		8260C	Total/NA
Toluene	600		10		ug/L	10		8260C	Total/NA
Vinyl chloride	84		10		ug/L	10		8260C	Total/NA

## Client Sample ID: MW-562-20140407-01

Lab Sample ID: 480-57495-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	150		20		ug/L	2		8260C	Total/NA
Ethylbenzene	6.6		2.0		ug/L	2		8260C	Total/NA
m-Xylene & p-Xylene	23		4.0		ug/L	2		8260C	Total/NA
o-Xylene	7.2		2.0		ug/L	2		8260C	Total/NA
Toluene	46		2.0		ug/L	2		8260C	Total/NA
Acetone - DL	910		200		ug/L	4		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Detection Summary

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

TestAmerica Job ID: 480-57495-1

## Client Sample ID: MW-563-20140407-01

Lab Sample ID: 480-57495-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	150		40		ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	190		4.0		ug/L	4		8260C	Total/NA
m-Xylene & p-Xylene	11		8.0		ug/L	4		8260C	Total/NA
Toluene	37		4.0		ug/L	4		8260C	Total/NA
Vinyl chloride	90		4.0		ug/L	4		8260C	Total/NA

## Client Sample ID: REW-1-20140406-01

Lab Sample ID: 480-57495-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1500		250		ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	6.0		5.0		ug/L	5		8260C	Total/NA

## Client Sample ID: REW-4-20140406-01

Lab Sample ID: 480-57495-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.6		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	4.0		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: REW-5-20140406-01

Lab Sample ID: 480-57495-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	62		1.0		ug/L	1		8260C	Total/NA
Toluene	3.2		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	5.4		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	3.8		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: REW-6-20140406-01

Lab Sample ID: 480-57495-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	370		5.0		ug/L	5		8260C	Total/NA
Toluene	170		5.0		ug/L	5		8260C	Total/NA
Trichloroethene	50		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	19		5.0		ug/L	5		8260C	Total/NA

## Client Sample ID: REW-7-20140406-01

Lab Sample ID: 480-57495-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	660		10		ug/L	10		8260C	Total/NA
Toluene	12		10		ug/L	10		8260C	Total/NA
Trichloroethene	65		10		ug/L	10		8260C	Total/NA
Vinyl chloride	99		10		ug/L	10		8260C	Total/NA

## Client Sample ID: REW-8-20140406-01

Lab Sample ID: 480-57495-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	75		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	27		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.4		2.0		ug/L	1		8260C	Total/NA
Toluene	36		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	36		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Detection Summary

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

TestAmerica Job ID: 480-57495-1

## Client Sample ID: REW-9-20140406-01

Lab Sample ID: 480-57495-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	54		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	80		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.3		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	4.8		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.1		1.0		ug/L	1		8260C	Total/NA
Toluene	84		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	26		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: REW-10-20140406-01

Lab Sample ID: 480-57495-31

No Detections.

## Client Sample ID: REW-11-20140406-01

Lab Sample ID: 480-57495-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1800		25		ug/L	25		8260C	Total/NA
Trichloroethene	460		25		ug/L	25		8260C	Total/NA
Vinyl chloride	120		25		ug/L	25		8260C	Total/NA

## Client Sample ID: REW-12-20140406-01

Lab Sample ID: 480-57495-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	310		4.0		ug/L	4		8260C	Total/NA
Toluene	28		4.0		ug/L	4		8260C	Total/NA
Trichloroethene	50		4.0		ug/L	4		8260C	Total/NA
Vinyl chloride	55		4.0		ug/L	4		8260C	Total/NA

## Client Sample ID: DupX1-20140405-01

Lab Sample ID: 480-57495-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	58		1.0		ug/L	1		8260C	Total/NA
Tetrachloroethene	10		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	37		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	43		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: DupX2-20140406-01

Lab Sample ID: 480-57495-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	5.5		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	2.5		1.0		ug/L	1		8260C	Total/NA
Benzene	1.5		1.0		ug/L	1		8260C	Total/NA
o-Xylene	1.1		1.0		ug/L	1		8260C	Total/NA
Tetrachloroethene	16		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	3.3		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	1500		25		ug/L	25		8260C	Total/NA
Trichloroethene - DL	390		25		ug/L	25		8260C	Total/NA
Vinyl chloride - DL	97		25		ug/L	25		8260C	Total/NA

## Client Sample ID: DupX3-20140408-01

Lab Sample ID: 480-57495-36

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Detection Summary

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

TestAmerica Job ID: 480-57495-1

## Client Sample ID: DupX3-20140408-01 (Continued)

Lab Sample ID: 480-57495-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	160		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	7.3		1.0		ug/L	1		8260C	Total/NA
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	2.1		1.0		ug/L	1		8260C	Total/NA
Tetrahydrofuran	18		10		ug/L	1		8260C	Total/NA
Toluene	20		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	2.6		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	2.2		1.0		ug/L	1		8260C	Total/NA
Acetone - DL	14000		2000		ug/L	40		8260C	Total/NA

## Client Sample ID: Trip Blanks

Lab Sample ID: 480-57495-37

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo



# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

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TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

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TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1



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# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

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**Client Sample ID: MW-261S-20140408-01**

**Lab Sample ID: 480-57495-3**

**Date Collected: 04/08/14 07:20**

**Matrix: Water**

**Date Received: 04/09/14 01:30**

**Method: 8260B SIM - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.2		ug/L			04/11/14 23:36	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	144		50 - 150					04/11/14 23:36	2
Dibromofluoromethane (Surr)	85		50 - 150					04/11/14 23:36	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		50		ug/L			04/09/14 18:14	50
1,1,1-Trichloroethane	ND		50		ug/L			04/09/14 18:14	50
1,1,2,2-Tetrachloroethane	ND		25		ug/L			04/09/14 18:14	50
1,1,2-Trichloroethane	ND		50		ug/L			04/09/14 18:14	50
1,1-Dichloroethane	ND		50		ug/L			04/09/14 18:14	50
1,1-Dichloroethene	ND		50		ug/L			04/09/14 18:14	50
1,1-Dichloropropene	ND		50		ug/L			04/09/14 18:14	50
1,2,3-Trichlorobenzene	ND		50		ug/L			04/09/14 18:14	50
1,2,3-Trichloropropane	ND		50		ug/L			04/09/14 18:14	50
1,2,4-Trichlorobenzene	ND		50		ug/L			04/09/14 18:14	50
1,2,4-Trimethylbenzene	ND		50		ug/L			04/09/14 18:14	50
1,2-Dibromo-3-Chloropropane	ND		250		ug/L			04/09/14 18:14	50
1,2-Dichlorobenzene	ND		50		ug/L			04/09/14 18:14	50
1,2-Dichloroethane	ND		50		ug/L			04/09/14 18:14	50
1,2-Dichloropropane	ND		50		ug/L			04/09/14 18:14	50
1,3,5-Trimethylbenzene	ND		50		ug/L			04/09/14 18:14	50
1,3-Dichlorobenzene	ND		50		ug/L			04/09/14 18:14	50
1,3-Dichloropropane	ND		50		ug/L			04/09/14 18:14	50
1,4-Dichlorobenzene	ND		50		ug/L			04/09/14 18:14	50
1,4-Dioxane	ND		2500		ug/L			04/09/14 18:14	50
2,2-Dichloropropane	ND		50		ug/L			04/09/14 18:14	50
2-Butanone (MEK)	ND		500		ug/L			04/09/14 18:14	50
2-Chlorotoluene	ND		50		ug/L			04/09/14 18:14	50
2-Hexanone	ND		500		ug/L			04/09/14 18:14	50

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-261S-20140408-01**

**Lab Sample ID: 480-57495-3**

Date Collected: 04/08/14 07:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		50		ug/L			04/09/14 18:14	50
4-Isopropyltoluene	ND		50		ug/L			04/09/14 18:14	50
4-Methyl-2-pentanone (MIBK)	ND		500		ug/L			04/09/14 18:14	50
<b>Acetone</b>	<b>11000</b>		2500		ug/L			04/09/14 18:14	50
Benzene	ND		50		ug/L			04/09/14 18:14	50
Bromobenzene	ND		50		ug/L			04/09/14 18:14	50
Bromoform	ND		50		ug/L			04/09/14 18:14	50
Bromomethane	ND		100		ug/L			04/09/14 18:14	50
Carbon disulfide	ND		500		ug/L			04/09/14 18:14	50
Carbon tetrachloride	ND		50		ug/L			04/09/14 18:14	50
Chlorobenzene	ND		50		ug/L			04/09/14 18:14	50
Chlorobromomethane	ND		50		ug/L			04/09/14 18:14	50
Chlorodibromomethane	ND		25		ug/L			04/09/14 18:14	50
Chloroethane	ND		100		ug/L			04/09/14 18:14	50
Chloroform	ND		50		ug/L			04/09/14 18:14	50
Chloromethane	ND		100		ug/L			04/09/14 18:14	50
cis-1,2-Dichloroethene	ND		50		ug/L			04/09/14 18:14	50
cis-1,3-Dichloropropene	ND		20		ug/L			04/09/14 18:14	50
Dichlorobromomethane	ND		25		ug/L			04/09/14 18:14	50
Dichlorodifluoromethane	ND		50		ug/L			04/09/14 18:14	50
Ethyl ether	ND		50		ug/L			04/09/14 18:14	50
Ethylbenzene	ND		50		ug/L			04/09/14 18:14	50
Ethylene Dibromide	ND		50		ug/L			04/09/14 18:14	50
Hexachlorobutadiene	ND		20		ug/L			04/09/14 18:14	50
Isopropyl ether	ND		500		ug/L			04/09/14 18:14	50
Isopropylbenzene	ND		50		ug/L			04/09/14 18:14	50
Methyl tert-butyl ether	ND		50		ug/L			04/09/14 18:14	50
Methylene Chloride	ND		50		ug/L			04/09/14 18:14	50
m-Xylene & p-Xylene	ND		100		ug/L			04/09/14 18:14	50
Naphthalene	ND		250		ug/L			04/09/14 18:14	50
n-Butylbenzene	ND		50		ug/L			04/09/14 18:14	50
N-Propylbenzene	ND		50		ug/L			04/09/14 18:14	50
o-Xylene	ND		50		ug/L			04/09/14 18:14	50
sec-Butylbenzene	ND		50		ug/L			04/09/14 18:14	50
Styrene	ND		50		ug/L			04/09/14 18:14	50
Tert-amyl methyl ether	ND		250		ug/L			04/09/14 18:14	50
Tert-butyl ethyl ether	ND		250		ug/L			04/09/14 18:14	50
tert-Butylbenzene	ND		50		ug/L			04/09/14 18:14	50
Tetrachloroethene	ND		50		ug/L			04/09/14 18:14	50
Tetrahydrofuran	ND *		500		ug/L			04/09/14 18:14	50
Toluene	ND		50		ug/L			04/09/14 18:14	50
trans-1,2-Dichloroethene	ND		50		ug/L			04/09/14 18:14	50
trans-1,3-Dichloropropene	ND		20		ug/L			04/09/14 18:14	50
Trichloroethene	ND		50		ug/L			04/09/14 18:14	50
Trichlorofluoromethane	ND		50		ug/L			04/09/14 18:14	50
Vinyl chloride	ND		50		ug/L			04/09/14 18:14	50
Dibromomethane	ND		50		ug/L			04/09/14 18:14	50
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	101		70 - 130					04/09/14 18:14	50

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-261S-20140408-01**

**Lab Sample ID: 480-57495-3**

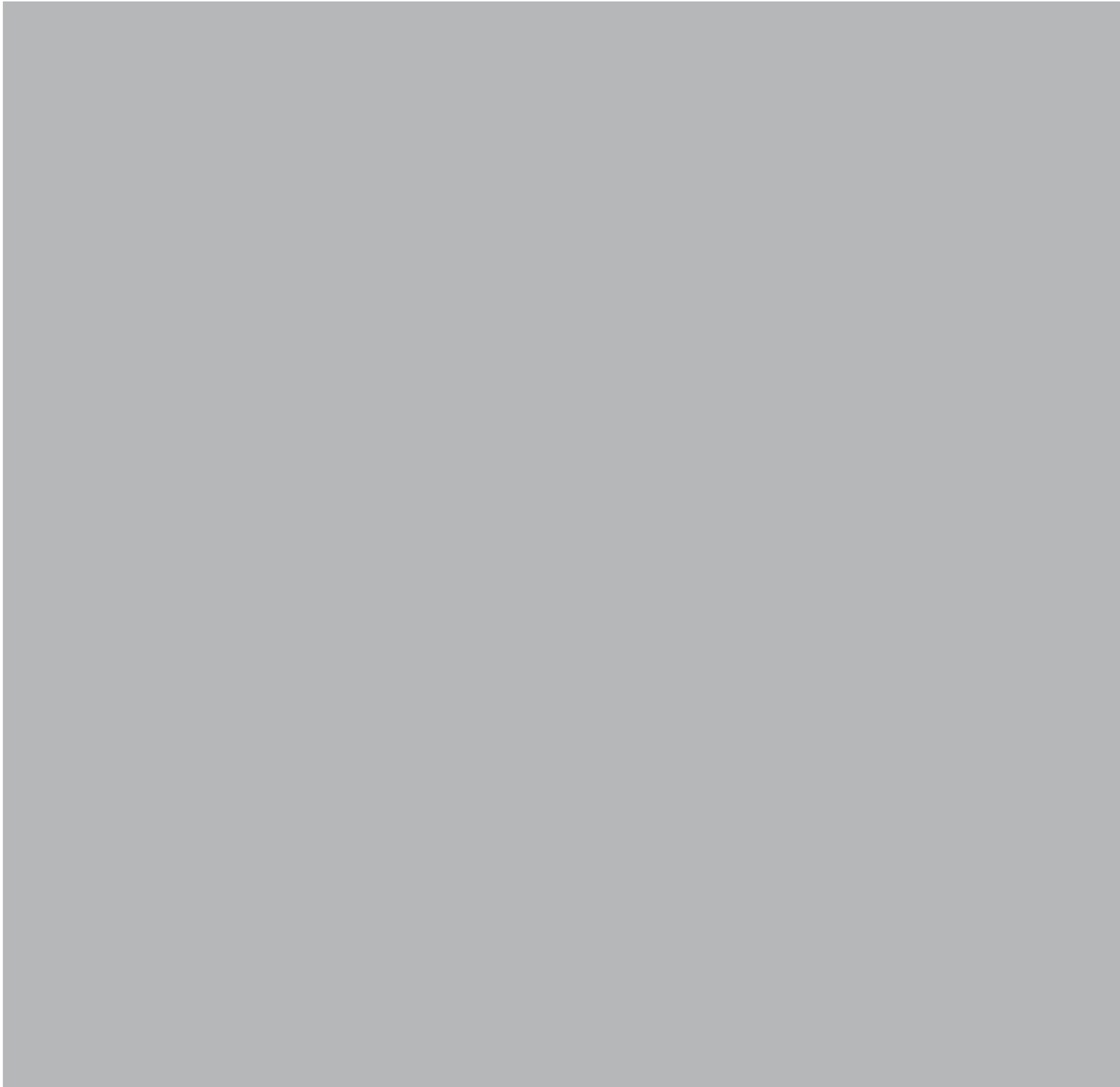
**Date Collected: 04/08/14 07:20**

**Matrix: Water**

**Date Received: 04/09/14 01:30**

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		04/09/14 18:14	50
4-Bromofluorobenzene (Surr)	97		70 - 130		04/09/14 18:14	50



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# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

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# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

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# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

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**Client Sample ID: MW-265S-20140408-01**

**Lab Sample ID: 480-57495-6**

**Date Collected: 04/08/14 09:25**

**Matrix: Water**

**Date Received: 04/09/14 01:30**

**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			04/09/14 19:25	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/09/14 19:25	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/09/14 19:25	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/09/14 19:25	1
1,1-Dichloroethane	ND		1.0		ug/L			04/09/14 19:25	1
1,1-Dichloroethene	ND		1.0		ug/L			04/09/14 19:25	1
1,1-Dichloropropene	ND		1.0		ug/L			04/09/14 19:25	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/09/14 19:25	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/09/14 19:25	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/09/14 19:25	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/09/14 19:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/09/14 19:25	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/09/14 19:25	1
1,2-Dichloroethane	ND		1.0		ug/L			04/09/14 19:25	1
1,2-Dichloropropane	ND		1.0		ug/L			04/09/14 19:25	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/09/14 19:25	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/09/14 19:25	1
1,3-Dichloropropane	ND		1.0		ug/L			04/09/14 19:25	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/09/14 19:25	1
1,4-Dioxane	ND		50		ug/L			04/09/14 19:25	1
2,2-Dichloropropane	ND		1.0		ug/L			04/09/14 19:25	1
2-Butanone (MEK)	ND		10		ug/L			04/09/14 19:25	1
2-Chlorotoluene	ND		1.0		ug/L			04/09/14 19:25	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-265S-20140408-01**

**Lab Sample ID: 480-57495-6**

**Date Collected: 04/08/14 09:25**

**Matrix: Water**

**Date Received: 04/09/14 01:30**

**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			04/09/14 19:25	1
4-Chlorotoluene	ND		1.0		ug/L			04/09/14 19:25	1
4-Isopropyltoluene	ND		1.0		ug/L			04/09/14 19:25	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/09/14 19:25	1
Acetone	ND		50		ug/L			04/09/14 19:25	1
Benzene	ND		1.0		ug/L			04/09/14 19:25	1
Bromobenzene	ND		1.0		ug/L			04/09/14 19:25	1
Bromoform	ND		1.0		ug/L			04/09/14 19:25	1
Bromomethane	ND		2.0		ug/L			04/09/14 19:25	1
Carbon disulfide	ND		10		ug/L			04/09/14 19:25	1
Carbon tetrachloride	ND		1.0		ug/L			04/09/14 19:25	1
Chlorobenzene	ND		1.0		ug/L			04/09/14 19:25	1
Chlorobromomethane	ND		1.0		ug/L			04/09/14 19:25	1
Chlorodibromomethane	ND		0.50		ug/L			04/09/14 19:25	1
Chloroethane	ND		2.0		ug/L			04/09/14 19:25	1
Chloroform	ND		1.0		ug/L			04/09/14 19:25	1
Chloromethane	ND		2.0		ug/L			04/09/14 19:25	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/09/14 19:25	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 19:25	1
Dichlorobromomethane	ND		0.50		ug/L			04/09/14 19:25	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/09/14 19:25	1
Ethyl ether	ND		1.0		ug/L			04/09/14 19:25	1
Ethylbenzene	ND		1.0		ug/L			04/09/14 19:25	1
Ethylene Dibromide	ND		1.0		ug/L			04/09/14 19:25	1
Hexachlorobutadiene	ND		0.40		ug/L			04/09/14 19:25	1
Isopropyl ether	ND		10		ug/L			04/09/14 19:25	1
Isopropylbenzene	ND		1.0		ug/L			04/09/14 19:25	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/09/14 19:25	1
Methylene Chloride	ND		1.0		ug/L			04/09/14 19:25	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/09/14 19:25	1
Naphthalene	ND		5.0		ug/L			04/09/14 19:25	1
n-Butylbenzene	ND		1.0		ug/L			04/09/14 19:25	1
N-Propylbenzene	ND		1.0		ug/L			04/09/14 19:25	1
o-Xylene	ND		1.0		ug/L			04/09/14 19:25	1
sec-Butylbenzene	ND		1.0		ug/L			04/09/14 19:25	1
Styrene	ND		1.0		ug/L			04/09/14 19:25	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/09/14 19:25	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/09/14 19:25	1
tert-Butylbenzene	ND		1.0		ug/L			04/09/14 19:25	1
Tetrachloroethene	ND		1.0		ug/L			04/09/14 19:25	1
Tetrahydrofuran	ND *		10		ug/L			04/09/14 19:25	1
Toluene	ND		1.0		ug/L			04/09/14 19:25	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/09/14 19:25	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 19:25	1
Trichloroethene	ND		1.0		ug/L			04/09/14 19:25	1
Trichlorofluoromethane	ND		1.0		ug/L			04/09/14 19:25	1
<b>Vinyl chloride</b>	<b>2.7</b>		1.0		ug/L			04/09/14 19:25	1
Dibromomethane	ND		1.0		ug/L			04/09/14 19:25	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-265S-20140408-01**

**Lab Sample ID: 480-57495-6**

Date Collected: 04/08/14 09:25

Matrix: Water

Date Received: 04/09/14 01:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/09/14 19:25	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		04/09/14 19:25	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/09/14 19:25	1

**Client Sample ID: MW-265M-20140408-01**

**Lab Sample ID: 480-57495-7**

Date Collected: 04/08/14 08:45

Matrix: Water

Date Received: 04/09/14 01:30

**Method: 8260B SIM - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.2		ug/L			04/12/14 00:00	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	136		50 - 150		04/12/14 00:00	2
Dibromofluoromethane (Surr)	86		50 - 150		04/12/14 00:00	2

**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			04/09/14 19:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/09/14 19:49	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/09/14 19:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/09/14 19:49	1
1,1-Dichloroethane	ND		1.0		ug/L			04/09/14 19:49	1
1,1-Dichloroethene	ND		1.0		ug/L			04/09/14 19:49	1
1,1-Dichloropropene	ND		1.0		ug/L			04/09/14 19:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/09/14 19:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/09/14 19:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/09/14 19:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/09/14 19:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/09/14 19:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/09/14 19:49	1
1,2-Dichloroethane	ND		1.0		ug/L			04/09/14 19:49	1
1,2-Dichloropropane	ND		1.0		ug/L			04/09/14 19:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/09/14 19:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/09/14 19:49	1
1,3-Dichloropropane	ND		1.0		ug/L			04/09/14 19:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/09/14 19:49	1
1,4-Dioxane	ND		50		ug/L			04/09/14 19:49	1
2,2-Dichloropropane	ND		1.0		ug/L			04/09/14 19:49	1
<b>2-Butanone (MEK)</b>	<b>230</b>		10		ug/L			04/09/14 19:49	1
2-Chlorotoluene	ND		1.0		ug/L			04/09/14 19:49	1
2-Hexanone	ND		10		ug/L			04/09/14 19:49	1
4-Chlorotoluene	ND		1.0		ug/L			04/09/14 19:49	1
4-Isopropyltoluene	ND		1.0		ug/L			04/09/14 19:49	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/09/14 19:49	1
Benzene	ND		1.0		ug/L			04/09/14 19:49	1
Bromobenzene	ND		1.0		ug/L			04/09/14 19:49	1
Bromoform	ND		1.0		ug/L			04/09/14 19:49	1
Bromomethane	ND		2.0		ug/L			04/09/14 19:49	1
Carbon disulfide	ND		10		ug/L			04/09/14 19:49	1
Carbon tetrachloride	ND		1.0		ug/L			04/09/14 19:49	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-265M-20140408-01**

**Lab Sample ID: 480-57495-7**

Date Collected: 04/08/14 08:45

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0		ug/L			04/09/14 19:49	1
Chlorobromomethane	ND		1.0		ug/L			04/09/14 19:49	1
Chlorodibromomethane	ND		0.50		ug/L			04/09/14 19:49	1
Chloroethane	ND		2.0		ug/L			04/09/14 19:49	1
Chloroform	ND		1.0		ug/L			04/09/14 19:49	1
Chloromethane	ND		2.0		ug/L			04/09/14 19:49	1
<b>cis-1,2-Dichloroethene</b>	<b>49</b>		1.0		ug/L			04/09/14 19:49	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 19:49	1
Dichlorobromomethane	ND		0.50		ug/L			04/09/14 19:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/09/14 19:49	1
Ethyl ether	ND		1.0		ug/L			04/09/14 19:49	1
<b>Ethylbenzene</b>	<b>1.8</b>		1.0		ug/L			04/09/14 19:49	1
Ethylene Dibromide	ND		1.0		ug/L			04/09/14 19:49	1
Hexachlorobutadiene	ND		0.40		ug/L			04/09/14 19:49	1
Isopropyl ether	ND		10		ug/L			04/09/14 19:49	1
Isopropylbenzene	ND		1.0		ug/L			04/09/14 19:49	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/09/14 19:49	1
Methylene Chloride	ND		1.0		ug/L			04/09/14 19:49	1
<b>m-Xylene &amp; p-Xylene</b>	<b>5.6</b>		2.0		ug/L			04/09/14 19:49	1
Naphthalene	ND		5.0		ug/L			04/09/14 19:49	1
n-Butylbenzene	ND		1.0		ug/L			04/09/14 19:49	1
N-Propylbenzene	ND		1.0		ug/L			04/09/14 19:49	1
<b>o-Xylene</b>	<b>1.7</b>		1.0		ug/L			04/09/14 19:49	1
sec-Butylbenzene	ND		1.0		ug/L			04/09/14 19:49	1
Styrene	ND		1.0		ug/L			04/09/14 19:49	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/09/14 19:49	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/09/14 19:49	1
tert-Butylbenzene	ND		1.0		ug/L			04/09/14 19:49	1
Tetrachloroethene	ND		1.0		ug/L			04/09/14 19:49	1
<b>Tetrahydrofuran</b>	<b>50 *</b>		10		ug/L			04/09/14 19:49	1
<b>Toluene</b>	<b>6.2</b>		1.0		ug/L			04/09/14 19:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/09/14 19:49	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 19:49	1
<b>Trichloroethene</b>	<b>1.9</b>		1.0		ug/L			04/09/14 19:49	1
Trichlorofluoromethane	ND		1.0		ug/L			04/09/14 19:49	1
<b>Vinyl chloride</b>	<b>15</b>		1.0		ug/L			04/09/14 19:49	1
Dibromomethane	ND		1.0		ug/L			04/09/14 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/09/14 19:49	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		04/09/14 19:49	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/09/14 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>2200</b>		250		ug/L			04/10/14 15:48	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/10/14 15:48	5
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		04/10/14 15:48	5

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-265M-20140408-01**

**Lab Sample ID: 480-57495-7**

Date Collected: 04/08/14 08:45

Matrix: Water

Date Received: 04/09/14 01:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130		04/10/14 15:48	5

**Client Sample ID: MW-265D-20140408-01**

**Lab Sample ID: 480-57495-8**

Date Collected: 04/08/14 08:15

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/10/14 16:14	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/10/14 16:14	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/10/14 16:14	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/10/14 16:14	1
1,1-Dichloroethane	ND		1.0		ug/L			04/10/14 16:14	1
1,1-Dichloroethene	ND		1.0		ug/L			04/10/14 16:14	1
1,1-Dichloropropene	ND		1.0		ug/L			04/10/14 16:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/10/14 16:14	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/10/14 16:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/10/14 16:14	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/10/14 16:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/10/14 16:14	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/10/14 16:14	1
1,2-Dichloroethane	ND		1.0		ug/L			04/10/14 16:14	1
1,2-Dichloropropane	ND		1.0		ug/L			04/10/14 16:14	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/10/14 16:14	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/10/14 16:14	1
1,3-Dichloropropane	ND		1.0		ug/L			04/10/14 16:14	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/10/14 16:14	1
1,4-Dioxane	ND		50		ug/L			04/10/14 16:14	1
2,2-Dichloropropane	ND		1.0		ug/L			04/10/14 16:14	1
2-Butanone (MEK)	ND	*	10		ug/L			04/10/14 16:14	1
2-Chlorotoluene	ND		1.0		ug/L			04/10/14 16:14	1
2-Hexanone	ND	*	10		ug/L			04/10/14 16:14	1
4-Chlorotoluene	ND		1.0		ug/L			04/10/14 16:14	1
4-Isopropyltoluene	ND		1.0		ug/L			04/10/14 16:14	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/10/14 16:14	1
Acetone	ND		50		ug/L			04/10/14 16:14	1
Benzene	ND		1.0		ug/L			04/10/14 16:14	1
Bromobenzene	ND		1.0		ug/L			04/10/14 16:14	1
Bromoform	ND		1.0		ug/L			04/10/14 16:14	1
Bromomethane	ND		2.0		ug/L			04/10/14 16:14	1
Carbon disulfide	ND		10		ug/L			04/10/14 16:14	1
Carbon tetrachloride	ND		1.0		ug/L			04/10/14 16:14	1
Chlorobenzene	ND		1.0		ug/L			04/10/14 16:14	1
Chlorobromomethane	ND		1.0		ug/L			04/10/14 16:14	1
Chlorodibromomethane	ND		0.50		ug/L			04/10/14 16:14	1
Chloroethane	ND		2.0		ug/L			04/10/14 16:14	1
Chloroform	ND		1.0		ug/L			04/10/14 16:14	1
Chloromethane	ND		2.0		ug/L			04/10/14 16:14	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/10/14 16:14	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-265D-20140408-01**

**Lab Sample ID: 480-57495-8**

Date Collected: 04/08/14 08:15

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/10/14 16:14	1
Dichlorobromomethane	ND		0.50		ug/L			04/10/14 16:14	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/10/14 16:14	1
Ethyl ether	ND		1.0		ug/L			04/10/14 16:14	1
Ethylbenzene	ND		1.0		ug/L			04/10/14 16:14	1
Ethylene Dibromide	ND		1.0		ug/L			04/10/14 16:14	1
Hexachlorobutadiene	ND		0.40		ug/L			04/10/14 16:14	1
Isopropyl ether	ND		10		ug/L			04/10/14 16:14	1
Isopropylbenzene	ND		1.0		ug/L			04/10/14 16:14	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/10/14 16:14	1
Methylene Chloride	ND		1.0		ug/L			04/10/14 16:14	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/10/14 16:14	1
Naphthalene	ND		5.0		ug/L			04/10/14 16:14	1
n-Butylbenzene	ND		1.0		ug/L			04/10/14 16:14	1
N-Propylbenzene	ND		1.0		ug/L			04/10/14 16:14	1
o-Xylene	ND		1.0		ug/L			04/10/14 16:14	1
sec-Butylbenzene	ND		1.0		ug/L			04/10/14 16:14	1
Styrene	ND		1.0		ug/L			04/10/14 16:14	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/10/14 16:14	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/10/14 16:14	1
tert-Butylbenzene	ND		1.0		ug/L			04/10/14 16:14	1
Tetrachloroethene	ND		1.0		ug/L			04/10/14 16:14	1
Tetrahydrofuran	ND		10		ug/L			04/10/14 16:14	1
Toluene	ND		1.0		ug/L			04/10/14 16:14	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/10/14 16:14	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 16:14	1
Trichloroethene	ND		1.0		ug/L			04/10/14 16:14	1
Trichlorofluoromethane	ND		1.0		ug/L			04/10/14 16:14	1
Vinyl chloride	ND		1.0		ug/L			04/10/14 16:14	1
Dibromomethane	ND		1.0		ug/L			04/10/14 16:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/10/14 16:14	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		04/10/14 16:14	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/10/14 16:14	1

**Client Sample ID: MW-266Ma-20140405-01**

**Lab Sample ID: 480-57495-9**

Date Collected: 04/05/14 14:50

Matrix: Water

Date Received: 04/09/14 01:30

**Method: 8260B SIM - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/12/14 00:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	120		50 - 150		04/12/14 00:23	1
Dibromofluoromethane (Surr)	92		50 - 150		04/12/14 00:23	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-266Ma-20140405-01**

**Lab Sample ID: 480-57495-9**

**Date Collected: 04/05/14 14:50**

**Matrix: Water**

**Date Received: 04/09/14 01:30**

**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			04/09/14 20:37	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/09/14 20:37	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/09/14 20:37	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/09/14 20:37	1
1,1-Dichloroethane	ND		1.0		ug/L			04/09/14 20:37	1
1,1-Dichloroethene	ND		1.0		ug/L			04/09/14 20:37	1
1,1-Dichloropropene	ND		1.0		ug/L			04/09/14 20:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/09/14 20:37	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/09/14 20:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/09/14 20:37	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/09/14 20:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/09/14 20:37	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/09/14 20:37	1
1,2-Dichloroethane	ND		1.0		ug/L			04/09/14 20:37	1
1,2-Dichloropropane	ND		1.0		ug/L			04/09/14 20:37	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/09/14 20:37	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/09/14 20:37	1
1,3-Dichloropropane	ND		1.0		ug/L			04/09/14 20:37	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/09/14 20:37	1
1,4-Dioxane	ND		50		ug/L			04/09/14 20:37	1
2,2-Dichloropropane	ND		1.0		ug/L			04/09/14 20:37	1
2-Butanone (MEK)	ND		10		ug/L			04/09/14 20:37	1
2-Chlorotoluene	ND		1.0		ug/L			04/09/14 20:37	1
2-Hexanone	ND		10		ug/L			04/09/14 20:37	1
4-Chlorotoluene	ND		1.0		ug/L			04/09/14 20:37	1
4-Isopropyltoluene	ND		1.0		ug/L			04/09/14 20:37	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/09/14 20:37	1
Acetone	ND		50		ug/L			04/09/14 20:37	1
Benzene	ND		1.0		ug/L			04/09/14 20:37	1
Bromobenzene	ND		1.0		ug/L			04/09/14 20:37	1
Bromoform	ND		1.0		ug/L			04/09/14 20:37	1
Bromomethane	ND		2.0		ug/L			04/09/14 20:37	1
Carbon disulfide	ND		10		ug/L			04/09/14 20:37	1
Carbon tetrachloride	ND		1.0		ug/L			04/09/14 20:37	1
Chlorobenzene	ND		1.0		ug/L			04/09/14 20:37	1
Chlorobromomethane	ND		1.0		ug/L			04/09/14 20:37	1
Chlorodibromomethane	ND		0.50		ug/L			04/09/14 20:37	1
Chloroethane	ND		2.0		ug/L			04/09/14 20:37	1
Chloroform	ND		1.0		ug/L			04/09/14 20:37	1
Chloromethane	ND		2.0		ug/L			04/09/14 20:37	1
<b>cis-1,2-Dichloroethene</b>	<b>1.5</b>		1.0		ug/L			04/09/14 20:37	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 20:37	1
Dichlorobromomethane	ND		0.50		ug/L			04/09/14 20:37	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/09/14 20:37	1
Ethyl ether	ND		1.0		ug/L			04/09/14 20:37	1
Ethylbenzene	ND		1.0		ug/L			04/09/14 20:37	1
Ethylene Dibromide	ND		1.0		ug/L			04/09/14 20:37	1
Hexachlorobutadiene	ND		0.40		ug/L			04/09/14 20:37	1
Isopropyl ether	ND		10		ug/L			04/09/14 20:37	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-266Ma-20140405-01**

**Lab Sample ID: 480-57495-9**

**Date Collected: 04/05/14 14:50**

**Matrix: Water**

**Date Received: 04/09/14 01:30**

**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			04/09/14 20:37	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/09/14 20:37	1
Methylene Chloride	ND		1.0		ug/L			04/09/14 20:37	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/09/14 20:37	1
Naphthalene	ND		5.0		ug/L			04/09/14 20:37	1
n-Butylbenzene	ND		1.0		ug/L			04/09/14 20:37	1
N-Propylbenzene	ND		1.0		ug/L			04/09/14 20:37	1
o-Xylene	ND		1.0		ug/L			04/09/14 20:37	1
sec-Butylbenzene	ND		1.0		ug/L			04/09/14 20:37	1
Styrene	ND		1.0		ug/L			04/09/14 20:37	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/09/14 20:37	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/09/14 20:37	1
tert-Butylbenzene	ND		1.0		ug/L			04/09/14 20:37	1
Tetrachloroethene	ND		1.0		ug/L			04/09/14 20:37	1
Tetrahydrofuran	ND	*	10		ug/L			04/09/14 20:37	1
Toluene	ND		1.0		ug/L			04/09/14 20:37	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/09/14 20:37	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 20:37	1
<b>Trichloroethene</b>	<b>1.6</b>		1.0		ug/L			04/09/14 20:37	1
Trichlorofluoromethane	ND		1.0		ug/L			04/09/14 20:37	1
Vinyl chloride	ND		1.0		ug/L			04/09/14 20:37	1
Dibromomethane	ND		1.0		ug/L			04/09/14 20:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130					04/09/14 20:37	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130					04/09/14 20:37	1
4-Bromofluorobenzene (Surr)	97		70 - 130					04/09/14 20:37	1

**Client Sample ID: MW-266Mb-20140405-01**

**Lab Sample ID: 480-57495-10**

**Date Collected: 04/05/14 15:20**

**Matrix: Water**

**Date Received: 04/09/14 01:30**

**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			04/09/14 21:00	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/09/14 21:00	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/09/14 21:00	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/09/14 21:00	1
1,1-Dichloroethane	ND		1.0		ug/L			04/09/14 21:00	1
1,1-Dichloroethene	ND		1.0		ug/L			04/09/14 21:00	1
1,1-Dichloropropene	ND		1.0		ug/L			04/09/14 21:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/09/14 21:00	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/09/14 21:00	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/09/14 21:00	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/09/14 21:00	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/09/14 21:00	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/09/14 21:00	1
1,2-Dichloroethane	ND		1.0		ug/L			04/09/14 21:00	1
1,2-Dichloropropane	ND		1.0		ug/L			04/09/14 21:00	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/09/14 21:00	1

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# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-266Mb-20140405-01**

**Lab Sample ID: 480-57495-10**

Date Collected: 04/05/14 15:20

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/09/14 21:00	1
1,3-Dichloropropane	ND		1.0		ug/L			04/09/14 21:00	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/09/14 21:00	1
1,4-Dioxane	ND		50		ug/L			04/09/14 21:00	1
2,2-Dichloropropane	ND		1.0		ug/L			04/09/14 21:00	1
2-Butanone (MEK)	ND		10		ug/L			04/09/14 21:00	1
2-Chlorotoluene	ND		1.0		ug/L			04/09/14 21:00	1
2-Hexanone	ND		10		ug/L			04/09/14 21:00	1
4-Chlorotoluene	ND		1.0		ug/L			04/09/14 21:00	1
4-Isopropyltoluene	ND		1.0		ug/L			04/09/14 21:00	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/09/14 21:00	1
Acetone	ND		50		ug/L			04/09/14 21:00	1
Benzene	ND		1.0		ug/L			04/09/14 21:00	1
Bromobenzene	ND		1.0		ug/L			04/09/14 21:00	1
Bromoform	ND		1.0		ug/L			04/09/14 21:00	1
Bromomethane	ND		2.0		ug/L			04/09/14 21:00	1
Carbon disulfide	ND		10		ug/L			04/09/14 21:00	1
Carbon tetrachloride	ND		1.0		ug/L			04/09/14 21:00	1
Chlorobenzene	ND		1.0		ug/L			04/09/14 21:00	1
Chlorobromomethane	ND		1.0		ug/L			04/09/14 21:00	1
Chlorodibromomethane	ND		0.50		ug/L			04/09/14 21:00	1
Chloroethane	ND		2.0		ug/L			04/09/14 21:00	1
Chloroform	ND		1.0		ug/L			04/09/14 21:00	1
Chloromethane	ND		2.0		ug/L			04/09/14 21:00	1
<b>cis-1,2-Dichloroethene</b>	<b>60</b>		1.0		ug/L			04/09/14 21:00	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 21:00	1
Dichlorobromomethane	ND		0.50		ug/L			04/09/14 21:00	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/09/14 21:00	1
Ethyl ether	ND		1.0		ug/L			04/09/14 21:00	1
Ethylbenzene	ND		1.0		ug/L			04/09/14 21:00	1
Ethylene Dibromide	ND		1.0		ug/L			04/09/14 21:00	1
Hexachlorobutadiene	ND		0.40		ug/L			04/09/14 21:00	1
Isopropyl ether	ND		10		ug/L			04/09/14 21:00	1
Isopropylbenzene	ND		1.0		ug/L			04/09/14 21:00	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/09/14 21:00	1
Methylene Chloride	ND		1.0		ug/L			04/09/14 21:00	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/09/14 21:00	1
Naphthalene	ND		5.0		ug/L			04/09/14 21:00	1
n-Butylbenzene	ND		1.0		ug/L			04/09/14 21:00	1
N-Propylbenzene	ND		1.0		ug/L			04/09/14 21:00	1
o-Xylene	ND		1.0		ug/L			04/09/14 21:00	1
sec-Butylbenzene	ND		1.0		ug/L			04/09/14 21:00	1
Styrene	ND		1.0		ug/L			04/09/14 21:00	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/09/14 21:00	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/09/14 21:00	1
tert-Butylbenzene	ND		1.0		ug/L			04/09/14 21:00	1
<b>Tetrachloroethene</b>	<b>11</b>		1.0		ug/L			04/09/14 21:00	1
Tetrahydrofuran	ND	*	10		ug/L			04/09/14 21:00	1
Toluene	ND		1.0		ug/L			04/09/14 21:00	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-266Mb-20140405-01**

**Lab Sample ID: 480-57495-10**

Date Collected: 04/05/14 15:20

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/09/14 21:00	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 21:00	1
<b>Trichloroethene</b>	<b>39</b>		1.0		ug/L			04/09/14 21:00	1
Trichlorofluoromethane	ND		1.0		ug/L			04/09/14 21:00	1
<b>Vinyl chloride</b>	<b>49</b>		1.0		ug/L			04/09/14 21:00	1
Dibromomethane	ND		1.0		ug/L			04/09/14 21:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130					04/09/14 21:00	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130					04/09/14 21:00	1
4-Bromofluorobenzene (Surr)	95		70 - 130					04/09/14 21:00	1

**Client Sample ID: MW-267S-20140405-01**

**Lab Sample ID: 480-57495-11**

Date Collected: 04/05/14 13:20

Matrix: Water

Date Received: 04/09/14 01:30

**Method: 8260B SIM - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.2		ug/L			04/12/14 00:48	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	137		50 - 150					04/12/14 00:48	2
Dibromofluoromethane (Surr)	85		50 - 150					04/12/14 00:48	2

**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			04/10/14 16:39	5
1,1,1-Trichloroethane	ND		5.0		ug/L			04/10/14 16:39	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			04/10/14 16:39	5
1,1,2-Trichloroethane	ND		5.0		ug/L			04/10/14 16:39	5
1,1-Dichloroethane	ND		5.0		ug/L			04/10/14 16:39	5
1,1-Dichloroethene	ND		5.0		ug/L			04/10/14 16:39	5
1,1-Dichloropropene	ND		5.0		ug/L			04/10/14 16:39	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			04/10/14 16:39	5
1,2,3-Trichloropropane	ND		5.0		ug/L			04/10/14 16:39	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			04/10/14 16:39	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			04/10/14 16:39	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			04/10/14 16:39	5
1,2-Dichlorobenzene	ND		5.0		ug/L			04/10/14 16:39	5
1,2-Dichloroethane	ND		5.0		ug/L			04/10/14 16:39	5
1,2-Dichloropropane	ND		5.0		ug/L			04/10/14 16:39	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			04/10/14 16:39	5
1,3-Dichlorobenzene	ND		5.0		ug/L			04/10/14 16:39	5
1,3-Dichloropropane	ND		5.0		ug/L			04/10/14 16:39	5
1,4-Dichlorobenzene	ND		5.0		ug/L			04/10/14 16:39	5
1,4-Dioxane	ND		250		ug/L			04/10/14 16:39	5
2,2-Dichloropropane	ND		5.0		ug/L			04/10/14 16:39	5
<b>2-Butanone (MEK)</b>	<b>210</b>	*	50		ug/L			04/10/14 16:39	5
2-Chlorotoluene	ND		5.0		ug/L			04/10/14 16:39	5
2-Hexanone	ND	*	50		ug/L			04/10/14 16:39	5

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-267S-20140405-01**

**Lab Sample ID: 480-57495-11**

Date Collected: 04/05/14 13:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		5.0		ug/L			04/10/14 16:39	5
4-Isopropyltoluene	ND		5.0		ug/L			04/10/14 16:39	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			04/10/14 16:39	5
Acetone	ND		250		ug/L			04/10/14 16:39	5
Benzene	ND		5.0		ug/L			04/10/14 16:39	5
Bromobenzene	ND		5.0		ug/L			04/10/14 16:39	5
Bromoform	ND		5.0		ug/L			04/10/14 16:39	5
Bromomethane	ND		10		ug/L			04/10/14 16:39	5
Carbon disulfide	ND		50		ug/L			04/10/14 16:39	5
Carbon tetrachloride	ND		5.0		ug/L			04/10/14 16:39	5
Chlorobenzene	ND		5.0		ug/L			04/10/14 16:39	5
Chlorobromomethane	ND		5.0		ug/L			04/10/14 16:39	5
Chlorodibromomethane	ND		2.5		ug/L			04/10/14 16:39	5
Chloroethane	ND		10		ug/L			04/10/14 16:39	5
Chloroform	ND		5.0		ug/L			04/10/14 16:39	5
Chloromethane	ND		10		ug/L			04/10/14 16:39	5
<b>cis-1,2-Dichloroethene</b>	<b>360</b>		5.0		ug/L			04/10/14 16:39	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			04/10/14 16:39	5
Dichlorobromomethane	ND		2.5		ug/L			04/10/14 16:39	5
Dichlorodifluoromethane	ND		5.0		ug/L			04/10/14 16:39	5
Ethyl ether	ND		5.0		ug/L			04/10/14 16:39	5
Ethylbenzene	ND		5.0		ug/L			04/10/14 16:39	5
Ethylene Dibromide	ND		5.0		ug/L			04/10/14 16:39	5
Hexachlorobutadiene	ND		2.0		ug/L			04/10/14 16:39	5
Isopropyl ether	ND		50		ug/L			04/10/14 16:39	5
Isopropylbenzene	ND		5.0		ug/L			04/10/14 16:39	5
Methyl tert-butyl ether	ND		5.0		ug/L			04/10/14 16:39	5
Methylene Chloride	ND		5.0		ug/L			04/10/14 16:39	5
m-Xylene & p-Xylene	ND		10		ug/L			04/10/14 16:39	5
Naphthalene	ND		25		ug/L			04/10/14 16:39	5
n-Butylbenzene	ND		5.0		ug/L			04/10/14 16:39	5
N-Propylbenzene	ND		5.0		ug/L			04/10/14 16:39	5
o-Xylene	ND		5.0		ug/L			04/10/14 16:39	5
sec-Butylbenzene	ND		5.0		ug/L			04/10/14 16:39	5
Styrene	ND		5.0		ug/L			04/10/14 16:39	5
Tert-amyl methyl ether	ND		25		ug/L			04/10/14 16:39	5
Tert-butyl ethyl ether	ND		25		ug/L			04/10/14 16:39	5
tert-Butylbenzene	ND		5.0		ug/L			04/10/14 16:39	5
Tetrachloroethene	ND		5.0		ug/L			04/10/14 16:39	5
Tetrahydrofuran	ND		50		ug/L			04/10/14 16:39	5
<b>Toluene</b>	<b>410</b>		5.0		ug/L			04/10/14 16:39	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			04/10/14 16:39	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			04/10/14 16:39	5
Trichloroethene	ND		5.0		ug/L			04/10/14 16:39	5
Trichlorofluoromethane	ND		5.0		ug/L			04/10/14 16:39	5
<b>Vinyl chloride</b>	<b>16</b>		5.0		ug/L			04/10/14 16:39	5
Dibromomethane	ND		5.0		ug/L			04/10/14 16:39	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/10/14 16:39	5

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-267S-20140405-01**

**Lab Sample ID: 480-57495-11**

Date Collected: 04/05/14 13:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		04/10/14 16:39	5
4-Bromofluorobenzene (Surr)	99		70 - 130		04/10/14 16:39	5

**Client Sample ID: MW-267M-20140405-01**

**Lab Sample ID: 480-57495-12**

Date Collected: 04/05/14 12:50

Matrix: Water

Date Received: 04/09/14 01:30

**Method: 8260B SIM - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.2		ug/L			04/12/14 01:11	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	118		50 - 150		04/12/14 01:11	2
Dibromofluoromethane (Surr)	86		50 - 150		04/12/14 01:11	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10		ug/L			04/10/14 17:04	10
1,1,1-Trichloroethane	ND		10		ug/L			04/10/14 17:04	10
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			04/10/14 17:04	10
1,1,2-Trichloroethane	ND		10		ug/L			04/10/14 17:04	10
1,1-Dichloroethane	ND		10		ug/L			04/10/14 17:04	10
1,1-Dichloroethene	ND		10		ug/L			04/10/14 17:04	10
1,1-Dichloropropene	ND		10		ug/L			04/10/14 17:04	10
1,2,3-Trichlorobenzene	ND		10		ug/L			04/10/14 17:04	10
1,2,3-Trichloropropane	ND		10		ug/L			04/10/14 17:04	10
1,2,4-Trichlorobenzene	ND		10		ug/L			04/10/14 17:04	10
1,2,4-Trimethylbenzene	ND		10		ug/L			04/10/14 17:04	10
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			04/10/14 17:04	10
1,2-Dichlorobenzene	ND		10		ug/L			04/10/14 17:04	10
1,2-Dichloroethane	ND		10		ug/L			04/10/14 17:04	10
1,2-Dichloropropane	ND		10		ug/L			04/10/14 17:04	10
1,3,5-Trimethylbenzene	ND		10		ug/L			04/10/14 17:04	10
1,3-Dichlorobenzene	ND		10		ug/L			04/10/14 17:04	10
1,3-Dichloropropane	ND		10		ug/L			04/10/14 17:04	10
1,4-Dichlorobenzene	ND		10		ug/L			04/10/14 17:04	10
1,4-Dioxane	ND		500		ug/L			04/10/14 17:04	10
2,2-Dichloropropane	ND		10		ug/L			04/10/14 17:04	10
<b>2-Butanone (MEK)</b>	<b>180</b>	*	100		ug/L			04/10/14 17:04	10
2-Chlorotoluene	ND		10		ug/L			04/10/14 17:04	10
2-Hexanone	ND	*	100		ug/L			04/10/14 17:04	10
4-Chlorotoluene	ND		10		ug/L			04/10/14 17:04	10
4-Isopropyltoluene	ND		10		ug/L			04/10/14 17:04	10
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			04/10/14 17:04	10
Acetone	ND		500		ug/L			04/10/14 17:04	10
Benzene	ND		10		ug/L			04/10/14 17:04	10
Bromobenzene	ND		10		ug/L			04/10/14 17:04	10
Bromoform	ND		10		ug/L			04/10/14 17:04	10
Bromomethane	ND		20		ug/L			04/10/14 17:04	10
Carbon disulfide	ND		100		ug/L			04/10/14 17:04	10

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-267M-20140405-01**

**Lab Sample ID: 480-57495-12**

Date Collected: 04/05/14 12:50

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		10		ug/L			04/10/14 17:04	10
Chlorobenzene	ND		10		ug/L			04/10/14 17:04	10
Chlorobromomethane	ND		10		ug/L			04/10/14 17:04	10
Chlorodibromomethane	ND		5.0		ug/L			04/10/14 17:04	10
Chloroethane	ND		20		ug/L			04/10/14 17:04	10
Chloroform	ND		10		ug/L			04/10/14 17:04	10
Chloromethane	ND		20		ug/L			04/10/14 17:04	10
<b>cis-1,2-Dichloroethene</b>	<b>380</b>		10		ug/L			04/10/14 17:04	10
cis-1,3-Dichloropropene	ND		4.0		ug/L			04/10/14 17:04	10
Dichlorobromomethane	ND		5.0		ug/L			04/10/14 17:04	10
Dichlorodifluoromethane	ND		10		ug/L			04/10/14 17:04	10
Ethyl ether	ND		10		ug/L			04/10/14 17:04	10
Ethylbenzene	ND		10		ug/L			04/10/14 17:04	10
Ethylene Dibromide	ND		10		ug/L			04/10/14 17:04	10
Hexachlorobutadiene	ND		4.0		ug/L			04/10/14 17:04	10
Isopropyl ether	ND		100		ug/L			04/10/14 17:04	10
Isopropylbenzene	ND		10		ug/L			04/10/14 17:04	10
Methyl tert-butyl ether	ND		10		ug/L			04/10/14 17:04	10
Methylene Chloride	ND		10		ug/L			04/10/14 17:04	10
m-Xylene & p-Xylene	ND		20		ug/L			04/10/14 17:04	10
Naphthalene	ND		50		ug/L			04/10/14 17:04	10
n-Butylbenzene	ND		10		ug/L			04/10/14 17:04	10
N-Propylbenzene	ND		10		ug/L			04/10/14 17:04	10
o-Xylene	ND		10		ug/L			04/10/14 17:04	10
sec-Butylbenzene	ND		10		ug/L			04/10/14 17:04	10
Styrene	ND		10		ug/L			04/10/14 17:04	10
Tert-amyl methyl ether	ND		50		ug/L			04/10/14 17:04	10
Tert-butyl ethyl ether	ND		50		ug/L			04/10/14 17:04	10
tert-Butylbenzene	ND		10		ug/L			04/10/14 17:04	10
Tetrachloroethene	ND		10		ug/L			04/10/14 17:04	10
Tetrahydrofuran	ND		100		ug/L			04/10/14 17:04	10
<b>Toluene</b>	<b>87</b>		10		ug/L			04/10/14 17:04	10
trans-1,2-Dichloroethene	ND		10		ug/L			04/10/14 17:04	10
trans-1,3-Dichloropropene	ND		4.0		ug/L			04/10/14 17:04	10
Trichloroethene	ND		10		ug/L			04/10/14 17:04	10
Trichlorofluoromethane	ND		10		ug/L			04/10/14 17:04	10
<b>Vinyl chloride</b>	<b>31</b>		10		ug/L			04/10/14 17:04	10
Dibromomethane	ND		10		ug/L			04/10/14 17:04	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130					04/10/14 17:04	10
1,2-Dichloroethane-d4 (Surr)	94		70 - 130					04/10/14 17:04	10
4-Bromofluorobenzene (Surr)	98		70 - 130					04/10/14 17:04	10

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-268S-20140407**

**Lab Sample ID: 480-57495-13**

Date Collected: 04/07/14 08:45

Matrix: Water

Date Received: 04/09/14 01:30

**Method: 8260B SIM - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/12/14 01:36	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
TBA-d9 (Surr)	112		50 - 150					04/12/14 01:36	1
Dibromofluoromethane (Surr)	90		50 - 150					04/12/14 01:36	1

**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			04/10/14 17:29	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/10/14 17:29	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/10/14 17:29	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/10/14 17:29	1
1,1-Dichloroethane	ND		1.0		ug/L			04/10/14 17:29	1
1,1-Dichloroethene	ND		1.0		ug/L			04/10/14 17:29	1
1,1-Dichloropropene	ND		1.0		ug/L			04/10/14 17:29	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/10/14 17:29	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/10/14 17:29	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/10/14 17:29	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/10/14 17:29	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/10/14 17:29	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/10/14 17:29	1
1,2-Dichloroethane	ND		1.0		ug/L			04/10/14 17:29	1
1,2-Dichloropropane	ND		1.0		ug/L			04/10/14 17:29	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/10/14 17:29	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/10/14 17:29	1
1,3-Dichloropropane	ND		1.0		ug/L			04/10/14 17:29	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/10/14 17:29	1
1,4-Dioxane	ND		50		ug/L			04/10/14 17:29	1
2,2-Dichloropropane	ND		1.0		ug/L			04/10/14 17:29	1
2-Butanone (MEK)	ND	*	10		ug/L			04/10/14 17:29	1
2-Chlorotoluene	ND		1.0		ug/L			04/10/14 17:29	1
2-Hexanone	ND	*	10		ug/L			04/10/14 17:29	1
4-Chlorotoluene	ND		1.0		ug/L			04/10/14 17:29	1
4-Isopropyltoluene	ND		1.0		ug/L			04/10/14 17:29	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/10/14 17:29	1
Acetone	ND		50		ug/L			04/10/14 17:29	1
Benzene	ND		1.0		ug/L			04/10/14 17:29	1
Bromobenzene	ND		1.0		ug/L			04/10/14 17:29	1
Bromoform	ND		1.0		ug/L			04/10/14 17:29	1
Bromomethane	ND		2.0		ug/L			04/10/14 17:29	1
Carbon disulfide	ND		10		ug/L			04/10/14 17:29	1
Carbon tetrachloride	ND		1.0		ug/L			04/10/14 17:29	1
Chlorobenzene	ND		1.0		ug/L			04/10/14 17:29	1
Chlorobromomethane	ND		1.0		ug/L			04/10/14 17:29	1
Chlorodibromomethane	ND		0.50		ug/L			04/10/14 17:29	1
Chloroethane	ND		2.0		ug/L			04/10/14 17:29	1
Chloroform	ND		1.0		ug/L			04/10/14 17:29	1
Chloromethane	ND		2.0		ug/L			04/10/14 17:29	1
<b>cis-1,2-Dichloroethene</b>	<b>11</b>		1.0		ug/L			04/10/14 17:29	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 17:29	1

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# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-268S-20140407**

**Lab Sample ID: 480-57495-13**

Date Collected: 04/07/14 08:45

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/10/14 17:29	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/10/14 17:29	1
Ethyl ether	ND		1.0		ug/L			04/10/14 17:29	1
Ethylbenzene	ND		1.0		ug/L			04/10/14 17:29	1
Ethylene Dibromide	ND		1.0		ug/L			04/10/14 17:29	1
Hexachlorobutadiene	ND		0.40		ug/L			04/10/14 17:29	1
Isopropyl ether	ND		10		ug/L			04/10/14 17:29	1
Isopropylbenzene	ND		1.0		ug/L			04/10/14 17:29	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/10/14 17:29	1
Methylene Chloride	ND		1.0		ug/L			04/10/14 17:29	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/10/14 17:29	1
Naphthalene	ND		5.0		ug/L			04/10/14 17:29	1
n-Butylbenzene	ND		1.0		ug/L			04/10/14 17:29	1
N-Propylbenzene	ND		1.0		ug/L			04/10/14 17:29	1
o-Xylene	ND		1.0		ug/L			04/10/14 17:29	1
sec-Butylbenzene	ND		1.0		ug/L			04/10/14 17:29	1
Styrene	ND		1.0		ug/L			04/10/14 17:29	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/10/14 17:29	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/10/14 17:29	1
tert-Butylbenzene	ND		1.0		ug/L			04/10/14 17:29	1
Tetrachloroethene	ND		1.0		ug/L			04/10/14 17:29	1
Tetrahydrofuran	ND		10		ug/L			04/10/14 17:29	1
Toluene	ND		1.0		ug/L			04/10/14 17:29	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/10/14 17:29	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 17:29	1
<b>Trichloroethene</b>	<b>11</b>		1.0		ug/L			04/10/14 17:29	1
Trichlorofluoromethane	ND		1.0		ug/L			04/10/14 17:29	1
Vinyl chloride	ND		1.0		ug/L			04/10/14 17:29	1
Dibromomethane	ND		1.0		ug/L			04/10/14 17:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/10/14 17:29	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		04/10/14 17:29	1
4-Bromofluorobenzene (Surr)	101		70 - 130		04/10/14 17:29	1

**Client Sample ID: MW-268M-20140407**

**Lab Sample ID: 480-57495-14**

Date Collected: 04/07/14 09:25

Matrix: Water

Date Received: 04/09/14 01:30

**Method: 8260B SIM - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dioxane</b>	<b>25</b>		1.6		ug/L			04/12/14 02:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	80		50 - 150		04/12/14 02:00	1
Dibromofluoromethane (Surr)	83		50 - 150		04/12/14 02:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		40		ug/L			04/10/14 17:54	40

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# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-268M-20140407**

**Lab Sample ID: 480-57495-14**

Date Collected: 04/07/14 09:25

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		40		ug/L			04/10/14 17:54	40
1,1,2,2-Tetrachloroethane	ND		20		ug/L			04/10/14 17:54	40
1,1,2-Trichloroethane	ND		40		ug/L			04/10/14 17:54	40
1,1-Dichloroethane	ND		40		ug/L			04/10/14 17:54	40
1,1-Dichloroethene	ND		40		ug/L			04/10/14 17:54	40
1,1-Dichloropropene	ND		40		ug/L			04/10/14 17:54	40
1,2,3-Trichlorobenzene	ND		40		ug/L			04/10/14 17:54	40
1,2,3-Trichloropropane	ND		40		ug/L			04/10/14 17:54	40
1,2,4-Trichlorobenzene	ND		40		ug/L			04/10/14 17:54	40
1,2,4-Trimethylbenzene	ND		40		ug/L			04/10/14 17:54	40
1,2-Dibromo-3-Chloropropane	ND		200		ug/L			04/10/14 17:54	40
1,2-Dichlorobenzene	ND		40		ug/L			04/10/14 17:54	40
1,2-Dichloroethane	ND		40		ug/L			04/10/14 17:54	40
1,2-Dichloropropane	ND		40		ug/L			04/10/14 17:54	40
1,3,5-Trimethylbenzene	ND		40		ug/L			04/10/14 17:54	40
1,3-Dichlorobenzene	ND		40		ug/L			04/10/14 17:54	40
1,3-Dichloropropane	ND		40		ug/L			04/10/14 17:54	40
1,4-Dichlorobenzene	ND		40		ug/L			04/10/14 17:54	40
1,4-Dioxane	ND		2000		ug/L			04/10/14 17:54	40
2,2-Dichloropropane	ND		40		ug/L			04/10/14 17:54	40
2-Butanone (MEK)	ND	*	400		ug/L			04/10/14 17:54	40
2-Chlorotoluene	ND		40		ug/L			04/10/14 17:54	40
2-Hexanone	ND	*	400		ug/L			04/10/14 17:54	40
4-Chlorotoluene	ND		40		ug/L			04/10/14 17:54	40
4-Isopropyltoluene	ND		40		ug/L			04/10/14 17:54	40
4-Methyl-2-pentanone (MIBK)	ND		400		ug/L			04/10/14 17:54	40
Acetone	ND		2000		ug/L			04/10/14 17:54	40
Benzene	ND		40		ug/L			04/10/14 17:54	40
Bromobenzene	ND		40		ug/L			04/10/14 17:54	40
Bromoform	ND		40		ug/L			04/10/14 17:54	40
Bromomethane	ND		80		ug/L			04/10/14 17:54	40
Carbon disulfide	ND		400		ug/L			04/10/14 17:54	40
Carbon tetrachloride	ND		40		ug/L			04/10/14 17:54	40
Chlorobenzene	ND		40		ug/L			04/10/14 17:54	40
Chlorobromomethane	ND		40		ug/L			04/10/14 17:54	40
Chlorodibromomethane	ND		20		ug/L			04/10/14 17:54	40
Chloroethane	ND		80		ug/L			04/10/14 17:54	40
Chloroform	ND		40		ug/L			04/10/14 17:54	40
Chloromethane	ND		80		ug/L			04/10/14 17:54	40
<b>cis-1,2-Dichloroethene</b>	<b>3100</b>		40		ug/L			04/10/14 17:54	40
cis-1,3-Dichloropropene	ND		16		ug/L			04/10/14 17:54	40
Dichlorobromomethane	ND		20		ug/L			04/10/14 17:54	40
Dichlorodifluoromethane	ND		40		ug/L			04/10/14 17:54	40
Ethyl ether	ND		40		ug/L			04/10/14 17:54	40
Ethylbenzene	ND		40		ug/L			04/10/14 17:54	40
Ethylene Dibromide	ND		40		ug/L			04/10/14 17:54	40
Hexachlorobutadiene	ND		16		ug/L			04/10/14 17:54	40
Isopropyl ether	ND		400		ug/L			04/10/14 17:54	40
Isopropylbenzene	ND		40		ug/L			04/10/14 17:54	40

TestAmerica Buffalo



# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-268M-20140407**

**Lab Sample ID: 480-57495-14**

**Date Collected: 04/07/14 09:25**

**Matrix: Water**

**Date Received: 04/09/14 01:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		40		ug/L			04/10/14 17:54	40
Methylene Chloride	ND		40		ug/L			04/10/14 17:54	40
m-Xylene & p-Xylene	ND		80		ug/L			04/10/14 17:54	40
Naphthalene	ND		200		ug/L			04/10/14 17:54	40
n-Butylbenzene	ND		40		ug/L			04/10/14 17:54	40
N-Propylbenzene	ND		40		ug/L			04/10/14 17:54	40
o-Xylene	ND		40		ug/L			04/10/14 17:54	40
sec-Butylbenzene	ND		40		ug/L			04/10/14 17:54	40
Styrene	ND		40		ug/L			04/10/14 17:54	40
Tert-amyl methyl ether	ND		200		ug/L			04/10/14 17:54	40
Tert-butyl ethyl ether	ND		200		ug/L			04/10/14 17:54	40
tert-Butylbenzene	ND		40		ug/L			04/10/14 17:54	40
Tetrachloroethene	ND		40		ug/L			04/10/14 17:54	40
Tetrahydrofuran	ND		400		ug/L			04/10/14 17:54	40
Toluene	ND		40		ug/L			04/10/14 17:54	40
trans-1,2-Dichloroethene	ND		40		ug/L			04/10/14 17:54	40
trans-1,3-Dichloropropene	ND		16		ug/L			04/10/14 17:54	40
<b>Trichloroethene</b>	<b>1200</b>		40		ug/L			04/10/14 17:54	40
Trichlorofluoromethane	ND		40		ug/L			04/10/14 17:54	40
<b>Vinyl chloride</b>	<b>180</b>		40		ug/L			04/10/14 17:54	40
Dibromomethane	ND		40		ug/L			04/10/14 17:54	40
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130					04/10/14 17:54	40
1,2-Dichloroethane-d4 (Surr)	94		70 - 130					04/10/14 17:54	40
4-Bromofluorobenzene (Surr)	99		70 - 130					04/10/14 17:54	40

**Client Sample ID: MW-268D-20140405**

**Lab Sample ID: 480-57495-15**

**Date Collected: 04/05/14 12:20**

**Matrix: Water**

**Date Received: 04/09/14 01:30**

**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			04/10/14 18:19	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/10/14 18:19	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/10/14 18:19	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/10/14 18:19	1
1,1-Dichloroethane	ND		1.0		ug/L			04/10/14 18:19	1
1,1-Dichloroethene	ND		1.0		ug/L			04/10/14 18:19	1
1,1-Dichloropropene	ND		1.0		ug/L			04/10/14 18:19	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/10/14 18:19	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/10/14 18:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/10/14 18:19	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/10/14 18:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/10/14 18:19	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/10/14 18:19	1
1,2-Dichloroethane	ND		1.0		ug/L			04/10/14 18:19	1
1,2-Dichloropropane	ND		1.0		ug/L			04/10/14 18:19	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/10/14 18:19	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/10/14 18:19	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-268D-20140405**

**Lab Sample ID: 480-57495-15**

Date Collected: 04/05/14 12:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		1.0		ug/L			04/10/14 18:19	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/10/14 18:19	1
1,4-Dioxane	ND		50		ug/L			04/10/14 18:19	1
2,2-Dichloropropane	ND		1.0		ug/L			04/10/14 18:19	1
2-Butanone (MEK)	ND	*	10		ug/L			04/10/14 18:19	1
2-Chlorotoluene	ND		1.0		ug/L			04/10/14 18:19	1
2-Hexanone	ND	*	10		ug/L			04/10/14 18:19	1
4-Chlorotoluene	ND		1.0		ug/L			04/10/14 18:19	1
4-Isopropyltoluene	ND		1.0		ug/L			04/10/14 18:19	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/10/14 18:19	1
Acetone	ND		50		ug/L			04/10/14 18:19	1
Benzene	ND		1.0		ug/L			04/10/14 18:19	1
Bromobenzene	ND		1.0		ug/L			04/10/14 18:19	1
Bromoform	ND		1.0		ug/L			04/10/14 18:19	1
Bromomethane	ND		2.0		ug/L			04/10/14 18:19	1
Carbon disulfide	ND		10		ug/L			04/10/14 18:19	1
Carbon tetrachloride	ND		1.0		ug/L			04/10/14 18:19	1
Chlorobenzene	ND		1.0		ug/L			04/10/14 18:19	1
Chlorobromomethane	ND		1.0		ug/L			04/10/14 18:19	1
Chlorodibromomethane	ND		0.50		ug/L			04/10/14 18:19	1
Chloroethane	ND		2.0		ug/L			04/10/14 18:19	1
Chloroform	ND		1.0		ug/L			04/10/14 18:19	1
Chloromethane	ND		2.0		ug/L			04/10/14 18:19	1
<b>cis-1,2-Dichloroethene</b>	<b>8.5</b>		1.0		ug/L			04/10/14 18:19	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 18:19	1
Dichlorobromomethane	ND		0.50		ug/L			04/10/14 18:19	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/10/14 18:19	1
Ethyl ether	ND		1.0		ug/L			04/10/14 18:19	1
Ethylbenzene	ND		1.0		ug/L			04/10/14 18:19	1
Ethylene Dibromide	ND		1.0		ug/L			04/10/14 18:19	1
Hexachlorobutadiene	ND		0.40		ug/L			04/10/14 18:19	1
Isopropyl ether	ND		10		ug/L			04/10/14 18:19	1
Isopropylbenzene	ND		1.0		ug/L			04/10/14 18:19	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/10/14 18:19	1
Methylene Chloride	ND		1.0		ug/L			04/10/14 18:19	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/10/14 18:19	1
Naphthalene	ND		5.0		ug/L			04/10/14 18:19	1
n-Butylbenzene	ND		1.0		ug/L			04/10/14 18:19	1
N-Propylbenzene	ND		1.0		ug/L			04/10/14 18:19	1
o-Xylene	ND		1.0		ug/L			04/10/14 18:19	1
sec-Butylbenzene	ND		1.0		ug/L			04/10/14 18:19	1
Styrene	ND		1.0		ug/L			04/10/14 18:19	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/10/14 18:19	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/10/14 18:19	1
tert-Butylbenzene	ND		1.0		ug/L			04/10/14 18:19	1
Tetrachloroethene	ND		1.0		ug/L			04/10/14 18:19	1
Tetrahydrofuran	ND		10		ug/L			04/10/14 18:19	1
<b>Toluene</b>	<b>2.0</b>		1.0		ug/L			04/10/14 18:19	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/10/14 18:19	1

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# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-268D-20140405**

**Lab Sample ID: 480-57495-15**

Date Collected: 04/05/14 12:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 18:19	1
<b>Trichloroethene</b>	<b>1.2</b>		1.0		ug/L			04/10/14 18:19	1
Trichlorofluoromethane	ND		1.0		ug/L			04/10/14 18:19	1
<b>Vinyl chloride</b>	<b>2.6</b>		1.0		ug/L			04/10/14 18:19	1
Dibromomethane	ND		1.0		ug/L			04/10/14 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130					04/10/14 18:19	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130					04/10/14 18:19	1
4-Bromofluorobenzene (Surr)	97		70 - 130					04/10/14 18:19	1

**Client Sample ID: MW-269Ma-20140405**

**Lab Sample ID: 480-57495-16**

Date Collected: 04/05/14 14:10

Matrix: Water

Date Received: 04/09/14 01:30

**Method: 8260B SIM - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dioxane</b>	<b>2.9</b>		1.6		ug/L			04/12/14 02:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	111		50 - 150					04/12/14 02:24	1
Dibromofluoromethane (Surr)	92		50 - 150					04/12/14 02:24	1

**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			04/10/14 18:44	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/10/14 18:44	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/10/14 18:44	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/10/14 18:44	1
1,1-Dichloroethane	ND		1.0		ug/L			04/10/14 18:44	1
1,1-Dichloroethene	ND		1.0		ug/L			04/10/14 18:44	1
1,1-Dichloropropene	ND		1.0		ug/L			04/10/14 18:44	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/10/14 18:44	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/10/14 18:44	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/10/14 18:44	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/10/14 18:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/10/14 18:44	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/10/14 18:44	1
1,2-Dichloroethane	ND		1.0		ug/L			04/10/14 18:44	1
1,2-Dichloropropane	ND		1.0		ug/L			04/10/14 18:44	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/10/14 18:44	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/10/14 18:44	1
1,3-Dichloropropane	ND		1.0		ug/L			04/10/14 18:44	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/10/14 18:44	1
1,4-Dioxane	ND		50		ug/L			04/10/14 18:44	1
2,2-Dichloropropane	ND		1.0		ug/L			04/10/14 18:44	1
2-Butanone (MEK)	ND	*	10		ug/L			04/10/14 18:44	1
2-Chlorotoluene	ND		1.0		ug/L			04/10/14 18:44	1
2-Hexanone	ND	*	10		ug/L			04/10/14 18:44	1
4-Chlorotoluene	ND		1.0		ug/L			04/10/14 18:44	1

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# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-269Ma-20140405**

**Lab Sample ID: 480-57495-16**

Date Collected: 04/05/14 14:10

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/10/14 18:44	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/10/14 18:44	1
Acetone	ND		50		ug/L			04/10/14 18:44	1
Benzene	ND		1.0		ug/L			04/10/14 18:44	1
Bromobenzene	ND		1.0		ug/L			04/10/14 18:44	1
Bromoform	ND		1.0		ug/L			04/10/14 18:44	1
Bromomethane	ND		2.0		ug/L			04/10/14 18:44	1
Carbon disulfide	ND		10		ug/L			04/10/14 18:44	1
Carbon tetrachloride	ND		1.0		ug/L			04/10/14 18:44	1
Chlorobenzene	ND		1.0		ug/L			04/10/14 18:44	1
Chlorobromomethane	ND		1.0		ug/L			04/10/14 18:44	1
Chlorodibromomethane	ND		0.50		ug/L			04/10/14 18:44	1
Chloroethane	ND		2.0		ug/L			04/10/14 18:44	1
Chloroform	ND		1.0		ug/L			04/10/14 18:44	1
Chloromethane	ND		2.0		ug/L			04/10/14 18:44	1
<b>cis-1,2-Dichloroethene</b>	<b>3.2</b>		1.0		ug/L			04/10/14 18:44	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 18:44	1
Dichlorobromomethane	ND		0.50		ug/L			04/10/14 18:44	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/10/14 18:44	1
Ethyl ether	ND		1.0		ug/L			04/10/14 18:44	1
Ethylbenzene	ND		1.0		ug/L			04/10/14 18:44	1
Ethylene Dibromide	ND		1.0		ug/L			04/10/14 18:44	1
Hexachlorobutadiene	ND		0.40		ug/L			04/10/14 18:44	1
Isopropyl ether	ND		10		ug/L			04/10/14 18:44	1
Isopropylbenzene	ND		1.0		ug/L			04/10/14 18:44	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/10/14 18:44	1
Methylene Chloride	ND		1.0		ug/L			04/10/14 18:44	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/10/14 18:44	1
Naphthalene	ND		5.0		ug/L			04/10/14 18:44	1
n-Butylbenzene	ND		1.0		ug/L			04/10/14 18:44	1
N-Propylbenzene	ND		1.0		ug/L			04/10/14 18:44	1
o-Xylene	ND		1.0		ug/L			04/10/14 18:44	1
sec-Butylbenzene	ND		1.0		ug/L			04/10/14 18:44	1
Styrene	ND		1.0		ug/L			04/10/14 18:44	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/10/14 18:44	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/10/14 18:44	1
tert-Butylbenzene	ND		1.0		ug/L			04/10/14 18:44	1
Tetrachloroethene	ND		1.0		ug/L			04/10/14 18:44	1
Tetrahydrofuran	ND		10		ug/L			04/10/14 18:44	1
Toluene	ND		1.0		ug/L			04/10/14 18:44	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/10/14 18:44	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 18:44	1
<b>Trichloroethene</b>	<b>2.2</b>		1.0		ug/L			04/10/14 18:44	1
Trichlorofluoromethane	ND		1.0		ug/L			04/10/14 18:44	1
Vinyl chloride	ND		1.0		ug/L			04/10/14 18:44	1
Dibromomethane	ND		1.0		ug/L			04/10/14 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/10/14 18:44	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		04/10/14 18:44	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-269Ma-20140405**

**Lab Sample ID: 480-57495-16**

Date Collected: 04/05/14 14:10

Matrix: Water

Date Received: 04/09/14 01:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130		04/10/14 18:44	1

**Client Sample ID: MW-551-20140408-01**

**Lab Sample ID: 480-57495-17**

Date Collected: 04/08/14 12:05

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		40		ug/L			04/11/14 14:09	40
1,1,1-Trichloroethane	ND		40		ug/L			04/11/14 14:09	40
1,1,2,2-Tetrachloroethane	ND		20		ug/L			04/11/14 14:09	40
1,1,2-Trichloroethane	ND		40		ug/L			04/11/14 14:09	40
1,1-Dichloroethane	ND		40		ug/L			04/11/14 14:09	40
1,1-Dichloroethene	ND		40		ug/L			04/11/14 14:09	40
1,1-Dichloropropene	ND		40		ug/L			04/11/14 14:09	40
1,2,3-Trichlorobenzene	ND		40		ug/L			04/11/14 14:09	40
1,2,3-Trichloropropane	ND		40		ug/L			04/11/14 14:09	40
1,2,4-Trichlorobenzene	ND		40		ug/L			04/11/14 14:09	40
1,2,4-Trimethylbenzene	ND		40		ug/L			04/11/14 14:09	40
1,2-Dibromo-3-Chloropropane	ND		200		ug/L			04/11/14 14:09	40
1,2-Dichlorobenzene	ND		40		ug/L			04/11/14 14:09	40
1,2-Dichloroethane	ND		40		ug/L			04/11/14 14:09	40
1,2-Dichloropropane	ND		40		ug/L			04/11/14 14:09	40
1,3,5-Trimethylbenzene	ND		40		ug/L			04/11/14 14:09	40
1,3-Dichlorobenzene	ND		40		ug/L			04/11/14 14:09	40
1,3-Dichloropropane	ND		40		ug/L			04/11/14 14:09	40
1,4-Dichlorobenzene	ND		40		ug/L			04/11/14 14:09	40
1,4-Dioxane	ND		2000		ug/L			04/11/14 14:09	40
2,2-Dichloropropane	ND		40		ug/L			04/11/14 14:09	40
2-Butanone (MEK)	ND		400		ug/L			04/11/14 14:09	40
2-Chlorotoluene	ND		40		ug/L			04/11/14 14:09	40
2-Hexanone	ND *		400		ug/L			04/11/14 14:09	40
4-Chlorotoluene	ND		40		ug/L			04/11/14 14:09	40
4-Isopropyltoluene	ND		40		ug/L			04/11/14 14:09	40
4-Methyl-2-pentanone (MIBK)	ND		400		ug/L			04/11/14 14:09	40
<b>Acetone</b>	<b>15000</b>		2000		ug/L			04/11/14 14:09	40
Benzene	ND		40		ug/L			04/11/14 14:09	40
Bromobenzene	ND		40		ug/L			04/11/14 14:09	40
Bromoform	ND		40		ug/L			04/11/14 14:09	40
Bromomethane	ND		80		ug/L			04/11/14 14:09	40
Carbon disulfide	ND		400		ug/L			04/11/14 14:09	40
Carbon tetrachloride	ND		40		ug/L			04/11/14 14:09	40
Chlorobenzene	ND		40		ug/L			04/11/14 14:09	40
Chlorobromomethane	ND		40		ug/L			04/11/14 14:09	40
Chlorodibromomethane	ND		20		ug/L			04/11/14 14:09	40
Chloroethane	ND		80		ug/L			04/11/14 14:09	40
Chloroform	ND		40		ug/L			04/11/14 14:09	40
Chloromethane	ND		80		ug/L			04/11/14 14:09	40
cis-1,2-Dichloroethene	ND		40		ug/L			04/11/14 14:09	40

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-551-20140408-01**

**Lab Sample ID: 480-57495-17**

Date Collected: 04/08/14 12:05

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		16		ug/L			04/11/14 14:09	40
Dichlorobromomethane	ND		20		ug/L			04/11/14 14:09	40
Dichlorodifluoromethane	ND		40		ug/L			04/11/14 14:09	40
Ethyl ether	ND		40		ug/L			04/11/14 14:09	40
Ethylbenzene	ND		40		ug/L			04/11/14 14:09	40
Ethylene Dibromide	ND		40		ug/L			04/11/14 14:09	40
Hexachlorobutadiene	ND		16		ug/L			04/11/14 14:09	40
Isopropyl ether	ND		400		ug/L			04/11/14 14:09	40
Isopropylbenzene	ND		40		ug/L			04/11/14 14:09	40
Methyl tert-butyl ether	ND		40		ug/L			04/11/14 14:09	40
Methylene Chloride	ND		40		ug/L			04/11/14 14:09	40
m-Xylene & p-Xylene	ND		80		ug/L			04/11/14 14:09	40
Naphthalene	ND		200		ug/L			04/11/14 14:09	40
n-Butylbenzene	ND		40		ug/L			04/11/14 14:09	40
N-Propylbenzene	ND		40		ug/L			04/11/14 14:09	40
o-Xylene	ND		40		ug/L			04/11/14 14:09	40
sec-Butylbenzene	ND		40		ug/L			04/11/14 14:09	40
Styrene	ND		40		ug/L			04/11/14 14:09	40
Tert-amyl methyl ether	ND		200		ug/L			04/11/14 14:09	40
Tert-butyl ethyl ether	ND		200		ug/L			04/11/14 14:09	40
tert-Butylbenzene	ND		40		ug/L			04/11/14 14:09	40
Tetrachloroethene	ND		40		ug/L			04/11/14 14:09	40
Tetrahydrofuran	ND		400		ug/L			04/11/14 14:09	40
Toluene	ND		40		ug/L			04/11/14 14:09	40
trans-1,2-Dichloroethene	ND		40		ug/L			04/11/14 14:09	40
trans-1,3-Dichloropropene	ND		16		ug/L			04/11/14 14:09	40
Trichloroethene	ND		40		ug/L			04/11/14 14:09	40
Trichlorofluoromethane	ND		40		ug/L			04/11/14 14:09	40
Vinyl chloride	ND		40		ug/L			04/11/14 14:09	40
Dibromomethane	ND		40		ug/L			04/11/14 14:09	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/11/14 14:09	40
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		04/11/14 14:09	40
4-Bromofluorobenzene (Surr)	100		70 - 130		04/11/14 14:09	40

**Client Sample ID: MW-552-20140407-01**

**Lab Sample ID: 480-57495-18**

Date Collected: 04/07/14 15:25

Matrix: Water

Date Received: 04/09/14 01:30

**Method: 8260B SIM - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.2		ug/L			04/12/14 02:48	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	117		50 - 150		04/12/14 02:48	2
Dibromofluoromethane (Surr)	88		50 - 150		04/12/14 02:48	2

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# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-552-20140407-01**

**Lab Sample ID: 480-57495-18**

**Date Collected: 04/07/14 15:25**

**Matrix: Water**

**Date Received: 04/09/14 01:30**

**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			04/11/14 14:35	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 14:35	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 14:35	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 14:35	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 14:35	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 14:35	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 14:35	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 14:35	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 14:35	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 14:35	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 14:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 14:35	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 14:35	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 14:35	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 14:35	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 14:35	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 14:35	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 14:35	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 14:35	1
1,4-Dioxane	ND		50		ug/L			04/11/14 14:35	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 14:35	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 14:35	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 14:35	1
2-Hexanone	ND *		10		ug/L			04/11/14 14:35	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 14:35	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 14:35	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 14:35	1
<b>Acetone</b>	<b>120</b>		50		ug/L			04/11/14 14:35	1
Benzene	ND		1.0		ug/L			04/11/14 14:35	1
Bromobenzene	ND		1.0		ug/L			04/11/14 14:35	1
Bromoform	ND		1.0		ug/L			04/11/14 14:35	1
Bromomethane	ND		2.0		ug/L			04/11/14 14:35	1
Carbon disulfide	ND		10		ug/L			04/11/14 14:35	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 14:35	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 14:35	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 14:35	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 14:35	1
Chloroethane	ND		2.0		ug/L			04/11/14 14:35	1
Chloroform	ND		1.0		ug/L			04/11/14 14:35	1
Chloromethane	ND		2.0		ug/L			04/11/14 14:35	1
<b>cis-1,2-Dichloroethene</b>	<b>2.6</b>		1.0		ug/L			04/11/14 14:35	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 14:35	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 14:35	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 14:35	1
Ethyl ether	ND		1.0		ug/L			04/11/14 14:35	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 14:35	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 14:35	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 14:35	1
Isopropyl ether	ND		10		ug/L			04/11/14 14:35	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-552-20140407-01**

**Lab Sample ID: 480-57495-18**

Date Collected: 04/07/14 15:25

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/11/14 14:35	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 14:35	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 14:35	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 14:35	1
Naphthalene	ND		5.0		ug/L			04/11/14 14:35	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 14:35	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 14:35	1
o-Xylene	ND		1.0		ug/L			04/11/14 14:35	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 14:35	1
Styrene	ND		1.0		ug/L			04/11/14 14:35	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 14:35	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 14:35	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 14:35	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 14:35	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 14:35	1
<b>Toluene</b>	<b>2.4</b>		1.0		ug/L			04/11/14 14:35	1
<b>trans-1,2-Dichloroethene</b>	<b>2.8</b>		1.0		ug/L			04/11/14 14:35	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 14:35	1
Trichloroethene	ND		1.0		ug/L			04/11/14 14:35	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 14:35	1
<b>Vinyl chloride</b>	<b>4.6</b>		1.0		ug/L			04/11/14 14:35	1
Dibromomethane	ND		1.0		ug/L			04/11/14 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/11/14 14:35	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		04/11/14 14:35	1
4-Bromofluorobenzene (Surr)	100		70 - 130		04/11/14 14:35	1

**Client Sample ID: MW-553-20140407-01**

**Lab Sample ID: 480-57495-19**

Date Collected: 04/07/14 14:30

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/11/14 15:00	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 15:00	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 15:00	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 15:00	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 15:00	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 15:00	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 15:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 15:00	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 15:00	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 15:00	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 15:00	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 15:00	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 15:00	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 15:00	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 15:00	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 15:00	1

TestAmerica Buffalo



# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-553-20140407-01**

**Lab Sample ID: 480-57495-19**

**Date Collected: 04/07/14 14:30**

**Matrix: Water**

**Date Received: 04/09/14 01:30**

**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			04/11/14 15:00	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 15:00	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 15:00	1
1,4-Dioxane	ND		50		ug/L			04/11/14 15:00	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 15:00	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 15:00	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 15:00	1
2-Hexanone	ND	*	10		ug/L			04/11/14 15:00	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 15:00	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 15:00	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 15:00	1
<b>Acetone</b>	<b>160</b>		50		ug/L			04/11/14 15:00	1
Benzene	ND		1.0		ug/L			04/11/14 15:00	1
Bromobenzene	ND		1.0		ug/L			04/11/14 15:00	1
Bromoform	ND		1.0		ug/L			04/11/14 15:00	1
Bromomethane	ND		2.0		ug/L			04/11/14 15:00	1
Carbon disulfide	ND		10		ug/L			04/11/14 15:00	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 15:00	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 15:00	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 15:00	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 15:00	1
Chloroethane	ND		2.0		ug/L			04/11/14 15:00	1
Chloroform	ND		1.0		ug/L			04/11/14 15:00	1
Chloromethane	ND		2.0		ug/L			04/11/14 15:00	1
<b>cis-1,2-Dichloroethene</b>	<b>22</b>		1.0		ug/L			04/11/14 15:00	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 15:00	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 15:00	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 15:00	1
Ethyl ether	ND		1.0		ug/L			04/11/14 15:00	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 15:00	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 15:00	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 15:00	1
Isopropyl ether	ND		10		ug/L			04/11/14 15:00	1
Isopropylbenzene	ND		1.0		ug/L			04/11/14 15:00	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 15:00	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 15:00	1
<b>m-Xylene &amp; p-Xylene</b>	<b>2.6</b>		2.0		ug/L			04/11/14 15:00	1
Naphthalene	ND		5.0		ug/L			04/11/14 15:00	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 15:00	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 15:00	1
o-Xylene	ND		1.0		ug/L			04/11/14 15:00	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 15:00	1
Styrene	ND		1.0		ug/L			04/11/14 15:00	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 15:00	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 15:00	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 15:00	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 15:00	1
<b>Tetrahydrofuran</b>	<b>10</b>		10		ug/L			04/11/14 15:00	1
<b>Toluene</b>	<b>3.9</b>		1.0		ug/L			04/11/14 15:00	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-553-20140407-01**

**Lab Sample ID: 480-57495-19**

Date Collected: 04/07/14 14:30

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>trans-1,2-Dichloroethene</b>	<b>1.8</b>		1.0		ug/L			04/11/14 15:00	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 15:00	1
Trichloroethene	ND		1.0		ug/L			04/11/14 15:00	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 15:00	1
<b>Vinyl chloride</b>	<b>28</b>		1.0		ug/L			04/11/14 15:00	1
Dibromomethane	ND		1.0		ug/L			04/11/14 15:00	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Toluene-d8 (Surr)</i>	98		70 - 130					04/11/14 15:00	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	95		70 - 130					04/11/14 15:00	1
<i>4-Bromofluorobenzene (Surr)</i>	104		70 - 130					04/11/14 15:00	1

**Client Sample ID: MW-560-20140407-01**

**Lab Sample ID: 480-57495-20**

Date Collected: 04/07/14 11:10

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/10/14 20:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/10/14 20:26	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/10/14 20:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/10/14 20:26	1
1,1-Dichloroethane	ND		1.0		ug/L			04/10/14 20:26	1
1,1-Dichloroethene	ND		1.0		ug/L			04/10/14 20:26	1
1,1-Dichloropropene	ND		1.0		ug/L			04/10/14 20:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/10/14 20:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/10/14 20:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/10/14 20:26	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/10/14 20:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/10/14 20:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/10/14 20:26	1
1,2-Dichloroethane	ND		1.0		ug/L			04/10/14 20:26	1
1,2-Dichloropropane	ND		1.0		ug/L			04/10/14 20:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/10/14 20:26	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/10/14 20:26	1
1,3-Dichloropropane	ND		1.0		ug/L			04/10/14 20:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/10/14 20:26	1
1,4-Dioxane	ND		50		ug/L			04/10/14 20:26	1
2,2-Dichloropropane	ND		1.0		ug/L			04/10/14 20:26	1
<b>2-Butanone (MEK)</b>	<b>210</b>	*	10		ug/L			04/10/14 20:26	1
2-Chlorotoluene	ND		1.0		ug/L			04/10/14 20:26	1
2-Hexanone	ND	*	10		ug/L			04/10/14 20:26	1
4-Chlorotoluene	ND		1.0		ug/L			04/10/14 20:26	1
4-Isopropyltoluene	ND		1.0		ug/L			04/10/14 20:26	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/10/14 20:26	1
Acetone	ND		50		ug/L			04/10/14 20:26	1
Benzene	ND		1.0		ug/L			04/10/14 20:26	1
Bromobenzene	ND		1.0		ug/L			04/10/14 20:26	1
Bromoform	ND		1.0		ug/L			04/10/14 20:26	1
Bromomethane	ND		2.0		ug/L			04/10/14 20:26	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-560-20140407-01**

**Lab Sample ID: 480-57495-20**

Date Collected: 04/07/14 11:10

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			04/10/14 20:26	1
Carbon tetrachloride	ND		1.0		ug/L			04/10/14 20:26	1
Chlorobenzene	ND		1.0		ug/L			04/10/14 20:26	1
Chlorobromomethane	ND		1.0		ug/L			04/10/14 20:26	1
Chlorodibromomethane	ND		0.50		ug/L			04/10/14 20:26	1
Chloroethane	ND		2.0		ug/L			04/10/14 20:26	1
Chloroform	ND		1.0		ug/L			04/10/14 20:26	1
Chloromethane	ND		2.0		ug/L			04/10/14 20:26	1
<b>cis-1,2-Dichloroethene</b>	<b>48</b>		1.0		ug/L			04/10/14 20:26	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 20:26	1
Dichlorobromomethane	ND		0.50		ug/L			04/10/14 20:26	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/10/14 20:26	1
Ethyl ether	ND		1.0		ug/L			04/10/14 20:26	1
<b>Ethylbenzene</b>	<b>1.8</b>		1.0		ug/L			04/10/14 20:26	1
Ethylene Dibromide	ND		1.0		ug/L			04/10/14 20:26	1
Hexachlorobutadiene	ND		0.40		ug/L			04/10/14 20:26	1
Isopropyl ether	ND		10		ug/L			04/10/14 20:26	1
Isopropylbenzene	ND		1.0		ug/L			04/10/14 20:26	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/10/14 20:26	1
Methylene Chloride	ND		1.0		ug/L			04/10/14 20:26	1
<b>m-Xylene &amp; p-Xylene</b>	<b>6.9</b>		2.0		ug/L			04/10/14 20:26	1
Naphthalene	ND		5.0		ug/L			04/10/14 20:26	1
n-Butylbenzene	ND		1.0		ug/L			04/10/14 20:26	1
N-Propylbenzene	ND		1.0		ug/L			04/10/14 20:26	1
<b>o-Xylene</b>	<b>1.7</b>		1.0		ug/L			04/10/14 20:26	1
sec-Butylbenzene	ND		1.0		ug/L			04/10/14 20:26	1
Styrene	ND		1.0		ug/L			04/10/14 20:26	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/10/14 20:26	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/10/14 20:26	1
tert-Butylbenzene	ND		1.0		ug/L			04/10/14 20:26	1
Tetrachloroethene	ND		1.0		ug/L			04/10/14 20:26	1
Tetrahydrofuran	ND		10		ug/L			04/10/14 20:26	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/10/14 20:26	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 20:26	1
Trichloroethene	ND		1.0		ug/L			04/10/14 20:26	1
Trichlorofluoromethane	ND		1.0		ug/L			04/10/14 20:26	1
<b>Vinyl chloride</b>	<b>42</b>		1.0		ug/L			04/10/14 20:26	1
Dibromomethane	ND		1.0		ug/L			04/10/14 20:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/10/14 20:26	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		04/10/14 20:26	1
4-Bromofluorobenzene (Surr)	101		70 - 130		04/10/14 20:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Toluene</b>	<b>200</b>		4.0		ug/L			04/11/14 15:26	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/11/14 15:26	4

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-560-20140407-01**

**Lab Sample ID: 480-57495-20**

Date Collected: 04/07/14 11:10

Matrix: Water

Date Received: 04/09/14 01:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		04/11/14 15:26	4
4-Bromofluorobenzene (Surr)	102		70 - 130		04/11/14 15:26	4

**Client Sample ID: MW-561-20140407-01**

**Lab Sample ID: 480-57495-21**

Date Collected: 04/07/14 12:00

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10		ug/L			04/11/14 15:51	10
1,1,1-Trichloroethane	ND		10		ug/L			04/11/14 15:51	10
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			04/11/14 15:51	10
1,1,2-Trichloroethane	ND		10		ug/L			04/11/14 15:51	10
1,1-Dichloroethane	ND		10		ug/L			04/11/14 15:51	10
1,1-Dichloroethene	ND		10		ug/L			04/11/14 15:51	10
1,1-Dichloropropene	ND		10		ug/L			04/11/14 15:51	10
1,2,3-Trichlorobenzene	ND		10		ug/L			04/11/14 15:51	10
1,2,3-Trichloropropane	ND		10		ug/L			04/11/14 15:51	10
1,2,4-Trichlorobenzene	ND		10		ug/L			04/11/14 15:51	10
1,2,4-Trimethylbenzene	ND		10		ug/L			04/11/14 15:51	10
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			04/11/14 15:51	10
1,2-Dichlorobenzene	ND		10		ug/L			04/11/14 15:51	10
1,2-Dichloroethane	ND		10		ug/L			04/11/14 15:51	10
1,2-Dichloropropane	ND		10		ug/L			04/11/14 15:51	10
1,3,5-Trimethylbenzene	ND		10		ug/L			04/11/14 15:51	10
1,3-Dichlorobenzene	ND		10		ug/L			04/11/14 15:51	10
1,3-Dichloropropane	ND		10		ug/L			04/11/14 15:51	10
1,4-Dichlorobenzene	ND		10		ug/L			04/11/14 15:51	10
1,4-Dioxane	ND		500		ug/L			04/11/14 15:51	10
2,2-Dichloropropane	ND		10		ug/L			04/11/14 15:51	10
2-Butanone (MEK)	ND		100		ug/L			04/11/14 15:51	10
2-Chlorotoluene	ND		10		ug/L			04/11/14 15:51	10
2-Hexanone	ND *		100		ug/L			04/11/14 15:51	10
4-Chlorotoluene	ND		10		ug/L			04/11/14 15:51	10
4-Isopropyltoluene	ND		10		ug/L			04/11/14 15:51	10
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			04/11/14 15:51	10
Acetone	ND		500		ug/L			04/11/14 15:51	10
Benzene	ND		10		ug/L			04/11/14 15:51	10
Bromobenzene	ND		10		ug/L			04/11/14 15:51	10
Bromoform	ND		10		ug/L			04/11/14 15:51	10
Bromomethane	ND		20		ug/L			04/11/14 15:51	10
Carbon disulfide	ND		100		ug/L			04/11/14 15:51	10
Carbon tetrachloride	ND		10		ug/L			04/11/14 15:51	10
Chlorobenzene	ND		10		ug/L			04/11/14 15:51	10
Chlorobromomethane	ND		10		ug/L			04/11/14 15:51	10
Chlorodibromomethane	ND		5.0		ug/L			04/11/14 15:51	10
Chloroethane	ND		20		ug/L			04/11/14 15:51	10
Chloroform	ND		10		ug/L			04/11/14 15:51	10
Chloromethane	ND		20		ug/L			04/11/14 15:51	10

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-561-20140407-01**

**Lab Sample ID: 480-57495-21**

Date Collected: 04/07/14 12:00

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		10		ug/L			04/11/14 15:51	10
cis-1,3-Dichloropropene	ND		4.0		ug/L			04/11/14 15:51	10
Dichlorobromomethane	ND		5.0		ug/L			04/11/14 15:51	10
Dichlorodifluoromethane	ND		10		ug/L			04/11/14 15:51	10
Ethyl ether	ND		10		ug/L			04/11/14 15:51	10
Ethylbenzene	ND		10		ug/L			04/11/14 15:51	10
Ethylene Dibromide	ND		10		ug/L			04/11/14 15:51	10
Hexachlorobutadiene	ND		4.0		ug/L			04/11/14 15:51	10
Isopropyl ether	ND		100		ug/L			04/11/14 15:51	10
Isopropylbenzene	ND		10		ug/L			04/11/14 15:51	10
Methyl tert-butyl ether	ND		10		ug/L			04/11/14 15:51	10
Methylene Chloride	ND		10		ug/L			04/11/14 15:51	10
<b>m-Xylene &amp; p-Xylene</b>	<b>21</b>		20		ug/L			04/11/14 15:51	10
Naphthalene	ND		50		ug/L			04/11/14 15:51	10
n-Butylbenzene	ND		10		ug/L			04/11/14 15:51	10
N-Propylbenzene	ND		10		ug/L			04/11/14 15:51	10
o-Xylene	ND		10		ug/L			04/11/14 15:51	10
sec-Butylbenzene	ND		10		ug/L			04/11/14 15:51	10
Styrene	ND		10		ug/L			04/11/14 15:51	10
Tert-amyl methyl ether	ND		50		ug/L			04/11/14 15:51	10
Tert-butyl ethyl ether	ND		50		ug/L			04/11/14 15:51	10
tert-Butylbenzene	ND		10		ug/L			04/11/14 15:51	10
Tetrachloroethene	ND		10		ug/L			04/11/14 15:51	10
Tetrahydrofuran	ND		100		ug/L			04/11/14 15:51	10
<b>Toluene</b>	<b>600</b>		10		ug/L			04/11/14 15:51	10
trans-1,2-Dichloroethene	ND		10		ug/L			04/11/14 15:51	10
trans-1,3-Dichloropropene	ND		4.0		ug/L			04/11/14 15:51	10
Trichloroethene	ND		10		ug/L			04/11/14 15:51	10
Trichlorofluoromethane	ND		10		ug/L			04/11/14 15:51	10
<b>Vinyl chloride</b>	<b>84</b>		10		ug/L			04/11/14 15:51	10
Dibromomethane	ND		10		ug/L			04/11/14 15:51	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/11/14 15:51	10
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		04/11/14 15:51	10
4-Bromofluorobenzene (Surr)	98		70 - 130		04/11/14 15:51	10

**Client Sample ID: MW-562-20140407-01**

**Lab Sample ID: 480-57495-22**

Date Collected: 04/07/14 13:30

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/11/14 02:04	2
1,1,1-Trichloroethane	ND		2.0		ug/L			04/11/14 02:04	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/11/14 02:04	2
1,1,2-Trichloroethane	ND		2.0		ug/L			04/11/14 02:04	2
1,1-Dichloroethane	ND		2.0		ug/L			04/11/14 02:04	2
1,1-Dichloroethene	ND		2.0		ug/L			04/11/14 02:04	2
1,1-Dichloropropene	ND		2.0		ug/L			04/11/14 02:04	2

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-562-20140407-01**

**Lab Sample ID: 480-57495-22**

Date Collected: 04/07/14 13:30

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		2.0		ug/L			04/11/14 02:04	2
1,2,3-Trichloropropane	ND		2.0		ug/L			04/11/14 02:04	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			04/11/14 02:04	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			04/11/14 02:04	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			04/11/14 02:04	2
1,2-Dichlorobenzene	ND		2.0		ug/L			04/11/14 02:04	2
1,2-Dichloroethane	ND		2.0		ug/L			04/11/14 02:04	2
1,2-Dichloropropane	ND		2.0		ug/L			04/11/14 02:04	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			04/11/14 02:04	2
1,3-Dichlorobenzene	ND		2.0		ug/L			04/11/14 02:04	2
1,3-Dichloropropane	ND		2.0		ug/L			04/11/14 02:04	2
1,4-Dichlorobenzene	ND		2.0		ug/L			04/11/14 02:04	2
1,4-Dioxane	ND *		100		ug/L			04/11/14 02:04	2
2,2-Dichloropropane	ND		2.0		ug/L			04/11/14 02:04	2
<b>2-Butanone (MEK)</b>	<b>150</b>		20		ug/L			04/11/14 02:04	2
2-Chlorotoluene	ND		2.0		ug/L			04/11/14 02:04	2
2-Hexanone	ND *		20		ug/L			04/11/14 02:04	2
4-Chlorotoluene	ND		2.0		ug/L			04/11/14 02:04	2
4-Isopropyltoluene	ND		2.0		ug/L			04/11/14 02:04	2
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			04/11/14 02:04	2
Benzene	ND		2.0		ug/L			04/11/14 02:04	2
Bromobenzene	ND		2.0		ug/L			04/11/14 02:04	2
Bromoform	ND		2.0		ug/L			04/11/14 02:04	2
Bromomethane	ND		4.0		ug/L			04/11/14 02:04	2
Carbon disulfide	ND		20		ug/L			04/11/14 02:04	2
Carbon tetrachloride	ND		2.0		ug/L			04/11/14 02:04	2
Chlorobenzene	ND		2.0		ug/L			04/11/14 02:04	2
Chlorobromomethane	ND		2.0		ug/L			04/11/14 02:04	2
Chlorodibromomethane	ND		1.0		ug/L			04/11/14 02:04	2
Chloroethane	ND		4.0		ug/L			04/11/14 02:04	2
Chloroform	ND		2.0		ug/L			04/11/14 02:04	2
Chloromethane	ND		4.0		ug/L			04/11/14 02:04	2
cis-1,2-Dichloroethene	ND		2.0		ug/L			04/11/14 02:04	2
cis-1,3-Dichloropropene	ND		0.80		ug/L			04/11/14 02:04	2
Dichlorobromomethane	ND		1.0		ug/L			04/11/14 02:04	2
Dichlorodifluoromethane	ND		2.0		ug/L			04/11/14 02:04	2
Ethyl ether	ND		2.0		ug/L			04/11/14 02:04	2
<b>Ethylbenzene</b>	<b>6.6</b>		2.0		ug/L			04/11/14 02:04	2
Ethylene Dibromide	ND		2.0		ug/L			04/11/14 02:04	2
Hexachlorobutadiene	ND		0.80		ug/L			04/11/14 02:04	2
Isopropyl ether	ND		20		ug/L			04/11/14 02:04	2
Isopropylbenzene	ND		2.0		ug/L			04/11/14 02:04	2
Methyl tert-butyl ether	ND		2.0		ug/L			04/11/14 02:04	2
Methylene Chloride	ND		2.0		ug/L			04/11/14 02:04	2
<b>m-Xylene &amp; p-Xylene</b>	<b>23</b>		4.0		ug/L			04/11/14 02:04	2
Naphthalene	ND		10		ug/L			04/11/14 02:04	2
n-Butylbenzene	ND		2.0		ug/L			04/11/14 02:04	2
N-Propylbenzene	ND		2.0		ug/L			04/11/14 02:04	2
<b>o-Xylene</b>	<b>7.2</b>		2.0		ug/L			04/11/14 02:04	2

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-562-20140407-01**

**Lab Sample ID: 480-57495-22**

Date Collected: 04/07/14 13:30

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		2.0		ug/L			04/11/14 02:04	2
Styrene	ND		2.0		ug/L			04/11/14 02:04	2
Tert-amyl methyl ether	ND		10		ug/L			04/11/14 02:04	2
Tert-butyl ethyl ether	ND		10		ug/L			04/11/14 02:04	2
tert-Butylbenzene	ND		2.0		ug/L			04/11/14 02:04	2
Tetrachloroethene	ND		2.0		ug/L			04/11/14 02:04	2
Tetrahydrofuran	ND		20		ug/L			04/11/14 02:04	2
<b>Toluene</b>	<b>46</b>		2.0		ug/L			04/11/14 02:04	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			04/11/14 02:04	2
trans-1,3-Dichloropropene	ND		0.80		ug/L			04/11/14 02:04	2
Trichloroethene	ND		2.0		ug/L			04/11/14 02:04	2
Trichlorofluoromethane	ND		2.0		ug/L			04/11/14 02:04	2
Vinyl chloride	ND		2.0		ug/L			04/11/14 02:04	2
Dibromomethane	ND		2.0		ug/L			04/11/14 02:04	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130					04/11/14 02:04	2
1,2-Dichloroethane-d4 (Surr)	94		70 - 130					04/11/14 02:04	2
4-Bromofluorobenzene (Surr)	104		70 - 130					04/11/14 02:04	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>910</b>		200		ug/L			04/11/14 16:16	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130					04/11/14 16:16	4
1,2-Dichloroethane-d4 (Surr)	97		70 - 130					04/11/14 16:16	4
4-Bromofluorobenzene (Surr)	102		70 - 130					04/11/14 16:16	4

**Client Sample ID: MW-563-20140407-01**

**Lab Sample ID: 480-57495-23**

Date Collected: 04/07/14 10:20

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/11/14 02:29	4
1,1,1-Trichloroethane	ND		4.0		ug/L			04/11/14 02:29	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			04/11/14 02:29	4
1,1,2-Trichloroethane	ND		4.0		ug/L			04/11/14 02:29	4
1,1-Dichloroethane	ND		4.0		ug/L			04/11/14 02:29	4
1,1-Dichloroethene	ND		4.0		ug/L			04/11/14 02:29	4
1,1-Dichloropropene	ND		4.0		ug/L			04/11/14 02:29	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			04/11/14 02:29	4
1,2,3-Trichloropropane	ND		4.0		ug/L			04/11/14 02:29	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			04/11/14 02:29	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			04/11/14 02:29	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			04/11/14 02:29	4
1,2-Dichlorobenzene	ND		4.0		ug/L			04/11/14 02:29	4
1,2-Dichloroethane	ND		4.0		ug/L			04/11/14 02:29	4
1,2-Dichloropropane	ND		4.0		ug/L			04/11/14 02:29	4

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-563-20140407-01**

**Lab Sample ID: 480-57495-23**

**Date Collected: 04/07/14 10:20**

**Matrix: Water**

**Date Received: 04/09/14 01:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		4.0		ug/L			04/11/14 02:29	4
1,3-Dichlorobenzene	ND		4.0		ug/L			04/11/14 02:29	4
1,3-Dichloropropane	ND		4.0		ug/L			04/11/14 02:29	4
1,4-Dichlorobenzene	ND		4.0		ug/L			04/11/14 02:29	4
1,4-Dioxane	ND	*	200		ug/L			04/11/14 02:29	4
2,2-Dichloropropane	ND		4.0		ug/L			04/11/14 02:29	4
<b>2-Butanone (MEK)</b>	<b>150</b>		40		ug/L			04/11/14 02:29	4
2-Chlorotoluene	ND		4.0		ug/L			04/11/14 02:29	4
2-Hexanone	ND	*	40		ug/L			04/11/14 02:29	4
4-Chlorotoluene	ND		4.0		ug/L			04/11/14 02:29	4
4-Isopropyltoluene	ND		4.0		ug/L			04/11/14 02:29	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			04/11/14 02:29	4
Acetone	ND		200		ug/L			04/11/14 02:29	4
Benzene	ND		4.0		ug/L			04/11/14 02:29	4
Bromobenzene	ND		4.0		ug/L			04/11/14 02:29	4
Bromoform	ND		4.0		ug/L			04/11/14 02:29	4
Bromomethane	ND		8.0		ug/L			04/11/14 02:29	4
Carbon disulfide	ND		40		ug/L			04/11/14 02:29	4
Carbon tetrachloride	ND		4.0		ug/L			04/11/14 02:29	4
Chlorobenzene	ND		4.0		ug/L			04/11/14 02:29	4
Chlorobromomethane	ND		4.0		ug/L			04/11/14 02:29	4
Chlorodibromomethane	ND		2.0		ug/L			04/11/14 02:29	4
Chloroethane	ND		8.0		ug/L			04/11/14 02:29	4
Chloroform	ND		4.0		ug/L			04/11/14 02:29	4
Chloromethane	ND		8.0		ug/L			04/11/14 02:29	4
<b>cis-1,2-Dichloroethene</b>	<b>190</b>		4.0		ug/L			04/11/14 02:29	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			04/11/14 02:29	4
Dichlorobromomethane	ND		2.0		ug/L			04/11/14 02:29	4
Dichlorodifluoromethane	ND		4.0		ug/L			04/11/14 02:29	4
Ethyl ether	ND		4.0		ug/L			04/11/14 02:29	4
Ethylbenzene	ND		4.0		ug/L			04/11/14 02:29	4
Ethylene Dibromide	ND		4.0		ug/L			04/11/14 02:29	4
Hexachlorobutadiene	ND		1.6		ug/L			04/11/14 02:29	4
Isopropyl ether	ND		40		ug/L			04/11/14 02:29	4
Isopropylbenzene	ND		4.0		ug/L			04/11/14 02:29	4
Methyl tert-butyl ether	ND		4.0		ug/L			04/11/14 02:29	4
Methylene Chloride	ND		4.0		ug/L			04/11/14 02:29	4
<b>m-Xylene &amp; p-Xylene</b>	<b>11</b>		8.0		ug/L			04/11/14 02:29	4
Naphthalene	ND		20		ug/L			04/11/14 02:29	4
n-Butylbenzene	ND		4.0		ug/L			04/11/14 02:29	4
N-Propylbenzene	ND		4.0		ug/L			04/11/14 02:29	4
o-Xylene	ND		4.0		ug/L			04/11/14 02:29	4
sec-Butylbenzene	ND		4.0		ug/L			04/11/14 02:29	4
Styrene	ND		4.0		ug/L			04/11/14 02:29	4
Tert-amyl methyl ether	ND		20		ug/L			04/11/14 02:29	4
Tert-butyl ethyl ether	ND		20		ug/L			04/11/14 02:29	4
tert-Butylbenzene	ND		4.0		ug/L			04/11/14 02:29	4
Tetrachloroethene	ND		4.0		ug/L			04/11/14 02:29	4
Tetrahydrofuran	ND		40		ug/L			04/11/14 02:29	4

TestAmerica Buffalo



# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-563-20140407-01**

**Lab Sample ID: 480-57495-23**

Date Collected: 04/07/14 10:20

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Toluene</b>	<b>37</b>		4.0		ug/L			04/11/14 02:29	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			04/11/14 02:29	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			04/11/14 02:29	4
Trichloroethene	ND		4.0		ug/L			04/11/14 02:29	4
Trichlorofluoromethane	ND		4.0		ug/L			04/11/14 02:29	4
<b>Vinyl chloride</b>	<b>90</b>		4.0		ug/L			04/11/14 02:29	4
Dibromomethane	ND		4.0		ug/L			04/11/14 02:29	4
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>Toluene-d8 (Surr)</i>	97		70 - 130					04/11/14 02:29	4
<i>1,2-Dichloroethane-d4 (Surr)</i>	94		70 - 130					04/11/14 02:29	4
<i>4-Bromofluorobenzene (Surr)</i>	100		70 - 130					04/11/14 02:29	4

**Client Sample ID: REW-1-20140406-01**

**Lab Sample ID: 480-57495-24**

Date Collected: 04/06/14 13:45

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/11/14 16:42	5
1,1,1-Trichloroethane	ND		5.0		ug/L			04/11/14 16:42	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			04/11/14 16:42	5
1,1,2-Trichloroethane	ND		5.0		ug/L			04/11/14 16:42	5
1,1-Dichloroethane	ND		5.0		ug/L			04/11/14 16:42	5
1,1-Dichloroethene	ND		5.0		ug/L			04/11/14 16:42	5
1,1-Dichloropropene	ND		5.0		ug/L			04/11/14 16:42	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			04/11/14 16:42	5
1,2,3-Trichloropropane	ND		5.0		ug/L			04/11/14 16:42	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			04/11/14 16:42	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			04/11/14 16:42	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			04/11/14 16:42	5
1,2-Dichlorobenzene	ND		5.0		ug/L			04/11/14 16:42	5
1,2-Dichloroethane	ND		5.0		ug/L			04/11/14 16:42	5
1,2-Dichloropropane	ND		5.0		ug/L			04/11/14 16:42	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			04/11/14 16:42	5
1,3-Dichlorobenzene	ND		5.0		ug/L			04/11/14 16:42	5
1,3-Dichloropropane	ND		5.0		ug/L			04/11/14 16:42	5
1,4-Dichlorobenzene	ND		5.0		ug/L			04/11/14 16:42	5
1,4-Dioxane	ND		250		ug/L			04/11/14 16:42	5
2,2-Dichloropropane	ND		5.0		ug/L			04/11/14 16:42	5
2-Butanone (MEK)	ND		50		ug/L			04/11/14 16:42	5
2-Chlorotoluene	ND		5.0		ug/L			04/11/14 16:42	5
2-Hexanone	ND *		50		ug/L			04/11/14 16:42	5
4-Chlorotoluene	ND		5.0		ug/L			04/11/14 16:42	5
4-Isopropyltoluene	ND		5.0		ug/L			04/11/14 16:42	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			04/11/14 16:42	5
<b>Acetone</b>	<b>1500</b>		250		ug/L			04/11/14 16:42	5
Benzene	ND		5.0		ug/L			04/11/14 16:42	5
Bromobenzene	ND		5.0		ug/L			04/11/14 16:42	5
Bromoform	ND		5.0		ug/L			04/11/14 16:42	5

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: REW-1-20140406-01**

**Lab Sample ID: 480-57495-24**

Date Collected: 04/06/14 13:45

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		10		ug/L			04/11/14 16:42	5
Carbon disulfide	ND		50		ug/L			04/11/14 16:42	5
Carbon tetrachloride	ND		5.0		ug/L			04/11/14 16:42	5
Chlorobenzene	ND		5.0		ug/L			04/11/14 16:42	5
Chlorobromomethane	ND		5.0		ug/L			04/11/14 16:42	5
Chlorodibromomethane	ND		2.5		ug/L			04/11/14 16:42	5
Chloroethane	ND		10		ug/L			04/11/14 16:42	5
Chloroform	ND		5.0		ug/L			04/11/14 16:42	5
Chloromethane	ND		10		ug/L			04/11/14 16:42	5
<b>cis-1,2-Dichloroethene</b>	<b>6.0</b>		5.0		ug/L			04/11/14 16:42	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			04/11/14 16:42	5
Dichlorobromomethane	ND		2.5		ug/L			04/11/14 16:42	5
Dichlorodifluoromethane	ND		5.0		ug/L			04/11/14 16:42	5
Ethyl ether	ND		5.0		ug/L			04/11/14 16:42	5
Ethylbenzene	ND		5.0		ug/L			04/11/14 16:42	5
Ethylene Dibromide	ND		5.0		ug/L			04/11/14 16:42	5
Hexachlorobutadiene	ND		2.0		ug/L			04/11/14 16:42	5
Isopropyl ether	ND		50		ug/L			04/11/14 16:42	5
Isopropylbenzene	ND		5.0		ug/L			04/11/14 16:42	5
Methyl tert-butyl ether	ND		5.0		ug/L			04/11/14 16:42	5
Methylene Chloride	ND		5.0		ug/L			04/11/14 16:42	5
m-Xylene & p-Xylene	ND		10		ug/L			04/11/14 16:42	5
Naphthalene	ND		25		ug/L			04/11/14 16:42	5
n-Butylbenzene	ND		5.0		ug/L			04/11/14 16:42	5
N-Propylbenzene	ND		5.0		ug/L			04/11/14 16:42	5
o-Xylene	ND		5.0		ug/L			04/11/14 16:42	5
sec-Butylbenzene	ND		5.0		ug/L			04/11/14 16:42	5
Styrene	ND		5.0		ug/L			04/11/14 16:42	5
Tert-amyl methyl ether	ND		25		ug/L			04/11/14 16:42	5
Tert-butyl ethyl ether	ND		25		ug/L			04/11/14 16:42	5
tert-Butylbenzene	ND		5.0		ug/L			04/11/14 16:42	5
Tetrachloroethene	ND		5.0		ug/L			04/11/14 16:42	5
Tetrahydrofuran	ND		50		ug/L			04/11/14 16:42	5
Toluene	ND		5.0		ug/L			04/11/14 16:42	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			04/11/14 16:42	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			04/11/14 16:42	5
Trichloroethene	ND		5.0		ug/L			04/11/14 16:42	5
Trichlorofluoromethane	ND		5.0		ug/L			04/11/14 16:42	5
Vinyl chloride	ND		5.0		ug/L			04/11/14 16:42	5
Dibromomethane	ND		5.0		ug/L			04/11/14 16:42	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/11/14 16:42	5
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		04/11/14 16:42	5
4-Bromofluorobenzene (Surr)	99		70 - 130		04/11/14 16:42	5

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: REW-4-20140406-01**

**Lab Sample ID: 480-57495-25**

Date Collected: 04/06/14 15:20

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/11/14 17:07	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 17:07	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 17:07	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 17:07	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 17:07	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 17:07	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 17:07	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 17:07	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 17:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 17:07	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 17:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 17:07	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 17:07	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 17:07	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 17:07	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 17:07	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 17:07	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 17:07	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 17:07	1
1,4-Dioxane	ND		50		ug/L			04/11/14 17:07	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 17:07	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 17:07	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 17:07	1
2-Hexanone	ND *		10		ug/L			04/11/14 17:07	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 17:07	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 17:07	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 17:07	1
Acetone	ND		50		ug/L			04/11/14 17:07	1
Benzene	ND		1.0		ug/L			04/11/14 17:07	1
Bromobenzene	ND		1.0		ug/L			04/11/14 17:07	1
Bromoform	ND		1.0		ug/L			04/11/14 17:07	1
Bromomethane	ND		2.0		ug/L			04/11/14 17:07	1
Carbon disulfide	ND		10		ug/L			04/11/14 17:07	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 17:07	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 17:07	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 17:07	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 17:07	1
Chloroethane	ND		2.0		ug/L			04/11/14 17:07	1
Chloroform	ND		1.0		ug/L			04/11/14 17:07	1
Chloromethane	ND		2.0		ug/L			04/11/14 17:07	1
<b>cis-1,2-Dichloroethene</b>	<b>7.6</b>		1.0		ug/L			04/11/14 17:07	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 17:07	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 17:07	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 17:07	1
Ethyl ether	ND		1.0		ug/L			04/11/14 17:07	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 17:07	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 17:07	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 17:07	1
Isopropyl ether	ND		10		ug/L			04/11/14 17:07	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: REW-4-20140406-01**

**Lab Sample ID: 480-57495-25**

Date Collected: 04/06/14 15:20

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/11/14 17:07	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 17:07	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 17:07	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 17:07	1
Naphthalene	ND		5.0		ug/L			04/11/14 17:07	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 17:07	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 17:07	1
o-Xylene	ND		1.0		ug/L			04/11/14 17:07	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 17:07	1
Styrene	ND		1.0		ug/L			04/11/14 17:07	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 17:07	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 17:07	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 17:07	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 17:07	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 17:07	1
Toluene	ND		1.0		ug/L			04/11/14 17:07	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 17:07	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 17:07	1
Trichloroethene	ND		1.0		ug/L			04/11/14 17:07	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 17:07	1
<b>Vinyl chloride</b>	<b>4.0</b>		1.0		ug/L			04/11/14 17:07	1
Dibromomethane	ND		1.0		ug/L			04/11/14 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130		04/11/14 17:07	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		04/11/14 17:07	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/11/14 17:07	1

**Client Sample ID: REW-5-20140406-01**

**Lab Sample ID: 480-57495-26**

Date Collected: 04/06/14 14:30

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/11/14 17:33	1
1,1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 17:33	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 17:33	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 17:33	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 17:33	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 17:33	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 17:33	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 17:33	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 17:33	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 17:33	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 17:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 17:33	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 17:33	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 17:33	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 17:33	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 17:33	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: REW-5-20140406-01**

**Lab Sample ID: 480-57495-26**

**Date Collected: 04/06/14 14:30**

**Matrix: Water**

**Date Received: 04/09/14 01:30**

**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			04/11/14 17:33	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 17:33	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 17:33	1
1,4-Dioxane	ND		50		ug/L			04/11/14 17:33	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 17:33	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 17:33	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 17:33	1
2-Hexanone	ND	*	10		ug/L			04/11/14 17:33	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 17:33	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 17:33	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 17:33	1
Acetone	ND		50		ug/L			04/11/14 17:33	1
Benzene	ND		1.0		ug/L			04/11/14 17:33	1
Bromobenzene	ND		1.0		ug/L			04/11/14 17:33	1
Bromoform	ND		1.0		ug/L			04/11/14 17:33	1
Bromomethane	ND		2.0		ug/L			04/11/14 17:33	1
Carbon disulfide	ND		10		ug/L			04/11/14 17:33	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 17:33	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 17:33	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 17:33	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 17:33	1
Chloroethane	ND		2.0		ug/L			04/11/14 17:33	1
Chloroform	ND		1.0		ug/L			04/11/14 17:33	1
Chloromethane	ND		2.0		ug/L			04/11/14 17:33	1
<b>cis-1,2-Dichloroethene</b>	<b>62</b>		1.0		ug/L			04/11/14 17:33	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 17:33	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 17:33	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 17:33	1
Ethyl ether	ND		1.0		ug/L			04/11/14 17:33	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 17:33	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 17:33	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 17:33	1
Isopropyl ether	ND		10		ug/L			04/11/14 17:33	1
Isopropylbenzene	ND		1.0		ug/L			04/11/14 17:33	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 17:33	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 17:33	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 17:33	1
Naphthalene	ND		5.0		ug/L			04/11/14 17:33	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 17:33	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 17:33	1
o-Xylene	ND		1.0		ug/L			04/11/14 17:33	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 17:33	1
Styrene	ND		1.0		ug/L			04/11/14 17:33	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 17:33	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 17:33	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 17:33	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 17:33	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 17:33	1
<b>Toluene</b>	<b>3.2</b>		1.0		ug/L			04/11/14 17:33	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: REW-5-20140406-01**

**Lab Sample ID: 480-57495-26**

Date Collected: 04/06/14 14:30

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/11/14 17:33	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 17:33	1
<b>Trichloroethene</b>	<b>5.4</b>		1.0		ug/L			04/11/14 17:33	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 17:33	1
<b>Vinyl chloride</b>	<b>3.8</b>		1.0		ug/L			04/11/14 17:33	1
Dibromomethane	ND		1.0		ug/L			04/11/14 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130					04/11/14 17:33	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130					04/11/14 17:33	1
4-Bromofluorobenzene (Surr)	100		70 - 130					04/11/14 17:33	1

**Client Sample ID: REW-6-20140406-01**

**Lab Sample ID: 480-57495-27**

Date Collected: 04/06/14 09:05

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/11/14 04:10	5
1,1,1-Trichloroethane	ND		5.0		ug/L			04/11/14 04:10	5
1,1,2,2-Tetrachloroethane	ND		2.5		ug/L			04/11/14 04:10	5
1,1,2-Trichloroethane	ND		5.0		ug/L			04/11/14 04:10	5
1,1-Dichloroethane	ND		5.0		ug/L			04/11/14 04:10	5
1,1-Dichloroethene	ND		5.0		ug/L			04/11/14 04:10	5
1,1-Dichloropropene	ND		5.0		ug/L			04/11/14 04:10	5
1,2,3-Trichlorobenzene	ND		5.0		ug/L			04/11/14 04:10	5
1,2,3-Trichloropropane	ND		5.0		ug/L			04/11/14 04:10	5
1,2,4-Trichlorobenzene	ND		5.0		ug/L			04/11/14 04:10	5
1,2,4-Trimethylbenzene	ND		5.0		ug/L			04/11/14 04:10	5
1,2-Dibromo-3-Chloropropane	ND		25		ug/L			04/11/14 04:10	5
1,2-Dichlorobenzene	ND		5.0		ug/L			04/11/14 04:10	5
1,2-Dichloroethane	ND		5.0		ug/L			04/11/14 04:10	5
1,2-Dichloropropane	ND		5.0		ug/L			04/11/14 04:10	5
1,3,5-Trimethylbenzene	ND		5.0		ug/L			04/11/14 04:10	5
1,3-Dichlorobenzene	ND		5.0		ug/L			04/11/14 04:10	5
1,3-Dichloropropane	ND		5.0		ug/L			04/11/14 04:10	5
1,4-Dichlorobenzene	ND		5.0		ug/L			04/11/14 04:10	5
1,4-Dioxane	ND	*	250		ug/L			04/11/14 04:10	5
2,2-Dichloropropane	ND		5.0		ug/L			04/11/14 04:10	5
2-Butanone (MEK)	ND		50		ug/L			04/11/14 04:10	5
2-Chlorotoluene	ND		5.0		ug/L			04/11/14 04:10	5
2-Hexanone	ND	*	50		ug/L			04/11/14 04:10	5
4-Chlorotoluene	ND		5.0		ug/L			04/11/14 04:10	5
4-Isopropyltoluene	ND		5.0		ug/L			04/11/14 04:10	5
4-Methyl-2-pentanone (MIBK)	ND		50		ug/L			04/11/14 04:10	5
Acetone	ND		250		ug/L			04/11/14 04:10	5
Benzene	ND		5.0		ug/L			04/11/14 04:10	5
Bromobenzene	ND		5.0		ug/L			04/11/14 04:10	5
Bromoform	ND		5.0		ug/L			04/11/14 04:10	5
Bromomethane	ND		10		ug/L			04/11/14 04:10	5

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# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: REW-6-20140406-01**

**Lab Sample ID: 480-57495-27**

Date Collected: 04/06/14 09:05

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/11/14 04:10	5
Carbon tetrachloride	ND		5.0		ug/L			04/11/14 04:10	5
Chlorobenzene	ND		5.0		ug/L			04/11/14 04:10	5
Chlorobromomethane	ND		5.0		ug/L			04/11/14 04:10	5
Chlorodibromomethane	ND		2.5		ug/L			04/11/14 04:10	5
Chloroethane	ND		10		ug/L			04/11/14 04:10	5
Chloroform	ND		5.0		ug/L			04/11/14 04:10	5
Chloromethane	ND		10		ug/L			04/11/14 04:10	5
<b>cis-1,2-Dichloroethene</b>	<b>370</b>		5.0		ug/L			04/11/14 04:10	5
cis-1,3-Dichloropropene	ND		2.0		ug/L			04/11/14 04:10	5
Dichlorobromomethane	ND		2.5		ug/L			04/11/14 04:10	5
Dichlorodifluoromethane	ND		5.0		ug/L			04/11/14 04:10	5
Ethyl ether	ND		5.0		ug/L			04/11/14 04:10	5
Ethylbenzene	ND		5.0		ug/L			04/11/14 04:10	5
Ethylene Dibromide	ND		5.0		ug/L			04/11/14 04:10	5
Hexachlorobutadiene	ND		2.0		ug/L			04/11/14 04:10	5
Isopropyl ether	ND		50		ug/L			04/11/14 04:10	5
Isopropylbenzene	ND		5.0		ug/L			04/11/14 04:10	5
Methyl tert-butyl ether	ND		5.0		ug/L			04/11/14 04:10	5
Methylene Chloride	ND		5.0		ug/L			04/11/14 04:10	5
m-Xylene & p-Xylene	ND		10		ug/L			04/11/14 04:10	5
Naphthalene	ND		25		ug/L			04/11/14 04:10	5
n-Butylbenzene	ND		5.0		ug/L			04/11/14 04:10	5
N-Propylbenzene	ND		5.0		ug/L			04/11/14 04:10	5
o-Xylene	ND		5.0		ug/L			04/11/14 04:10	5
sec-Butylbenzene	ND		5.0		ug/L			04/11/14 04:10	5
Styrene	ND		5.0		ug/L			04/11/14 04:10	5
Tert-amyl methyl ether	ND		25		ug/L			04/11/14 04:10	5
Tert-butyl ethyl ether	ND		25		ug/L			04/11/14 04:10	5
tert-Butylbenzene	ND		5.0		ug/L			04/11/14 04:10	5
Tetrachloroethene	ND		5.0		ug/L			04/11/14 04:10	5
Tetrahydrofuran	ND		50		ug/L			04/11/14 04:10	5
<b>Toluene</b>	<b>170</b>		5.0		ug/L			04/11/14 04:10	5
trans-1,2-Dichloroethene	ND		5.0		ug/L			04/11/14 04:10	5
trans-1,3-Dichloropropene	ND		2.0		ug/L			04/11/14 04:10	5
<b>Trichloroethene</b>	<b>50</b>		5.0		ug/L			04/11/14 04:10	5
Trichlorofluoromethane	ND		5.0		ug/L			04/11/14 04:10	5
<b>Vinyl chloride</b>	<b>19</b>		5.0		ug/L			04/11/14 04:10	5
Dibromomethane	ND		5.0		ug/L			04/11/14 04:10	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/11/14 04:10	5
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		04/11/14 04:10	5
4-Bromofluorobenzene (Surr)	99		70 - 130		04/11/14 04:10	5

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: REW-7-20140406-01**

**Lab Sample ID: 480-57495-28**

Date Collected: 04/06/14 09:35

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10		ug/L			04/11/14 04:36	10
1,1,1-Trichloroethane	ND		10		ug/L			04/11/14 04:36	10
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			04/11/14 04:36	10
1,1,2-Trichloroethane	ND		10		ug/L			04/11/14 04:36	10
1,1-Dichloroethane	ND		10		ug/L			04/11/14 04:36	10
1,1-Dichloroethene	ND		10		ug/L			04/11/14 04:36	10
1,1-Dichloropropene	ND		10		ug/L			04/11/14 04:36	10
1,2,3-Trichlorobenzene	ND		10		ug/L			04/11/14 04:36	10
1,2,3-Trichloropropane	ND		10		ug/L			04/11/14 04:36	10
1,2,4-Trichlorobenzene	ND		10		ug/L			04/11/14 04:36	10
1,2,4-Trimethylbenzene	ND		10		ug/L			04/11/14 04:36	10
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			04/11/14 04:36	10
1,2-Dichlorobenzene	ND		10		ug/L			04/11/14 04:36	10
1,2-Dichloroethane	ND		10		ug/L			04/11/14 04:36	10
1,2-Dichloropropane	ND		10		ug/L			04/11/14 04:36	10
1,3,5-Trimethylbenzene	ND		10		ug/L			04/11/14 04:36	10
1,3-Dichlorobenzene	ND		10		ug/L			04/11/14 04:36	10
1,3-Dichloropropane	ND		10		ug/L			04/11/14 04:36	10
1,4-Dichlorobenzene	ND		10		ug/L			04/11/14 04:36	10
1,4-Dioxane	ND *		500		ug/L			04/11/14 04:36	10
2,2-Dichloropropane	ND		10		ug/L			04/11/14 04:36	10
2-Butanone (MEK)	ND		100		ug/L			04/11/14 04:36	10
2-Chlorotoluene	ND		10		ug/L			04/11/14 04:36	10
2-Hexanone	ND *		100		ug/L			04/11/14 04:36	10
4-Chlorotoluene	ND		10		ug/L			04/11/14 04:36	10
4-Isopropyltoluene	ND		10		ug/L			04/11/14 04:36	10
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			04/11/14 04:36	10
Acetone	ND		500		ug/L			04/11/14 04:36	10
Benzene	ND		10		ug/L			04/11/14 04:36	10
Bromobenzene	ND		10		ug/L			04/11/14 04:36	10
Bromoform	ND		10		ug/L			04/11/14 04:36	10
Bromomethane	ND		20		ug/L			04/11/14 04:36	10
Carbon disulfide	ND		100		ug/L			04/11/14 04:36	10
Carbon tetrachloride	ND		10		ug/L			04/11/14 04:36	10
Chlorobenzene	ND		10		ug/L			04/11/14 04:36	10
Chlorobromomethane	ND		10		ug/L			04/11/14 04:36	10
Chlorodibromomethane	ND		5.0		ug/L			04/11/14 04:36	10
Chloroethane	ND		20		ug/L			04/11/14 04:36	10
Chloroform	ND		10		ug/L			04/11/14 04:36	10
Chloromethane	ND		20		ug/L			04/11/14 04:36	10
<b>cis-1,2-Dichloroethene</b>	<b>660</b>		10		ug/L			04/11/14 04:36	10
cis-1,3-Dichloropropene	ND		4.0		ug/L			04/11/14 04:36	10
Dichlorobromomethane	ND		5.0		ug/L			04/11/14 04:36	10
Dichlorodifluoromethane	ND		10		ug/L			04/11/14 04:36	10
Ethyl ether	ND		10		ug/L			04/11/14 04:36	10
Ethylbenzene	ND		10		ug/L			04/11/14 04:36	10
Ethylene Dibromide	ND		10		ug/L			04/11/14 04:36	10
Hexachlorobutadiene	ND		4.0		ug/L			04/11/14 04:36	10
Isopropyl ether	ND		100		ug/L			04/11/14 04:36	10

TestAmerica Buffalo



# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: REW-7-20140406-01**

**Lab Sample ID: 480-57495-28**

Date Collected: 04/06/14 09:35

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		10		ug/L			04/11/14 04:36	10
Methyl tert-butyl ether	ND		10		ug/L			04/11/14 04:36	10
Methylene Chloride	ND		10		ug/L			04/11/14 04:36	10
m-Xylene & p-Xylene	ND		20		ug/L			04/11/14 04:36	10
Naphthalene	ND		50		ug/L			04/11/14 04:36	10
n-Butylbenzene	ND		10		ug/L			04/11/14 04:36	10
N-Propylbenzene	ND		10		ug/L			04/11/14 04:36	10
o-Xylene	ND		10		ug/L			04/11/14 04:36	10
sec-Butylbenzene	ND		10		ug/L			04/11/14 04:36	10
Styrene	ND		10		ug/L			04/11/14 04:36	10
Tert-amyl methyl ether	ND		50		ug/L			04/11/14 04:36	10
Tert-butyl ethyl ether	ND		50		ug/L			04/11/14 04:36	10
tert-Butylbenzene	ND		10		ug/L			04/11/14 04:36	10
Tetrachloroethene	ND		10		ug/L			04/11/14 04:36	10
Tetrahydrofuran	ND		100		ug/L			04/11/14 04:36	10
<b>Toluene</b>	<b>12</b>		10		ug/L			04/11/14 04:36	10
trans-1,2-Dichloroethene	ND		10		ug/L			04/11/14 04:36	10
trans-1,3-Dichloropropene	ND		4.0		ug/L			04/11/14 04:36	10
<b>Trichloroethene</b>	<b>65</b>		10		ug/L			04/11/14 04:36	10
Trichlorofluoromethane	ND		10		ug/L			04/11/14 04:36	10
<b>Vinyl chloride</b>	<b>99</b>		10		ug/L			04/11/14 04:36	10
Dibromomethane	ND		10		ug/L			04/11/14 04:36	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/11/14 04:36	10
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		04/11/14 04:36	10
4-Bromofluorobenzene (Surr)	99		70 - 130		04/11/14 04:36	10

**Client Sample ID: REW-8-20140406-01**

**Lab Sample ID: 480-57495-29**

Date Collected: 04/06/14 10:45

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/11/14 05:01	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 05:01	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 05:01	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 05:01	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 05:01	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 05:01	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 05:01	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 05:01	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 05:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 05:01	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 05:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 05:01	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 05:01	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 05:01	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 05:01	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 05:01	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: REW-8-20140406-01**

**Lab Sample ID: 480-57495-29**

Date Collected: 04/06/14 10:45

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/11/14 05:01	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 05:01	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 05:01	1
1,4-Dioxane	ND	*	50		ug/L			04/11/14 05:01	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 05:01	1
<b>2-Butanone (MEK)</b>	<b>75</b>		10		ug/L			04/11/14 05:01	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 05:01	1
2-Hexanone	ND	*	10		ug/L			04/11/14 05:01	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 05:01	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 05:01	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 05:01	1
Acetone	ND		50		ug/L			04/11/14 05:01	1
Benzene	ND		1.0		ug/L			04/11/14 05:01	1
Bromobenzene	ND		1.0		ug/L			04/11/14 05:01	1
Bromoform	ND		1.0		ug/L			04/11/14 05:01	1
Bromomethane	ND		2.0		ug/L			04/11/14 05:01	1
Carbon disulfide	ND		10		ug/L			04/11/14 05:01	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 05:01	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 05:01	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 05:01	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 05:01	1
Chloroethane	ND		2.0		ug/L			04/11/14 05:01	1
Chloroform	ND		1.0		ug/L			04/11/14 05:01	1
Chloromethane	ND		2.0		ug/L			04/11/14 05:01	1
<b>cis-1,2-Dichloroethene</b>	<b>27</b>		1.0		ug/L			04/11/14 05:01	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 05:01	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 05:01	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 05:01	1
Ethyl ether	ND		1.0		ug/L			04/11/14 05:01	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 05:01	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 05:01	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 05:01	1
Isopropyl ether	ND		10		ug/L			04/11/14 05:01	1
Isopropylbenzene	ND		1.0		ug/L			04/11/14 05:01	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 05:01	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 05:01	1
<b>m-Xylene &amp; p-Xylene</b>	<b>2.4</b>		2.0		ug/L			04/11/14 05:01	1
Naphthalene	ND		5.0		ug/L			04/11/14 05:01	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 05:01	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 05:01	1
o-Xylene	ND		1.0		ug/L			04/11/14 05:01	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 05:01	1
Styrene	ND		1.0		ug/L			04/11/14 05:01	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 05:01	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 05:01	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 05:01	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 05:01	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 05:01	1
<b>Toluene</b>	<b>36</b>		1.0		ug/L			04/11/14 05:01	1

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# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: REW-8-20140406-01**

**Lab Sample ID: 480-57495-29**

Date Collected: 04/06/14 10:45

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/11/14 05:01	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 05:01	1
Trichloroethene	ND		1.0		ug/L			04/11/14 05:01	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 05:01	1
<b>Vinyl chloride</b>	<b>36</b>		1.0		ug/L			04/11/14 05:01	1
Dibromomethane	ND		1.0		ug/L			04/11/14 05:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		04/11/14 05:01	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		04/11/14 05:01	1
4-Bromofluorobenzene (Surr)	102		70 - 130		04/11/14 05:01	1

**Client Sample ID: REW-9-20140406-01**

**Lab Sample ID: 480-57495-30**

Date Collected: 04/06/14 11:40

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/11/14 05:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 05:26	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 05:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 05:26	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 05:26	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 05:26	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 05:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 05:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 05:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 05:26	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 05:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 05:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 05:26	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 05:26	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 05:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 05:26	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 05:26	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 05:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 05:26	1
1,4-Dioxane	ND *		50		ug/L			04/11/14 05:26	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 05:26	1
<b>2-Butanone (MEK)</b>	<b>54</b>		10		ug/L			04/11/14 05:26	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 05:26	1
2-Hexanone	ND *		10		ug/L			04/11/14 05:26	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 05:26	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 05:26	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 05:26	1
Acetone	ND		50		ug/L			04/11/14 05:26	1
Benzene	ND		1.0		ug/L			04/11/14 05:26	1
Bromobenzene	ND		1.0		ug/L			04/11/14 05:26	1
Bromoform	ND		1.0		ug/L			04/11/14 05:26	1
Bromomethane	ND		2.0		ug/L			04/11/14 05:26	1

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# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: REW-9-20140406-01**

**Lab Sample ID: 480-57495-30**

Date Collected: 04/06/14 11:40

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			04/11/14 05:26	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 05:26	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 05:26	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 05:26	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 05:26	1
Chloroethane	ND		2.0		ug/L			04/11/14 05:26	1
Chloroform	ND		1.0		ug/L			04/11/14 05:26	1
Chloromethane	ND		2.0		ug/L			04/11/14 05:26	1
<b>cis-1,2-Dichloroethene</b>	<b>80</b>		1.0		ug/L			04/11/14 05:26	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 05:26	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 05:26	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 05:26	1
Ethyl ether	ND		1.0		ug/L			04/11/14 05:26	1
<b>Ethylbenzene</b>	<b>1.3</b>		1.0		ug/L			04/11/14 05:26	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 05:26	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 05:26	1
Isopropyl ether	ND		10		ug/L			04/11/14 05:26	1
Isopropylbenzene	ND		1.0		ug/L			04/11/14 05:26	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 05:26	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 05:26	1
<b>m-Xylene &amp; p-Xylene</b>	<b>4.8</b>		2.0		ug/L			04/11/14 05:26	1
Naphthalene	ND		5.0		ug/L			04/11/14 05:26	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 05:26	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 05:26	1
<b>o-Xylene</b>	<b>1.1</b>		1.0		ug/L			04/11/14 05:26	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 05:26	1
Styrene	ND		1.0		ug/L			04/11/14 05:26	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 05:26	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 05:26	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 05:26	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 05:26	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 05:26	1
<b>Toluene</b>	<b>84</b>		1.0		ug/L			04/11/14 05:26	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 05:26	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 05:26	1
Trichloroethene	ND		1.0		ug/L			04/11/14 05:26	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 05:26	1
<b>Vinyl chloride</b>	<b>26</b>		1.0		ug/L			04/11/14 05:26	1
Dibromomethane	ND		1.0		ug/L			04/11/14 05:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/11/14 05:26	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		04/11/14 05:26	1
4-Bromofluorobenzene (Surr)	100		70 - 130		04/11/14 05:26	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: REW-10-20140406-01**

**Lab Sample ID: 480-57495-31**

Date Collected: 04/06/14 12:25

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/11/14 05:51	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 05:51	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 05:51	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 05:51	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 05:51	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 05:51	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 05:51	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 05:51	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 05:51	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 05:51	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 05:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 05:51	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 05:51	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 05:51	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 05:51	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 05:51	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 05:51	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 05:51	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 05:51	1
1,4-Dioxane	ND *		50		ug/L			04/11/14 05:51	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 05:51	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 05:51	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 05:51	1
2-Hexanone	ND *		10		ug/L			04/11/14 05:51	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 05:51	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 05:51	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 05:51	1
Acetone	ND		50		ug/L			04/11/14 05:51	1
Benzene	ND		1.0		ug/L			04/11/14 05:51	1
Bromobenzene	ND		1.0		ug/L			04/11/14 05:51	1
Bromoform	ND		1.0		ug/L			04/11/14 05:51	1
Bromomethane	ND		2.0		ug/L			04/11/14 05:51	1
Carbon disulfide	ND		10		ug/L			04/11/14 05:51	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 05:51	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 05:51	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 05:51	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 05:51	1
Chloroethane	ND		2.0		ug/L			04/11/14 05:51	1
Chloroform	ND		1.0		ug/L			04/11/14 05:51	1
Chloromethane	ND		2.0		ug/L			04/11/14 05:51	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 05:51	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 05:51	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 05:51	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 05:51	1
Ethyl ether	ND		1.0		ug/L			04/11/14 05:51	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 05:51	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 05:51	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 05:51	1
Isopropyl ether	ND		10		ug/L			04/11/14 05:51	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: REW-10-20140406-01**

**Lab Sample ID: 480-57495-31**

Date Collected: 04/06/14 12:25

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/11/14 05:51	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 05:51	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 05:51	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 05:51	1
Naphthalene	ND		5.0		ug/L			04/11/14 05:51	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 05:51	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 05:51	1
o-Xylene	ND		1.0		ug/L			04/11/14 05:51	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 05:51	1
Styrene	ND		1.0		ug/L			04/11/14 05:51	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 05:51	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 05:51	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 05:51	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 05:51	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 05:51	1
Toluene	ND		1.0		ug/L			04/11/14 05:51	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 05:51	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 05:51	1
Trichloroethene	ND		1.0		ug/L			04/11/14 05:51	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 05:51	1
Vinyl chloride	ND		1.0		ug/L			04/11/14 05:51	1
Dibromomethane	ND		1.0		ug/L			04/11/14 05:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		04/11/14 05:51	1
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		04/11/14 05:51	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/11/14 05:51	1

**Client Sample ID: REW-11-20140406-01**

**Lab Sample ID: 480-57495-32**

Date Collected: 04/06/14 08:15

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		25		ug/L			04/11/14 06:16	25
1,1,1,1-Trichloroethane	ND		25		ug/L			04/11/14 06:16	25
1,1,1,2-Tetrachloroethane	ND		13		ug/L			04/11/14 06:16	25
1,1,2-Trichloroethane	ND		25		ug/L			04/11/14 06:16	25
1,1-Dichloroethane	ND		25		ug/L			04/11/14 06:16	25
1,1-Dichloroethane	ND		25		ug/L			04/11/14 06:16	25
1,1-Dichloropropene	ND		25		ug/L			04/11/14 06:16	25
1,2,3-Trichlorobenzene	ND		25		ug/L			04/11/14 06:16	25
1,2,3-Trichloropropane	ND		25		ug/L			04/11/14 06:16	25
1,2,4-Trichlorobenzene	ND		25		ug/L			04/11/14 06:16	25
1,2,4-Trimethylbenzene	ND		25		ug/L			04/11/14 06:16	25
1,2-Dibromo-3-Chloropropane	ND		130		ug/L			04/11/14 06:16	25
1,2-Dichlorobenzene	ND		25		ug/L			04/11/14 06:16	25
1,2-Dichloroethane	ND		25		ug/L			04/11/14 06:16	25
1,2-Dichloropropane	ND		25		ug/L			04/11/14 06:16	25
1,3,5-Trimethylbenzene	ND		25		ug/L			04/11/14 06:16	25

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: REW-11-20140406-01**

**Lab Sample ID: 480-57495-32**

Date Collected: 04/06/14 08:15

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		25		ug/L			04/11/14 06:16	25
1,3-Dichloropropane	ND		25		ug/L			04/11/14 06:16	25
1,4-Dichlorobenzene	ND		25		ug/L			04/11/14 06:16	25
1,4-Dioxane	ND	*	1300		ug/L			04/11/14 06:16	25
2,2-Dichloropropane	ND		25		ug/L			04/11/14 06:16	25
2-Butanone (MEK)	ND		250		ug/L			04/11/14 06:16	25
2-Chlorotoluene	ND		25		ug/L			04/11/14 06:16	25
2-Hexanone	ND	*	250		ug/L			04/11/14 06:16	25
4-Chlorotoluene	ND		25		ug/L			04/11/14 06:16	25
4-Isopropyltoluene	ND		25		ug/L			04/11/14 06:16	25
4-Methyl-2-pentanone (MIBK)	ND		250		ug/L			04/11/14 06:16	25
Acetone	ND		1300		ug/L			04/11/14 06:16	25
Benzene	ND		25		ug/L			04/11/14 06:16	25
Bromobenzene	ND		25		ug/L			04/11/14 06:16	25
Bromoform	ND		25		ug/L			04/11/14 06:16	25
Bromomethane	ND		50		ug/L			04/11/14 06:16	25
Carbon disulfide	ND		250		ug/L			04/11/14 06:16	25
Carbon tetrachloride	ND		25		ug/L			04/11/14 06:16	25
Chlorobenzene	ND		25		ug/L			04/11/14 06:16	25
Chlorobromomethane	ND		25		ug/L			04/11/14 06:16	25
Chlorodibromomethane	ND		13		ug/L			04/11/14 06:16	25
Chloroethane	ND		50		ug/L			04/11/14 06:16	25
Chloroform	ND		25		ug/L			04/11/14 06:16	25
Chloromethane	ND		50		ug/L			04/11/14 06:16	25
<b>cis-1,2-Dichloroethene</b>	<b>1800</b>		25		ug/L			04/11/14 06:16	25
cis-1,3-Dichloropropene	ND		10		ug/L			04/11/14 06:16	25
Dichlorobromomethane	ND		13		ug/L			04/11/14 06:16	25
Dichlorodifluoromethane	ND		25		ug/L			04/11/14 06:16	25
Ethyl ether	ND		25		ug/L			04/11/14 06:16	25
Ethylbenzene	ND		25		ug/L			04/11/14 06:16	25
Ethylene Dibromide	ND		25		ug/L			04/11/14 06:16	25
Hexachlorobutadiene	ND		10		ug/L			04/11/14 06:16	25
Isopropyl ether	ND		250		ug/L			04/11/14 06:16	25
Isopropylbenzene	ND		25		ug/L			04/11/14 06:16	25
Methyl tert-butyl ether	ND		25		ug/L			04/11/14 06:16	25
Methylene Chloride	ND		25		ug/L			04/11/14 06:16	25
m-Xylene & p-Xylene	ND		50		ug/L			04/11/14 06:16	25
Naphthalene	ND		130		ug/L			04/11/14 06:16	25
n-Butylbenzene	ND		25		ug/L			04/11/14 06:16	25
N-Propylbenzene	ND		25		ug/L			04/11/14 06:16	25
o-Xylene	ND		25		ug/L			04/11/14 06:16	25
sec-Butylbenzene	ND		25		ug/L			04/11/14 06:16	25
Styrene	ND		25		ug/L			04/11/14 06:16	25
Tert-amyl methyl ether	ND		130		ug/L			04/11/14 06:16	25
Tert-butyl ethyl ether	ND		130		ug/L			04/11/14 06:16	25
tert-Butylbenzene	ND		25		ug/L			04/11/14 06:16	25
Tetrachloroethene	ND		25		ug/L			04/11/14 06:16	25
Tetrahydrofuran	ND		250		ug/L			04/11/14 06:16	25
Toluene	ND		25		ug/L			04/11/14 06:16	25

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: REW-11-20140406-01**

**Lab Sample ID: 480-57495-32**

Date Collected: 04/06/14 08:15

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		25		ug/L			04/11/14 06:16	25
trans-1,3-Dichloropropene	ND		10		ug/L			04/11/14 06:16	25
<b>Trichloroethene</b>	<b>460</b>		25		ug/L			04/11/14 06:16	25
Trichlorofluoromethane	ND		25		ug/L			04/11/14 06:16	25
<b>Vinyl chloride</b>	<b>120</b>		25		ug/L			04/11/14 06:16	25
Dibromomethane	ND		25		ug/L			04/11/14 06:16	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130					04/11/14 06:16	25
1,2-Dichloroethane-d4 (Surr)	98		70 - 130					04/11/14 06:16	25
4-Bromofluorobenzene (Surr)	100		70 - 130					04/11/14 06:16	25

**Client Sample ID: REW-12-20140406-01**

**Lab Sample ID: 480-57495-33**

Date Collected: 04/06/14 13:10

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/11/14 06:42	4
1,1,1-Trichloroethane	ND		4.0		ug/L			04/11/14 06:42	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			04/11/14 06:42	4
1,1,2-Trichloroethane	ND		4.0		ug/L			04/11/14 06:42	4
1,1-Dichloroethane	ND		4.0		ug/L			04/11/14 06:42	4
1,1-Dichloroethene	ND		4.0		ug/L			04/11/14 06:42	4
1,1-Dichloropropene	ND		4.0		ug/L			04/11/14 06:42	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			04/11/14 06:42	4
1,2,3-Trichloropropane	ND		4.0		ug/L			04/11/14 06:42	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			04/11/14 06:42	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			04/11/14 06:42	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			04/11/14 06:42	4
1,2-Dichlorobenzene	ND		4.0		ug/L			04/11/14 06:42	4
1,2-Dichloroethane	ND		4.0		ug/L			04/11/14 06:42	4
1,2-Dichloropropane	ND		4.0		ug/L			04/11/14 06:42	4
1,3,5-Trimethylbenzene	ND		4.0		ug/L			04/11/14 06:42	4
1,3-Dichlorobenzene	ND		4.0		ug/L			04/11/14 06:42	4
1,3-Dichloropropane	ND		4.0		ug/L			04/11/14 06:42	4
1,4-Dichlorobenzene	ND		4.0		ug/L			04/11/14 06:42	4
1,4-Dioxane	ND *		200		ug/L			04/11/14 06:42	4
2,2-Dichloropropane	ND		4.0		ug/L			04/11/14 06:42	4
2-Butanone (MEK)	ND		40		ug/L			04/11/14 06:42	4
2-Chlorotoluene	ND		4.0		ug/L			04/11/14 06:42	4
2-Hexanone	ND *		40		ug/L			04/11/14 06:42	4
4-Chlorotoluene	ND		4.0		ug/L			04/11/14 06:42	4
4-Isopropyltoluene	ND		4.0		ug/L			04/11/14 06:42	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			04/11/14 06:42	4
Acetone	ND		200		ug/L			04/11/14 06:42	4
Benzene	ND		4.0		ug/L			04/11/14 06:42	4
Bromobenzene	ND		4.0		ug/L			04/11/14 06:42	4
Bromoform	ND		4.0		ug/L			04/11/14 06:42	4
Bromomethane	ND		8.0		ug/L			04/11/14 06:42	4

TestAmerica Buffalo



# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: REW-12-20140406-01**

**Lab Sample ID: 480-57495-33**

Date Collected: 04/06/14 13:10

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/11/14 06:42	4
Carbon tetrachloride	ND		4.0		ug/L			04/11/14 06:42	4
Chlorobenzene	ND		4.0		ug/L			04/11/14 06:42	4
Chlorobromomethane	ND		4.0		ug/L			04/11/14 06:42	4
Chlorodibromomethane	ND		2.0		ug/L			04/11/14 06:42	4
Chloroethane	ND		8.0		ug/L			04/11/14 06:42	4
Chloroform	ND		4.0		ug/L			04/11/14 06:42	4
Chloromethane	ND		8.0		ug/L			04/11/14 06:42	4
<b>cis-1,2-Dichloroethene</b>	<b>310</b>		4.0		ug/L			04/11/14 06:42	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			04/11/14 06:42	4
Dichlorobromomethane	ND		2.0		ug/L			04/11/14 06:42	4
Dichlorodifluoromethane	ND		4.0		ug/L			04/11/14 06:42	4
Ethyl ether	ND		4.0		ug/L			04/11/14 06:42	4
Ethylbenzene	ND		4.0		ug/L			04/11/14 06:42	4
Ethylene Dibromide	ND		4.0		ug/L			04/11/14 06:42	4
Hexachlorobutadiene	ND		1.6		ug/L			04/11/14 06:42	4
Isopropyl ether	ND		40		ug/L			04/11/14 06:42	4
Isopropylbenzene	ND		4.0		ug/L			04/11/14 06:42	4
Methyl tert-butyl ether	ND		4.0		ug/L			04/11/14 06:42	4
Methylene Chloride	ND		4.0		ug/L			04/11/14 06:42	4
m-Xylene & p-Xylene	ND		8.0		ug/L			04/11/14 06:42	4
Naphthalene	ND		20		ug/L			04/11/14 06:42	4
n-Butylbenzene	ND		4.0		ug/L			04/11/14 06:42	4
N-Propylbenzene	ND		4.0		ug/L			04/11/14 06:42	4
o-Xylene	ND		4.0		ug/L			04/11/14 06:42	4
sec-Butylbenzene	ND		4.0		ug/L			04/11/14 06:42	4
Styrene	ND		4.0		ug/L			04/11/14 06:42	4
Tert-amyl methyl ether	ND		20		ug/L			04/11/14 06:42	4
Tert-butyl ethyl ether	ND		20		ug/L			04/11/14 06:42	4
tert-Butylbenzene	ND		4.0		ug/L			04/11/14 06:42	4
Tetrachloroethene	ND		4.0		ug/L			04/11/14 06:42	4
Tetrahydrofuran	ND		40		ug/L			04/11/14 06:42	4
<b>Toluene</b>	<b>28</b>		4.0		ug/L			04/11/14 06:42	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			04/11/14 06:42	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			04/11/14 06:42	4
<b>Trichloroethene</b>	<b>50</b>		4.0		ug/L			04/11/14 06:42	4
Trichlorofluoromethane	ND		4.0		ug/L			04/11/14 06:42	4
<b>Vinyl chloride</b>	<b>55</b>		4.0		ug/L			04/11/14 06:42	4
Dibromomethane	ND		4.0		ug/L			04/11/14 06:42	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/11/14 06:42	4
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		04/11/14 06:42	4
4-Bromofluorobenzene (Surr)	97		70 - 130		04/11/14 06:42	4

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: DupX1-20140405-01**

**Lab Sample ID: 480-57495-34**

Date Collected: 04/05/14 00:00

Matrix: Water

Date Received: 04/09/14 01:30

**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			04/11/14 07:06	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 07:06	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 07:06	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 07:06	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 07:06	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 07:06	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 07:06	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 07:06	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 07:06	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 07:06	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 07:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 07:06	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 07:06	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 07:06	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 07:06	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 07:06	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 07:06	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 07:06	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 07:06	1
1,4-Dioxane	ND *		50		ug/L			04/11/14 07:06	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 07:06	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 07:06	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 07:06	1
2-Hexanone	ND *		10		ug/L			04/11/14 07:06	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 07:06	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 07:06	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 07:06	1
Acetone	ND		50		ug/L			04/11/14 07:06	1
Benzene	ND		1.0		ug/L			04/11/14 07:06	1
Bromobenzene	ND		1.0		ug/L			04/11/14 07:06	1
Bromoform	ND		1.0		ug/L			04/11/14 07:06	1
Bromomethane	ND		2.0		ug/L			04/11/14 07:06	1
Carbon disulfide	ND		10		ug/L			04/11/14 07:06	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 07:06	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 07:06	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 07:06	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 07:06	1
Chloroethane	ND		2.0		ug/L			04/11/14 07:06	1
Chloroform	ND		1.0		ug/L			04/11/14 07:06	1
Chloromethane	ND		2.0		ug/L			04/11/14 07:06	1
<b>cis-1,2-Dichloroethene</b>	<b>58</b>		1.0		ug/L			04/11/14 07:06	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 07:06	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 07:06	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 07:06	1
Ethyl ether	ND		1.0		ug/L			04/11/14 07:06	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 07:06	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 07:06	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 07:06	1
Isopropyl ether	ND		10		ug/L			04/11/14 07:06	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: DupX1-20140405-01**

**Lab Sample ID: 480-57495-34**

**Date Collected: 04/05/14 00:00**

**Matrix: Water**

**Date Received: 04/09/14 01:30**

**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			04/11/14 07:06	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 07:06	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 07:06	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 07:06	1
Naphthalene	ND		5.0		ug/L			04/11/14 07:06	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 07:06	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 07:06	1
o-Xylene	ND		1.0		ug/L			04/11/14 07:06	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 07:06	1
Styrene	ND		1.0		ug/L			04/11/14 07:06	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 07:06	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 07:06	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 07:06	1
<b>Tetrachloroethene</b>	<b>10</b>		1.0		ug/L			04/11/14 07:06	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 07:06	1
Toluene	ND		1.0		ug/L			04/11/14 07:06	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 07:06	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 07:06	1
<b>Trichloroethene</b>	<b>37</b>		1.0		ug/L			04/11/14 07:06	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 07:06	1
<b>Vinyl chloride</b>	<b>43</b>		1.0		ug/L			04/11/14 07:06	1
Dibromomethane	ND		1.0		ug/L			04/11/14 07:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/11/14 07:06	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		04/11/14 07:06	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/11/14 07:06	1

**Client Sample ID: DupX2-20140406-01**

**Lab Sample ID: 480-57495-35**

**Date Collected: 04/06/14 00:00**

**Matrix: Water**

**Date Received: 04/09/14 01:30**

**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			04/11/14 07:31	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 07:31	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 07:31	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 07:31	1
<b>1,1-Dichloroethane</b>	<b>5.5</b>		1.0		ug/L			04/11/14 07:31	1
<b>1,1-Dichloroethene</b>	<b>2.5</b>		1.0		ug/L			04/11/14 07:31	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 07:31	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 07:31	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 07:31	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 07:31	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 07:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 07:31	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 07:31	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 07:31	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 07:31	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 07:31	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: DupX2-20140406-01**

**Lab Sample ID: 480-57495-35**

**Date Collected: 04/06/14 00:00**

**Matrix: Water**

**Date Received: 04/09/14 01:30**

**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			04/11/14 07:31	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 07:31	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 07:31	1
1,4-Dioxane	ND	*	50		ug/L			04/11/14 07:31	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 07:31	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 07:31	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 07:31	1
2-Hexanone	ND	*	10		ug/L			04/11/14 07:31	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 07:31	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 07:31	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 07:31	1
Acetone	ND		50		ug/L			04/11/14 07:31	1
<b>Benzene</b>	<b>1.5</b>		1.0		ug/L			04/11/14 07:31	1
Bromobenzene	ND		1.0		ug/L			04/11/14 07:31	1
Bromoform	ND		1.0		ug/L			04/11/14 07:31	1
Bromomethane	ND		2.0		ug/L			04/11/14 07:31	1
Carbon disulfide	ND		10		ug/L			04/11/14 07:31	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 07:31	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 07:31	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 07:31	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 07:31	1
Chloroethane	ND		2.0		ug/L			04/11/14 07:31	1
Chloroform	ND		1.0		ug/L			04/11/14 07:31	1
Chloromethane	ND		2.0		ug/L			04/11/14 07:31	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 07:31	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 07:31	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 07:31	1
Ethyl ether	ND		1.0		ug/L			04/11/14 07:31	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 07:31	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 07:31	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 07:31	1
Isopropyl ether	ND		10		ug/L			04/11/14 07:31	1
Isopropylbenzene	ND		1.0		ug/L			04/11/14 07:31	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 07:31	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 07:31	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 07:31	1
Naphthalene	ND		5.0		ug/L			04/11/14 07:31	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 07:31	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 07:31	1
<b>o-Xylene</b>	<b>1.1</b>		1.0		ug/L			04/11/14 07:31	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 07:31	1
Styrene	ND		1.0		ug/L			04/11/14 07:31	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 07:31	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 07:31	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 07:31	1
<b>Tetrachloroethene</b>	<b>16</b>		1.0		ug/L			04/11/14 07:31	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 07:31	1
Toluene	ND		1.0		ug/L			04/11/14 07:31	1
<b>trans-1,2-Dichloroethene</b>	<b>3.3</b>		1.0		ug/L			04/11/14 07:31	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: DupX2-20140406-01**

**Lab Sample ID: 480-57495-35**

Date Collected: 04/06/14 00:00

Matrix: Water

Date Received: 04/09/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 07:31	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 07:31	1
Dibromomethane	ND		1.0		ug/L			04/11/14 07:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130					04/11/14 07:31	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130					04/11/14 07:31	1
4-Bromofluorobenzene (Surr)	100		70 - 130					04/11/14 07:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1500		25		ug/L			04/11/14 17:58	25
Trichloroethene	390		25		ug/L			04/11/14 17:58	25
Vinyl chloride	97		25		ug/L			04/11/14 17:58	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130					04/11/14 17:58	25
1,2-Dichloroethane-d4 (Surr)	95		70 - 130					04/11/14 17:58	25
4-Bromofluorobenzene (Surr)	99		70 - 130					04/11/14 17:58	25

**Client Sample ID: DupX3-20140408-01**

**Lab Sample ID: 480-57495-36**

Date Collected: 04/08/14 00:00

Matrix: Water

Date Received: 04/09/14 01:30

**Method: 8260B SIM - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		3.2		ug/L			04/12/14 03:12	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	134		50 - 150					04/12/14 03:12	2
Dibromofluoromethane (Surr)	86		50 - 150					04/12/14 03:12	2

**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			04/11/14 07:57	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 07:57	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 07:57	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 07:57	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 07:57	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 07:57	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 07:57	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 07:57	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 07:57	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 07:57	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 07:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 07:57	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 07:57	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 07:57	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 07:57	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 07:57	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 07:57	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: DupX3-20140408-01**

**Lab Sample ID: 480-57495-36**

**Date Collected: 04/08/14 00:00**

**Matrix: Water**

**Date Received: 04/09/14 01:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 07:57	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 07:57	1
1,4-Dioxane	ND	*	50		ug/L			04/11/14 07:57	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 07:57	1
<b>2-Butanone (MEK)</b>	<b>160</b>		10		ug/L			04/11/14 07:57	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 07:57	1
2-Hexanone	ND	*	10		ug/L			04/11/14 07:57	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 07:57	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 07:57	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 07:57	1
Benzene	ND		1.0		ug/L			04/11/14 07:57	1
Bromobenzene	ND		1.0		ug/L			04/11/14 07:57	1
Bromoform	ND		1.0		ug/L			04/11/14 07:57	1
Bromomethane	ND		2.0		ug/L			04/11/14 07:57	1
Carbon disulfide	ND		10		ug/L			04/11/14 07:57	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 07:57	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 07:57	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 07:57	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 07:57	1
Chloroethane	ND		2.0		ug/L			04/11/14 07:57	1
Chloroform	ND		1.0		ug/L			04/11/14 07:57	1
Chloromethane	ND		2.0		ug/L			04/11/14 07:57	1
<b>cis-1,2-Dichloroethene</b>	<b>7.3</b>		1.0		ug/L			04/11/14 07:57	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 07:57	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 07:57	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 07:57	1
Ethyl ether	ND		1.0		ug/L			04/11/14 07:57	1
<b>Ethylbenzene</b>	<b>3.3</b>		1.0		ug/L			04/11/14 07:57	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 07:57	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 07:57	1
Isopropyl ether	ND		10		ug/L			04/11/14 07:57	1
Isopropylbenzene	ND		1.0		ug/L			04/11/14 07:57	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 07:57	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 07:57	1
<b>m-Xylene &amp; p-Xylene</b>	<b>11</b>		2.0		ug/L			04/11/14 07:57	1
Naphthalene	ND		5.0		ug/L			04/11/14 07:57	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 07:57	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 07:57	1
<b>o-Xylene</b>	<b>2.1</b>		1.0		ug/L			04/11/14 07:57	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 07:57	1
Styrene	ND		1.0		ug/L			04/11/14 07:57	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 07:57	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 07:57	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 07:57	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 07:57	1
<b>Tetrahydrofuran</b>	<b>18</b>		10		ug/L			04/11/14 07:57	1
<b>Toluene</b>	<b>20</b>		1.0		ug/L			04/11/14 07:57	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 07:57	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 07:57	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: DupX3-20140408-01**

**Lab Sample ID: 480-57495-36**

**Date Collected: 04/08/14 00:00**

**Matrix: Water**

**Date Received: 04/09/14 01:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Trichloroethene</b>	<b>2.6</b>		1.0		ug/L			04/11/14 07:57	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 07:57	1
<b>Vinyl chloride</b>	<b>2.2</b>		1.0		ug/L			04/11/14 07:57	1
Dibromomethane	ND		1.0		ug/L			04/11/14 07:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	96		70 - 130					04/11/14 07:57	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130					04/11/14 07:57	1
4-Bromofluorobenzene (Surr)	104		70 - 130					04/11/14 07:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acetone</b>	<b>14000</b>		2000		ug/L			04/14/14 00:11	40
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	99		70 - 130					04/14/14 00:11	40
1,2-Dichloroethane-d4 (Surr)	106		70 - 130					04/14/14 00:11	40
4-Bromofluorobenzene (Surr)	96		70 - 130					04/14/14 00:11	40

**Client Sample ID: Trip Blanks**

**Lab Sample ID: 480-57495-37**

**Date Collected: 04/08/14 00:00**

**Matrix: Water**

**Date Received: 04/09/14 01:30**

**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			04/11/14 13:43	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 13:43	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 13:43	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 13:43	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 13:43	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 13:43	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 13:43	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 13:43	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 13:43	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 13:43	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 13:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 13:43	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 13:43	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 13:43	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 13:43	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 13:43	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 13:43	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 13:43	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 13:43	1
1,4-Dioxane	ND		50		ug/L			04/11/14 13:43	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 13:43	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 13:43	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 13:43	1
2-Hexanone	ND *		10		ug/L			04/11/14 13:43	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 13:43	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: Trip Blanks**

**Lab Sample ID: 480-57495-37**

**Date Collected: 04/08/14 00:00**

**Matrix: Water**

**Date Received: 04/09/14 01:30**

**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			04/11/14 13:43	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 13:43	1
Acetone	ND		50		ug/L			04/11/14 13:43	1
Benzene	ND		1.0		ug/L			04/11/14 13:43	1
Bromobenzene	ND		1.0		ug/L			04/11/14 13:43	1
Bromoform	ND		1.0		ug/L			04/11/14 13:43	1
Bromomethane	ND		2.0		ug/L			04/11/14 13:43	1
Carbon disulfide	ND		10		ug/L			04/11/14 13:43	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 13:43	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 13:43	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 13:43	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 13:43	1
Chloroethane	ND		2.0		ug/L			04/11/14 13:43	1
Chloroform	ND		1.0		ug/L			04/11/14 13:43	1
Chloromethane	ND		2.0		ug/L			04/11/14 13:43	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 13:43	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 13:43	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 13:43	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 13:43	1
Ethyl ether	ND		1.0		ug/L			04/11/14 13:43	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 13:43	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 13:43	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 13:43	1
Isopropyl ether	ND		10		ug/L			04/11/14 13:43	1
Isopropylbenzene	ND		1.0		ug/L			04/11/14 13:43	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 13:43	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 13:43	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 13:43	1
Naphthalene	ND		5.0		ug/L			04/11/14 13:43	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 13:43	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 13:43	1
o-Xylene	ND		1.0		ug/L			04/11/14 13:43	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 13:43	1
Styrene	ND		1.0		ug/L			04/11/14 13:43	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 13:43	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 13:43	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 13:43	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 13:43	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 13:43	1
Toluene	ND		1.0		ug/L			04/11/14 13:43	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 13:43	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 13:43	1
Trichloroethene	ND		1.0		ug/L			04/11/14 13:43	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 13:43	1
Vinyl chloride	ND		1.0		ug/L			04/11/14 13:43	1
Dibromomethane	ND		1.0		ug/L			04/11/14 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		04/11/14 13:43	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		04/11/14 13:43	1

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# Client Sample Results

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: Trip Blanks**

**Lab Sample ID: 480-57495-37**

Date Collected: 04/08/14 00:00

Matrix: Water

Date Received: 04/09/14 01:30

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
4-Bromofluorobenzene (Surr)	101		70 - 130		04/11/14 13:43	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Surrogate Summary

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

TestAmerica Job ID: 480-57495-1

## Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BA-d9 (Sur) (50-150)	DBFM (50-150)
480-57495-3	MW-261S-20140408-01	144	85
480-57495-7	MW-265M-20140408-01	136	86
480-57495-9	MW-266Ma-20140405-01	120	92
480-57495-11	MW-267S-20140405-01	137	85
480-57495-12	MW-267M-20140405-01	118	86
480-57495-13	MW-268S-20140407	112	90
480-57495-14	MW-268M-20140407	80	83
480-57495-16	MW-269Ma-20140405	111	92
480-57495-18	MW-552-20140407-01	117	88
480-57495-36	DupX3-20140408-01	134	86
LCS 480-175364/4	Lab Control Sample	97	84
LCSD 480-175364/5	Lab Control Sample Dup	104	84
MB 480-175364/6	Method Blank	122	91

**Surrogate Legend**

TBA-d9 (Surr) = TBA-d9 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (70-130)	12DCE (70-130)	BFB (70-130)
480-57495-1	DEP-19M-20140405-01	98	103	98
480-57495-2	DEP-21-20140405-01	101	102	100
480-57495-3	MW-261S-20140408-01	101	101	97
480-57495-4	MW-263M-20140408-01	101	103	98
480-57495-5	MW-264M-20140408-01	98	103	96
480-57495-6	MW-265S-20140408-01	99	102	97
480-57495-7	MW-265M-20140408-01	100	97	99
480-57495-7 - DL	MW-265M-20140408-01	96	94	102
480-57495-8	MW-265D-20140408-01	95	97	98
480-57495-9	MW-266Ma-20140405-01	99	102	97
480-57495-10	MW-266Mb-20140405-01	98	103	95
480-57495-11	MW-267S-20140405-01	98	93	99
480-57495-12	MW-267M-20140405-01	95	94	98
480-57495-13	MW-268S-20140407	99	94	101
480-57495-14	MW-268M-20140407	98	94	99
480-57495-15	MW-268D-20140405	95	95	97
480-57495-16	MW-269Ma-20140405	96	96	99
480-57495-17	MW-551-20140408-01	96	96	100
480-57495-17 MS	MW-551-20140408-01	99	103	102
480-57495-17 MSD	MW-551-20140408-01	99	99	105
480-57495-18	MW-552-20140407-01	96	94	100
480-57495-19	MW-553-20140407-01	98	95	104
480-57495-20	MW-560-20140407-01	99	94	101
480-57495-20 - DL	MW-560-20140407-01	98	94	102
480-57495-21	MW-561-20140407-01	96	95	98

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# Surrogate Summary

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

TestAmerica Job ID: 480-57495-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (70-130)	12DCE (70-130)	BFB (70-130)
480-57495-22	MW-562-20140407-01	99	94	104
480-57495-22 - DL	MW-562-20140407-01	98	97	102
480-57495-23	MW-563-20140407-01	97	94	100
480-57495-24	REW-1-20140406-01	96	97	99
480-57495-25	REW-4-20140406-01	94	92	97
480-57495-26	REW-5-20140406-01	96	95	100
480-57495-27	REW-6-20140406-01	98	95	99
480-57495-28	REW-7-20140406-01	99	94	99
480-57495-29	REW-8-20140406-01	97	97	102
480-57495-30	REW-9-20140406-01	98	93	100
480-57495-31	REW-10-20140406-01	97	98	98
480-57495-32	REW-11-20140406-01	98	98	100
480-57495-33	REW-12-20140406-01	96	97	97
480-57495-33 MS	REW-12-20140406-01	100	103	101
480-57495-33 MSD	REW-12-20140406-01	97	95	102
480-57495-34	DupX1-20140405-01	98	95	99
480-57495-35	DupX2-20140406-01	101	93	100
480-57495-35 - DL	DupX2-20140406-01	97	95	99
480-57495-36	DupX3-20140408-01	96	95	104
480-57495-36 - DL	DupX3-20140408-01	99	106	96
480-57495-37	Trip Blanks	97	95	101
LCS 480-174684/6	Lab Control Sample	100	102	102
LCS 480-174949/5	Lab Control Sample	100	105	104
LCS 480-175074/5	Lab Control Sample	99	106	103
LCS 480-175163/5	Lab Control Sample	101	103	103
LCS 480-175485/6	Lab Control Sample	98	105	99
LCSD 480-174684/7	Lab Control Sample Dup	101	101	103
LCSD 480-174949/6	Lab Control Sample Dup	97	103	101
LCSD 480-175074/6	Lab Control Sample Dup	99	104	102
LCSD 480-175163/6	Lab Control Sample Dup	100	103	104
LCSD 480-175485/7	Lab Control Sample Dup	96	106	96
MB 480-174684/9	Method Blank	100	101	96
MB 480-174949/8	Method Blank	95	94	99
MB 480-175074/8	Method Blank	97	95	99
MB 480-175163/8	Method Blank	97	92	101
MB 480-175485/9	Method Blank	99	105	96

### Surrogate Legend

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

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

## Method: 8260B SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-175364/6

Matrix: Water

Analysis Batch: 175364

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/11/14 23:06	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	122		50 - 150					04/11/14 23:06	1
Dibromofluoromethane (Surr)	91		50 - 150					04/11/14 23:06	1

Lab Sample ID: LCS 480-175364/4

Matrix: Water

Analysis Batch: 175364

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	16.0	16.0		ug/L		100	50 - 150
Surrogate	%Recovery	LCS Qualifier	Limits				
TBA-d9 (Surr)	97		50 - 150				
Dibromofluoromethane (Surr)	84		50 - 150				

Lab Sample ID: LCSD 480-175364/5

Matrix: Water

Analysis Batch: 175364

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
1,4-Dioxane	16.0	17.0		ug/L		106	50 - 150	6	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
TBA-d9 (Surr)	104		50 - 150						
Dibromofluoromethane (Surr)	84		50 - 150						

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

Lab Sample ID: MB 480-174684/9

Matrix: Water

Analysis Batch: 174684

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			04/09/14 12:40	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/09/14 12:40	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/09/14 12:40	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/09/14 12:40	1
1,1-Dichloroethane	ND		1.0		ug/L			04/09/14 12:40	1
1,1-Dichloroethene	ND		1.0		ug/L			04/09/14 12:40	1
1,1-Dichloropropene	ND		1.0		ug/L			04/09/14 12:40	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/09/14 12:40	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/09/14 12:40	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/09/14 12:40	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/09/14 12:40	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/09/14 12:40	1

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# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

**Lab Sample ID: MB 480-174684/9**

**Matrix: Water**

**Analysis Batch: 174684**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0		ug/L			04/09/14 12:40	1
1,2-Dichloroethane	ND		1.0		ug/L			04/09/14 12:40	1
1,2-Dichloropropane	ND		1.0		ug/L			04/09/14 12:40	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/09/14 12:40	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/09/14 12:40	1
1,3-Dichloropropane	ND		1.0		ug/L			04/09/14 12:40	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/09/14 12:40	1
1,4-Dioxane	ND		50		ug/L			04/09/14 12:40	1
2,2-Dichloropropane	ND		1.0		ug/L			04/09/14 12:40	1
2-Butanone (MEK)	ND		10		ug/L			04/09/14 12:40	1
2-Chlorotoluene	ND		1.0		ug/L			04/09/14 12:40	1
2-Hexanone	ND		10		ug/L			04/09/14 12:40	1
4-Chlorotoluene	ND		1.0		ug/L			04/09/14 12:40	1
4-Isopropyltoluene	ND		1.0		ug/L			04/09/14 12:40	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/09/14 12:40	1
Acetone	ND		50		ug/L			04/09/14 12:40	1
Benzene	ND		1.0		ug/L			04/09/14 12:40	1
Bromobenzene	ND		1.0		ug/L			04/09/14 12:40	1
Bromoform	ND		1.0		ug/L			04/09/14 12:40	1
Bromomethane	ND		2.0		ug/L			04/09/14 12:40	1
Carbon disulfide	ND		10		ug/L			04/09/14 12:40	1
Carbon tetrachloride	ND		1.0		ug/L			04/09/14 12:40	1
Chlorobenzene	ND		1.0		ug/L			04/09/14 12:40	1
Chlorobromomethane	ND		1.0		ug/L			04/09/14 12:40	1
Chlorodibromomethane	ND		0.50		ug/L			04/09/14 12:40	1
Chloroethane	ND		2.0		ug/L			04/09/14 12:40	1
Chloroform	ND		1.0		ug/L			04/09/14 12:40	1
Chloromethane	ND		2.0		ug/L			04/09/14 12:40	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/09/14 12:40	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 12:40	1
Dichlorobromomethane	ND		0.50		ug/L			04/09/14 12:40	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/09/14 12:40	1
Ethyl ether	ND		1.0		ug/L			04/09/14 12:40	1
Ethylbenzene	ND		1.0		ug/L			04/09/14 12:40	1
Ethylene Dibromide	ND		1.0		ug/L			04/09/14 12:40	1
Hexachlorobutadiene	ND		0.40		ug/L			04/09/14 12:40	1
Isopropyl ether	ND		10		ug/L			04/09/14 12:40	1
Isopropylbenzene	ND		1.0		ug/L			04/09/14 12:40	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/09/14 12:40	1
Methylene Chloride	ND		1.0		ug/L			04/09/14 12:40	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/09/14 12:40	1
Naphthalene	ND		5.0		ug/L			04/09/14 12:40	1
n-Butylbenzene	ND		1.0		ug/L			04/09/14 12:40	1
N-Propylbenzene	ND		1.0		ug/L			04/09/14 12:40	1
o-Xylene	ND		1.0		ug/L			04/09/14 12:40	1
sec-Butylbenzene	ND		1.0		ug/L			04/09/14 12:40	1
Styrene	ND		1.0		ug/L			04/09/14 12:40	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/09/14 12:40	1

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: MB 480-174684/9

Matrix: Water

Analysis Batch: 174684

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-butyl ethyl ether	ND		5.0		ug/L			04/09/14 12:40	1
tert-Butylbenzene	ND		1.0		ug/L			04/09/14 12:40	1
Tetrachloroethene	ND		1.0		ug/L			04/09/14 12:40	1
Tetrahydrofuran	ND		10		ug/L			04/09/14 12:40	1
Toluene	ND		1.0		ug/L			04/09/14 12:40	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/09/14 12:40	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/09/14 12:40	1
Trichloroethene	ND		1.0		ug/L			04/09/14 12:40	1
Trichlorofluoromethane	ND		1.0		ug/L			04/09/14 12:40	1
Vinyl chloride	ND		1.0		ug/L			04/09/14 12:40	1
Dibromomethane	ND		1.0		ug/L			04/09/14 12:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/09/14 12:40	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		04/09/14 12:40	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/09/14 12:40	1

Lab Sample ID: LCS 480-174684/6

Matrix: Water

Analysis Batch: 174684

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	26.9		ug/L		108	70 - 130
1,1,1-Trichloroethane	25.0	26.3		ug/L		105	70 - 130
1,1,1,2,2-Tetrachloroethane	25.0	26.5		ug/L		106	70 - 130
1,1,2-Trichloroethane	25.0	26.3		ug/L		105	70 - 130
1,1-Dichloroethane	25.0	25.8		ug/L		103	70 - 130
1,1-Dichloroethene	25.0	26.3		ug/L		105	70 - 130
1,1-Dichloropropene	25.0	26.5		ug/L		106	70 - 130
1,2,3-Trichlorobenzene	25.0	27.0		ug/L		108	70 - 130
1,2,3-Trichloropropene	25.0	25.7		ug/L		103	70 - 130
1,2,4-Trichlorobenzene	25.0	27.1		ug/L		108	70 - 130
1,2,4-Trimethylbenzene	25.0	26.1		ug/L		104	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	26.6		ug/L		106	70 - 130
1,2-Dichlorobenzene	25.0	26.5		ug/L		106	70 - 130
1,2-Dichloroethane	25.0	26.3		ug/L		105	70 - 130
1,2-Dichloropropane	25.0	26.6		ug/L		106	70 - 130
1,3,5-Trimethylbenzene	25.0	25.7		ug/L		103	70 - 130
1,3-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,3-Dichloropropane	25.0	25.8		ug/L		103	70 - 130
1,4-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,4-Dioxane	500	510		ug/L		102	70 - 130
2,2-Dichloropropane	25.0	25.2		ug/L		101	70 - 130
2-Butanone (MEK)	125	138		ug/L		111	70 - 130
2-Chlorotoluene	25.0	26.3		ug/L		105	70 - 130
2-Hexanone	125	133		ug/L		107	70 - 130
4-Chlorotoluene	25.0	23.9		ug/L		96	70 - 130
4-Isopropyltoluene	25.0	26.7		ug/L		107	70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

**Lab Sample ID: LCS 480-174684/6**

**Matrix: Water**

**Analysis Batch: 174684**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	125	129		ug/L		103	70 - 130
Acetone	125	129		ug/L		103	70 - 130
Benzene	25.0	26.3		ug/L		105	70 - 130
Bromobenzene	25.0	25.8		ug/L		103	70 - 130
Bromoform	25.0	24.0		ug/L		96	70 - 130
Bromomethane	25.0	26.8		ug/L		107	70 - 130
Carbon disulfide	25.0	25.7		ug/L		103	70 - 130
Carbon tetrachloride	25.0	27.0		ug/L		108	70 - 130
Chlorobenzene	25.0	26.0		ug/L		104	70 - 130
Chlorobromomethane	25.0	26.1		ug/L		104	70 - 130
Chlorodibromomethane	24.5	26.2		ug/L		107	70 - 130
Chloroethane	25.0	26.3		ug/L		105	70 - 130
Chloroform	25.0	25.9		ug/L		104	70 - 130
Chloromethane	25.0	25.1		ug/L		100	70 - 130
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	70 - 130
cis-1,3-Dichloropropene	25.0	26.6		ug/L		106	70 - 130
Dichlorobromomethane	25.0	26.5		ug/L		106	70 - 130
Dichlorodifluoromethane	25.0	27.1		ug/L		108	70 - 130
Ethyl ether	25.0	26.6		ug/L		106	70 - 130
Ethylbenzene	25.0	25.9		ug/L		104	70 - 130
Ethylene Dibromide	25.0	26.1		ug/L		105	70 - 130
Hexachlorobutadiene	25.0	28.6		ug/L		114	70 - 130
Isopropyl ether	25.0	26.0		ug/L		104	70 - 130
Isopropylbenzene	25.0	26.2		ug/L		105	70 - 130
Methyl tert-butyl ether	25.0	25.6		ug/L		102	70 - 130
Methylene Chloride	25.0	25.7		ug/L		103	70 - 130
m-Xylene & p-Xylene	25.0	26.1		ug/L		104	70 - 130
Naphthalene	25.0	27.5		ug/L		110	70 - 130
n-Butylbenzene	25.0	27.1		ug/L		108	70 - 130
N-Propylbenzene	25.0	25.5		ug/L		102	70 - 130
o-Xylene	25.0	25.8		ug/L		103	70 - 130
sec-Butylbenzene	25.0	26.5		ug/L		106	70 - 130
Styrene	25.0	26.3		ug/L		105	70 - 130
Tert-amyl methyl ether	25.0	25.9		ug/L		104	70 - 130
Tert-butyl ethyl ether	25.0	25.4		ug/L		101	70 - 130
tert-Butylbenzene	25.0	25.6		ug/L		103	70 - 130
Tetrachloroethene	25.0	29.5		ug/L		118	70 - 130
Tetrahydrofuran	50.0	67.3 *		ug/L		135	70 - 130
Toluene	25.0	25.5		ug/L		102	70 - 130
trans-1,2-Dichloroethene	25.0	25.9		ug/L		103	70 - 130
trans-1,3-Dichloropropene	25.0	25.9		ug/L		104	70 - 130
Trichloroethene	25.0	26.1		ug/L		105	70 - 130
Trichlorofluoromethane	25.0	27.3		ug/L		109	70 - 130
Vinyl chloride	25.0	24.7		ug/L		99	70 - 130
Dibromomethane	25.0	26.4		ug/L		105	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	100		70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCS 480-174684/6

Matrix: Water

Analysis Batch: 174684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 480-174684/7

Matrix: Water

Analysis Batch: 174684

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	RPD Limit
							Limits	RPD		
1,1,1,2-Tetrachloroethane	25.0	26.5		ug/L		106	70 - 130	2	20	
1,1,1-Trichloroethane	25.0	25.2		ug/L		101	70 - 130	4	20	
1,1,1,2-Tetrachloroethane	25.0	26.0		ug/L		104	70 - 130	2	20	
1,1,2-Trichloroethane	25.0	26.0		ug/L		104	70 - 130	1	20	
1,1-Dichloroethane	25.0	25.4		ug/L		102	70 - 130	2	20	
1,1-Dichloroethene	25.0	27.2		ug/L		109	70 - 130	3	20	
1,1-Dichloropropene	25.0	25.6		ug/L		103	70 - 130	3	20	
1,2,3-Trichlorobenzene	25.0	26.7		ug/L		107	70 - 130	1	20	
1,2,3-Trichloropropane	25.0	26.6		ug/L		106	70 - 130	3	20	
1,2,4-Trichlorobenzene	25.0	26.8		ug/L		107	70 - 130	1	20	
1,2,4-Trimethylbenzene	25.0	25.7		ug/L		103	70 - 130	2	20	
1,2-Dibromo-3-Chloropropane	25.0	25.1		ug/L		101	70 - 130	5	20	
1,2-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130	1	20	
1,2-Dichloroethane	25.0	26.0		ug/L		104	70 - 130	1	20	
1,2-Dichloropropane	25.0	25.8		ug/L		103	70 - 130	3	20	
1,3,5-Trimethylbenzene	25.0	25.3		ug/L		101	70 - 130	1	20	
1,3-Dichlorobenzene	25.0	25.8		ug/L		103	70 - 130	2	20	
1,3-Dichloropropane	25.0	26.0		ug/L		104	70 - 130	1	20	
1,4-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130	1	20	
1,4-Dioxane	500	514		ug/L		103	70 - 130	1	20	
2,2-Dichloropropane	25.0	24.0		ug/L		96	70 - 130	5	20	
2-Butanone (MEK)	125	141		ug/L		113	70 - 130	2	20	
2-Chlorotoluene	25.0	25.5		ug/L		102	70 - 130	3	20	
2-Hexanone	125	131		ug/L		105	70 - 130	1	20	
4-Chlorotoluene	25.0	23.5		ug/L		94	70 - 130	2	20	
4-Isopropyltoluene	25.0	26.0		ug/L		104	70 - 130	2	20	
4-Methyl-2-pentanone (MIBK)	125	129		ug/L		104	70 - 130	0	20	
Acetone	125	125		ug/L		100	70 - 130	3	20	
Benzene	25.0	25.5		ug/L		102	70 - 130	3	20	
Bromobenzene	25.0	25.5		ug/L		102	70 - 130	1	20	
Bromoform	25.0	23.8		ug/L		95	70 - 130	1	20	
Bromomethane	25.0	26.0		ug/L		104	70 - 130	3	20	
Carbon disulfide	25.0	24.8		ug/L		99	70 - 130	4	20	
Carbon tetrachloride	25.0	26.0		ug/L		104	70 - 130	4	20	
Chlorobenzene	25.0	25.8		ug/L		103	70 - 130	1	20	
Chlorobromomethane	25.0	25.6		ug/L		102	70 - 130	2	20	
Chlorodibromomethane	24.5	25.9		ug/L		106	70 - 130	1	20	
Chloroethane	25.0	25.2		ug/L		101	70 - 130	4	20	
Chloroform	25.0	25.4		ug/L		101	70 - 130	2	20	
Chloromethane	25.0	24.6		ug/L		98	70 - 130	2	20	

TestAmerica Buffalo



# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

**Lab Sample ID: LCSD 480-174684/7**

**Matrix: Water**

**Analysis Batch: 174684**

**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		
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	70 - 130	4	20	
cis-1,3-Dichloropropene	25.0	26.3		ug/L		105	70 - 130	1	20	
Dichlorobromomethane	25.0	25.7		ug/L		103	70 - 130	3	20	
Dichlorodifluoromethane	25.0	25.5		ug/L		102	70 - 130	6	20	
Ethyl ether	25.0	25.9		ug/L		104	70 - 130	3	20	
Ethylbenzene	25.0	26.0		ug/L		104	70 - 130	0	20	
Ethylene Dibromide	25.0	26.3		ug/L		105	70 - 130	1	20	
Hexachlorobutadiene	25.0	27.3		ug/L		109	70 - 130	4	20	
Isopropyl ether	25.0	25.2		ug/L		101	70 - 130	3	20	
Isopropylbenzene	25.0	25.3		ug/L		101	70 - 130	3	20	
Methyl tert-butyl ether	25.0	25.1		ug/L		101	70 - 130	2	20	
Methylene Chloride	25.0	24.6		ug/L		98	70 - 130	5	20	
m-Xylene & p-Xylene	25.0	25.8		ug/L		103	70 - 130	1	20	
Naphthalene	25.0	27.2		ug/L		109	70 - 130	1	20	
n-Butylbenzene	25.0	26.4		ug/L		106	70 - 130	2	20	
N-Propylbenzene	25.0	25.6		ug/L		102	70 - 130	0	20	
o-Xylene	25.0	25.5		ug/L		102	70 - 130	1	20	
sec-Butylbenzene	25.0	25.4		ug/L		102	70 - 130	4	20	
Styrene	25.0	26.3		ug/L		105	70 - 130	0	20	
Tert-amyl methyl ether	25.0	25.4		ug/L		102	70 - 130	2	20	
Tert-butyl ethyl ether	25.0	25.2		ug/L		101	70 - 130	1	20	
tert-Butylbenzene	25.0	26.1		ug/L		104	70 - 130	2	20	
Tetrachloroethene	25.0	29.9		ug/L		120	70 - 130	2	20	
Tetrahydrofuran	50.0	64.6		ug/L		129	70 - 130	4	20	
Toluene	25.0	25.6		ug/L		102	70 - 130	0	20	
trans-1,2-Dichloroethene	25.0	24.9		ug/L		99	70 - 130	4	20	
trans-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 130	0	20	
Trichloroethene	25.0	25.4		ug/L		101	70 - 130	3	20	
Trichlorofluoromethane	25.0	25.7		ug/L		103	70 - 130	6	20	
Vinyl chloride	25.0	24.1		ug/L		96	70 - 130	3	20	
Dibromomethane	25.0	26.2		ug/L		105	70 - 130	1	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130

**Lab Sample ID: MB 480-174949/8**

**Matrix: Water**

**Analysis Batch: 174949**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L		04/10/14 13:25	1	
1,1,1-Trichloroethane	ND		1.0		ug/L		04/10/14 13:25	1	
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L		04/10/14 13:25	1	
1,1,2-Trichloroethane	ND		1.0		ug/L		04/10/14 13:25	1	
1,1-Dichloroethane	ND		1.0		ug/L		04/10/14 13:25	1	
1,1-Dichloroethene	ND		1.0		ug/L		04/10/14 13:25	1	

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

**Lab Sample ID: MB 480-174949/8**

**Matrix: Water**

**Analysis Batch: 174949**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		1.0		ug/L			04/10/14 13:25	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/10/14 13:25	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/10/14 13:25	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/10/14 13:25	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/10/14 13:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/10/14 13:25	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/10/14 13:25	1
1,2-Dichloroethane	ND		1.0		ug/L			04/10/14 13:25	1
1,2-Dichloropropane	ND		1.0		ug/L			04/10/14 13:25	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/10/14 13:25	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/10/14 13:25	1
1,3-Dichloropropane	ND		1.0		ug/L			04/10/14 13:25	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/10/14 13:25	1
1,4-Dioxane	ND		50		ug/L			04/10/14 13:25	1
2,2-Dichloropropane	ND		1.0		ug/L			04/10/14 13:25	1
2-Butanone (MEK)	ND		10		ug/L			04/10/14 13:25	1
2-Chlorotoluene	ND		1.0		ug/L			04/10/14 13:25	1
2-Hexanone	ND		10		ug/L			04/10/14 13:25	1
4-Chlorotoluene	ND		1.0		ug/L			04/10/14 13:25	1
4-Isopropyltoluene	ND		1.0		ug/L			04/10/14 13:25	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/10/14 13:25	1
Acetone	ND		50		ug/L			04/10/14 13:25	1
Benzene	ND		1.0		ug/L			04/10/14 13:25	1
Bromobenzene	ND		1.0		ug/L			04/10/14 13:25	1
Bromoform	ND		1.0		ug/L			04/10/14 13:25	1
Bromomethane	ND		2.0		ug/L			04/10/14 13:25	1
Carbon disulfide	ND		10		ug/L			04/10/14 13:25	1
Carbon tetrachloride	ND		1.0		ug/L			04/10/14 13:25	1
Chlorobenzene	ND		1.0		ug/L			04/10/14 13:25	1
Chlorobromomethane	ND		1.0		ug/L			04/10/14 13:25	1
Chlorodibromomethane	ND		0.50		ug/L			04/10/14 13:25	1
Chloroethane	ND		2.0		ug/L			04/10/14 13:25	1
Chloroform	ND		1.0		ug/L			04/10/14 13:25	1
Chloromethane	ND		2.0		ug/L			04/10/14 13:25	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/10/14 13:25	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 13:25	1
Dichlorobromomethane	ND		0.50		ug/L			04/10/14 13:25	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/10/14 13:25	1
Ethyl ether	ND		1.0		ug/L			04/10/14 13:25	1
Ethylbenzene	ND		1.0		ug/L			04/10/14 13:25	1
Ethylene Dibromide	ND		1.0		ug/L			04/10/14 13:25	1
Hexachlorobutadiene	ND		0.40		ug/L			04/10/14 13:25	1
Isopropyl ether	ND		10		ug/L			04/10/14 13:25	1
Isopropylbenzene	ND		1.0		ug/L			04/10/14 13:25	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/10/14 13:25	1
Methylene Chloride	ND		1.0		ug/L			04/10/14 13:25	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/10/14 13:25	1
Naphthalene	ND		5.0		ug/L			04/10/14 13:25	1

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: MB 480-174949/8

Matrix: Water

Analysis Batch: 174949

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	ND		1.0		ug/L			04/10/14 13:25	1
N-Propylbenzene	ND		1.0		ug/L			04/10/14 13:25	1
o-Xylene	ND		1.0		ug/L			04/10/14 13:25	1
sec-Butylbenzene	ND		1.0		ug/L			04/10/14 13:25	1
Styrene	ND		1.0		ug/L			04/10/14 13:25	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/10/14 13:25	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/10/14 13:25	1
tert-Butylbenzene	ND		1.0		ug/L			04/10/14 13:25	1
Tetrachloroethene	ND		1.0		ug/L			04/10/14 13:25	1
Tetrahydrofuran	ND		10		ug/L			04/10/14 13:25	1
Toluene	ND		1.0		ug/L			04/10/14 13:25	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/10/14 13:25	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/10/14 13:25	1
Trichloroethene	ND		1.0		ug/L			04/10/14 13:25	1
Trichlorofluoromethane	ND		1.0		ug/L			04/10/14 13:25	1
Vinyl chloride	ND		1.0		ug/L			04/10/14 13:25	1
Dibromomethane	ND		1.0		ug/L			04/10/14 13:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/10/14 13:25	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		04/10/14 13:25	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/10/14 13:25	1

Lab Sample ID: LCS 480-174949/5

Matrix: Water

Analysis Batch: 174949

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	26.5		ug/L		106	70 - 130
1,1,1-Trichloroethane	25.0	24.0		ug/L		96	70 - 130
1,1,2,2-Tetrachloroethane	25.0	25.3		ug/L		101	70 - 130
1,1,2-Trichloroethane	25.0	25.1		ug/L		100	70 - 130
1,1-Dichloroethane	25.0	25.0		ug/L		100	70 - 130
1,1-Dichloroethene	25.0	24.0		ug/L		96	70 - 130
1,1-Dichloropropene	25.0	24.9		ug/L		99	70 - 130
1,2,3-Trichlorobenzene	25.0	25.8		ug/L		103	70 - 130
1,2,3-Trichloropropane	25.0	25.5		ug/L		102	70 - 130
1,2,4-Trichlorobenzene	25.0	25.3		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	25.0	27.0		ug/L		108	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	26.7		ug/L		107	70 - 130
1,2-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130
1,2-Dichloroethane	25.0	22.9		ug/L		92	70 - 130
1,2-Dichloropropane	25.0	25.0		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	25.0	26.6		ug/L		107	70 - 130
1,3-Dichlorobenzene	25.0	25.6		ug/L		103	70 - 130
1,3-Dichloropropane	25.0	25.3		ug/L		101	70 - 130
1,4-Dichlorobenzene	25.0	25.9		ug/L		104	70 - 130
1,4-Dioxane	500	440		ug/L		88	70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCS 480-174949/5

Matrix: Water

Analysis Batch: 174949

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	25.0	25.6		ug/L		102	70 - 130
2-Butanone (MEK)	125	167	*	ug/L		134	70 - 130
2-Chlorotoluene	25.0	26.5		ug/L		106	70 - 130
2-Hexanone	125	190	*	ug/L		152	70 - 130
4-Chlorotoluene	25.0	28.0		ug/L		112	70 - 130
4-Isopropyltoluene	25.0	27.1		ug/L		108	70 - 130
4-Methyl-2-pentanone (MIBK)	125	130		ug/L		104	70 - 130
Acetone	125	108		ug/L		87	70 - 130
Benzene	25.0	24.6		ug/L		98	70 - 130
Bromobenzene	25.0	25.4		ug/L		101	70 - 130
Bromoform	25.0	24.6		ug/L		99	70 - 130
Bromomethane	25.0	21.4		ug/L		86	70 - 130
Carbon disulfide	25.0	25.5		ug/L		102	70 - 130
Carbon tetrachloride	25.0	25.2		ug/L		101	70 - 130
Chlorobenzene	25.0	25.6		ug/L		102	70 - 130
Chlorobromomethane	25.0	25.5		ug/L		102	70 - 130
Chlorodibromomethane	24.5	26.7		ug/L		109	70 - 130
Chloroethane	25.0	22.5		ug/L		90	70 - 130
Chloroform	25.0	23.8		ug/L		95	70 - 130
Chloromethane	25.0	22.4		ug/L		90	70 - 130
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	70 - 130
cis-1,3-Dichloropropene	25.0	25.6		ug/L		102	70 - 130
Dichlorobromomethane	25.0	24.9		ug/L		100	70 - 130
Dichlorodifluoromethane	25.0	23.0		ug/L		92	70 - 130
Ethyl ether	25.0	24.9		ug/L		100	70 - 130
Ethylbenzene	25.0	25.6		ug/L		102	70 - 130
Ethylene Dibromide	25.0	25.4		ug/L		101	70 - 130
Hexachlorobutadiene	25.0	28.5		ug/L		114	70 - 130
Isopropyl ether	25.0	23.0		ug/L		92	70 - 130
Isopropylbenzene	25.0	25.8		ug/L		103	70 - 130
Methyl tert-butyl ether	25.0	24.2		ug/L		97	70 - 130
Methylene Chloride	25.0	24.2		ug/L		97	70 - 130
m-Xylene & p-Xylene	25.0	26.2		ug/L		105	70 - 130
Naphthalene	25.0	24.8		ug/L		99	70 - 130
n-Butylbenzene	25.0	26.1		ug/L		105	70 - 130
N-Propylbenzene	25.0	25.5		ug/L		102	70 - 130
o-Xylene	25.0	26.3		ug/L		105	70 - 130
sec-Butylbenzene	25.0	25.9		ug/L		104	70 - 130
Styrene	25.0	26.1		ug/L		104	70 - 130
Tert-amyl methyl ether	25.0	23.0		ug/L		92	70 - 130
Tert-butyl ethyl ether	25.0	22.4		ug/L		90	70 - 130
tert-Butylbenzene	25.0	26.5		ug/L		106	70 - 130
Tetrachloroethene	25.0	26.3		ug/L		105	70 - 130
Tetrahydrofuran	50.0	49.8		ug/L		100	70 - 130
Toluene	25.0	26.1		ug/L		104	70 - 130
trans-1,2-Dichloroethene	25.0	24.9		ug/L		100	70 - 130
trans-1,3-Dichloropropene	25.0	26.4		ug/L		106	70 - 130
Trichloroethene	25.0	25.2		ug/L		101	70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCS 480-174949/5

Matrix: Water

Analysis Batch: 174949

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	25.0	21.3		ug/L		85	70 - 130
Vinyl chloride	25.0	21.9		ug/L		88	70 - 130
Dibromomethane	25.0	23.5		ug/L		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 480-174949/6

Matrix: Water

Analysis Batch: 174949

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	26.1		ug/L		105	70 - 130	1	20
1,1,1-Trichloroethane	25.0	23.1		ug/L		93	70 - 130	4	20
1,1,1,2,2-Tetrachloroethane	25.0	25.1		ug/L		101	70 - 130	1	20
1,1,2-Trichloroethane	25.0	24.8		ug/L		99	70 - 130	1	20
1,1-Dichloroethane	25.0	24.2		ug/L		97	70 - 130	3	20
1,1-Dichloroethene	25.0	22.9		ug/L		92	70 - 130	5	20
1,1-Dichloropropene	25.0	23.6		ug/L		94	70 - 130	5	20
1,2,3-Trichlorobenzene	25.0	26.3		ug/L		105	70 - 130	2	20
1,2,3-Trichloropropane	25.0	25.4		ug/L		101	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	26.0		ug/L		104	70 - 130	3	20
1,2,4-Trimethylbenzene	25.0	26.5		ug/L		106	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	26.3		ug/L		105	70 - 130	1	20
1,2-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130	0	20
1,2-Dichloroethane	25.0	22.6		ug/L		90	70 - 130	1	20
1,2-Dichloropropane	25.0	24.3		ug/L		97	70 - 130	3	20
1,3,5-Trimethylbenzene	25.0	26.1		ug/L		105	70 - 130	2	20
1,3-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130	0	20
1,3-Dichloropropane	25.0	24.7		ug/L		99	70 - 130	2	20
1,4-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130	1	20
1,4-Dioxane	500	495		ug/L		99	70 - 130	12	20
2,2-Dichloropropane	25.0	24.8		ug/L		99	70 - 130	3	20
2-Butanone (MEK)	125	161		ug/L		129	70 - 130	4	20
2-Chlorotoluene	25.0	26.3		ug/L		105	70 - 130	1	20
2-Hexanone	125	186 *		ug/L		149	70 - 130	2	20
4-Chlorotoluene	25.0	27.6		ug/L		110	70 - 130	2	20
4-Isopropyltoluene	25.0	26.6		ug/L		106	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)	125	127		ug/L		102	70 - 130	2	20
Acetone	125	106		ug/L		85	70 - 130	3	20
Benzene	25.0	23.6		ug/L		94	70 - 130	4	20
Bromobenzene	25.0	25.4		ug/L		102	70 - 130	0	20
Bromoform	25.0	24.3		ug/L		97	70 - 130	2	20
Bromomethane	25.0	20.3		ug/L		81	70 - 130	5	20
Carbon disulfide	25.0	23.6		ug/L		94	70 - 130	8	20
Carbon tetrachloride	25.0	24.2		ug/L		97	70 - 130	4	20

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

**Lab Sample ID: LCSD 480-174949/6**

**Matrix: Water**

**Analysis Batch: 174949**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Added	Result	Qualifier				Limits		
Chlorobenzene	25.0	24.7		ug/L		99	70 - 130	3	20
Chlorobromomethane	25.0	24.6		ug/L		99	70 - 130	4	20
Chlorodibromomethane	24.5	26.3		ug/L		107	70 - 130	2	20
Chloroethane	25.0	21.4		ug/L		86	70 - 130	5	20
Chloroform	25.0	23.2		ug/L		93	70 - 130	2	20
Chloromethane	25.0	21.0		ug/L		84	70 - 130	6	20
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	70 - 130	4	20
cis-1,3-Dichloropropene	25.0	25.0		ug/L		100	70 - 130	2	20
Dichlorobromomethane	25.0	24.5		ug/L		98	70 - 130	2	20
Dichlorodifluoromethane	25.0	21.8		ug/L		87	70 - 130	5	20
Ethyl ether	25.0	24.2		ug/L		97	70 - 130	3	20
Ethylbenzene	25.0	24.7		ug/L		99	70 - 130	3	20
Ethylene Dibromide	25.0	24.8		ug/L		99	70 - 130	2	20
Hexachlorobutadiene	25.0	28.5		ug/L		114	70 - 130	0	20
Isopropyl ether	25.0	22.5		ug/L		90	70 - 130	2	20
Isopropylbenzene	25.0	25.6		ug/L		102	70 - 130	1	20
Methyl tert-butyl ether	25.0	23.7		ug/L		95	70 - 130	2	20
Methylene Chloride	25.0	23.5		ug/L		94	70 - 130	3	20
m-Xylene & p-Xylene	25.0	25.6		ug/L		102	70 - 130	2	20
Naphthalene	25.0	25.9		ug/L		103	70 - 130	4	20
n-Butylbenzene	25.0	25.7		ug/L		103	70 - 130	2	20
N-Propylbenzene	25.0	25.2		ug/L		101	70 - 130	1	20
o-Xylene	25.0	25.7		ug/L		103	70 - 130	3	20
sec-Butylbenzene	25.0	25.6		ug/L		102	70 - 130	1	20
Styrene	25.0	25.6		ug/L		103	70 - 130	2	20
Tert-amyl methyl ether	25.0	22.8		ug/L		91	70 - 130	1	20
Tert-butyl ethyl ether	25.0	22.1		ug/L		88	70 - 130	2	20
tert-Butylbenzene	25.0	26.2		ug/L		105	70 - 130	1	20
Tetrachloroethene	25.0	26.1		ug/L		104	70 - 130	1	20
Tetrahydrofuran	50.0	48.5		ug/L		97	70 - 130	3	20
Toluene	25.0	24.9		ug/L		100	70 - 130	5	20
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 130	4	20
trans-1,3-Dichloropropene	25.0	26.4		ug/L		105	70 - 130	0	20
Trichloroethene	25.0	24.8		ug/L		99	70 - 130	2	20
Trichlorofluoromethane	25.0	20.0		ug/L		80	70 - 130	6	20
Vinyl chloride	25.0	20.5		ug/L		82	70 - 130	6	20
Dibromomethane	25.0	22.9		ug/L		91	70 - 130	3	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

**Lab Sample ID: MB 480-175074/8**

**Matrix: Water**

**Analysis Batch: 175074**

**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			04/11/14 01:02	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 01:02	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 01:02	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 01:02	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 01:02	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 01:02	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 01:02	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 01:02	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 01:02	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 01:02	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 01:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 01:02	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 01:02	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 01:02	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 01:02	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 01:02	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 01:02	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 01:02	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 01:02	1
1,4-Dioxane	ND		50		ug/L			04/11/14 01:02	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 01:02	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 01:02	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 01:02	1
2-Hexanone	ND		10		ug/L			04/11/14 01:02	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 01:02	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 01:02	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 01:02	1
Acetone	ND		50		ug/L			04/11/14 01:02	1
Benzene	ND		1.0		ug/L			04/11/14 01:02	1
Bromobenzene	ND		1.0		ug/L			04/11/14 01:02	1
Bromoform	ND		1.0		ug/L			04/11/14 01:02	1
Bromomethane	ND		2.0		ug/L			04/11/14 01:02	1
Carbon disulfide	ND		10		ug/L			04/11/14 01:02	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 01:02	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 01:02	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 01:02	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 01:02	1
Chloroethane	ND		2.0		ug/L			04/11/14 01:02	1
Chloroform	ND		1.0		ug/L			04/11/14 01:02	1
Chloromethane	ND		2.0		ug/L			04/11/14 01:02	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 01:02	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 01:02	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 01:02	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 01:02	1
Ethyl ether	ND		1.0		ug/L			04/11/14 01:02	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 01:02	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 01:02	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 01:02	1

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: MB 480-175074/8

Matrix: Water

Analysis Batch: 175074

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			04/11/14 01:02	1
Isopropylbenzene	ND		1.0		ug/L			04/11/14 01:02	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 01:02	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 01:02	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 01:02	1
Naphthalene	ND		5.0		ug/L			04/11/14 01:02	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 01:02	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 01:02	1
o-Xylene	ND		1.0		ug/L			04/11/14 01:02	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 01:02	1
Styrene	ND		1.0		ug/L			04/11/14 01:02	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 01:02	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 01:02	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 01:02	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 01:02	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 01:02	1
Toluene	ND		1.0		ug/L			04/11/14 01:02	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 01:02	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 01:02	1
Trichloroethene	ND		1.0		ug/L			04/11/14 01:02	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 01:02	1
Vinyl chloride	ND		1.0		ug/L			04/11/14 01:02	1
Dibromomethane	ND		1.0		ug/L			04/11/14 01:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		04/11/14 01:02	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		04/11/14 01:02	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/11/14 01:02	1

Lab Sample ID: LCS 480-175074/5

Matrix: Water

Analysis Batch: 175074

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	25.5		ug/L		102	70 - 130
1,1,1-Trichloroethane	25.0	22.7		ug/L		91	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.8		ug/L		95	70 - 130
1,1,2-Trichloroethane	25.0	23.8		ug/L		95	70 - 130
1,1-Dichloroethane	25.0	23.8		ug/L		95	70 - 130
1,1-Dichloroethane	25.0	22.8		ug/L		91	70 - 130
1,1-Dichloropropene	25.0	23.6		ug/L		94	70 - 130
1,2,3-Trichlorobenzene	25.0	24.4		ug/L		98	70 - 130
1,2,3-Trichloropropane	25.0	23.6		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,2,4-Trimethylbenzene	25.0	25.7		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.5		ug/L		98	70 - 130
1,2-Dichlorobenzene	25.0	24.4		ug/L		97	70 - 130
1,2-Dichloroethane	25.0	21.9		ug/L		88	70 - 130

TestAmerica Buffalo



# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCS 480-175074/5

Matrix: Water

Analysis Batch: 175074

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	24.1		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	25.0	25.4		ug/L		102	70 - 130
1,3-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130
1,3-Dichloropropane	25.0	23.8		ug/L		95	70 - 130
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,4-Dioxane	500	360		ug/L		72	70 - 130
2,2-Dichloropropane	25.0	23.8		ug/L		95	70 - 130
2-Butanone (MEK)	125	127		ug/L		102	70 - 130
2-Chlorotoluene	25.0	25.3		ug/L		101	70 - 130
2-Hexanone	125	177 *		ug/L		142	70 - 130
4-Chlorotoluene	25.0	26.4		ug/L		106	70 - 130
4-Isopropyltoluene	25.0	25.7		ug/L		103	70 - 130
4-Methyl-2-pentanone (MIBK)	125	120		ug/L		96	70 - 130
Acetone	125	99.6		ug/L		80	70 - 130
Benzene	25.0	23.6		ug/L		94	70 - 130
Bromobenzene	25.0	24.4		ug/L		98	70 - 130
Bromoform	25.0	23.2		ug/L		93	70 - 130
Bromomethane	25.0	20.9		ug/L		84	70 - 130
Carbon disulfide	25.0	24.1		ug/L		96	70 - 130
Carbon tetrachloride	25.0	24.1		ug/L		97	70 - 130
Chlorobenzene	25.0	24.3		ug/L		97	70 - 130
Chlorobromomethane	25.0	24.3		ug/L		97	70 - 130
Chlorodibromomethane	24.5	25.1		ug/L		103	70 - 130
Chloroethane	25.0	22.4		ug/L		89	70 - 130
Chloroform	25.0	22.9		ug/L		92	70 - 130
Chloromethane	25.0	21.8		ug/L		87	70 - 130
cis-1,2-Dichloroethene	25.0	24.1		ug/L		96	70 - 130
cis-1,3-Dichloropropene	25.0	24.1		ug/L		96	70 - 130
Dichlorobromomethane	25.0	23.7		ug/L		95	70 - 130
Dichlorodifluoromethane	25.0	22.6		ug/L		90	70 - 130
Ethyl ether	25.0	23.9		ug/L		96	70 - 130
Ethylbenzene	25.0	24.1		ug/L		96	70 - 130
Ethylene Dibromide	25.0	24.1		ug/L		97	70 - 130
Hexachlorobutadiene	25.0	27.1		ug/L		108	70 - 130
Isopropyl ether	25.0	23.0		ug/L		92	70 - 130
Isopropylbenzene	25.0	24.7		ug/L		99	70 - 130
Methyl tert-butyl ether	25.0	23.0		ug/L		92	70 - 130
Methylene Chloride	25.0	23.4		ug/L		94	70 - 130
m-Xylene & p-Xylene	25.0	25.1		ug/L		100	70 - 130
Naphthalene	25.0	23.5		ug/L		94	70 - 130
n-Butylbenzene	25.0	25.2		ug/L		101	70 - 130
N-Propylbenzene	25.0	24.3		ug/L		97	70 - 130
o-Xylene	25.0	24.7		ug/L		99	70 - 130
sec-Butylbenzene	25.0	24.8		ug/L		99	70 - 130
Styrene	25.0	24.7		ug/L		99	70 - 130
Tert-amyl methyl ether	25.0	22.8		ug/L		91	70 - 130
Tert-butyl ethyl ether	25.0	22.2		ug/L		89	70 - 130
tert-Butylbenzene	25.0	25.7		ug/L		103	70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCS 480-175074/5

Matrix: Water

Analysis Batch: 175074

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	26.5		ug/L		106	70 - 130
Tetrahydrofuran	50.0	47.2		ug/L		94	70 - 130
Toluene	25.0	24.5		ug/L		98	70 - 130
trans-1,2-Dichloroethene	25.0	23.7		ug/L		95	70 - 130
trans-1,3-Dichloropropene	25.0	24.9		ug/L		100	70 - 130
Trichloroethene	25.0	24.7		ug/L		99	70 - 130
Trichlorofluoromethane	25.0	20.9		ug/L		84	70 - 130
Vinyl chloride	25.0	21.3		ug/L		85	70 - 130
Dibromomethane	25.0	22.8		ug/L		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 480-175074/6

Matrix: Water

Analysis Batch: 175074

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	25.4		ug/L		102	70 - 130	0	20
1,1,1-Trichloroethane	25.0	22.5		ug/L		90	70 - 130	1	20
1,1,1,2,2-Tetrachloroethane	25.0	23.8		ug/L		95	70 - 130	0	20
1,1,1,2-Trichloroethane	25.0	24.1		ug/L		96	70 - 130	1	20
1,1-Dichloroethane	25.0	23.5		ug/L		94	70 - 130	2	20
1,1-Dichloroethene	25.0	22.4		ug/L		90	70 - 130	2	20
1,1-Dichloropropene	25.0	23.3		ug/L		93	70 - 130	1	20
1,2,3-Trichlorobenzene	25.0	24.9		ug/L		100	70 - 130	2	20
1,2,3-Trichloropropane	25.0	24.1		ug/L		96	70 - 130	2	20
1,2,4-Trichlorobenzene	25.0	24.5		ug/L		98	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	25.1		ug/L		100	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	25.4		ug/L		102	70 - 130	4	20
1,2-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130	1	20
1,2-Dichloroethane	25.0	21.9		ug/L		88	70 - 130	0	20
1,2-Dichloropropane	25.0	23.7		ug/L		95	70 - 130	2	20
1,3,5-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 130	3	20
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130	2	20
1,3-Dichloropropane	25.0	23.6		ug/L		94	70 - 130	1	20
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130	1	20
1,4-Dioxane	500	462	*	ug/L		92	70 - 130	25	20
2,2-Dichloropropane	25.0	23.1		ug/L		92	70 - 130	3	20
2-Butanone (MEK)	125	154		ug/L		123	70 - 130	19	20
2-Chlorotoluene	25.0	24.9		ug/L		99	70 - 130	2	20
2-Hexanone	125	181	*	ug/L		145	70 - 130	2	20
4-Chlorotoluene	25.0	25.4		ug/L		102	70 - 130	4	20
4-Isopropyltoluene	25.0	25.0		ug/L		100	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		98	70 - 130	2	20
Acetone	125	103		ug/L		82	70 - 130	3	20

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

**Lab Sample ID: LCSD 480-175074/6**

**Matrix: Water**

**Analysis Batch: 175074**

**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	RPD	Limit
Benzene	25.0	22.9		ug/L		92	70 - 130	3	20	
Bromobenzene	25.0	24.1		ug/L		97	70 - 130	1	20	
Bromoform	25.0	23.4		ug/L		94	70 - 130	1	20	
Bromomethane	25.0	20.3		ug/L		81	70 - 130	3	20	
Carbon disulfide	25.0	23.1		ug/L		92	70 - 130	4	20	
Carbon tetrachloride	25.0	23.7		ug/L		95	70 - 130	2	20	
Chlorobenzene	25.0	23.9		ug/L		96	70 - 130	1	20	
Chlorobromomethane	25.0	24.2		ug/L		97	70 - 130	1	20	
Chlorodibromomethane	24.5	24.9		ug/L		102	70 - 130	1	20	
Chloroethane	25.0	21.6		ug/L		86	70 - 130	4	20	
Chloroform	25.0	22.5		ug/L		90	70 - 130	2	20	
Chloromethane	25.0	21.3		ug/L		85	70 - 130	2	20	
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 130	2	20	
cis-1,3-Dichloropropene	25.0	24.0		ug/L		96	70 - 130	0	20	
Dichlorobromomethane	25.0	23.5		ug/L		94	70 - 130	1	20	
Dichlorodifluoromethane	25.0	22.1		ug/L		88	70 - 130	2	20	
Ethyl ether	25.0	23.5		ug/L		94	70 - 130	2	20	
Ethylbenzene	25.0	23.6		ug/L		94	70 - 130	2	20	
Ethylene Dibromide	25.0	23.7		ug/L		95	70 - 130	2	20	
Hexachlorobutadiene	25.0	26.5		ug/L		106	70 - 130	2	20	
Isopropyl ether	25.0	22.7		ug/L		91	70 - 130	2	20	
Isopropylbenzene	25.0	24.0		ug/L		96	70 - 130	3	20	
Methyl tert-butyl ether	25.0	23.4		ug/L		94	70 - 130	2	20	
Methylene Chloride	25.0	22.7		ug/L		91	70 - 130	3	20	
m-Xylene & p-Xylene	25.0	24.2		ug/L		97	70 - 130	3	20	
Naphthalene	25.0	24.4		ug/L		98	70 - 130	4	20	
n-Butylbenzene	25.0	24.0		ug/L		96	70 - 130	5	20	
N-Propylbenzene	25.0	23.5		ug/L		94	70 - 130	3	20	
o-Xylene	25.0	24.6		ug/L		98	70 - 130	0	20	
sec-Butylbenzene	25.0	23.9		ug/L		96	70 - 130	3	20	
Styrene	25.0	24.8		ug/L		99	70 - 130	0	20	
Tert-amyl methyl ether	25.0	22.9		ug/L		91	70 - 130	0	20	
Tert-butyl ethyl ether	25.0	22.3		ug/L		89	70 - 130	0	20	
tert-Butylbenzene	25.0	24.8		ug/L		99	70 - 130	4	20	
Tetrachloroethene	25.0	27.0		ug/L		108	70 - 130	2	20	
Tetrahydrofuran	50.0	45.9		ug/L		92	70 - 130	3	20	
Toluene	25.0	24.3		ug/L		97	70 - 130	1	20	
trans-1,2-Dichloroethene	25.0	23.1		ug/L		92	70 - 130	3	20	
trans-1,3-Dichloropropene	25.0	24.9		ug/L		100	70 - 130	0	20	
Trichloroethene	25.0	24.1		ug/L		97	70 - 130	2	20	
Trichlorofluoromethane	25.0	20.5		ug/L		82	70 - 130	2	20	
Vinyl chloride	25.0	20.4		ug/L		81	70 - 130	4	20	
Dibromomethane	25.0	22.6		ug/L		91	70 - 130	1	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

**Lab Sample ID: 480-57495-33 MS**

**Matrix: Water**

**Analysis Batch: 175074**

**Client Sample ID: REW-12-20140406-01**

**Prep Type: Total/NA**

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS Qualifier	Unit	D	%Rec	%Rec Limits
	Result			Result					
1,1,1,2-Tetrachloroethane	ND		100	81.2		ug/L		81	70 - 130
1,1,1-Trichloroethane	ND		100	62.2	F1	ug/L		62	70 - 130
1,1,2,2-Tetrachloroethane	ND		100	92.0		ug/L		92	70 - 130
1,1,2-Trichloroethane	ND		100	86.2		ug/L		86	70 - 130
1,1-Dichloroethane	ND		100	70.1		ug/L		70	70 - 130
1,1-Dichloroethene	ND		100	59.6	F1	ug/L		60	70 - 130
1,1-Dichloropropene	ND		100	61.7	F1	ug/L		62	70 - 130
1,2,3-Trichlorobenzene	ND		100	80.9		ug/L		81	70 - 130
1,2,3-Trichloropropane	ND		100	92.3		ug/L		92	70 - 130
1,2,4-Trichlorobenzene	ND		100	74.6		ug/L		75	70 - 130
1,2,4-Trimethylbenzene	ND		100	72.9		ug/L		73	70 - 130
1,2-Dibromo-3-Chloropropane	ND		100	98.1		ug/L		98	70 - 130
1,2-Dichlorobenzene	ND		100	78.0		ug/L		78	70 - 130
1,2-Dichloroethane	ND		100	74.7		ug/L		75	70 - 130
1,2-Dichloropropane	ND		100	75.6		ug/L		76	70 - 130
1,3,5-Trimethylbenzene	ND		100	69.4	F1	ug/L		69	70 - 130
1,3-Dichlorobenzene	ND		100	74.5		ug/L		74	70 - 130
1,3-Dichloropropane	ND		100	84.6		ug/L		85	70 - 130
1,4-Dichlorobenzene	ND		100	75.6		ug/L		76	70 - 130
1,4-Dioxane	ND *		2000	1520		ug/L		76	70 - 130
2,2-Dichloropropane	ND		100	55.3	F1	ug/L		55	70 - 130
2-Butanone (MEK)	ND		500	504		ug/L		101	70 - 130
2-Chlorotoluene	ND		100	72.9		ug/L		73	70 - 130
2-Hexanone	ND *		500	703	F1	ug/L		141	70 - 130
4-Chlorotoluene	ND		100	76.3		ug/L		76	70 - 130
4-Isopropyltoluene	ND		100	67.8	F1	ug/L		68	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		500	485		ug/L		97	70 - 130
Acetone	ND		500	422		ug/L		84	70 - 130
Benzene	ND		100	69.2	F1	ug/L		69	70 - 130
Bromobenzene	ND		100	75.8		ug/L		76	70 - 130
Bromoform	ND		100	84.4		ug/L		84	70 - 130
Bromomethane	ND		100	61.2	F1	ug/L		61	70 - 130
Carbon disulfide	ND		100	62.3	F1	ug/L		62	70 - 130
Carbon tetrachloride	ND		100	62.0	F1	ug/L		62	70 - 130
Chlorobenzene	ND		100	72.4		ug/L		72	70 - 130
Chlorobromomethane	ND		100	83.0		ug/L		83	70 - 130
Chlorodibromomethane	ND		98.0	85.8		ug/L		88	70 - 130
Chloroethane	ND		100	62.2	F1	ug/L		62	70 - 130
Chloroform	ND		100	69.4	F1	ug/L		69	70 - 130
Chloromethane	ND		100	61.7	F1	ug/L		62	70 - 130
cis-1,2-Dichloroethene	310		100	382		ug/L		76	70 - 130
cis-1,3-Dichloropropene	ND		100	72.2		ug/L		72	70 - 130
Dichlorobromomethane	ND		100	76.8		ug/L		77	70 - 130
Dichlorodifluoromethane	ND		100	50.8	F1	ug/L		51	70 - 130
Ethyl ether	ND		100	82.8		ug/L		83	70 - 130
Ethylbenzene	ND		100	66.6	F1	ug/L		67	70 - 130
Ethylene Dibromide	ND		100	86.9		ug/L		87	70 - 130
Hexachlorobutadiene	ND		100	72.5		ug/L		73	70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

**Lab Sample ID: 480-57495-33 MS**

**Matrix: Water**

**Analysis Batch: 175074**

**Client Sample ID: REW-12-20140406-01**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Isopropyl ether	ND		100	72.8		ug/L		73	70 - 130
Isopropylbenzene	ND		100	65.0	F1	ug/L		65	70 - 130
Methyl tert-butyl ether	ND		100	84.3		ug/L		84	70 - 130
Methylene Chloride	ND		100	74.3		ug/L		74	70 - 130
m-Xylene & p-Xylene	ND		100	70.5		ug/L		71	70 - 130
Naphthalene	ND		100	85.8		ug/L		86	70 - 130
n-Butylbenzene	ND		100	65.6	F1	ug/L		66	70 - 130
N-Propylbenzene	ND		100	64.2	F1	ug/L		64	70 - 130
o-Xylene	ND		100	72.4		ug/L		72	70 - 130
sec-Butylbenzene	ND		100	65.1	F1	ug/L		65	70 - 130
Styrene	ND		100	74.7		ug/L		75	70 - 130
Tert-amyl methyl ether	ND		100	79.3		ug/L		79	70 - 130
Tert-butyl ethyl ether	ND		100	73.8		ug/L		74	70 - 130
tert-Butylbenzene	ND		100	66.5	F1	ug/L		67	70 - 130
Tetrachloroethene	ND		100	66.5	F1	ug/L		64	70 - 130
Tetrahydrofuran	ND		200	194		ug/L		97	70 - 130
Toluene	28		100	98.6		ug/L		71	70 - 130
trans-1,2-Dichloroethene	ND		100	68.1	F1	ug/L		68	70 - 130
trans-1,3-Dichloropropene	ND		100	80.6		ug/L		81	70 - 130
Trichloroethene	50		100	118	F1	ug/L		68	70 - 130
Trichlorofluoromethane	ND		100	51.8	F1	ug/L		52	70 - 130
Vinyl chloride	55		100	108	F1	ug/L		52	70 - 130
Dibromomethane	ND		100	80.5		ug/L		81	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130

**Lab Sample ID: 480-57495-33 MSD**

**Matrix: Water**

**Analysis Batch: 175074**

**Client Sample ID: REW-12-20140406-01**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	ND		100	84.0		ug/L		84	70 - 130	3	20
1,1,1-Trichloroethane	ND		100	66.7	F1	ug/L		67	70 - 130	7	20
1,1,1,2-Tetrachloroethane	ND		100	92.8		ug/L		93	70 - 130	1	20
1,1,2-Trichloroethane	ND		100	87.1		ug/L		87	70 - 130	1	20
1,1-Dichloroethane	ND		100	74.1		ug/L		74	70 - 130	6	20
1,1-Dichloroethene	ND		100	64.6	F1	ug/L		65	70 - 130	8	20
1,1-Dichloropropene	ND		100	68.2	F1	ug/L		68	70 - 130	10	20
1,2,3-Trichlorobenzene	ND		100	87.2		ug/L		87	70 - 130	7	20
1,2,3-Trichloropropane	ND		100	93.7		ug/L		94	70 - 130	2	20
1,2,4-Trichlorobenzene	ND		100	80.6		ug/L		81	70 - 130	8	20
1,2,4-Trimethylbenzene	ND		100	78.0		ug/L		78	70 - 130	7	20
1,2-Dibromo-3-Chloropropane	ND		100	98.6		ug/L		99	70 - 130	1	20
1,2-Dichlorobenzene	ND		100	81.8		ug/L		82	70 - 130	5	20
1,2-Dichloroethane	ND		100	76.6		ug/L		77	70 - 130	3	20

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: 480-57495-33 MSD

Matrix: Water

Analysis Batch: 175074

Client Sample ID: REW-12-20140406-01

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,2-Dichloropropane	ND		100	80.4		ug/L		80	70 - 130	6	20
1,3,5-Trimethylbenzene	ND		100	74.6		ug/L		75	70 - 130	7	20
1,3-Dichlorobenzene	ND		100	79.7		ug/L		80	70 - 130	7	20
1,3-Dichloropropane	ND		100	87.7		ug/L		88	70 - 130	4	20
1,4-Dichlorobenzene	ND		100	80.2		ug/L		80	70 - 130	6	20
1,4-Dioxane	ND *		2000	1810		ug/L		90	70 - 130	18	20
2,2-Dichloropropane	ND		100	58.6	F1	ug/L		59	70 - 130	6	20
2-Butanone (MEK)	ND		500	512		ug/L		102	70 - 130	1	20
2-Chlorotoluene	ND		100	77.5		ug/L		77	70 - 130	6	20
2-Hexanone	ND *		500	699	F1	ug/L		140	70 - 130	1	20
4-Chlorotoluene	ND		100	81.9		ug/L		82	70 - 130	7	20
4-Isopropyltoluene	ND		100	74.4		ug/L		74	70 - 130	9	20
4-Methyl-2-pentanone (MIBK)	ND		500	478		ug/L		96	70 - 130	1	20
Acetone	ND		500	390		ug/L		78	70 - 130	8	20
Benzene	ND		100	73.0		ug/L		73	70 - 130	5	20
Bromobenzene	ND		100	82.2		ug/L		82	70 - 130	8	20
Bromoform	ND		100	88.1		ug/L		88	70 - 130	4	20
Bromomethane	ND		100	66.2	F1	ug/L		66	70 - 130	8	20
Carbon disulfide	ND		100	68.7	F1	ug/L		69	70 - 130	10	20
Carbon tetrachloride	ND		100	68.2	F1	ug/L		68	70 - 130	10	20
Chlorobenzene	ND		100	78.0		ug/L		78	70 - 130	8	20
Chlorobromomethane	ND		100	84.6		ug/L		85	70 - 130	2	20
Chlorodibromomethane	ND		98.0	88.8		ug/L		91	70 - 130	3	20
Chloroethane	ND		100	70.6		ug/L		71	70 - 130	13	20
Chloroform	ND		100	73.1		ug/L		73	70 - 130	5	20
Chloromethane	ND		100	69.9		ug/L		70	70 - 130	12	20
cis-1,2-Dichloroethene	310		100	373	F1	ug/L		68	70 - 130	2	20
cis-1,3-Dichloropropene	ND		100	76.9		ug/L		77	70 - 130	6	20
Dichlorobromomethane	ND		100	80.3		ug/L		80	70 - 130	5	20
Dichlorodifluoromethane	ND		100	59.2	F1	ug/L		59	70 - 130	15	20
Ethyl ether	ND		100	84.9		ug/L		85	70 - 130	2	20
Ethylbenzene	ND		100	71.9		ug/L		72	70 - 130	8	20
Ethylene Dibromide	ND		100	89.5		ug/L		89	70 - 130	3	20
Hexachlorobutadiene	ND		100	81.5		ug/L		82	70 - 130	12	20
Isopropyl ether	ND		100	71.6		ug/L		72	70 - 130	2	20
Isopropylbenzene	ND		100	70.4		ug/L		70	70 - 130	8	20
Methyl tert-butyl ether	ND		100	84.7		ug/L		85	70 - 130	0	20
Methylene Chloride	ND		100	76.2		ug/L		76	70 - 130	2	20
m-Xylene & p-Xylene	ND		100	76.3		ug/L		76	70 - 130	8	20
Naphthalene	ND		100	89.7		ug/L		90	70 - 130	4	20
n-Butylbenzene	ND		100	72.0		ug/L		72	70 - 130	9	20
N-Propylbenzene	ND		100	69.8		ug/L		70	70 - 130	8	20
o-Xylene	ND		100	77.7		ug/L		78	70 - 130	7	20
sec-Butylbenzene	ND		100	70.9		ug/L		71	70 - 130	9	20
Styrene	ND		100	79.3		ug/L		79	70 - 130	6	20
Tert-amyl methyl ether	ND		100	78.6		ug/L		79	70 - 130	1	20
Tert-butyl ethyl ether	ND		100	71.9		ug/L		72	70 - 130	3	20
tert-Butylbenzene	ND		100	73.6		ug/L		74	70 - 130	10	20

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: 480-57495-33 MSD

Matrix: Water

Analysis Batch: 175074

Client Sample ID: REW-12-20140406-01

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Tetrachloroethene	ND		100	72.7		ug/L		70	70 - 130	9	20
Tetrahydrofuran	ND		200	188		ug/L		94	70 - 130	3	20
Toluene	28		100	103		ug/L		76	70 - 130	5	20
trans-1,2-Dichloroethene	ND		100	70.8		ug/L		71	70 - 130	4	20
trans-1,3-Dichloropropene	ND		100	83.6		ug/L		84	70 - 130	4	20
Trichloroethene	50		100	122		ug/L		72	70 - 130	4	20
Trichlorofluoromethane	ND		100	60.8	F1	ug/L		61	70 - 130	16	20
Vinyl chloride	55		100	112	F1	ug/L		57	70 - 130	4	20
Dibromomethane	ND		100	83.2		ug/L		83	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 480-175163/8

Matrix: Water

Analysis Batch: 175163

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/11/14 12:27	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 12:27	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 12:27	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 12:27	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 12:27	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 12:27	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 12:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 12:27	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 12:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 12:27	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 12:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 12:27	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 12:27	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 12:27	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 12:27	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 12:27	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 12:27	1
1,4-Dioxane	ND		50		ug/L			04/11/14 12:27	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 12:27	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 12:27	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 12:27	1
2-Hexanone	ND		10		ug/L			04/11/14 12:27	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 12:27	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 12:27	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 12:27	1
Acetone	ND		50		ug/L			04/11/14 12:27	1

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: MB 480-175163/8

Matrix: Water

Analysis Batch: 175163

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		1.0		ug/L			04/11/14 12:27	1
Bromobenzene	ND		1.0		ug/L			04/11/14 12:27	1
Bromoform	ND		1.0		ug/L			04/11/14 12:27	1
Bromomethane	ND		2.0		ug/L			04/11/14 12:27	1
Carbon disulfide	ND		10		ug/L			04/11/14 12:27	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 12:27	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 12:27	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 12:27	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 12:27	1
Chloroethane	ND		2.0		ug/L			04/11/14 12:27	1
Chloroform	ND		1.0		ug/L			04/11/14 12:27	1
Chloromethane	ND		2.0		ug/L			04/11/14 12:27	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 12:27	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 12:27	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 12:27	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 12:27	1
Ethyl ether	ND		1.0		ug/L			04/11/14 12:27	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 12:27	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 12:27	1
Isopropyl ether	ND		10		ug/L			04/11/14 12:27	1
Isopropylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 12:27	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 12:27	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 12:27	1
Naphthalene	ND		5.0		ug/L			04/11/14 12:27	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
o-Xylene	ND		1.0		ug/L			04/11/14 12:27	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
Styrene	ND		1.0		ug/L			04/11/14 12:27	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 12:27	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 12:27	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 12:27	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 12:27	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 12:27	1
Toluene	ND		1.0		ug/L			04/11/14 12:27	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 12:27	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 12:27	1
Trichloroethene	ND		1.0		ug/L			04/11/14 12:27	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 12:27	1
Vinyl chloride	ND		1.0		ug/L			04/11/14 12:27	1
Dibromomethane	ND		1.0		ug/L			04/11/14 12:27	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	97		70 - 130		04/11/14 12:27	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		04/11/14 12:27	1
4-Bromofluorobenzene (Surr)	101		70 - 130		04/11/14 12:27	1

TestAmerica Buffalo



# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

**Lab Sample ID: LCS 480-175163/5**

**Matrix: Water**

**Analysis Batch: 175163**

**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	26.3		ug/L		105	70 - 130
1,1,1-Trichloroethane	25.0	23.6		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.9		ug/L		100	70 - 130
1,1,2-Trichloroethane	25.0	24.7		ug/L		99	70 - 130
1,1-Dichloroethane	25.0	24.3		ug/L		97	70 - 130
1,1-Dichloroethene	25.0	23.3		ug/L		93	70 - 130
1,1-Dichloropropene	25.0	24.1		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,2,3-Trichloropropane	25.0	25.2		ug/L		101	70 - 130
1,2,4-Trichlorobenzene	25.0	25.6		ug/L		103	70 - 130
1,2,4-Trimethylbenzene	25.0	26.9		ug/L		108	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.5		ug/L		102	70 - 130
1,2-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130
1,2-Dichloroethane	25.0	22.2		ug/L		89	70 - 130
1,2-Dichloropropane	25.0	24.9		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	25.0	26.6		ug/L		106	70 - 130
1,3-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,3-Dichloropropane	25.0	24.7		ug/L		99	70 - 130
1,4-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130
1,4-Dioxane	500	395		ug/L		79	70 - 130
2,2-Dichloropropane	25.0	25.0		ug/L		100	70 - 130
2-Butanone (MEK)	125	131		ug/L		105	70 - 130
2-Chlorotoluene	25.0	26.4		ug/L		106	70 - 130
2-Hexanone	125	182 *		ug/L		145	70 - 130
4-Chlorotoluene	25.0	28.0		ug/L		112	70 - 130
4-Isopropyltoluene	25.0	26.8		ug/L		107	70 - 130
4-Methyl-2-pentanone (MIBK)	125	126		ug/L		101	70 - 130
Acetone	125	104		ug/L		83	70 - 130
Benzene	25.0	24.2		ug/L		97	70 - 130
Bromobenzene	25.0	25.4		ug/L		101	70 - 130
Bromoform	25.0	23.9		ug/L		95	70 - 130
Bromomethane	25.0	20.9		ug/L		83	70 - 130
Carbon disulfide	25.0	24.7		ug/L		99	70 - 130
Carbon tetrachloride	25.0	24.5		ug/L		98	70 - 130
Chlorobenzene	25.0	25.4		ug/L		102	70 - 130
Chlorobromomethane	25.0	25.1		ug/L		100	70 - 130
Chlorodibromomethane	24.5	25.8		ug/L		105	70 - 130
Chloroethane	25.0	22.1		ug/L		89	70 - 130
Chloroform	25.0	23.3		ug/L		93	70 - 130
Chloromethane	25.0	22.7		ug/L		91	70 - 130
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	70 - 130
cis-1,3-Dichloropropene	25.0	24.8		ug/L		99	70 - 130
Dichlorobromomethane	25.0	24.5		ug/L		98	70 - 130
Dichlorodifluoromethane	25.0	24.2		ug/L		97	70 - 130
Ethyl ether	25.0	24.7		ug/L		99	70 - 130
Ethylbenzene	25.0	24.9		ug/L		100	70 - 130
Ethylene Dibromide	25.0	25.0		ug/L		100	70 - 130
Hexachlorobutadiene	25.0	27.8		ug/L		111	70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCS 480-175163/5

Matrix: Water

Analysis Batch: 175163

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropyl ether	25.0	22.5		ug/L		90	70 - 130
Isopropylbenzene	25.0	25.7		ug/L		103	70 - 130
Methyl tert-butyl ether	25.0	23.8		ug/L		95	70 - 130
Methylene Chloride	25.0	23.9		ug/L		95	70 - 130
m-Xylene & p-Xylene	25.0	25.9		ug/L		104	70 - 130
Naphthalene	25.0	25.0		ug/L		100	70 - 130
n-Butylbenzene	25.0	25.7		ug/L		103	70 - 130
N-Propylbenzene	25.0	25.3		ug/L		101	70 - 130
o-Xylene	25.0	25.9		ug/L		104	70 - 130
sec-Butylbenzene	25.0	25.5		ug/L		102	70 - 130
Styrene	25.0	26.0		ug/L		104	70 - 130
Tert-amyl methyl ether	25.0	22.6		ug/L		91	70 - 130
Tert-butyl ethyl ether	25.0	21.9		ug/L		88	70 - 130
tert-Butylbenzene	25.0	26.6		ug/L		106	70 - 130
Tetrachloroethene	25.0	25.9		ug/L		104	70 - 130
Tetrahydrofuran	50.0	47.9		ug/L		96	70 - 130
Toluene	25.0	25.5		ug/L		102	70 - 130
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130
trans-1,3-Dichloropropene	25.0	25.9		ug/L		104	70 - 130
Trichloroethene	25.0	25.1		ug/L		100	70 - 130
Trichlorofluoromethane	25.0	20.6		ug/L		83	70 - 130
Vinyl chloride	25.0	21.3		ug/L		85	70 - 130
Dibromomethane	25.0	23.0		ug/L		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 480-175163/6

Matrix: Water

Analysis Batch: 175163

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	25.8		ug/L		103	70 - 130	2	20
1,1,1-Trichloroethane	25.0	23.0		ug/L		92	70 - 130	3	20
1,1,1,2-Tetrachloroethane	25.0	24.9		ug/L		100	70 - 130	0	20
1,1,2-Trichloroethane	25.0	24.5		ug/L		98	70 - 130	1	20
1,1-Dichloroethane	25.0	23.8		ug/L		95	70 - 130	2	20
1,1-Dichloroethane	25.0	22.5		ug/L		90	70 - 130	4	20
1,1-Dichloropropene	25.0	23.2		ug/L		93	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	25.9		ug/L		104	70 - 130	0	20
1,2,3-Trichloropropane	25.0	25.1		ug/L		100	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	25.5		ug/L		102	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	26.2		ug/L		105	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	25.8		ug/L		103	70 - 130	1	20
1,2-Dichlorobenzene	25.0	25.1		ug/L		101	70 - 130	2	20
1,2-Dichloroethane	25.0	22.3		ug/L		89	70 - 130	0	20

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

**Lab Sample ID: LCSD 480-175163/6**

**Matrix: Water**

**Analysis Batch: 175163**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
1,2-Dichloropropane	25.0	24.4		ug/L		98	70 - 130	2	20
1,3,5-Trimethylbenzene	25.0	26.0		ug/L		104	70 - 130	2	20
1,3-Dichlorobenzene	25.0	25.3		ug/L		101	70 - 130	2	20
1,3-Dichloropropane	25.0	24.4		ug/L		98	70 - 130	1	20
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	1	20
1,4-Dioxane	500	466		ug/L		93	70 - 130	16	20
2,2-Dichloropropane	25.0	23.9		ug/L		96	70 - 130	5	20
2-Butanone (MEK)	125	127		ug/L		101	70 - 130	3	20
2-Chlorotoluene	25.0	26.0		ug/L		104	70 - 130	2	20
2-Hexanone	125	182 *		ug/L		145	70 - 130	0	20
4-Chlorotoluene	25.0	26.7		ug/L		107	70 - 130	5	20
4-Isopropyltoluene	25.0	26.0		ug/L		104	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	125	125		ug/L		100	70 - 130	1	20
Acetone	125	103		ug/L		82	70 - 130	1	20
Benzene	25.0	23.6		ug/L		95	70 - 130	3	20
Bromobenzene	25.0	25.4		ug/L		102	70 - 130	0	20
Bromoform	25.0	24.1		ug/L		96	70 - 130	1	20
Bromomethane	25.0	20.3		ug/L		81	70 - 130	3	20
Carbon disulfide	25.0	24.0		ug/L		96	70 - 130	3	20
Carbon tetrachloride	25.0	23.8		ug/L		95	70 - 130	3	20
Chlorobenzene	25.0	24.5		ug/L		98	70 - 130	4	20
Chlorobromomethane	25.0	24.4		ug/L		97	70 - 130	3	20
Chlorodibromomethane	24.5	25.7		ug/L		105	70 - 130	0	20
Chloroethane	25.0	21.3		ug/L		85	70 - 130	4	20
Chloroform	25.0	22.8		ug/L		91	70 - 130	2	20
Chloromethane	25.0	21.5		ug/L		86	70 - 130	5	20
cis-1,2-Dichloroethene	25.0	24.7		ug/L		99	70 - 130	2	20
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	70 - 130	0	20
Dichlorobromomethane	25.0	24.0		ug/L		96	70 - 130	2	20
Dichlorodifluoromethane	25.0	22.6		ug/L		90	70 - 130	7	20
Ethyl ether	25.0	24.4		ug/L		98	70 - 130	1	20
Ethylbenzene	25.0	24.3		ug/L		97	70 - 130	2	20
Ethylene Dibromide	25.0	24.2		ug/L		97	70 - 130	3	20
Hexachlorobutadiene	25.0	27.6		ug/L		111	70 - 130	0	20
Isopropyl ether	25.0	22.1		ug/L		88	70 - 130	2	20
Isopropylbenzene	25.0	24.9		ug/L		99	70 - 130	3	20
Methyl tert-butyl ether	25.0	24.0		ug/L		96	70 - 130	1	20
Methylene Chloride	25.0	23.2		ug/L		93	70 - 130	3	20
m-Xylene & p-Xylene	25.0	25.2		ug/L		101	70 - 130	3	20
Naphthalene	25.0	25.5		ug/L		102	70 - 130	2	20
n-Butylbenzene	25.0	25.4		ug/L		102	70 - 130	1	20
N-Propylbenzene	25.0	24.5		ug/L		98	70 - 130	3	20
o-Xylene	25.0	25.2		ug/L		101	70 - 130	3	20
sec-Butylbenzene	25.0	25.0		ug/L		100	70 - 130	2	20
Styrene	25.0	25.4		ug/L		102	70 - 130	2	20
Tert-amyl methyl ether	25.0	22.3		ug/L		89	70 - 130	1	20
Tert-butyl ethyl ether	25.0	21.6		ug/L		86	70 - 130	1	20
tert-Butylbenzene	25.0	25.7		ug/L		103	70 - 130	3	20

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

**Lab Sample ID: LCSD 480-175163/6**

**Matrix: Water**

**Analysis Batch: 175163**

**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
Tetrachloroethene	25.0	25.5		ug/L		102	70 - 130	2	20
Tetrahydrofuran	50.0	47.5		ug/L		95	70 - 130	1	20
Toluene	25.0	24.8		ug/L		99	70 - 130	3	20
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	70 - 130	4	20
trans-1,3-Dichloropropene	25.0	25.4		ug/L		102	70 - 130	2	20
Trichloroethene	25.0	24.1		ug/L		96	70 - 130	4	20
Trichlorofluoromethane	25.0	19.6		ug/L		78	70 - 130	5	20
Vinyl chloride	25.0	20.3		ug/L		81	70 - 130	5	20
Dibromomethane	25.0	23.0		ug/L		92	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130

**Lab Sample ID: 480-57495-17 MS**

**Matrix: Water**

**Analysis Batch: 175163**

**Client Sample ID: MW-551-20140408-01**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		1000	1070		ug/L		107	70 - 130
1,1,1-Trichloroethane	ND		1000	980		ug/L		98	70 - 130
1,1,1,2,2-Tetrachloroethane	ND		1000	992		ug/L		99	70 - 130
1,1,2-Trichloroethane	ND		1000	985		ug/L		99	70 - 130
1,1-Dichloroethane	ND		1000	1010		ug/L		101	70 - 130
1,1-Dichloroethene	ND		1000	987		ug/L		99	70 - 130
1,1-Dichloropropene	ND		1000	994		ug/L		99	70 - 130
1,2,3-Trichlorobenzene	ND		1000	1010		ug/L		101	70 - 130
1,2,3-Trichloropropane	ND		1000	995		ug/L		99	70 - 130
1,2,4-Trichlorobenzene	ND		1000	975		ug/L		97	70 - 130
1,2,4-Trimethylbenzene	ND		1000	1050		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	ND		1000	975		ug/L		97	70 - 130
1,2-Dichlorobenzene	ND		1000	1010		ug/L		101	70 - 130
1,2-Dichloroethane	ND		1000	907		ug/L		91	70 - 130
1,2-Dichloropropane	ND		1000	1020		ug/L		102	70 - 130
1,3,5-Trimethylbenzene	ND		1000	1040		ug/L		104	70 - 130
1,3-Dichlorobenzene	ND		1000	1020		ug/L		102	70 - 130
1,3-Dichloropropane	ND		1000	993		ug/L		99	70 - 130
1,4-Dichlorobenzene	ND		1000	1010		ug/L		101	70 - 130
1,4-Dioxane	ND		20000	15000		ug/L		75	70 - 130
2,2-Dichloropropane	ND		1000	881		ug/L		88	70 - 130
2-Butanone (MEK)	ND		5000	6380		ug/L		124	70 - 130
2-Chlorotoluene	ND		1000	1050		ug/L		105	70 - 130
2-Hexanone	ND *		5000	7010	F1	ug/L		140	70 - 130
4-Chlorotoluene	ND		1000	1080		ug/L		108	70 - 130
4-Isopropyltoluene	ND		1000	1050		ug/L		105	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		5000	4930		ug/L		99	70 - 130
Acetone	15000		5000	19300		ug/L		92	70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: 480-57495-17 MS

Matrix: Water

Analysis Batch: 175163

Client Sample ID: MW-551-20140408-01

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Benzene	ND		1000	1000		ug/L		100	70 - 130
Bromobenzene	ND		1000	1020		ug/L		102	70 - 130
Bromoform	ND		1000	938		ug/L		94	70 - 130
Bromomethane	ND		1000	904		ug/L		90	70 - 130
Carbon disulfide	ND		1000	1000		ug/L		100	70 - 130
Carbon tetrachloride	ND		1000	1020		ug/L		102	70 - 130
Chlorobenzene	ND		1000	1010		ug/L		101	70 - 130
Chlorobromomethane	ND		1000	1040		ug/L		104	70 - 130
Chlorodibromomethane	ND		980	1020		ug/L		104	70 - 130
Chloroethane	ND		1000	966		ug/L		97	70 - 130
Chloroform	ND		1000	972		ug/L		97	70 - 130
Chloromethane	ND		1000	989		ug/L		99	70 - 130
cis-1,2-Dichloroethene	ND		1000	1030		ug/L		103	70 - 130
cis-1,3-Dichloropropene	ND		1000	948		ug/L		95	70 - 130
Dichlorobromomethane	ND		1000	994		ug/L		99	70 - 130
Dichlorodifluoromethane	ND		1000	1040		ug/L		104	70 - 130
Ethyl ether	ND		1000	997		ug/L		100	70 - 130
Ethylbenzene	ND		1000	1000		ug/L		100	70 - 130
Ethylene Dibromide	ND		1000	992		ug/L		99	70 - 130
Hexachlorobutadiene	ND		1000	1100		ug/L		110	70 - 130
Isopropyl ether	ND		1000	903		ug/L		90	70 - 130
Isopropylbenzene	ND		1000	1010		ug/L		101	70 - 130
Methyl tert-butyl ether	ND		1000	970		ug/L		97	70 - 130
Methylene Chloride	ND		1000	1010		ug/L		101	70 - 130
m-Xylene & p-Xylene	ND		1000	1040		ug/L		104	70 - 130
Naphthalene	ND		1000	952		ug/L		95	70 - 130
n-Butylbenzene	ND		1000	1010		ug/L		101	70 - 130
N-Propylbenzene	ND		1000	988		ug/L		99	70 - 130
o-Xylene	ND		1000	1040		ug/L		104	70 - 130
sec-Butylbenzene	ND		1000	1020		ug/L		102	70 - 130
Styrene	ND		1000	1030		ug/L		103	70 - 130
Tert-amyl methyl ether	ND		1000	898		ug/L		90	70 - 130
Tert-butyl ethyl ether	ND		1000	878		ug/L		88	70 - 130
tert-Butylbenzene	ND		1000	1050		ug/L		105	70 - 130
Tetrachloroethene	ND		1000	1020		ug/L		102	70 - 130
Tetrahydrofuran	ND		2000	1910		ug/L		95	70 - 130
Toluene	ND		1000	1030		ug/L		103	70 - 130
trans-1,2-Dichloroethene	ND		1000	1020		ug/L		102	70 - 130
trans-1,3-Dichloropropene	ND		1000	979		ug/L		98	70 - 130
Trichloroethene	ND		1000	1030		ug/L		103	70 - 130
Trichlorofluoromethane	ND		1000	894		ug/L		89	70 - 130
Vinyl chloride	ND		1000	966		ug/L		97	70 - 130
Dibromomethane	ND		1000	945		ug/L		94	70 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: 480-57495-17 MSD

Matrix: Water

Analysis Batch: 175163

Client Sample ID: MW-551-20140408-01

Prep Type: Total/NA

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Result			Result					Limits		
1,1,1,2-Tetrachloroethane	ND		1000	1030		ug/L		103	70 - 130	4	20
1,1,1-Trichloroethane	ND		1000	931		ug/L		93	70 - 130	5	20
1,1,2,2-Tetrachloroethane	ND		1000	985		ug/L		98	70 - 130	1	20
1,1,2-Trichloroethane	ND		1000	978		ug/L		98	70 - 130	1	20
1,1-Dichloroethane	ND		1000	974		ug/L		97	70 - 130	4	20
1,1-Dichloroethene	ND		1000	923		ug/L		92	70 - 130	7	20
1,1-Dichloropropene	ND		1000	961		ug/L		96	70 - 130	3	20
1,2,3-Trichlorobenzene	ND		1000	1020		ug/L		102	70 - 130	1	20
1,2,3-Trichloropropane	ND		1000	973		ug/L		97	70 - 130	2	20
1,2,4-Trichlorobenzene	ND		1000	985		ug/L		98	70 - 130	1	20
1,2,4-Trimethylbenzene	ND		1000	1030		ug/L		103	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	ND		1000	1010		ug/L		101	70 - 130	4	20
1,2-Dichlorobenzene	ND		1000	996		ug/L		100	70 - 130	1	20
1,2-Dichloroethane	ND		1000	898		ug/L		90	70 - 130	1	20
1,2-Dichloropropane	ND		1000	994		ug/L		99	70 - 130	2	20
1,3,5-Trimethylbenzene	ND		1000	1020		ug/L		102	70 - 130	2	20
1,3-Dichlorobenzene	ND		1000	1010		ug/L		101	70 - 130	2	20
1,3-Dichloropropane	ND		1000	982		ug/L		98	70 - 130	1	20
1,4-Dichlorobenzene	ND		1000	999		ug/L		100	70 - 130	1	20
1,4-Dioxane	ND		20000	18400	F2	ug/L		92	70 - 130	21	20
2,2-Dichloropropane	ND		1000	839		ug/L		84	70 - 130	5	20
2-Butanone (MEK)	ND		5000	6550		ug/L		127	70 - 130	3	20
2-Chlorotoluene	ND		1000	1030		ug/L		103	70 - 130	2	20
2-Hexanone	ND *		5000	7160	F1	ug/L		143	70 - 130	2	20
4-Chlorotoluene	ND		1000	1070		ug/L		107	70 - 130	2	20
4-Isopropyltoluene	ND		1000	1020		ug/L		102	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	ND		5000	4950		ug/L		99	70 - 130	0	20
Acetone	15000		5000	19000		ug/L		85	70 - 130	2	20
Benzene	ND		1000	966		ug/L		97	70 - 130	4	20
Bromobenzene	ND		1000	1000		ug/L		100	70 - 130	2	20
Bromoform	ND		1000	943		ug/L		94	70 - 130	0	20
Bromomethane	ND		1000	832		ug/L		83	70 - 130	8	20
Carbon disulfide	ND		1000	987		ug/L		99	70 - 130	2	20
Carbon tetrachloride	ND		1000	971		ug/L		97	70 - 130	4	20
Chlorobenzene	ND		1000	1000		ug/L		100	70 - 130	1	20
Chlorobromomethane	ND		1000	1010		ug/L		101	70 - 130	4	20
Chlorodibromomethane	ND		980	1010		ug/L		103	70 - 130	1	20
Chloroethane	ND		1000	884		ug/L		88	70 - 130	9	20
Chloroform	ND		1000	932		ug/L		93	70 - 130	4	20
Chloromethane	ND		1000	893		ug/L		89	70 - 130	10	20
cis-1,2-Dichloroethene	ND		1000	1000		ug/L		100	70 - 130	3	20
cis-1,3-Dichloropropene	ND		1000	960		ug/L		96	70 - 130	1	20
Dichlorobromomethane	ND		1000	988		ug/L		99	70 - 130	1	20
Dichlorodifluoromethane	ND		1000	941		ug/L		94	70 - 130	10	20
Ethyl ether	ND		1000	983		ug/L		98	70 - 130	1	20
Ethylbenzene	ND		1000	981		ug/L		98	70 - 130	2	20
Ethylene Dibromide	ND		1000	981		ug/L		98	70 - 130	1	20
Hexachlorobutadiene	ND		1000	1070		ug/L		107	70 - 130	3	20

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

**Lab Sample ID: 480-57495-17 MSD**

**Matrix: Water**

**Analysis Batch: 175163**

**Client Sample ID: MW-551-20140408-01**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Isopropyl ether	ND		1000	892		ug/L		89	70 - 130	1	20
Isopropylbenzene	ND		1000	983		ug/L		98	70 - 130	2	20
Methyl tert-butyl ether	ND		1000	954		ug/L		95	70 - 130	2	20
Methylene Chloride	ND		1000	965		ug/L		96	70 - 130	4	20
m-Xylene & p-Xylene	ND		1000	1020		ug/L		102	70 - 130	2	20
Naphthalene	ND		1000	979		ug/L		98	70 - 130	3	20
n-Butylbenzene	ND		1000	971		ug/L		97	70 - 130	4	20
N-Propylbenzene	ND		1000	975		ug/L		98	70 - 130	1	20
o-Xylene	ND		1000	1010		ug/L		101	70 - 130	3	20
sec-Butylbenzene	ND		1000	990		ug/L		99	70 - 130	3	20
Styrene	ND		1000	1030		ug/L		103	70 - 130	1	20
Tert-amyl methyl ether	ND		1000	897		ug/L		90	70 - 130	0	20
Tert-butyl ethyl ether	ND		1000	865		ug/L		87	70 - 130	1	20
tert-Butylbenzene	ND		1000	1040		ug/L		104	70 - 130	1	20
Tetrachloroethene	ND		1000	991		ug/L		99	70 - 130	3	20
Tetrahydrofuran	ND		2000	1940		ug/L		97	70 - 130	2	20
Toluene	ND		1000	1010		ug/L		101	70 - 130	2	20
trans-1,2-Dichloroethene	ND		1000	971		ug/L		97	70 - 130	5	20
trans-1,3-Dichloropropene	ND		1000	976		ug/L		98	70 - 130	0	20
Trichloroethene	ND		1000	998		ug/L		100	70 - 130	3	20
Trichlorofluoromethane	ND		1000	821		ug/L		82	70 - 130	9	20
Vinyl chloride	ND		1000	874		ug/L		87	70 - 130	10	20
Dibromomethane	ND		1000	947		ug/L		95	70 - 130	0	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		70 - 130
4-Bromofluorobenzene (Surr)	105		70 - 130

**Lab Sample ID: MB 480-175485/9**

**Matrix: Water**

**Analysis Batch: 175485**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/13/14 22:07	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/13/14 22:07	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/13/14 22:07	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/13/14 22:07	1
1,1-Dichloroethane	ND		1.0		ug/L			04/13/14 22:07	1
1,1-Dichloroethene	ND		1.0		ug/L			04/13/14 22:07	1
1,1-Dichloropropene	ND		1.0		ug/L			04/13/14 22:07	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,2,3-Trichloropropene	ND		1.0		ug/L			04/13/14 22:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/13/14 22:07	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,2-Dichloroethane	ND		1.0		ug/L			04/13/14 22:07	1

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

**Lab Sample ID: MB 480-175485/9**

**Matrix: Water**

**Analysis Batch: 175485**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dichloropropane	ND		1.0		ug/L			04/13/14 22:07	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,3-Dichloropropane	ND		1.0		ug/L			04/13/14 22:07	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
1,4-Dioxane	ND		50		ug/L			04/13/14 22:07	1
2,2-Dichloropropane	ND		1.0		ug/L			04/13/14 22:07	1
2-Butanone (MEK)	ND		10		ug/L			04/13/14 22:07	1
2-Chlorotoluene	ND		1.0		ug/L			04/13/14 22:07	1
2-Hexanone	ND		10		ug/L			04/13/14 22:07	1
4-Chlorotoluene	ND		1.0		ug/L			04/13/14 22:07	1
4-Isopropyltoluene	ND		1.0		ug/L			04/13/14 22:07	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/13/14 22:07	1
Acetone	ND		50		ug/L			04/13/14 22:07	1
Benzene	ND		1.0		ug/L			04/13/14 22:07	1
Bromobenzene	ND		1.0		ug/L			04/13/14 22:07	1
Bromoform	ND		1.0		ug/L			04/13/14 22:07	1
Bromomethane	ND		2.0		ug/L			04/13/14 22:07	1
Carbon disulfide	ND		10		ug/L			04/13/14 22:07	1
Carbon tetrachloride	ND		1.0		ug/L			04/13/14 22:07	1
Chlorobenzene	ND		1.0		ug/L			04/13/14 22:07	1
Chlorobromomethane	ND		1.0		ug/L			04/13/14 22:07	1
Chlorodibromomethane	ND		0.50		ug/L			04/13/14 22:07	1
Chloroethane	ND		2.0		ug/L			04/13/14 22:07	1
Chloroform	ND		1.0		ug/L			04/13/14 22:07	1
Chloromethane	ND		2.0		ug/L			04/13/14 22:07	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/13/14 22:07	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/13/14 22:07	1
Dichlorobromomethane	ND		0.50		ug/L			04/13/14 22:07	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/13/14 22:07	1
Ethyl ether	ND		1.0		ug/L			04/13/14 22:07	1
Ethylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
Ethylene Dibromide	ND		1.0		ug/L			04/13/14 22:07	1
Hexachlorobutadiene	ND		0.40		ug/L			04/13/14 22:07	1
Isopropyl ether	ND		10		ug/L			04/13/14 22:07	1
Isopropylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/13/14 22:07	1
Methylene Chloride	ND		1.0		ug/L			04/13/14 22:07	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/13/14 22:07	1
Naphthalene	ND		5.0		ug/L			04/13/14 22:07	1
n-Butylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
N-Propylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
o-Xylene	ND		1.0		ug/L			04/13/14 22:07	1
sec-Butylbenzene	ND		1.0		ug/L			04/13/14 22:07	1
Styrene	ND		1.0		ug/L			04/13/14 22:07	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/13/14 22:07	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/13/14 22:07	1
tert-Butylbenzene	ND		1.0		ug/L			04/13/14 22:07	1

TestAmerica Buffalo



# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

**Lab Sample ID: MB 480-175485/9**

**Matrix: Water**

**Analysis Batch: 175485**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0		ug/L			04/13/14 22:07	1
Tetrahydrofuran	ND		10		ug/L			04/13/14 22:07	1
Toluene	ND		1.0		ug/L			04/13/14 22:07	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/13/14 22:07	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/13/14 22:07	1
Trichloroethene	ND		1.0		ug/L			04/13/14 22:07	1
Trichlorofluoromethane	ND		1.0		ug/L			04/13/14 22:07	1
Vinyl chloride	ND		1.0		ug/L			04/13/14 22:07	1
Dibromomethane	ND		1.0		ug/L			04/13/14 22:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/13/14 22:07	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/13/14 22:07	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/13/14 22:07	1

**Lab Sample ID: LCS 480-175485/6**

**Matrix: Water**

**Analysis Batch: 175485**

**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		97	70 - 130
1,1,1-Trichloroethane	25.0	24.8		ug/L		99	70 - 130
1,1,1,2,2-Tetrachloroethane	25.0	24.9		ug/L		100	70 - 130
1,1,2-Trichloroethane	25.0	24.9		ug/L		99	70 - 130
1,1-Dichloroethane	25.0	24.7		ug/L		99	70 - 130
1,1-Dichloroethene	25.0	23.8		ug/L		95	70 - 130
1,1-Dichloropropene	25.0	25.5		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	25.0	25.2		ug/L		101	70 - 130
1,2,3-Trichloropropane	25.0	24.3		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	25.0	25.3		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	25.0	24.6		ug/L		98	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.3		ug/L		93	70 - 130
1,2-Dichlorobenzene	25.0	24.9		ug/L		99	70 - 130
1,2-Dichloroethane	25.0	26.4		ug/L		106	70 - 130
1,2-Dichloropropane	25.0	26.1		ug/L		104	70 - 130
1,3,5-Trimethylbenzene	25.0	24.2		ug/L		97	70 - 130
1,3-Dichlorobenzene	25.0	24.9		ug/L		100	70 - 130
1,3-Dichloropropane	25.0	24.4		ug/L		98	70 - 130
1,4-Dichlorobenzene	25.0	24.1		ug/L		97	70 - 130
1,4-Dioxane	500	452		ug/L		90	70 - 130
2,2-Dichloropropane	25.0	23.3		ug/L		93	70 - 130
2-Butanone (MEK)	125	142		ug/L		113	70 - 130
2-Chlorotoluene	25.0	24.4		ug/L		98	70 - 130
2-Hexanone	125	125		ug/L		100	70 - 130
4-Chlorotoluene	25.0	22.0		ug/L		88	70 - 130
4-Isopropyltoluene	25.0	24.9		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	125	124		ug/L		99	70 - 130
Acetone	125	125		ug/L		100	70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCS 480-175485/6

Matrix: Water

Analysis Batch: 175485

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	24.9		ug/L		100	70 - 130
Bromobenzene	25.0	24.3		ug/L		97	70 - 130
Bromoform	25.0	21.2		ug/L		85	70 - 130
Bromomethane	25.0	29.6		ug/L		118	70 - 130
Carbon disulfide	25.0	21.1		ug/L		84	70 - 130
Carbon tetrachloride	25.0	25.3		ug/L		101	70 - 130
Chlorobenzene	25.0	24.9		ug/L		99	70 - 130
Chlorobromomethane	25.0	25.3		ug/L		101	70 - 130
Chlorodibromomethane	24.5	24.5		ug/L		100	70 - 130
Chloroethane	25.0	28.9		ug/L		116	70 - 130
Chloroform	25.0	25.1		ug/L		100	70 - 130
Chloromethane	25.0	24.2		ug/L		97	70 - 130
cis-1,2-Dichloroethene	25.0	24.7		ug/L		99	70 - 130
cis-1,3-Dichloropropene	25.0	26.2		ug/L		105	70 - 130
Dichlorobromomethane	25.0	25.5		ug/L		102	70 - 130
Dichlorodifluoromethane	25.0	22.6		ug/L		90	70 - 130
Ethyl ether	25.0	25.0		ug/L		100	70 - 130
Ethylbenzene	25.0	24.2		ug/L		97	70 - 130
Ethylene Dibromide	25.0	24.8		ug/L		99	70 - 130
Hexachlorobutadiene	25.0	25.5		ug/L		102	70 - 130
Isopropyl ether	25.0	26.3		ug/L		105	70 - 130
Isopropylbenzene	25.0	24.1		ug/L		96	70 - 130
Methyl tert-butyl ether	25.0	24.3		ug/L		97	70 - 130
Methylene Chloride	25.0	23.7		ug/L		95	70 - 130
m-Xylene & p-Xylene	25.0	24.7		ug/L		99	70 - 130
Naphthalene	25.0	25.8		ug/L		103	70 - 130
n-Butylbenzene	25.0	25.4		ug/L		102	70 - 130
N-Propylbenzene	25.0	24.2		ug/L		97	70 - 130
o-Xylene	25.0	24.1		ug/L		96	70 - 130
sec-Butylbenzene	25.0	24.7		ug/L		99	70 - 130
Styrene	25.0	24.9		ug/L		99	70 - 130
Tert-amyl methyl ether	25.0	25.7		ug/L		103	70 - 130
Tert-butyl ethyl ether	25.0	25.4		ug/L		101	70 - 130
tert-Butylbenzene	25.0	24.0		ug/L		96	70 - 130
Tetrachloroethene	25.0	26.1		ug/L		104	70 - 130
Tetrahydrofuran	50.0	65.3 *		ug/L		131	70 - 130
Toluene	25.0	24.2		ug/L		97	70 - 130
trans-1,2-Dichloroethene	25.0	24.1		ug/L		96	70 - 130
trans-1,3-Dichloropropene	25.0	23.7		ug/L		95	70 - 130
Trichloroethene	25.0	24.0		ug/L		96	70 - 130
Trichlorofluoromethane	25.0	27.1		ug/L		108	70 - 130
Vinyl chloride	25.0	23.8		ug/L		95	70 - 130
Dibromomethane	25.0	26.1		ug/L		104	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCSD 480-175485/7

Matrix: Water

Analysis Batch: 175485

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	24.3		ug/L		97	70 - 130	2	20
1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	70 - 130	3	20
1,1,2-Trichloroethane	25.0	24.9		ug/L		100	70 - 130	0	20
1,1-Dichloroethane	25.0	24.6		ug/L		98	70 - 130	1	20
1,1-Dichloroethene	25.0	24.1		ug/L		96	70 - 130	1	20
1,1-Dichloropropene	25.0	24.6		ug/L		98	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	25.2		ug/L		101	70 - 130	0	20
1,2,3-Trichloropropane	25.0	24.2		ug/L		97	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	25.1		ug/L		101	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	23.1		ug/L		92	70 - 130	6	20
1,2-Dibromo-3-Chloropropane	25.0	22.7		ug/L		91	70 - 130	2	20
1,2-Dichlorobenzene	25.0	23.9		ug/L		96	70 - 130	4	20
1,2-Dichloroethane	25.0	25.9		ug/L		104	70 - 130	2	20
1,2-Dichloropropane	25.0	25.8		ug/L		103	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	23.1		ug/L		92	70 - 130	4	20
1,3-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130	4	20
1,3-Dichloropropane	25.0	24.4		ug/L		98	70 - 130	0	20
1,4-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130	4	20
1,4-Dioxane	500	463		ug/L		93	70 - 130	2	20
2,2-Dichloropropane	25.0	22.8		ug/L		91	70 - 130	2	20
2-Butanone (MEK)	125	135		ug/L		108	70 - 130	4	20
2-Chlorotoluene	25.0	23.8		ug/L		95	70 - 130	2	20
2-Hexanone	125	123		ug/L		99	70 - 130	1	20
4-Chlorotoluene	25.0	21.2		ug/L		85	70 - 130	4	20
4-Isopropyltoluene	25.0	24.0		ug/L		96	70 - 130	4	20
4-Methyl-2-pentanone (MIBK)	125	121		ug/L		97	70 - 130	2	20
Acetone	125	126		ug/L		101	70 - 130	0	20
Benzene	25.0	24.7		ug/L		99	70 - 130	1	20
Bromobenzene	25.0	23.6		ug/L		95	70 - 130	3	20
Bromoform	25.0	21.4		ug/L		86	70 - 130	1	20
Bromomethane	25.0	30.4		ug/L		122	70 - 130	3	20
Carbon disulfide	25.0	20.4		ug/L		82	70 - 130	3	20
Carbon tetrachloride	25.0	24.7		ug/L		99	70 - 130	2	20
Chlorobenzene	25.0	23.8		ug/L		95	70 - 130	5	20
Chlorobromomethane	25.0	24.8		ug/L		99	70 - 130	2	20
Chlorodibromomethane	24.5	24.0		ug/L		98	70 - 130	2	20
Chloroethane	25.0	28.7		ug/L		115	70 - 130	1	20
Chloroform	25.0	25.0		ug/L		100	70 - 130	0	20
Chloromethane	25.0	24.6		ug/L		98	70 - 130	2	20
cis-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130	2	20
cis-1,3-Dichloropropene	25.0	26.2		ug/L		105	70 - 130	0	20
Dichlorobromomethane	25.0	25.6		ug/L		102	70 - 130	0	20
Dichlorodifluoromethane	25.0	23.1		ug/L		92	70 - 130	2	20
Ethyl ether	25.0	25.1		ug/L		100	70 - 130	0	20
Ethylbenzene	25.0	24.0		ug/L		96	70 - 130	1	20
Ethylene Dibromide	25.0	24.2		ug/L		97	70 - 130	2	20
Hexachlorobutadiene	25.0	24.3		ug/L		97	70 - 130	5	20

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-57495-1

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

Lab Sample ID: LCSD 480-175485/7

Matrix: Water

Analysis Batch: 175485

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
Isopropyl ether	25.0	26.0		ug/L		104	70 - 130	1	20
Isopropylbenzene	25.0	23.1		ug/L		93	70 - 130	4	20
Methyl tert-butyl ether	25.0	24.5		ug/L		98	70 - 130	1	20
Methylene Chloride	25.0	23.9		ug/L		95	70 - 130	1	20
m-Xylene & p-Xylene	25.0	24.0		ug/L		96	70 - 130	3	20
Naphthalene	25.0	25.0		ug/L		100	70 - 130	3	20
n-Butylbenzene	25.0	23.9		ug/L		96	70 - 130	6	20
N-Propylbenzene	25.0	23.3		ug/L		93	70 - 130	4	20
o-Xylene	25.0	23.7		ug/L		95	70 - 130	2	20
sec-Butylbenzene	25.0	23.5		ug/L		94	70 - 130	5	20
Styrene	25.0	24.1		ug/L		96	70 - 130	3	20
Tert-amyl methyl ether	25.0	25.9		ug/L		103	70 - 130	1	20
Tert-butyl ethyl ether	25.0	26.0		ug/L		104	70 - 130	2	20
tert-Butylbenzene	25.0	23.3		ug/L		93	70 - 130	3	20
Tetrachloroethene	25.0	24.5		ug/L		98	70 - 130	6	20
Tetrahydrofuran	50.0	66.1 *		ug/L		132	70 - 130	1	20
Toluene	25.0	23.3		ug/L		93	70 - 130	4	20
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	23.9		ug/L		95	70 - 130	1	20
Trichloroethene	25.0	24.1		ug/L		96	70 - 130	1	20
Trichlorofluoromethane	25.0	26.2		ug/L		105	70 - 130	3	20
Vinyl chloride	25.0	23.2		ug/L		93	70 - 130	3	20
Dibromomethane	25.0	25.6		ug/L		103	70 - 130	2	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130

# QC Association Summary

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

TestAmerica Job ID: 480-57495-1

## GC/MS VOA

### Analysis Batch: 174684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57495-1	DEP-19M-20140405-01	Total/NA	Water	8260C	
480-57495-2	DEP-21-20140405-01	Total/NA	Water	8260C	
480-57495-3	MW-261S-20140408-01	Total/NA	Water	8260C	
480-57495-4	MW-263M-20140408-01	Total/NA	Water	8260C	
480-57495-5	MW-264M-20140408-01	Total/NA	Water	8260C	
480-57495-6	MW-265S-20140408-01	Total/NA	Water	8260C	
480-57495-7	MW-265M-20140408-01	Total/NA	Water	8260C	
480-57495-9	MW-266Ma-20140405-01	Total/NA	Water	8260C	
480-57495-10	MW-266Mb-20140405-01	Total/NA	Water	8260C	
LCS 480-174684/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-174684/7	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-174684/9	Method Blank	Total/NA	Water	8260C	

### Analysis Batch: 174949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57495-7 - DL	MW-265M-20140408-01	Total/NA	Water	8260C	
480-57495-8	MW-265D-20140408-01	Total/NA	Water	8260C	
480-57495-11	MW-267S-20140405-01	Total/NA	Water	8260C	
480-57495-12	MW-267M-20140405-01	Total/NA	Water	8260C	
480-57495-13	MW-268S-20140407	Total/NA	Water	8260C	
480-57495-14	MW-268M-20140407	Total/NA	Water	8260C	
480-57495-15	MW-268D-20140405	Total/NA	Water	8260C	
480-57495-16	MW-269Ma-20140405	Total/NA	Water	8260C	
480-57495-20	MW-560-20140407-01	Total/NA	Water	8260C	
LCS 480-174949/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-174949/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-174949/8	Method Blank	Total/NA	Water	8260C	

### Analysis Batch: 175074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57495-22	MW-562-20140407-01	Total/NA	Water	8260C	
480-57495-23	MW-563-20140407-01	Total/NA	Water	8260C	
480-57495-27	REW-6-20140406-01	Total/NA	Water	8260C	
480-57495-28	REW-7-20140406-01	Total/NA	Water	8260C	
480-57495-29	REW-8-20140406-01	Total/NA	Water	8260C	
480-57495-30	REW-9-20140406-01	Total/NA	Water	8260C	
480-57495-31	REW-10-20140406-01	Total/NA	Water	8260C	
480-57495-32	REW-11-20140406-01	Total/NA	Water	8260C	
480-57495-33	REW-12-20140406-01	Total/NA	Water	8260C	
480-57495-33 MS	REW-12-20140406-01	Total/NA	Water	8260C	
480-57495-33 MSD	REW-12-20140406-01	Total/NA	Water	8260C	
480-57495-34	DupX1-20140405-01	Total/NA	Water	8260C	
480-57495-35	DupX2-20140406-01	Total/NA	Water	8260C	
480-57495-36	DupX3-20140408-01	Total/NA	Water	8260C	
LCS 480-175074/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-175074/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-175074/8	Method Blank	Total/NA	Water	8260C	

### Analysis Batch: 175163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57495-17	MW-551-20140408-01	Total/NA	Water	8260C	

TestAmerica Buffalo

# QC Association Summary

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

TestAmerica Job ID: 480-57495-1

## GC/MS VOA (Continued)

### Analysis Batch: 175163 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57495-17 MS	MW-551-20140408-01	Total/NA	Water	8260C	
480-57495-17 MSD	MW-551-20140408-01	Total/NA	Water	8260C	
480-57495-18	MW-552-20140407-01	Total/NA	Water	8260C	
480-57495-19	MW-553-20140407-01	Total/NA	Water	8260C	
480-57495-20 - DL	MW-560-20140407-01	Total/NA	Water	8260C	
480-57495-21	MW-561-20140407-01	Total/NA	Water	8260C	
480-57495-22 - DL	MW-562-20140407-01	Total/NA	Water	8260C	
480-57495-24	REW-1-20140406-01	Total/NA	Water	8260C	
480-57495-25	REW-4-20140406-01	Total/NA	Water	8260C	
480-57495-26	REW-5-20140406-01	Total/NA	Water	8260C	
480-57495-35 - DL	DupX2-20140406-01	Total/NA	Water	8260C	
480-57495-37	Trip Blanks	Total/NA	Water	8260C	
LCS 480-175163/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-175163/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-175163/8	Method Blank	Total/NA	Water	8260C	

### Analysis Batch: 175364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57495-3	MW-261S-20140408-01	Total/NA	Water	8260B SIM	
480-57495-7	MW-265M-20140408-01	Total/NA	Water	8260B SIM	
480-57495-9	MW-266Ma-20140405-01	Total/NA	Water	8260B SIM	
480-57495-11	MW-267S-20140405-01	Total/NA	Water	8260B SIM	
480-57495-12	MW-267M-20140405-01	Total/NA	Water	8260B SIM	
480-57495-13	MW-268S-20140407	Total/NA	Water	8260B SIM	
480-57495-14	MW-268M-20140407	Total/NA	Water	8260B SIM	
480-57495-16	MW-269Ma-20140405	Total/NA	Water	8260B SIM	
480-57495-18	MW-552-20140407-01	Total/NA	Water	8260B SIM	
480-57495-36	DupX3-20140408-01	Total/NA	Water	8260B SIM	
LCS 480-175364/4	Lab Control Sample	Total/NA	Water	8260B SIM	
LCSD 480-175364/5	Lab Control Sample Dup	Total/NA	Water	8260B SIM	
MB 480-175364/6	Method Blank	Total/NA	Water	8260B SIM	

### Analysis Batch: 175485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57495-36 - DL	DupX3-20140408-01	Total/NA	Water	8260C	
LCS 480-175485/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-175485/7	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-175485/9	Method Blank	Total/NA	Water	8260C	

# Lab Chronicle

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: DEP-19M-20140405-01**

**Lab Sample ID: 480-57495-1**

Date Collected: 04/05/14 10:30

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	174684	04/09/14 17:26	LCH	TAL BUF

**Client Sample ID: DEP-21-20140405-01**

**Lab Sample ID: 480-57495-2**

Date Collected: 04/05/14 11:25

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	174684	04/09/14 17:50	LCH	TAL BUF

**Client Sample ID: MW-261S-20140408-01**

**Lab Sample ID: 480-57495-3**

Date Collected: 04/08/14 07:20

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		2	175364	04/11/14 23:36	CDC	TAL BUF
Total/NA	Analysis	8260C		50	174684	04/09/14 18:14	LCH	TAL BUF

**Client Sample ID: MW-263M-20140408-01**

**Lab Sample ID: 480-57495-4**

Date Collected: 04/08/14 11:45

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	174684	04/09/14 18:37	LCH	TAL BUF

**Client Sample ID: MW-264M-20140408-01**

**Lab Sample ID: 480-57495-5**

Date Collected: 04/08/14 10:30

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	174684	04/09/14 19:01	LCH	TAL BUF

**Client Sample ID: MW-265S-20140408-01**

**Lab Sample ID: 480-57495-6**

Date Collected: 04/08/14 09:25

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	174684	04/09/14 19:25	LCH	TAL BUF

# Lab Chronicle

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

TestAmerica Job ID: 480-57495-1

## Client Sample ID: MW-265M-20140408-01

Lab Sample ID: 480-57495-7

Date Collected: 04/08/14 08:45

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		2	175364	04/12/14 00:00	CDC	TAL BUF
Total/NA	Analysis	8260C	DL	5	174949	04/10/14 15:48	NMD1	TAL BUF
Total/NA	Analysis	8260C		1	174684	04/09/14 19:49	LCH	TAL BUF

## Client Sample ID: MW-265D-20140408-01

Lab Sample ID: 480-57495-8

Date Collected: 04/08/14 08:15

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	174949	04/10/14 16:14	NMD1	TAL BUF

## Client Sample ID: MW-266Ma-20140405-01

Lab Sample ID: 480-57495-9

Date Collected: 04/05/14 14:50

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	175364	04/12/14 00:23	CDC	TAL BUF
Total/NA	Analysis	8260C		1	174684	04/09/14 20:37	LCH	TAL BUF

## Client Sample ID: MW-266Mb-20140405-01

Lab Sample ID: 480-57495-10

Date Collected: 04/05/14 15:20

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	174684	04/09/14 21:00	LCH	TAL BUF

## Client Sample ID: MW-267S-20140405-01

Lab Sample ID: 480-57495-11

Date Collected: 04/05/14 13:20

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		2	175364	04/12/14 00:48	CDC	TAL BUF
Total/NA	Analysis	8260C		5	174949	04/10/14 16:39	NMD1	TAL BUF

## Client Sample ID: MW-267M-20140405-01

Lab Sample ID: 480-57495-12

Date Collected: 04/05/14 12:50

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		2	175364	04/12/14 01:11	CDC	TAL BUF
Total/NA	Analysis	8260C		10	174949	04/10/14 17:04	NMD1	TAL BUF

TestAmerica Buffalo



# Lab Chronicle

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-268S-20140407**

**Lab Sample ID: 480-57495-13**

Date Collected: 04/07/14 08:45

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	175364	04/12/14 01:36	CDC	TAL BUF
Total/NA	Analysis	8260C		1	174949	04/10/14 17:29	NMD1	TAL BUF

**Client Sample ID: MW-268M-20140407**

**Lab Sample ID: 480-57495-14**

Date Collected: 04/07/14 09:25

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	175364	04/12/14 02:00	CDC	TAL BUF
Total/NA	Analysis	8260C		40	174949	04/10/14 17:54	NMD1	TAL BUF

**Client Sample ID: MW-268D-20140405**

**Lab Sample ID: 480-57495-15**

Date Collected: 04/05/14 12:20

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	174949	04/10/14 18:19	NMD1	TAL BUF

**Client Sample ID: MW-269Ma-20140405**

**Lab Sample ID: 480-57495-16**

Date Collected: 04/05/14 14:10

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		1	175364	04/12/14 02:24	CDC	TAL BUF
Total/NA	Analysis	8260C		1	174949	04/10/14 18:44	NMD1	TAL BUF

**Client Sample ID: MW-551-20140408-01**

**Lab Sample ID: 480-57495-17**

Date Collected: 04/08/14 12:05

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	175163	04/11/14 14:09	NMD1	TAL BUF

**Client Sample ID: MW-552-20140407-01**

**Lab Sample ID: 480-57495-18**

Date Collected: 04/07/14 15:25

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		2	175364	04/12/14 02:48	CDC	TAL BUF
Total/NA	Analysis	8260C		1	175163	04/11/14 14:35	NMD1	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: MW-553-20140407-01**

**Lab Sample ID: 480-57495-19**

Date Collected: 04/07/14 14:30

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175163	04/11/14 15:00	NMD1	TAL BUF

**Client Sample ID: MW-560-20140407-01**

**Lab Sample ID: 480-57495-20**

Date Collected: 04/07/14 11:10

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	174949	04/10/14 20:26	NMD1	TAL BUF
Total/NA	Analysis	8260C	DL	4	175163	04/11/14 15:26	NMD1	TAL BUF

**Client Sample ID: MW-561-20140407-01**

**Lab Sample ID: 480-57495-21**

Date Collected: 04/07/14 12:00

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	175163	04/11/14 15:51	NMD1	TAL BUF

**Client Sample ID: MW-562-20140407-01**

**Lab Sample ID: 480-57495-22**

Date Collected: 04/07/14 13:30

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	175074	04/11/14 02:04	LCH	TAL BUF
Total/NA	Analysis	8260C	DL	4	175163	04/11/14 16:16	NMD1	TAL BUF

**Client Sample ID: MW-563-20140407-01**

**Lab Sample ID: 480-57495-23**

Date Collected: 04/07/14 10:20

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	175074	04/11/14 02:29	LCH	TAL BUF

**Client Sample ID: REW-1-20140406-01**

**Lab Sample ID: 480-57495-24**

Date Collected: 04/06/14 13:45

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	175163	04/11/14 16:42	NMD1	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: REW-4-20140406-01**

**Lab Sample ID: 480-57495-25**

Date Collected: 04/06/14 15:20

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175163	04/11/14 17:07	NMD1	TAL BUF

**Client Sample ID: REW-5-20140406-01**

**Lab Sample ID: 480-57495-26**

Date Collected: 04/06/14 14:30

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175163	04/11/14 17:33	NMD1	TAL BUF

**Client Sample ID: REW-6-20140406-01**

**Lab Sample ID: 480-57495-27**

Date Collected: 04/06/14 09:05

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	175074	04/11/14 04:10	LCH	TAL BUF

**Client Sample ID: REW-7-20140406-01**

**Lab Sample ID: 480-57495-28**

Date Collected: 04/06/14 09:35

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	175074	04/11/14 04:36	LCH	TAL BUF

**Client Sample ID: REW-8-20140406-01**

**Lab Sample ID: 480-57495-29**

Date Collected: 04/06/14 10:45

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175074	04/11/14 05:01	LCH	TAL BUF

**Client Sample ID: REW-9-20140406-01**

**Lab Sample ID: 480-57495-30**

Date Collected: 04/06/14 11:40

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175074	04/11/14 05:26	LCH	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: REW-10-20140406-01**

**Lab Sample ID: 480-57495-31**

Date Collected: 04/06/14 12:25

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175074	04/11/14 05:51	LCH	TAL BUF

**Client Sample ID: REW-11-20140406-01**

**Lab Sample ID: 480-57495-32**

Date Collected: 04/06/14 08:15

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		25	175074	04/11/14 06:16	LCH	TAL BUF

**Client Sample ID: REW-12-20140406-01**

**Lab Sample ID: 480-57495-33**

Date Collected: 04/06/14 13:10

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	175074	04/11/14 06:42	LCH	TAL BUF

**Client Sample ID: DupX1-20140405-01**

**Lab Sample ID: 480-57495-34**

Date Collected: 04/05/14 00:00

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175074	04/11/14 07:06	LCH	TAL BUF

**Client Sample ID: DupX2-20140406-01**

**Lab Sample ID: 480-57495-35**

Date Collected: 04/06/14 00:00

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175074	04/11/14 07:31	LCH	TAL BUF
Total/NA	Analysis	8260C	DL	25	175163	04/11/14 17:58	NMD1	TAL BUF

**Client Sample ID: DupX3-20140408-01**

**Lab Sample ID: 480-57495-36**

Date Collected: 04/08/14 00:00

Matrix: Water

Date Received: 04/09/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B SIM		2	175364	04/12/14 03:12	CDC	TAL BUF
Total/NA	Analysis	8260C		1	175074	04/11/14 07:57	LCH	TAL BUF
Total/NA	Analysis	8260C	DL	40	175485	04/14/14 00:11	LCH	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

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

TestAmerica Job ID: 480-57495-1

**Client Sample ID: Trip Blanks**

**Lab Sample ID: 480-57495-37**

**Date Collected: 04/08/14 00:00**

**Matrix: Water**

**Date Received: 04/09/14 01:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175163	04/11/14 13:43	NMD1	TAL BUF

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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# Certification Summary

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

TestAmerica Job ID: 480-57495-1

## Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-14
California	State Program	9	1169CA	09-30-14
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-15
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	01-31-15 *
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	03-31-15
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-15
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	03-31-15
Minnesota	NELAP	5	036-999-337	12-31-14
New Hampshire	NELAP	1	2337	11-17-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	03-31-15
North Dakota	State Program	8	R-176	03-31-14 *
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-30-14
Tennessee	State Program	4	TN02970	03-31-15
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-15
West Virginia DEP	State Program	3	252	05-31-14
Wisconsin	State Program	5	998310390	08-31-14

\* Expired certification is currently pending renewal and is considered valid.

# Method Summary

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

TestAmerica Job ID: 480-57495-1

Method	Method Description	Protocol	Laboratory
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF

**Protocol References:**

MA DEP = Massachusetts Department Of Environmental Protection

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

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# Sample Summary

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

TestAmerica Job ID: 480-57495-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-57495-1	DEP-19M-20140405-01	Water	04/05/14 10:30	04/09/14 01:30
480-57495-2	DEP-21-20140405-01	Water	04/05/14 11:25	04/09/14 01:30
480-57495-3	MW-261S-20140408-01	Water	04/08/14 07:20	04/09/14 01:30
480-57495-4	MW-263M-20140408-01	Water	04/08/14 11:45	04/09/14 01:30
480-57495-5	MW-264M-20140408-01	Water	04/08/14 10:30	04/09/14 01:30
480-57495-6	MW-265S-20140408-01	Water	04/08/14 09:25	04/09/14 01:30
480-57495-7	MW-265M-20140408-01	Water	04/08/14 08:45	04/09/14 01:30
480-57495-8	MW-265D-20140408-01	Water	04/08/14 08:15	04/09/14 01:30
480-57495-9	MW-266Ma-20140405-01	Water	04/05/14 14:50	04/09/14 01:30
480-57495-10	MW-266Mb-20140405-01	Water	04/05/14 15:20	04/09/14 01:30
480-57495-11	MW-267S-20140405-01	Water	04/05/14 13:20	04/09/14 01:30
480-57495-12	MW-267M-20140405-01	Water	04/05/14 12:50	04/09/14 01:30
480-57495-13	MW-268S-20140407	Water	04/07/14 08:45	04/09/14 01:30
480-57495-14	MW-268M-20140407	Water	04/07/14 09:25	04/09/14 01:30
480-57495-15	MW-268D-20140405	Water	04/05/14 12:20	04/09/14 01:30
480-57495-16	MW-269Ma-20140405	Water	04/05/14 14:10	04/09/14 01:30
480-57495-17	MW-551-20140408-01	Water	04/08/14 12:05	04/09/14 01:30
480-57495-18	MW-552-20140407-01	Water	04/07/14 15:25	04/09/14 01:30
480-57495-19	MW-553-20140407-01	Water	04/07/14 14:30	04/09/14 01:30
480-57495-20	MW-560-20140407-01	Water	04/07/14 11:10	04/09/14 01:30
480-57495-21	MW-561-20140407-01	Water	04/07/14 12:00	04/09/14 01:30
480-57495-22	MW-562-20140407-01	Water	04/07/14 13:30	04/09/14 01:30
480-57495-23	MW-563-20140407-01	Water	04/07/14 10:20	04/09/14 01:30
480-57495-24	REW-1-20140406-01	Water	04/06/14 13:45	04/09/14 01:30
480-57495-25	REW-4-20140406-01	Water	04/06/14 15:20	04/09/14 01:30
480-57495-26	REW-5-20140406-01	Water	04/06/14 14:30	04/09/14 01:30
480-57495-27	REW-6-20140406-01	Water	04/06/14 09:05	04/09/14 01:30
480-57495-28	REW-7-20140406-01	Water	04/06/14 09:35	04/09/14 01:30
480-57495-29	REW-8-20140406-01	Water	04/06/14 10:45	04/09/14 01:30
480-57495-30	REW-9-20140406-01	Water	04/06/14 11:40	04/09/14 01:30
480-57495-31	REW-10-20140406-01	Water	04/06/14 12:25	04/09/14 01:30
480-57495-32	REW-11-20140406-01	Water	04/06/14 08:15	04/09/14 01:30
480-57495-33	REW-12-20140406-01	Water	04/06/14 13:10	04/09/14 01:30
480-57495-34	DupX1-20140405-01	Water	04/05/14 00:00	04/09/14 01:30
480-57495-35	DupX2-20140406-01	Water	04/06/14 00:00	04/09/14 01:30
480-57495-36	DupX3-20140408-01	Water	04/08/14 00:00	04/09/14 01:30
480-57495-37	Trip Blanks	Water	04/08/14 00:00	04/09/14 01:30



## Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-57495-1

**Login Number: 57495**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Wienke, Robert K**

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.	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	N/A	
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	
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	

# Chain of Custody Record

TAL-4124 (1007)

**Client:** Innovative Consulting Solutions Inc  
**Address:** 25 Spring St, Woburn MA 02081  
**City:** Woburn MA 02081  
**Project Name and Location (State):** Southton Woburn/Woburn MA  
**Contract/Purchase Order/Quote No.:** RA-008

**Project Manager:** Vicki Reiner  
**Telephone Number (Area Code)/Fax Number:** 508-668-0033/15173  
**Site Contact:** Dean Sosa  
**Carrier/Waybill Number:**

**Date:** 4/8/14  
**Lab Number:** 45  
**Page:** 1 of 4

**Chain of Custody Number:** 261779



**ICCL TESTING**  
 480-57495 Chain of Custody

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt		
			Air	Soil	Sed	Asbestos	Unpres.	H2SO4	HNO3	HCl	NaOH			ZnAc/ MnOH	
DEP-19m-20140405-01	4/5/14	1030	X											286051M	Notes: detection limit for
DEP-21-20140405-01	4/5/14	1125	X												discharge must be at least
MW-2653-20140408-01	4/8/14	0720	X												3 ppb
MW-263m-20140408-01	4/8/14	1145	X												
MW-264m-20140408-01	4/8/14	1030	X												
MW-2653-20140408-01	4/8/14	0720	X												
MW-263m-20140408-01	4/8/14	0845	X												
MW-265D-20140408-01	4/8/14	0815	X												
MW-266m-20140405-01	4/5/14	1450	X												
MW-261mb-20140405-01	4/5/14	1520	X												
MW-2673-20140405-01	4/5/14	1320	X												
MW-267m-20140405-01	4/5/14	1250	X												

**Sample Disposal:**  Return to Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

**QC Requirements (Specify):**

Turn Around Time Required	<input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input checked="" type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other
1. Relinquished By	Date: 4/8/14 Time: 1300
2. Relinquished By	Date: 4/8/14 Time: 1630
3. Relinquished By	Date: _____ Time: _____

**Comments:** TAC

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

2, 3, 2, (#)

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt \_\_\_\_\_  
 Drinking Water? Yes  No

## Chain of Custody Record

TAL-4124 (1007)

Client: Environmental Engineering Solutions Inc  
 Address: 95 Spring St  
 City: Woburn MA State: MA Zip Code: 03081  
 Project Name and Location (State): Peabody Warehouse, Woburn MA  
 Contract/Purchase Order/Quote No.: RA-006

Project Manager: Vicki Pearson  
 Telephone Number (Area Code)/Fax Number: 508-668-0033 / 5175  
 Site Contact: Dave S... Lab Contact: \_\_\_\_\_  
 Carrier/Waybill Number: \_\_\_\_\_

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Special Instructions/ Conditions of Receipt		
			Air	Aspen	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
MA-268P-20140407 -01	4/7/14	0845	X												
MA-268M-20140407 -01	4/7/14	0925	X												
MA-268D-20140405 -01	4/5/14	1320	X												
MA-268M-20140405 -01	4/5/14	1410	X												
MA-551-20140408 -01	4/8/14	1205	X												
MA-552-20140407 -01	4/7/14	1525	X												
MA-553-20140407 -01	4/7/14	1430	X												
MA-560-20140407 -01	4/7/14	1110	X												
MA-561-20140407 -01	4/7/14	1200	X												
MA-562-20140407 -01	4/7/14	1330	X												
MA-563-20140407 -01	4/7/14	1020	X												
RES-1-20140406 -01	4/10/14	1345	X												

Possible Hazard Identification:  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  
 24 Hours  48 Hours  7 Days  14 Days  21 Days  Other \_\_\_\_\_  
 Turn Around Time Required

Sample Disposal:  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 (A fee may be assessed if samples are retained longer than 1 month)

QC Requirements (Specify): \_\_\_\_\_

1. Relinquished By: [Signature] Date: 4/17/14 Time: 1300  
 2. Relinquished By: [Signature] Date: 4/18/14 Time: 1628  
 3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments: 2.3, 2.1 #1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## Chain of Custody Record

Temperature on Receipt \_\_\_\_\_

Drinking Water? Yes  No

TAL-4124 (1007)  
 Client: **Environmental Engineering Solutions Inc**  
 Address: **25 Spang St**  
 City: **Woburn** State: **MA** Zip Code: **02091**  
 Project Name and Location (State): **Reservoir 1 Woburn MA**  
 Contract/Purchase Order/Quote No.: **RA-008**

Project Manager: **Vicki P...**  
 Telephone Number (Area Code)/Fax Number: **508-668-0033 / 5175**  
 Date: **4/8/14**  
 Chain of Custody Number: **261784**  
 Lab Number: **Page 3 of 4**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives					Special Instructions/ Conditions of Receipt		
			Aqueous	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
RES-4-20140406 -01	4/6/14	1530	X											
RES-5-20140406 -01	4/6/14	1430	X											
RES-6-20140406 -01	4/6/14	0905	X											
RES-7-20140406 -01	4/6/14	0935	X											
RES-8-20140406 -01	4/6/14	1045	X											
RES-9-20140406 -01	4/6/14	1140	X											
RES-10-20140406 -01	4/6/14	1225	X											
RES-11-20140406 -01	4/6/14	0815	X											
RES-12-20140406 -01	4/6/14	1310	X											
DUPX1-20140405 -01	-	-	X											
DUPX2-20140406 -01	-	-	X											
DUPX3-20140408 -01	-	-	X											

Analysis (Attach list if more space is needed): **WISOR**

Special Instructions/Conditions of Receipt: **note: 1. 2. destruction limit 3. see diagrams 4. must be at best 5. 3 app.**

Sample Disposal:  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Possible Hazard Identification:  Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Turn Around Time Required:  24 Hours  48 Hours  7 Days  14 Days  21 Days  Other \_\_\_\_\_

(A fee may be assessed if samples are retained longer than 1 month)

QC Requirements (Specify)	Received By	Date	Time
1. Relinquished By		4/8/14	1300
2. Relinquished By		4/8/14	1638
3. Relinquished By		4/8/14	1300
		4-9-14	0137

Comments: **1.3, 2.1#1**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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Report Date:  
22-Apr-14 15:46



- Final Report  
 Re-Issued Report  
 Revised Report

## Laboratory Report

Innovative Engineering Solutions, Inc.  
25 Spring Street  
Walpole, MA 02081

Work Order: N0514  
Project : Raytheon - Wayland  
Project #:

Attn: Sami Fam

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
N0514-01	MW-261S-20140408-01	Aqueous	08-Apr-14 07:20	09-Apr-14 13:00
N0514-02	MW-265M-20140408-01	Aqueous	08-Apr-14 08:45	09-Apr-14 13:00
N0514-03	MW-268S-20140407-01	Aqueous	07-Apr-14 08:45	09-Apr-14 13:00
N0514-04	MW-268M-20140407-01	Aqueous	07-Apr-14 09:25	09-Apr-14 13:00
N0514-05	MW-552-20140407-01	Aqueous	07-Apr-14 15:25	09-Apr-14 13:00
N0514-06	MW-553-20140407-01	Aqueous	07-Apr-14 14:30	09-Apr-14 13:00
N0514-07	MW-560-20140407-01	Aqueous	07-Apr-14 11:10	09-Apr-14 13:00
N0514-08	MW-561-20140407-01	Aqueous	07-Apr-14 12:00	09-Apr-14 13:00
N0514-09	MW-562-20140407-01	Aqueous	07-Apr-14 13:30	09-Apr-14 13:00
N0514-10	MW-563-20140407-01	Aqueous	07-Apr-14 10:20	09-Apr-14 13:00
N0514-11	REW-1-20140406-01	Aqueous	06-Apr-14 13:45	09-Apr-14 13:00
N0514-12	REW-4-20140406-01	Aqueous	06-Apr-14 15:20	09-Apr-14 13:00
N0514-13	REW-5-20140406-01	Aqueous	06-Apr-14 14:30	09-Apr-14 13:00
N0514-14	REW-6-20140406-01	Aqueous	06-Apr-14 09:05	09-Apr-14 13:00
N0514-15	REW-7-20140406-01	Aqueous	06-Apr-14 09:35	09-Apr-14 13:00
N0514-16	REW-8-20140406-01	Aqueous	06-Apr-14 10:45	09-Apr-14 13:00
N0514-17	REW-9-20140406-01	Aqueous	06-Apr-14 11:40	09-Apr-14 13:00
N0514-18	REW-10-20140406-01	Aqueous	06-Apr-14 12:25	09-Apr-14 13:00
N0514-19	REW-11-20140406-01	Aqueous	06-Apr-14 08:15	09-Apr-14 13:00
N0514-20	REW-12-20140406-01	Aqueous	06-Apr-14 13:10	09-Apr-14 13:00
N0514-21	TRIP BLANK	Aqueous	08-Apr-14 00:00	09-Apr-14 13:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the sample(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirements have been met.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at [www.spectrum-analytical.com](http://www.spectrum-analytical.com).

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033



Authorized by:

Yihai Ding  
Laboratory Director

## REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Innovative Engineering Solutions, Inc.

Project: Raytheon - Wayland

Laboratory Workorder / SDG #: N0514

RSK175, Dissolved Gases by GC-FID

### I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

### II. HOLDING TIMES

#### A. Sample Preparation:

All samples were prepared within the method-specified holding times.

#### B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

### III. METHODS

Samples were analyzed following procedures in laboratory test code:  
RSK175

### IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030B

### V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: V7  
Instrument Type: GC-FID

Description: HP5890 II  
Manufacturer: Hewlett-Packard  
Model: 5890  
GC Column used: 30 m X 0.53 mm ID [ um thickness] CARBOXEM 1006  
capillary column.

## VI. ANALYSIS

### A. Calibration:

Calibrations met the method/SOP acceptance criteria.

### B. Blanks:

All method blanks were within the acceptance criteria.

### C. Surrogates:

N/A.

### D. Spikes:

#### 1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

#### 2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

### E. Internal Standards:

NA.

### F. Dilutions:

The following samples were analyzed at dilution:

MW-261S-20140408-01 (N0514-01ADL) : Dilution Factor: 10  
MW-265M-20140408-01 (N0514-02ADL) : Dilution Factor: 10  
MW-552-20140407-01 (N0514-05ADL) : Dilution Factor: 20  
MW-553-20140407-01 (N0514-06ADL) : Dilution Factor: 20  
MW-560-20140407-01 (N0514-07ADL) : Dilution Factor: 20  
MW-561-20140407-01 (N0514-08ADL) : Dilution Factor: 20  
MW-562-20140407-01 (N0514-09ADL) : Dilution Factor: 100  
MW-563-20140407-01 (N0514-10ADL) : Dilution Factor: 100



REW-1-20140406-01 (N0514-11ADL) : Dilution Factor: 20  
REW-4-20140406-01 (N0514-12ADL) : Dilution Factor: 20  
REW-5-20140406-01 (N0514-13ADL) : Dilution Factor: 10  
REW-6-20140406-01 (N0514-14ADL) : Dilution Factor: 10  
REW-8-20140406-01 (N0514-16ADL) : Dilution Factor: 20  
REW-9-20140406-01 (N0514-17ADL) : Dilution Factor: 20  
REW-10-20140406-01 (N0514-18ADL) : Dilution Factor: 10  
REW-12-20140406-01 (N0514-20ADL) : Dilution Factor: 5

#### G. Samples:

No other unusual occurrences were noted during sample analysis.

#### H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

The following samples were manually integrated:

LCSD-76692 Ethene due to M1

REW-9-20140406-01 (N0514-17A) Methane due to M6

REW-10-20140406-01 (N0514-18A) Methane due to M6

REW-12-20140406-01 (N0514-20A) Methane due to M6

VSTD005H7 Methane due to M3

VSTD005I7 Methane due to M7

VSTD100007H Ethane due to M6

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'JFW', written over a horizontal line.

Signed: \_\_\_\_\_

Date: \_\_\_\_\_ 4/22/2014 \_\_\_\_\_

## REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Innovative Engineering Solutions, Inc.

Project: Raytheon - Wayland

Laboratory Workorder / SDG #: N0514

SW846 6010C

### I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

### II. HOLDING TIMES

#### A. Sample Preparation:

All samples were prepared within the method-specified holding times.

#### B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

### III. METHODS

Samples were analyzed following procedures in laboratory test code:  
SW846 6010C

### IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3005A

### V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: OPTIMA2  
Instrument Type: ICP

Description: Optima 3100 XL  
Manufacturer: Perkin-Elmer  
Model: 3100 XL

## **VI. ANALYSIS**

### **A. Calibration:**

Calibrations met the method/SOP acceptance criteria.

### **B. Blanks:**

All method blanks were within the acceptance criteria.

### **C. Spikes:**

#### **1. Laboratory Control Spikes (LCS):**

Percent recoveries for laboratory control samples were within the QC limits.

#### **2. Matrix spike (MS):**

A matrix spike was not performed on any sample in this SDG.

### **D. Post Digestion Spike (PDS):**

A post-digestion spike was not performed on any sample in this SDG.

### **E. Duplicate sample:**

A duplicate analysis was not performed on any sample in this SDG.

### **F. Serial Dilution (SD):**

Serial Dilution analysis was performed on sample: REW-12-20140406-01 (N0514-20DSD).

Percent difference was within the QC limits.

### **G. Samples:**

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:  \_\_\_\_\_

Date: 04/21/14

## REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Innovative Engineering Solutions, Inc.

Project: Raytheon - Wayland

Laboratory Workorder / SDG #: N0514

EPA 300.0, EPA 300.0 Modified, SM 2320B, SM 4500 H+ B, SM 4500P-E OP,  
SM 5310B TOC

### I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form or other record of communication is included with the Sample Receipt Documentation.

### II. HOLDING TIMES

#### A. Sample Preparation:

All samples were prepared within the method-specified holding times.

#### B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

### III. METHODS

Samples were analyzed following procedures in laboratory test codes: EPA 300.0, EPA 300.0 Modified, SM 2320B, SM 4500 H+ B, SM 4500P-E OP, SM 5310B TOC

### IV. PREPARATION

Samples were prepared following procedures in laboratory test codes: EPA 300.0, EPA 300.0 Modified, SM 2320B, SM 4500 H+ B, SM 4500P-E OP, SM 5310B TOC

### V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: IC1  
Instrument Type: IC  
Description: DX-500  
Manufacturer: Dionex  
Model: DX-500

GC Column used: 0.25 m X 4 mm ID [ um thickness] AS14A-7 capillary column.

Instrument Code: SPEC2  
Instrument Type: SP  
Description: Spectronic 20 Genesys  
Manufacturer: Spectronic Instruments  
Model: 4004-000

Instrument Code: TOC1  
Instrument Type: TOC  
Description: TOC  
Manufacturer: Tekmar Dohrman  
Model: Apollo 9000

Instrument Code: WC03  
Instrument Type: Probe  
Description: pH Meter  
Manufacturer: Oakton Instruments  
Model: Bench 2700 Series

## VI. ANALYSIS

### A. Calibration:

Calibrations met the method/SOP acceptance criteria.

### B. Blanks:

All method blanks were within the acceptance criteria.

### C. Spikes:

#### 1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

#### 2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: MW-261S-20140408-01 (N0514-01BMS), MW-261S-20140408-01 (N0514-01BMSD), REW-12-20140406-01 (N0514-20EMS) and REW-12-20140406-01 (N0514-20EMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the advisory QC limits.

### D. Duplicate sample:

No client-requested laboratory duplicate analyses were included in this SDG.

**E. Dilutions:**

The following samples were analyzed at dilution:

MW-261S-20140408-01 (N0514-01B), dilution factor: 5 for Acetic Acid  
MW-261S-20140408-01 (N0514-01BMS), dilution factor: 5 for Acetic Acid  
MW-261S-20140408-01 (N0514-01BMSD), dilution factor: 5 for Acetic Acid  
MW-265M-20140408-01 (N0514-02B), dilution factor: 20 for Acetic Acid  
MW-560-20140407-01 (N0514-07B), dilution factor: 10 for Acetic Acid  
MW-561-20140407-01 (N0514-08B), dilution factor: 10 for Acetic Acid  
MW-562-20140407-01 (N0514-09B), dilution factor: 10 for Acetic Acid  
MW-562-20140407-01 (N0514-09F), dilution factor: 2 for Orthophosphate  
(As PO4)  
MW-563-20140407-01 (N0514-10B), dilution factor: 10 for Acetic Acid  
REW-6-20140406-01 (N0514-14B), dilution factor: 10 for Acetic Acid  
REW-7-20140406-01 (N0514-15B), dilution factor: 2 for Acetic Acid  
REW-8-20140406-01 (N0514-16B), dilution factor: 10 for Acetic Acid  
REW-9-20140406-01 (N0514-17B), dilution factor: 10 for Acetic Acid

**F. Samples:**

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:  \_\_\_\_\_

Date: 04/22/2014



**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-261S-20140408-01

**Lab ID:** N0514-01

**Project:** Raytheon - Wayland

**Collection Date:** 04/08/14 7:20

<b>Analyses</b>	<b>Result Qual</b>	<b>RL Units</b>	<b>DF Date Analyzed</b>	<b>Batch ID</b>
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	6600 E	0.61 µg/L	104/14/2014 11:05	76598
Ethane	7.4	1.3 µg/L	104/14/2014 11:05	76598
Ethene	28	1.6 µg/L	104/14/2014 11:05	76598

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-261S-20140408-01

**Lab ID:** N0514-01

**Project:** Raytheon - Wayland

**Collection Date:** 04/08/14 7:20

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	8500	6.1 µg/L	10 04/18/2014 11:45	76692
Ethane	ND	13 µg/L	10 04/18/2014 11:45	76692
Ethene	ND	16 µg/L	10 04/18/2014 11:45	76692

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-265M-20140408-01

**Lab ID:** N0514-02

**Project:** Raytheon - Wayland

**Collection Date:** 04/08/14 8:45

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	8300 E	0.61 µg/L	1 04/14/2014 11:12	76598
Ethane	3.6	1.3 µg/L	1 04/14/2014 11:12	76598
Ethene	16	1.6 µg/L	1 04/14/2014 11:12	76598

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-265M-20140408-01

**Lab ID:** N0514-02

**Project:** Raytheon - Wayland

**Collection Date:** 04/08/14 8:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>							<b>RSK175</b>
Methane	5000		6.1	µg/L		10 04/18/2014 12:38	76692
Ethane	ND		13	µg/L		10 04/18/2014 12:38	76692
Ethene	ND		16	µg/L		10 04/18/2014 12:38	76692

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-268S-20140407-01

**Lab ID:** N0514-03

**Project:** Raytheon - Wayland

**Collection Date:** 04/07/14 8:45

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	1000	0.60 µg/L	1 04/14/2014 11:25	76598
Ethane	ND	1.2 µg/L	1 04/14/2014 11:25	76598
Ethene	ND	1.5 µg/L	1 04/14/2014 11:25	76598

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-268M-20140407-01

**Lab ID:** N0514-04

**Project:** Raytheon - Wayland

**Collection Date:** 04/07/14 9:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>							<b>RSK175</b>
Methane	230		0.61	µg/L		104/14/2014 11:33	76598
Ethane	ND		1.3	µg/L		104/14/2014 11:33	76598
Ethene	5.0		1.6	µg/L		104/14/2014 11:33	76598

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-552-20140407-01

**Lab ID:** N0514-05

**Project:** Raytheon - Wayland

**Collection Date:** 04/07/14 15:25

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	8700 E	0.60 µg/L	1 04/14/2014 11:54	76598
Ethane	3.0	1.2 µg/L	1 04/14/2014 11:54	76598
Ethene	38	1.5 µg/L	1 04/14/2014 11:54	76598

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-552-20140407-01

**Lab ID:** N0514-05

**Project:** Raytheon - Wayland

**Collection Date:** 04/07/14 15:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>							<b>RSK175</b>
Methane	5800		12	µg/L		20 04/18/2014 13:27	76692
Ethane	ND		25	µg/L		20 04/18/2014 13:27	76692
Ethene	ND		31	µg/L		20 04/18/2014 13:27	76692

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit



# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-553-20140407-01

**Lab ID:** N0514-06

**Project:** Raytheon - Wayland

**Collection Date:** 04/07/14 14:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>							<b>RSK175</b>
Methane	8000	E	0.61	µg/L		104/14/2014 12:55	76598
Ethane	2.4		1.3	µg/L		104/14/2014 12:55	76598
Ethene	6.0		1.6	µg/L		104/14/2014 12:55	76598

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-553-20140407-01

**Lab ID:** N0514-06

**Project:** Raytheon - Wayland

**Collection Date:** 04/07/14 14:30

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<b>Analyses</b>	<b>Result Qual</b>	<b>RL Units</b>	<b>DF Date Analyzed</b>	<b>Batch ID</b>
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	7700	12 µg/L	20 04/18/2014 13:34	76692
Ethane	ND	25 µg/L	20 04/18/2014 13:34	76692
Ethene	ND	32 µg/L	20 04/18/2014 13:34	76692

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**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-560-20140407-01

**Lab ID:** N0514-07

**Project:** Raytheon - Wayland

**Collection Date:** 04/07/14 11:10

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	12000 E	0.60 µg/L	1 04/14/2014 13:15	76598
Ethane	ND	1.2 µg/L	1 04/14/2014 13:15	76598
Ethene	1.7	1.5 µg/L	1 04/14/2014 13:15	76598

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-560-20140407-01

**Lab ID:** N0514-07

**Project:** Raytheon - Wayland

**Collection Date:** 04/07/14 11:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>							<b>RSK175</b>
Methane	15000		12	µg/L		20 04/18/2014 13:41	76692
Ethane		ND	25	µg/L		20 04/18/2014 13:41	76692
Ethene		ND	31	µg/L		20 04/18/2014 13:41	76692

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-561-20140407-01

**Lab ID:** N0514-08

**Project:** Raytheon - Wayland

**Collection Date:** 04/07/14 12:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	17000 E	0.61 µg/L	1 04/14/2014 13:28	76598
Ethane	ND	1.3 µg/L	1 04/14/2014 13:28	76598
Ethene	19	1.6 µg/L	1 04/14/2014 13:28	76598

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-561-20140407-01

**Lab ID:** N0514-08

**Project:** Raytheon - Wayland

**Collection Date:** 04/07/14 12:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	6500	12 µg/L	20 04/18/2014 13:48	76692
Ethane	ND	25 µg/L	20 04/18/2014 13:48	76692
Ethene	ND	32 µg/L	20 04/18/2014 13:48	76692

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-562-20140407-01

**Lab ID:** N0514-09

**Project:** Raytheon - Wayland

**Collection Date:** 04/07/14 13:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	18000 E	0.61 µg/L	104/18/2014 13:55	76692
Ethane	7.6	1.3 µg/L	104/18/2014 13:55	76692
Ethene	ND	1.6 µg/L	104/18/2014 13:55	76692

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-562-20140407-01

**Lab ID:** N0514-09

**Project:** Raytheon - Wayland

**Collection Date:** 04/07/14 13:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	20000	61 µg/L	100 04/18/2014 14:16	76692
Ethane	ND	130 µg/L	100 04/18/2014 14:16	76692
Ethene	ND	160 µg/L	100 04/18/2014 14:16	76692

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit



# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-563-20140407-01

**Lab ID:** N0514-10

**Project:** Raytheon - Wayland

**Collection Date:** 04/07/14 10:20

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	31000 E	0.61 µg/L	1 04/18/2014 14:09	76692
Ethane	2.0	1.3 µg/L	1 04/18/2014 14:09	76692
Ethene	10	1.6 µg/L	1 04/18/2014 14:09	76692

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-563-20140407-01

**Lab ID:** N0514-10

**Project:** Raytheon - Wayland

**Collection Date:** 04/07/14 10:20

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	40000	61 µg/L	100 04/18/2014 14:23	76692
Ethane	ND	130 µg/L	100 04/18/2014 14:23	76692
Ethene	ND	160 µg/L	100 04/18/2014 14:23	76692

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-1-20140406-01

**Lab ID:** N0514-11

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 13:45

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	8900 E	0.61 µg/L	104/17/2014 11:09	76664
Ethane	3.2	1.3 µg/L	104/17/2014 11:09	76664
Ethene	ND	1.6 µg/L	104/17/2014 11:09	76664

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-1-20140406-01

**Lab ID:** N0514-11

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 13:45

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	9500	12 µg/L	20 04/18/2014 9:33	76692
Ethane	ND	25 µg/L	20 04/18/2014 9:33	76692
Ethene	ND	32 µg/L	20 04/18/2014 9:33	76692

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-4-20140406-01

**Lab ID:** N0514-12

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 15:20

<b>Analyses</b>	<b>Result Qual</b>	<b>RL Units</b>	<b>DF Date Analyzed</b>	<b>Batch ID</b>
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	7700 E	0.61 µg/L	104/17/2014 11:16	76664
Ethane	ND	1.3 µg/L	104/17/2014 11:16	76664
Ethene	5.5	1.6 µg/L	104/17/2014 11:16	76664

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-4-20140406-01

**Lab ID:** N0514-12

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 15:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>							<b>RSK175</b>
Methane	6000		12	µg/L		20 04/18/2014 9:51	76692
Ethane		ND	25	µg/L		20 04/18/2014 9:51	76692
Ethene		ND	32	µg/L		20 04/18/2014 9:51	76692

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-5-20140406-01

**Lab ID:** N0514-13

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 14:30

<b>Analyses</b>	<b>Result Qual</b>	<b>RL Units</b>	<b>DF Date Analyzed</b>	<b>Batch ID</b>
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	8800 E	0.60 µg/L	1 04/17/2014 11:24	76664
Ethane	2.3	1.2 µg/L	1 04/17/2014 11:24	76664
Ethene	3.1	1.5 µg/L	1 04/17/2014 11:24	76664

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-5-20140406-01

**Lab ID:** N0514-13

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 14:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	8300	6.0 µg/L	10 04/18/2014 10:03	76692
Ethane	ND	12 µg/L	10 04/18/2014 10:03	76692
Ethene	ND	15 µg/L	10 04/18/2014 10:03	76692

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit



# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-6-20140406-01

**Lab ID:** N0514-14

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 9:05

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	8700 E	0.60 µg/L	1 04/17/2014 11:32	76664
Ethane	ND	1.2 µg/L	1 04/17/2014 11:32	76664
Ethene	ND	1.5 µg/L	1 04/17/2014 11:32	76664

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-6-20140406-01

**Lab ID:** N0514-14

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 9:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>							<b>RSK175</b>
Methane	8000		6.0	µg/L		10 04/18/2014 10:28	76692
Ethane	ND		12	µg/L		10 04/18/2014 10:28	76692
Ethene	ND		15	µg/L		10 04/18/2014 10:28	76692

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-7-20140406-01

**Lab ID:** N0514-15

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 9:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>							<b>RSK175</b>
Methane	200		0.61	µg/L		104/17/2014 11:39	76664
Ethane	ND		1.3	µg/L		104/17/2014 11:39	76664
Ethene	1.9		1.6	µg/L		104/17/2014 11:39	76664

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-8-20140406-01

**Lab ID:** N0514-16

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 10:45

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	16000 E	0.60 µg/L	1 04/17/2014 11:47	76664
Ethane	1.6	1.2 µg/L	1 04/17/2014 11:47	76664
Ethene	12	1.5 µg/L	1 04/17/2014 11:47	76664

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-8-20140406-01

**Lab ID:** N0514-16

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>							<b>RSK175</b>
Methane	15000		12	µg/L		20 04/18/2014 11:05	76692
Ethane		ND	25	µg/L		20 04/18/2014 11:05	76692
Ethene		ND	31	µg/L		20 04/18/2014 11:05	76692

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-9-20140406-01

**Lab ID:** N0514-17

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 11:40

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	7200 E	0.60 µg/L	1 04/17/2014 11:54	76664
Ethane	ND	1.2 µg/L	1 04/17/2014 11:54	76664
Ethene	2.1	1.5 µg/L	1 04/17/2014 11:54	76664

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-9-20140406-01

**Lab ID:** N0514-17

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 11:40

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	9400	12 µg/L	20 04/18/2014 11:14	76692
Ethane	ND	25 µg/L	20 04/18/2014 11:14	76692
Ethene	ND	31 µg/L	20 04/18/2014 11:14	76692

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-10-20140406-01

**Lab ID:** N0514-18

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 12:25

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<b>Analyses</b>	<b>Result Qual</b>	<b>RL Units</b>	<b>DF Date Analyzed</b>	<b>Batch ID</b>
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	3900 E	0.61 µg/L	1 04/17/2014 12:03	76664
Ethane	ND	1.3 µg/L	1 04/17/2014 12:03	76664
Ethene	ND	1.6 µg/L	1 04/17/2014 12:03	76664

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**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit



# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-10-20140406-01

**Lab ID:** N0514-18

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 12:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>							<b>RSK175</b>
Methane	3400		6.1	µg/L		10 04/18/2014 11:25	76692
Ethane		ND	13	µg/L		10 04/18/2014 11:25	76692
Ethene		ND	16	µg/L		10 04/18/2014 11:25	76692

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-11-20140406-01

**Lab ID:** N0514-19

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 8:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>							<b>RSK175</b>
Methane	240		0.60	µg/L		104/17/2014 12:11	76664
Ethane	ND		1.2	µg/L		104/17/2014 12:11	76664
Ethene	2.7		1.5	µg/L		104/17/2014 12:11	76664

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-12-20140406-01

**Lab ID:** N0514-20

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 13:10

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	2200 E	0.61 µg/L	1 04/17/2014 12:19	76664
Ethane	ND	1.3 µg/L	1 04/17/2014 12:19	76664
Ethene	5.8	1.6 µg/L	1 04/17/2014 12:19	76664

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-12-20140406-01

**Lab ID:** N0514-20

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 13:10

<b>Analyses</b>	<b>Result Qual</b>	<b>RL Units</b>	<b>DF Date Analyzed</b>	<b>Batch ID</b>
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	1200	3.1 µg/L	5 04/18/2014 11:33	76692
Ethane	ND	6.3 µg/L	5 04/18/2014 11:33	76692
Ethene	ND	7.9 µg/L	5 04/18/2014 11:33	76692

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** TRIP BLANK

**Lab ID:** N0514-21

**Project:** Raytheon - Wayland

**Collection Date:** 04/08/14 0:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>RSK175 -- Dissolved Gases by GC-FID</b>				<b>RSK175</b>
Methane	ND	0.60 µg/L	1 04/21/2014 14:52	76722
Ethane	ND	1.2 µg/L	1 04/21/2014 14:52	76722
Ethene	ND	1.5 µg/L	1 04/21/2014 14:52	76722

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**CLIENT:** Innovative Engineering Solutions, Inc. **ANALYTICAL QC SUMMARY REPORT**

**Work Order:** N0514

**RSK175**

**Project:** Raytheon - Wayland

**RSK175 -- Dissolved Gases by GC-FID**

Sample ID: MB-76598	SampType: MBLK	TestCode: RSK175	Prep Date: 04/14/14 7:09	Run ID: V7_140414A								
Client ID: MB-76598	Batch ID: 76598	Units: µg/L	Analysis Date 04/14/14 10:17	SeqNo: 2070421								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.36		0.60								
Ethane	ND	0.51		1.2								
Ethene	ND	0.71		1.5								

Sample ID: MB-76664	SampType: MBLK	TestCode: RSK175	Prep Date: 04/17/14 8:10	Run ID: V7_140417A								
Client ID: MB-76664	Batch ID: 76664	Units: µg/L	Analysis Date 04/17/14 10:51	SeqNo: 2072688								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.36		0.60								
Ethane	ND	0.51		1.2								
Ethene	ND	0.71		1.5								

Sample ID: MB-76692	SampType: MBLK	TestCode: RSK175	Prep Date: 04/18/14 6:43	Run ID: V7_140418A								
Client ID: MB-76692	Batch ID: 76692	Units: µg/L	Analysis Date 04/18/14 8:46	SeqNo: 2072779								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.36		0.60								
Ethane	ND	0.51		1.2								
Ethene	ND	0.71		1.5								

Sample ID: MB-76722	SampType: MBLK	TestCode: RSK175	Prep Date: 04/21/14 8:05	Run ID: V7_140421A								
Client ID: MB-76722	Batch ID: 76722	Units: µg/L	Analysis Date 04/21/14 14:39	SeqNo: 2073110								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.36		0.60								
Ethane	ND	0.51		1.2								
Ethene	ND	0.71		1.5								

Sample ID: LCS-76598	SampType: LCS	TestCode: RSK175	Prep Date: 04/14/14 7:09	Run ID: V7_140414A								
Client ID: LCS-76598	Batch ID: 76598	Units: µg/L	Analysis Date 04/14/14 10:08	SeqNo: 2070420								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	41.85	0.36		46.29	0	90.4	75	125	0			
Ethane	75.98	0.51		87.43	0	86.9	75	125	0			
Ethene	84.67	0.71		81.26	0	104	75	125	0			

**Qualifiers:** ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

**CLIENT:** Innovative Engineering Solutions, Inc.  
**Work Order:** N0514  
**Project:** Raytheon - Wayland

# ANALYTICAL QC SUMMARY REPORT

**RSK175**  
**RSK175 -- Dissolved Gases by GC-FID**

Sample ID: <b>LCS-76664</b>	SampType: <b>LCS</b>	TestCode: <b>RSK175</b>	Prep Date: <b>04/17/14 8:10</b>	Run ID: <b>V7_140417A</b>								
Client ID: <b>LCS-76664</b>	Batch ID: <b>76664</b>	Units: <b>µg/L</b>	Analysis Date: <b>04/17/14 9:46</b>	SeqNo: <b>2072687</b>								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	35.33	0.36	0.60	46.29	0	76.3	75	125	0			
Ethane	72.69	0.51	1.2	87.43	0	83.1	75	125	0			
Ethene	82.60	0.71	1.5	81.26	0	102	75	125	0			

Sample ID: <b>LCS-76692</b>	SampType: <b>LCS</b>	TestCode: <b>RSK175</b>	Prep Date: <b>04/18/14 6:43</b>	Run ID: <b>V7_140418A</b>								
Client ID: <b>LCS-76692</b>	Batch ID: <b>76692</b>	Units: <b>µg/L</b>	Analysis Date: <b>04/18/14 8:12</b>	SeqNo: <b>2072777</b>								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	35.54	0.36	0.60	46.29	0	76.8	75	125	0			
Ethane	76.72	0.51	1.2	87.43	0	87.8	75	125	0			
Ethene	89.05	0.71	1.5	81.26	0	110	75	125	0			

Sample ID: <b>LCS-76722</b>	SampType: <b>LCS</b>	TestCode: <b>RSK175</b>	Prep Date: <b>04/21/14 8:05</b>	Run ID: <b>V7_140421A</b>								
Client ID: <b>LCS-76722</b>	Batch ID: <b>76722</b>	Units: <b>µg/L</b>	Analysis Date: <b>04/21/14 13:48</b>	SeqNo: <b>2073109</b>								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	49.60	0.36	0.60	46.29	0	107	75	125	0			
Ethane	69.84	0.51	1.2	87.43	0	79.9	75	125	0			
Ethene	81.39	0.71	1.5	81.26	0	100	75	125	0			

Sample ID: <b>LCSD-76664</b>	SampType: <b>LCSD</b>	TestCode: <b>RSK175</b>	Prep Date: <b>04/17/14 8:10</b>	Run ID: <b>V7_140417A</b>								
Client ID: <b>LCSD-76664</b>	Batch ID: <b>76664</b>	Units: <b>µg/L</b>	Analysis Date: <b>04/17/14 13:18</b>	SeqNo: <b>2072699</b>								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	56.11	0.35	0.58	45.00	0	125	75	125	35.33	45.5	30	R
Ethane	65.63	0.50	1.2	85.00	0	77.2	75	125	72.69	10.2	30	
Ethene	66.54	0.69	1.5	79.00	0	84.2	75	125	82.60	21.5	30	

Sample ID: <b>LCSD-76692</b>	SampType: <b>LCSD</b>	TestCode: <b>RSK175</b>	Prep Date: <b>04/18/14 6:43</b>	Run ID: <b>V7_140418A</b>								
Client ID: <b>LCSD-76692</b>	Batch ID: <b>76692</b>	Units: <b>µg/L</b>	Analysis Date: <b>04/18/14 8:29</b>	SeqNo: <b>2072778</b>								
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	42.97	0.36	0.60	46.29	0	92.8	75	125	35.54	18.9	30	
Ethane	92.11	0.51	1.2	87.43	0	105	75	125	76.72	18.2	30	
Ethene	97.00	0.71	1.5	81.26	0	119	75	125	89.05	8.55	30	

**Qualifiers:** ND - Not Detected at the MDL      S - Recovery outside accepted recovery limits      MDL - Method Detection Limit      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/21/2014

**Client:** Innovative Engineering Solutions, Inc.  
**Client Sample ID:** MW-261S-20140408-01  
**Lab ID:** N0514-01

**Project:** Raytheon - Wayland  
**Collection Date:** 04/08/14 7:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SW846 6010C -- Metals by ICP</b>							<b>SW6010_W</b>
Iron	100000	B	200	ug/L	1	04/16/2014 9:12	76622

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit



**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/21/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-265M-20140408-01

**Lab ID:** N0514-02

**Project:** Raytheon - Wayland

**Collection Date:** 04/08/14 8:45

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>SW846 6010C -- Metals by ICP</b>				<b>SW6010_W</b>
Iron	120000 B	200 ug/L	1 04/16/2014 9:16	76622

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/21/2014

**Client:** Innovative Engineering Solutions, Inc.  
**Client Sample ID:** MW-268S-20140407-01  
**Lab ID:** N0514-03

**Project:** Raytheon - Wayland  
**Collection Date:** 04/07/14 8:45

---

<b>Analyses</b>	<b>Result Qual</b>	<b>RL Units</b>	<b>DF Date Analyzed</b>	<b>Batch ID</b>
<b>SW846 6010C -- Metals by ICP</b>				<b>SW6010_W</b>
Iron	190 BJ	200 ug/L	1 04/16/2014 9:20	76622

---

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

**Client:** Innovative Engineering Solutions, Inc.  
**Client Sample ID:** MW-268M-20140407-01  
**Lab ID:** N0514-04

**Project:** Raytheon - Wayland  
**Collection Date:** 04/07/14 9:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SW846 6010C -- Metals by ICP</b>							<b>SW6010_W</b>
Iron	21000	B	200	ug/L	1	04/16/2014 9:23	76622

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/21/2014

**Client:** Innovative Engineering Solutions, Inc.  
**Client Sample ID:** MW-552-20140407-01  
**Lab ID:** N0514-05

**Project:** Raytheon - Wayland  
**Collection Date:** 04/07/14 15:25

---

<b>Analyses</b>	<b>Result Qual</b>	<b>RL Units</b>	<b>DF Date Analyzed</b>	<b>Batch ID</b>
<b>SW846 6010C -- Metals by ICP</b>				<b>SW6010_W</b>
Iron	41000 B	200 ug/L	1 04/16/2014 9:27	76622

---

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/21/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-553-20140407-01

**Lab ID:** N0514-06

**Project:** Raytheon - Wayland

**Collection Date:** 04/07/14 14:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>SW846 6010C -- Metals by ICP</b>				<b>SW6010_W</b>
Iron	21000 B	200 ug/L	1 04/16/2014 9:36	76622

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/21/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-560-20140407-01

**Lab ID:** N0514-07

**Project:** Raytheon - Wayland

**Collection Date:** 04/07/14 11:10

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<b>Analyses</b>	<b>Result Qual</b>	<b>RL Units</b>	<b>DF Date Analyzed</b>	<b>Batch ID</b>
<b>SW846 6010C -- Metals by ICP</b>				<b>SW6010_W</b>
Iron	94000 B	200 ug/L	1 04/16/2014 9:39	76622

---

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/21/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-561-20140407-01

**Lab ID:** N0514-08

**Project:** Raytheon - Wayland

**Collection Date:** 04/07/14 12:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>SW846 6010C -- Metals by ICP</b>				<b>SW6010_W</b>
Iron	26000 B	200 ug/L	1 04/16/2014 9:43	76622

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/21/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-562-20140407-01

**Lab ID:** N0514-09

**Project:** Raytheon - Wayland

**Collection Date:** 04/07/14 13:30

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>SW846 6010C -- Metals by ICP</b>				<b>SW6010_W</b>
Iron	290000 B	200 ug/L	1 04/16/2014 9:46	76622

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit



**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/21/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-563-20140407-01

**Lab ID:** N0514-10

**Project:** Raytheon - Wayland

**Collection Date:** 04/07/14 10:20

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>SW846 6010C -- Metals by ICP</b>				<b>SW6010_W</b>
Iron	120000 B	200 ug/L	1 04/16/2014 9:49	76622

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/21/2014

**Client:** Innovative Engineering Solutions, Inc.  
**Client Sample ID:** REW-1-20140406-01  
**Lab ID:** N0514-11

**Project:** Raytheon - Wayland  
**Collection Date:** 04/06/14 13:45

---

<b>Analyses</b>	<b>Result Qual</b>	<b>RL Units</b>	<b>DF Date Analyzed</b>	<b>Batch ID</b>
<b>SW846 6010C -- Metals by ICP</b>				<b>SW6010_W</b>
Iron	13000 B	200 ug/L	1 04/16/2014 9:53	76622

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**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/21/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-4-20140406-01

**Lab ID:** N0514-12

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 15:20

---

<b>Analyses</b>	<b>Result Qual</b>	<b>RL Units</b>	<b>DF Date Analyzed</b>	<b>Batch ID</b>
<b>SW846 6010C -- Metals by ICP</b>				<b>SW6010_W</b>
Iron	13000 B	200 ug/L	1 04/16/2014 9:56	76622

---

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-5-20140406-01

**Lab ID:** N0514-13

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 14:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SW846 6010C -- Metals by ICP</b>							<b>SW6010_W</b>
Iron	15000	B	200	ug/L	1	04/16/2014 10:00	76622

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/21/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-6-20140406-01

**Lab ID:** N0514-14

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 9:05

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>SW846 6010C -- Metals by ICP</b>				<b>SW6010_W</b>
Iron	71000 B	200 ug/L	1 04/16/2014 10:03	76622

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

04/21/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-7-20140406-01

**Lab ID:** N0514-15

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 9:35

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Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>SW846 6010C -- Metals by ICP</b>							<b>SW6010_W</b>
Iron	42000	B	200	ug/L	1	04/16/2014 10:13	76622

---

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/21/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-8-20140406-01

**Lab ID:** N0514-16

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 10:45

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<b>Analyses</b>	<b>Result Qual</b>	<b>RL Units</b>	<b>DF Date Analyzed</b>	<b>Batch ID</b>
<b>SW846 6010C -- Metals by ICP</b>				<b>SW6010_W</b>
Iron	89000 B	200 ug/L	1 04/16/2014 10:16	76622

---

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/21/2014

**Client:** Innovative Engineering Solutions, Inc.  
**Client Sample ID:** REW-9-20140406-01  
**Lab ID:** N0514-17

**Project:** Raytheon - Wayland  
**Collection Date:** 04/06/14 11:40

---

<b>Analyses</b>	<b>Result Qual</b>	<b>RL Units</b>	<b>DF Date Analyzed</b>	<b>Batch ID</b>
<b>SW846 6010C -- Metals by ICP</b>				<b>SW6010_W</b>
Iron	64000 B	200 ug/L	1 04/16/2014 10:19	76622

---

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit



**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/21/2014

**Client:** Innovative Engineering Solutions, Inc.  
**Client Sample ID:** REW-10-20140406-01  
**Lab ID:** N0514-18

**Project:** Raytheon - Wayland  
**Collection Date:** 04/06/14 12:25

---

<b>Analyses</b>	<b>Result Qual</b>	<b>RL Units</b>	<b>DF Date Analyzed</b>	<b>Batch ID</b>
<b>SW846 6010C -- Metals by ICP</b>				<b>SW6010_W</b>
Iron	130 BJ	200 ug/L	1 04/16/2014 10:22	76622

---

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/21/2014

**Client:** Innovative Engineering Solutions, Inc.  
**Client Sample ID:** REW-11-20140406-01  
**Lab ID:** N0514-19

**Project:** Raytheon - Wayland  
**Collection Date:** 04/06/14 8:15

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<b>Analyses</b>	<b>Result Qual</b>	<b>RL Units</b>	<b>DF Date Analyzed</b>	<b>Batch ID</b>
<b>SW846 6010C -- Metals by ICP</b>				<b>SW6010_W</b>
Iron	23000 B	200 ug/L	1 04/16/2014 10:26	76622

---

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/21/2014

**Client:** Innovative Engineering Solutions, Inc.  
**Client Sample ID:** REW-12-20140406-01  
**Lab ID:** N0514-20

**Project:** Raytheon - Wayland  
**Collection Date:** 04/06/14 13:10

---

<b>Analyses</b>	<b>Result Qual</b>	<b>RL Units</b>	<b>DF Date Analyzed</b>	<b>Batch ID</b>
<b>SW846 6010C -- Metals by ICP</b>				<b>SW6010_W</b>
Iron	32000 B	200 ug/L	1 04/16/2014 10:29	76622

---

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
RL - Reporting Limit

**Z**

**CLIENT:** Innovative Engineering Solutions, Inc.  
**Work Order:** N0514  
**Project:** Raytheon - Wayland

**ANALYTICAL QC SUMMARY REPORT**  
**SW6010\_W**  
**SW846 6010C -- Metals by ICP**

Sample ID: <b>MB-76622</b>	SampType: <b>MBLK</b>	TestCode: <b>SW6010_W</b>	Prep Date: <b>04/15/14 13:30</b>	Run ID: <b>OPTIMA2_140416A</b>						
Client ID: <b>MB-76622</b>	Batch ID: <b>76622</b>	Units: <b>ug/L</b>	Analysis Date: <b>04/16/14 9:04</b>	SeqNo: <b>2071046</b>						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	34.19	31	0	100	80	120	0	0		J

Sample ID: <b>LCS-76622</b>	SampType: <b>LCS</b>	TestCode: <b>SW6010_W</b>	Prep Date: <b>04/15/14 13:30</b>	Run ID: <b>OPTIMA2_140416A</b>						
Client ID: <b>LCS-76622</b>	Batch ID: <b>76622</b>	Units: <b>ug/L</b>	Analysis Date: <b>04/16/14 9:07</b>	SeqNo: <b>2071047</b>						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	4567	31	0	100	80	120	0	0		B

Sample ID: <b>LCSD-76622</b>	SampType: <b>LCSD</b>	TestCode: <b>SW6010_W</b>	Prep Date: <b>04/15/14 13:30</b>	Run ID: <b>OPTIMA2_140416A</b>						
Client ID: <b>LCSD-76622</b>	Batch ID: <b>76622</b>	Units: <b>ug/L</b>	Analysis Date: <b>04/16/14 9:10</b>	SeqNo: <b>2071048</b>						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	4982	31	0	109	80	120	4567	8.67	20	B

Sample ID: <b>N0514-20DSD</b>	SampType: <b>SD</b>	TestCode: <b>SW6010_W</b>	Prep Date: <b>04/15/14 13:30</b>	Run ID: <b>OPTIMA2_140416A</b>						
Client ID: <b>REW-12-20140406-0</b>	Batch ID: <b>76622</b>	Units: <b>ug/L</b>	Analysis Date: <b>04/16/14 10:33</b>	SeqNo: <b>2071073</b>						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	32490	160	0	0	0	0	32330	0.484	10	B

**Qualifiers:** ND - Not Detected at the MDL      S - Recovery outside accepted recovery limits      MDL - Method Detection Limit      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-261S-20140408-01

**Lab ID:** N0514-01

**Project:** Raytheon - Wayland

**Collection Date:** 04/08/14 7:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>EPA 300.0 Modified -- Volatile Organic Acids</b>							<b>E300_VOA_W</b>
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 15:41	76638
Acetic Acid	260		25	mg/L		5 04/18/2014 0:59	76638
Propionic Acid	5.4		5.0	mg/L		1 04/17/2014 15:41	76638
Butyric Acid	8.5		5.0	mg/L		1 04/17/2014 15:41	76638
<b>EPA 300.0 -- Anions by Ion Chromotography (LOW)</b>							<b>E300IC_W</b>
Chloride	33		2.0	mg/L		1 04/09/2014 16:00	76537
Nitrogen, Nitrate (As N)	0.33		0.13	mg/L		1 04/09/2014 16:00	76537
Sulfate	0.40	J	5.0	mg/L		1 04/09/2014 16:00	76537
<b>SM 2320B -- Alkalinity (Total)</b>							<b>SM2320_W</b>
Alkalinity, Total (As CaCO3)	160		20	mg/L CaCO3		1 04/11/2014 13:15	76576
<b>SM 4500 H+ B -- pH VALUE</b>							<b>SM4500_H+</b>
pH	6.6		1.0	S.U.		1 04/15/2014 11:36	R80881
<b>SM 4500P-E OP -- Orthophosphate</b>							<b>SM4500_OP_W</b>
Orthophosphate (As PO4)	0.47		0.050	mg/L		1 04/09/2014 15:37	76535
<b>SM 5310B TOC -- Total Organic Carbon by combustion</b>							<b>SM5310B_TOC_W</b>
Organic Carbon, Total	120		10	mg/L		1 04/14/2014 21:00	76597

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division**

04/22/2014

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-265M-20140408-01

**Lab ID:** N0514-02

**Project:** Raytheon - Wayland

**Collection Date:** 04/08/14 8:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>EPA 300.0 Modified -- Volatile Organic Acids</b>							<b>E300_VOA_W</b>
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 16:46	76638
Acetic Acid	1100		100	mg/L		20 04/18/2014 2:04	76638
Propionic Acid	6.7		5.0	mg/L		1 04/17/2014 16:46	76638
Butyric Acid	26		5.0	mg/L		1 04/17/2014 16:46	76638
<b>EPA 300.0 -- Anions by Ion Chromotography (LOW)</b>							<b>E300IC_W</b>
Chloride	26		2.0	mg/L		1 04/09/2014 16:12	76537
Nitrogen, Nitrate (As N)	0.089	J	0.13	mg/L		1 04/09/2014 16:12	76537
Sulfate	0.57	J	5.0	mg/L		1 04/09/2014 16:12	76537
<b>SM 2320B -- Alkalinity (Total)</b>							<b>SM2320_W</b>
Alkalinity, Total (As CaCO3)	150		20	mg/L CaCO3		1 04/11/2014 13:15	76576
<b>SM 4500 H+ B -- pH VALUE</b>							<b>SM4500_H+</b>
pH	6.5		1.0	S.U.		1 04/15/2014 11:38	R80881
<b>SM 4500P-E OP -- Orthophosphate</b>							<b>SM4500_OP_W</b>
Orthophosphate (As PO4)	0.098		0.050	mg/L		1 04/09/2014 15:40	76535
<b>SM 5310B TOC -- Total Organic Carbon by combustion</b>							<b>SM5310B_TOC_W</b>
Organic Carbon, Total	380		10	mg/L		1 04/14/2014 21:20	76597

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-268S-20140407-01

Lab ID: N0514-03

Project: Raytheon - Wayland

Collection Date: 04/07/14 8:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>EPA 300.0 Modified -- Volatile Organic Acids</b>							<b>E300_VOA_W</b>
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 17:07	76638
Acetic Acid	ND		5.0	mg/L		1 04/17/2014 17:07	76638
Propionic Acid	ND		5.0	mg/L		1 04/17/2014 17:07	76638
Butyric Acid	ND		5.0	mg/L		1 04/17/2014 17:07	76638
<b>EPA 300.0 -- Anions by Ion Chromotography (LOW)</b>							<b>E300IC_W</b>
Chloride	9.9		2.0	mg/L		1 04/09/2014 16:24	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 16:24	76537
Sulfate	25		5.0	mg/L		1 04/09/2014 16:24	76537
<b>SM 2320B -- Alkalinity (Total)</b>							<b>SM2320_W</b>
Alkalinity, Total (As CaCO3)	ND		20	mg/L CaCO3		1 04/11/2014 13:15	76576
<b>SM 4500 H+ B -- pH VALUE</b>							<b>SM4500_H+</b>
pH	7.3		1.0	S.U.		1 04/15/2014 11:39	R80881
<b>SM 4500P-E OP -- Orthophosphate</b>							<b>SM4500_OP_W</b>
Orthophosphate (As PO4)	ND		0.050	mg/L		1 04/09/2014 15:43	76535
<b>SM 5310B TOC -- Total Organic Carbon by combustion</b>							<b>SM5310B_TOC_W</b>
Organic Carbon, Total	ND		10	mg/L		1 04/14/2014 21:40	76597

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-268M-20140407-01

Lab ID: N0514-04

Project: Raytheon - Wayland

Collection Date: 04/07/14 9:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>EPA 300.0 Modified -- Volatile Organic Acids</b>							<b>E300_VOA_W</b>
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 17:29	76638
Acetic Acid	0.43	J	5.0	mg/L		1 04/17/2014 17:29	76638
Propionic Acid	ND		5.0	mg/L		1 04/17/2014 17:29	76638
Butyric Acid	ND		5.0	mg/L		1 04/17/2014 17:29	76638
<b>EPA 300.0 -- Anions by Ion Chromotography (LOW)</b>							<b>E300IC_W</b>
Chloride	23		2.0	mg/L		1 04/09/2014 16:36	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 16:36	76537
Sulfate	41		5.0	mg/L		1 04/09/2014 16:36	76537
<b>SM 2320B -- Alkalinity (Total)</b>							<b>SM2320_W</b>
Alkalinity, Total (As CaCO3)	24		20	mg/L CaCO3		1 04/11/2014 13:15	76576
<b>SM 4500 H+ B -- pH VALUE</b>							<b>SM4500_H+</b>
pH	6.9		1.0	S.U.		1 04/15/2014 11:40	R80881
<b>SM 4500P-E OP -- Orthophosphate</b>							<b>SM4500_OP_W</b>
Orthophosphate (As PO4)	0.082		0.050	mg/L		1 04/09/2014 15:45	76535
<b>SM 5310B TOC -- Total Organic Carbon by combustion</b>							<b>SM5310B_TOC_W</b>
Organic Carbon, Total	ND		10	mg/L		1 04/14/2014 21:59	76597

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit



Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-552-20140407-01

Lab ID: N0514-05

Project: Raytheon - Wayland

Collection Date: 04/07/14 15:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>EPA 300.0 Modified -- Volatile Organic Acids</b>							<b>E300_VOA_W</b>
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 17:50	76638
Acetic Acid	17		5.0	mg/L		1 04/17/2014 17:50	76638
Propionic Acid	0.86	J	5.0	mg/L		1 04/17/2014 17:50	76638
Butyric Acid	ND		5.0	mg/L		1 04/17/2014 17:50	76638
<b>EPA 300.0 -- Anions by Ion Chromotography (LOW)</b>							<b>E300IC_W</b>
Chloride	23		2.0	mg/L		1 04/09/2014 16:47	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 16:47	76537
Sulfate	1.7	J	5.0	mg/L		1 04/09/2014 16:47	76537
<b>SM 2320B -- Alkalinity (Total)</b>							<b>SM2320_W</b>
Alkalinity, Total (As CaCO3)	61		20	mg/L CaCO3		1 04/11/2014 13:15	76576
<b>SM 4500 H+ B -- pH VALUE</b>							<b>SM4500_H+</b>
pH	7.0		1.0	S.U.		1 04/15/2014 11:41	R80881
<b>SM 4500P-E OP -- Orthophosphate</b>							<b>SM4500_OP_W</b>
Orthophosphate (As PO4)	0.61		0.050	mg/L		1 04/09/2014 15:48	76535
<b>SM 5310B TOC -- Total Organic Carbon by combustion</b>							<b>SM5310B_TOC_W</b>
Organic Carbon, Total	16		10	mg/L		1 04/14/2014 22:18	76597

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-553-20140407-01

Lab ID: N0514-06

Project: Raytheon - Wayland

Collection Date: 04/07/14 14:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>EPA 300.0 Modified -- Volatile Organic Acids</b>							<b>E300_VOA_W</b>
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 18:54	76638
Acetic Acid	14		5.0	mg/L		1 04/17/2014 18:54	76638
Propionic Acid	ND		5.0	mg/L		1 04/17/2014 18:54	76638
Butyric Acid	ND		5.0	mg/L		1 04/17/2014 18:54	76638
<b>EPA 300.0 -- Anions by Ion Chromotography (LOW)</b>							<b>E300IC_W</b>
Chloride	19		2.0	mg/L		1 04/09/2014 16:59	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 16:59	76537
Sulfate	0.61	J	5.0	mg/L		1 04/09/2014 16:59	76537
<b>SM 2320B -- Alkalinity (Total)</b>							<b>SM2320_W</b>
Alkalinity, Total (As CaCO3)	40		20	mg/L CaCO3		1 04/11/2014 13:15	76576
<b>SM 4500 H+ B -- pH VALUE</b>							<b>SM4500_H+</b>
pH	7.2		1.0	S.U.		1 04/15/2014 11:42	R80881
<b>SM 4500P-E OP -- Orthophosphate</b>							<b>SM4500_OP_W</b>
Orthophosphate (As PO4)	0.11		0.050	mg/L		1 04/09/2014 15:50	76535
<b>SM 5310B TOC -- Total Organic Carbon by combustion</b>							<b>SM5310B_TOC_W</b>
Organic Carbon, Total	17		10	mg/L		1 04/14/2014 22:37	76597

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-560-20140407-01

**Lab ID:** N0514-07

**Project:** Raytheon - Wayland

**Collection Date:** 04/07/14 11:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>EPA 300.0 Modified -- Volatile Organic Acids</b>							<b>E300_VOA_W</b>
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 19:16	76638
Acetic Acid	780		50	mg/L		10 04/18/2014 9:14	76638
Propionic Acid	6.0		5.0	mg/L		1 04/17/2014 19:16	76638
Butyric Acid	16		5.0	mg/L		1 04/17/2014 19:16	76638
<b>EPA 300.0 -- Anions by Ion Chromotography (LOW)</b>							<b>E300IC_W</b>
Chloride	22		2.0	mg/L		1 04/09/2014 17:11	76537
Nitrogen, Nitrate (As N)	0.095	J	0.13	mg/L		1 04/09/2014 17:11	76537
Sulfate	0.61	J	5.0	mg/L		1 04/09/2014 17:11	76537
<b>SM 2320B -- Alkalinity (Total)</b>							<b>SM2320_W</b>
Alkalinity, Total (As CaCO3)	65		20	mg/L CaCO3		1 04/11/2014 13:15	76576
<b>SM 4500 H+ B -- pH VALUE</b>							<b>SM4500_H+</b>
pH	6.3		1.0	S.U.		1 04/15/2014 11:43	R80881
<b>SM 4500P-E OP -- Orthophosphate</b>							<b>SM4500_OP_W</b>
Orthophosphate (As PO4)	0.31		0.050	mg/L		1 04/09/2014 15:53	76535
<b>SM 5310B TOC -- Total Organic Carbon by combustion</b>							<b>SM5310B_TOC_W</b>
Organic Carbon, Total	330		10	mg/L		1 04/14/2014 22:56	76597

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-561-20140407-01

**Lab ID:** N0514-08

**Project:** Raytheon - Wayland

**Collection Date:** 04/07/14 12:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>EPA 300.0 Modified -- Volatile Organic Acids</b>							<b>E300_VOA_W</b>
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 19:37	76638
Acetic Acid	330		50	mg/L		10 04/18/2014 9:35	76638
Propionic Acid	0.83	J	5.0	mg/L		1 04/17/2014 19:37	76638
Butyric Acid	2.9	J	5.0	mg/L		1 04/17/2014 19:37	76638
<b>EPA 300.0 -- Anions by Ion Chromotography (LOW)</b>							<b>E300IC_W</b>
Chloride	25		2.0	mg/L		1 04/09/2014 17:22	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 17:22	76537
Sulfate	ND		5.0	mg/L		1 04/09/2014 17:22	76537
<b>SM 2320B -- Alkalinity (Total)</b>							<b>SM2320_W</b>
Alkalinity, Total (As CaCO3)	31		20	mg/L CaCO3		1 04/11/2014 13:15	76576
<b>SM 4500 H+ B -- pH VALUE</b>							<b>SM4500_H+</b>
pH	6.6		1.0	S.U.		1 04/15/2014 11:44	R80881
<b>SM 4500P-E OP -- Orthophosphate</b>							<b>SM4500_OP_W</b>
Orthophosphate (As PO4)	0.053		0.050	mg/L		1 04/09/2014 15:56	76535
<b>SM 5310B TOC -- Total Organic Carbon by combustion</b>							<b>SM5310B_TOC_W</b>
Organic Carbon, Total	220		10	mg/L		1 04/15/2014 8:33	76597

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** MW-562-20140407-01

**Lab ID:** N0514-09

**Project:** Raytheon - Wayland

**Collection Date:** 04/07/14 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>EPA 300.0 Modified -- Volatile Organic Acids</b>							<b>E300_VOA_W</b>
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 19:59	76638
Acetic Acid	530		50	mg/L		10 04/18/2014 9:57	76638
Propionic Acid	8.5		5.0	mg/L		1 04/17/2014 19:59	76638
Butyric Acid	39		5.0	mg/L		1 04/17/2014 19:59	76638
<b>EPA 300.0 -- Anions by Ion Chromotography (LOW)</b>							<b>E300IC_W</b>
Chloride	36		2.0	mg/L		1 04/09/2014 17:58	76537
Nitrogen, Nitrate (As N)	0.11	J	0.13	mg/L		1 04/09/2014 17:58	76537
Sulfate	0.64	J	5.0	mg/L		1 04/09/2014 17:58	76537
<b>SM 2320B -- Alkalinity (Total)</b>							<b>SM2320_W</b>
Alkalinity, Total (As CaCO3)	140		20	mg/L CaCO3		1 04/11/2014 13:15	76576
<b>SM 4500 H+ B -- pH VALUE</b>							<b>SM4500_H+</b>
pH	6.5		1.0	S.U.		1 04/15/2014 11:46	R80881
<b>SM 4500P-E OP -- Orthophosphate</b>							<b>SM4500_OP_W</b>
Orthophosphate (As PO4)	0.89		0.10	mg/L		2 04/09/2014 15:58	76535
<b>SM 5310B TOC -- Total Organic Carbon by combustion</b>							<b>SM5310B_TOC_W</b>
Organic Carbon, Total	270		10	mg/L		1 04/15/2014 8:53	76597

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-563-20140407-01

Lab ID: N0514-10

Project: Raytheon - Wayland

Collection Date: 04/07/14 10:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>EPA 300.0 Modified -- Volatile Organic Acids</b>							<b>E300_VOA_W</b>
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 20:20	76638
Acetic Acid	620		50	mg/L		10 04/18/2014 10:18	76638
Propionic Acid	5.5		5.0	mg/L		1 04/17/2014 20:20	76638
Butyric Acid	32		5.0	mg/L		1 04/17/2014 20:20	76638
<b>EPA 300.0 -- Anions by Ion Chromotography (LOW)</b>							<b>E300IC_W</b>
Chloride	29		2.0	mg/L		1 04/09/2014 18:09	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 18:09	76537
Sulfate	0.44	J	5.0	mg/L		1 04/09/2014 18:09	76537
<b>SM 2320B -- Alkalinity (Total)</b>							<b>SM2320_W</b>
Alkalinity, Total (As CaCO3)	59		20	mg/L CaCO3		1 04/11/2014 13:15	76576
<b>SM 4500 H+ B -- pH VALUE</b>							<b>SM4500_H+</b>
pH	6.0		1.0	S.U.		1 04/15/2014 11:47	R80881
<b>SM 4500P-E OP -- Orthophosphate</b>							<b>SM4500_OP_W</b>
Orthophosphate (As PO4)	ND		0.050	mg/L		1 04/09/2014 16:01	76535
<b>SM 5310B TOC -- Total Organic Carbon by combustion</b>							<b>SM5310B_TOC_W</b>
Organic Carbon, Total	270		10	mg/L		1 04/15/2014 9:13	76597

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-1-20140406-01

**Lab ID:** N0514-11

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 13:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>EPA 300.0 Modified -- Volatile Organic Acids</b>							<b>E300_VOA_W</b>
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 20:42	76638
Acetic Acid	12		5.0	mg/L		1 04/17/2014 20:42	76638
Propionic Acid	ND		5.0	mg/L		1 04/17/2014 20:42	76638
Butyric Acid	ND		5.0	mg/L		1 04/17/2014 20:42	76638
<b>EPA 300.0 -- Anions by Ion Chromotography (LOW)</b>							<b>E300IC_W</b>
Chloride	8.0		2.0	mg/L		1 04/09/2014 18:21	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 18:21	76537
Sulfate	4.3	J	5.0	mg/L		1 04/09/2014 18:21	76537
<b>SM 2320B -- Alkalinity (Total)</b>							<b>SM2320_W</b>
Alkalinity, Total (As CaCO3)	26		20	mg/L CaCO3		1 04/11/2014 13:15	76576
<b>SM 4500 H+ B -- pH VALUE</b>							<b>SM4500_H+</b>
pH	7.0		1.0	S.U.		1 04/15/2014 11:48	R80881
<b>SM 4500P-E OP -- Orthophosphate</b>							<b>SM4500_OP_W</b>
Orthophosphate (As PO4)	0.36		0.050	mg/L		1 04/09/2014 16:04	76535
<b>SM 5310B TOC -- Total Organic Carbon by combustion</b>							<b>SM5310B_TOC_W</b>
Organic Carbon, Total	52		10	mg/L		1 04/15/2014 9:33	76597

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-4-20140406-01

**Lab ID:** N0514-12

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 15:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>EPA 300.0 Modified -- Volatile Organic Acids</b>							<b>E300_VOA_W</b>
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 21:03	76638
Acetic Acid	ND		5.0	mg/L		1 04/17/2014 21:03	76638
Propionic Acid	ND		5.0	mg/L		1 04/17/2014 21:03	76638
Butyric Acid	ND		5.0	mg/L		1 04/17/2014 21:03	76638
<b>EPA 300.0 -- Anions by Ion Chromotography (LOW)</b>							<b>E300IC_W</b>
Chloride	5.1		2.0	mg/L		1 04/09/2014 18:33	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 18:33	76537
Sulfate	21		5.0	mg/L		1 04/09/2014 18:33	76537
<b>SM 2320B -- Alkalinity (Total)</b>							<b>SM2320_W</b>
Alkalinity, Total (As CaCO3)	ND		20	mg/L CaCO3		1 04/11/2014 13:15	76576
<b>SM 4500 H+ B -- pH VALUE</b>							<b>SM4500_H+</b>
pH	6.8		1.0	S.U.		1 04/15/2014 11:49	R80881
<b>SM 4500P-E OP -- Orthophosphate</b>							<b>SM4500_OP_W</b>
Orthophosphate (As PO4)	0.085		0.050	mg/L		1 04/09/2014 16:06	76535
<b>SM 5310B TOC -- Total Organic Carbon by combustion</b>							<b>SM5310B_TOC_W</b>
Organic Carbon, Total	22	B	10	mg/L		1 04/15/2014 12:36	76601

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit



**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-5-20140406-01

**Lab ID:** N0514-13

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 14:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>EPA 300.0 Modified -- Volatile Organic Acids</b>							<b>E300_VOA_W</b>
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 21:25	76638
Acetic Acid	15		5.0	mg/L		1 04/17/2014 21:25	76638
Propionic Acid	ND		5.0	mg/L		1 04/17/2014 21:25	76638
Butyric Acid	ND		5.0	mg/L		1 04/17/2014 21:25	76638
<b>EPA 300.0 -- Anions by Ion Chromotography (LOW)</b>							<b>E300IC_W</b>
Chloride	6.4		2.0	mg/L		1 04/09/2014 18:45	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 18:45	76537
Sulfate	6.3		5.0	mg/L		1 04/09/2014 18:45	76537
<b>SM 2320B -- Alkalinity (Total)</b>							<b>SM2320_W</b>
Alkalinity, Total (As CaCO3)	ND		20	mg/L CaCO3		1 04/11/2014 13:15	76576
<b>SM 4500 H+ B -- pH VALUE</b>							<b>SM4500_H+</b>
pH	6.7		1.0	S.U.		1 04/15/2014 11:50	R80881
<b>SM 4500P-E OP -- Orthophosphate</b>							<b>SM4500_OP_W</b>
Orthophosphate (As PO4)	0.50		0.050	mg/L		1 04/09/2014 16:09	76535
<b>SM 5310B TOC -- Total Organic Carbon by combustion</b>							<b>SM5310B_TOC_W</b>
Organic Carbon, Total	29	B	10	mg/L		1 04/15/2014 12:55	76601

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-6-20140406-01

**Lab ID:** N0514-14

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 9:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>EPA 300.0 Modified -- Volatile Organic Acids</b>							<b>E300_VOA_W</b>
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 21:46	76638
Acetic Acid	340		50	mg/L		10 04/18/2014 10:40	76638
Propionic Acid	2.0	J	5.0	mg/L		1 04/17/2014 21:46	76638
Butyric Acid	8.5		5.0	mg/L		1 04/17/2014 21:46	76638
<b>EPA 300.0 -- Anions by Ion Chromotography (LOW)</b>							<b>E300IC_W</b>
Chloride	37		2.0	mg/L		1 04/09/2014 18:56	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 18:56	76537
Sulfate	14		5.0	mg/L		1 04/09/2014 18:56	76537
<b>SM 2320B -- Alkalinity (Total)</b>							<b>SM2320_W</b>
Alkalinity, Total (As CaCO3)	34		20	mg/L CaCO3		1 04/11/2014 13:15	76576
<b>SM 4500 H+ B -- pH VALUE</b>							<b>SM4500_H+</b>
pH	6.3		1.0	S.U.		1 04/15/2014 11:51	R80881
<b>SM 4500P-E OP -- Orthophosphate</b>							<b>SM4500_OP_W</b>
Orthophosphate (As PO4)	0.45		0.050	mg/L		1 04/09/2014 16:11	76535
<b>SM 5310B TOC -- Total Organic Carbon by combustion</b>							<b>SM5310B_TOC_W</b>
Organic Carbon, Total	220	B	10	mg/L		1 04/15/2014 13:15	76601

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-7-20140406-01

Lab ID: N0514-15

Project: Raytheon - Wayland

Collection Date: 04/06/14 9:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>EPA 300.0 Modified -- Volatile Organic Acids</b>							<b>E300_VOA_W</b>
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 22:50	76638
Acetic Acid	110		10	mg/L		2 04/18/2014 11:01	76638
Propionic Acid	1.5	J	5.0	mg/L		1 04/17/2014 22:50	76638
Butyric Acid	0.60	J	5.0	mg/L		1 04/17/2014 22:50	76638
<b>EPA 300.0 -- Anions by Ion Chromotography (LOW)</b>							<b>E300IC_W</b>
Chloride	25		2.0	mg/L		1 04/09/2014 19:08	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 19:08	76537
Sulfate	10		5.0	mg/L		1 04/09/2014 19:08	76537
<b>SM 2320B -- Alkalinity (Total)</b>							<b>SM2320_W</b>
Alkalinity, Total (As CaCO3)	ND		20	mg/L CaCO3		1 04/11/2014 13:15	76576
<b>SM 4500 H+ B -- pH VALUE</b>							<b>SM4500_H+</b>
pH	6.5		1.0	S.U.		1 04/15/2014 11:53	R80881
<b>SM 4500P-E OP -- Orthophosphate</b>							<b>SM4500_OP_W</b>
Orthophosphate (As PO4)	0.10		0.050	mg/L		1 04/09/2014 16:14	76535
<b>SM 5310B TOC -- Total Organic Carbon by combustion</b>							<b>SM5310B_TOC_W</b>
Organic Carbon, Total	63	B	10	mg/L		1 04/15/2014 13:35	76601

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-8-20140406-01

**Lab ID:** N0514-16

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>EPA 300.0 Modified -- Volatile Organic Acids</b>							<b>E300_VOA_W</b>
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 23:12	76638
Acetic Acid	310		50	mg/L		10 04/18/2014 11:23	76638
Propionic Acid	4.5	J	5.0	mg/L		1 04/17/2014 23:12	76638
Butyric Acid	5.5		5.0	mg/L		1 04/17/2014 23:12	76638
<b>EPA 300.0 -- Anions by Ion Chromotography (LOW)</b>							<b>E300IC_W</b>
Chloride	24		2.0	mg/L		1 04/09/2014 19:20	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 19:20	76537
Sulfate	1.7	J	5.0	mg/L		1 04/09/2014 19:20	76537
<b>SM 2320B -- Alkalinity (Total)</b>							<b>SM2320_W</b>
Alkalinity, Total (As CaCO3)	49		20	mg/L CaCO3		1 04/11/2014 13:15	76576
<b>SM 4500 H+ B -- pH VALUE</b>							<b>SM4500_H+</b>
pH	6.5		1.0	S.U.		1 04/15/2014 11:54	R80881
<b>SM 4500P-E OP -- Orthophosphate</b>							<b>SM4500_OP_W</b>
Orthophosphate (As PO4)	0.18		0.050	mg/L		1 04/09/2014 16:17	76535
<b>SM 5310B TOC -- Total Organic Carbon by combustion</b>							<b>SM5310B_TOC_W</b>
Organic Carbon, Total	150	B	10	mg/L		1 04/15/2014 13:54	76601

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-9-20140406-01

Lab ID: N0514-17

Project: Raytheon - Wayland

Collection Date: 04/06/14 11:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>EPA 300.0 Modified -- Volatile Organic Acids</b>							<b>E300_VOA_W</b>
Lactic Acid	ND		5.0	mg/L		1 04/17/2014 23:33	76638
Acetic Acid	340		50	mg/L		10 04/18/2014 11:44	76638
Propionic Acid	3.1	J	5.0	mg/L		1 04/17/2014 23:33	76638
Butyric Acid	8.2		5.0	mg/L		1 04/17/2014 23:33	76638
<b>EPA 300.0 -- Anions by Ion Chromotography (LOW)</b>							<b>E300IC_W</b>
Chloride	27		2.0	mg/L		1 04/09/2014 19:32	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/09/2014 19:32	76537
Sulfate	13		5.0	mg/L		1 04/09/2014 19:32	76537
<b>SM 2320B -- Alkalinity (Total)</b>							<b>SM2320_W</b>
Alkalinity, Total (As CaCO3)	33		20	mg/L CaCO3		1 04/11/2014 13:15	76576
<b>SM 4500 H+ B -- pH VALUE</b>							<b>SM4500_H+</b>
pH	6.4		1.0	S.U.		1 04/15/2014 11:55	R80881
<b>SM 4500P-E OP -- Orthophosphate</b>							<b>SM4500_OP_W</b>
Orthophosphate (As PO4)	0.16		0.050	mg/L		1 04/09/2014 16:19	76535
<b>SM 5310B TOC -- Total Organic Carbon by combustion</b>							<b>SM5310B_TOC_W</b>
Organic Carbon, Total	180	B	10	mg/L		1 04/15/2014 14:14	76601

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-10-20140406-01

**Lab ID:** N0514-18

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 12:25

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
<b>EPA 300.0 Modified -- Volatile Organic Acids</b>				<b>E300_VOA_W</b>
Lactic Acid	ND	5.0 mg/L	1 04/17/2014 23:55	76638
Acetic Acid	1.3 J	5.0 mg/L	1 04/17/2014 23:55	76638
Propionic Acid	ND	5.0 mg/L	1 04/17/2014 23:55	76638
Butyric Acid	ND	5.0 mg/L	1 04/17/2014 23:55	76638
<b>EPA 300.0 -- Anions by Ion Chromotography (LOW)</b>				<b>E300IC_W</b>
Chloride	2.0 J	2.0 mg/L	1 04/09/2014 19:43	76537
Nitrogen, Nitrate (As N)	1.5	0.13 mg/L	1 04/09/2014 19:43	76537
Sulfate	13	5.0 mg/L	1 04/09/2014 19:43	76537
<b>SM 2320B -- Alkalinity (Total)</b>				<b>SM2320_W</b>
Alkalinity, Total (As CaCO3)	ND	20 mg/L CaCO3	1 04/11/2014 13:15	76576
<b>SM 4500 H+ B -- pH VALUE</b>				<b>SM4500_H+</b>
pH	6.3	1.0 S.U.	1 04/15/2014 11:56	R80881
<b>SM 4500P-E OP -- Orthophosphate</b>				<b>SM4500_OP_W</b>
Orthophosphate (As PO4)	ND	0.050 mg/L	1 04/09/2014 16:22	76535
<b>SM 5310B TOC -- Total Organic Carbon by combustion</b>				<b>SM5310B_TOC_W</b>
Organic Carbon, Total	6.6 BJ	10 mg/L	1 04/15/2014 14:34	76601

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-11-20140406-01

**Lab ID:** N0514-19

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 8:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>EPA 300.0 Modified -- Volatile Organic Acids</b>							<b>E300_VOA_W</b>
Lactic Acid	ND		5.0	mg/L		1 04/18/2014 0:16	76638
Acetic Acid	48		5.0	mg/L		1 04/18/2014 0:16	76638
Propionic Acid	ND		5.0	mg/L		1 04/18/2014 0:16	76638
Butyric Acid	ND		5.0	mg/L		1 04/18/2014 0:16	76638
<b>EPA 300.0 -- Anions by Ion Chromotography (LOW)</b>							<b>E300IC_W</b>
Chloride	22		2.0	mg/L		1 04/10/2014 8:16	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/10/2014 8:16	76537
Sulfate	34		5.0	mg/L		1 04/10/2014 8:16	76537
<b>SM 2320B -- Alkalinity (Total)</b>							<b>SM2320_W</b>
Alkalinity, Total (As CaCO3)	ND		20	mg/L CaCO3		1 04/11/2014 13:15	76576
<b>SM 4500 H+ B -- pH VALUE</b>							<b>SM4500_H+</b>
pH	6.5		1.0	S.U.		1 04/15/2014 11:57	R80881
<b>SM 4500P-E OP -- Orthophosphate</b>							<b>SM4500_OP_W</b>
Orthophosphate (As PO4)	0.055		0.050	mg/L		1 04/09/2014 16:24	76535
<b>SM 5310B TOC -- Total Organic Carbon by combustion</b>							<b>SM5310B_TOC_W</b>
Organic Carbon, Total	35	B	10	mg/L		1 04/15/2014 14:53	76601

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit

**Client:** Innovative Engineering Solutions, Inc.

**Client Sample ID:** REW-12-20140406-01

**Lab ID:** N0514-20

**Project:** Raytheon - Wayland

**Collection Date:** 04/06/14 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
<b>EPA 300.0 Modified -- Volatile Organic Acids</b>							<b>E300_VOA_W</b>
Lactic Acid	ND		5.0	mg/L		1 04/18/2014 0:38	76638
Acetic Acid	93		5.0	mg/L		1 04/18/2014 0:38	76638
Propionic Acid	1.1	J	5.0	mg/L		1 04/18/2014 0:38	76638
Butyric Acid	1.1	J	5.0	mg/L		1 04/18/2014 0:38	76638
<b>EPA 300.0 -- Anions by Ion Chromotography (LOW)</b>							<b>E300IC_W</b>
Chloride	34		2.0	mg/L		1 04/10/2014 8:44	76537
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 04/10/2014 8:44	76537
Sulfate	30		5.0	mg/L		1 04/10/2014 8:44	76537
<b>SM 2320B -- Alkalinity (Total)</b>							<b>SM2320_W</b>
Alkalinity, Total (As CaCO3)	ND		20	mg/L CaCO3		1 04/11/2014 14:00	76576
<b>SM 4500 H+ B -- pH VALUE</b>							<b>SM4500_H+</b>
pH	6.6		1.0	S.U.		1 04/15/2014 11:58	R80881
<b>SM 4500P-E OP -- Orthophosphate</b>							<b>SM4500_OP_W</b>
Orthophosphate (As PO4)	ND		0.050	mg/L		1 04/09/2014 16:27	76535
<b>SM 5310B TOC -- Total Organic Carbon by combustion</b>							<b>SM5310B_TOC_W</b>
Organic Carbon, Total	55	B	10	mg/L		1 04/15/2014 15:13	76601

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 RL - Reporting Limit



**ANALYTICAL QC SUMMARY REPORT**

Client: Innovative Engineering Solutions, Inc.

Work Order: N0514

E300\_VOA\_W

Project: Raytheon - Wayland

EPA 300.0 Modified -- Volatile Organic Acids

Sample ID: MB-76638	SampType: MBLK	TestCode: E300_VOA_W	Prep Date: 04/17/14 8:00	Run ID: IC1_140417A			
Client ID: MB-76638	Batch ID: 76638	Units: mg/L	Analysis Date: 04/17/14 14:58	SeqNo: 2072078			
Analyte	Result	MDL	SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val	%RPD RPDLimit	Qual

Lactic Acid	ND	2.2	5.0	5.0	0	89.9	75	125	0
Acetic Acid	ND	0.35	5.0	5.0	0	96.7	75	125	0
Propionic Acid	ND	0.50	5.0	5.0	0	94.4	75	125	0
Butyric Acid	ND	0.45	5.0	5.0	0	93.3	75	125	0

Sample ID: LCS-76638	SampType: LCS	TestCode: E300_VOA_W	Prep Date: 04/17/14 8:00	Run ID: IC1_140417A			
Client ID: LCS-76638	Batch ID: 76638	Units: mg/L	Analysis Date: 04/17/14 15:20	SeqNo: 2072079			
Analyte	Result	MDL	SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val	%RPD RPDLimit	Qual

Lactic Acid	44.95	2.2	5.0	5.0	0	96.9	75	125	0
Acetic Acid	48.35	0.35	5.0	5.0	0	96.7	75	125	0
Propionic Acid	47.19	0.50	5.0	5.0	0	94.4	75	125	0
Butyric Acid	46.65	0.45	5.0	5.0	0	93.3	75	125	0

Sample ID: N0514-01BMS	SampType: MS	TestCode: E300_VOA_W	Prep Date: 04/17/14 8:00	Run ID: IC1_140417A			
Client ID: MW-261S-20140408-	Batch ID: 76638	Units: mg/L	Analysis Date: 04/17/14 16:03	SeqNo: 2072081			
Analyte	Result	MDL	SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val	%RPD RPDLimit	Qual

Lactic Acid	48.45	2.2	5.0	5.0	0	96.9	75	125	0
Propionic Acid	52.93	0.50	5.0	5.0	5.437	95.0	75	125	0
Butyric Acid	55.86	0.45	5.0	5.0	8.475	94.8	75	125	0

Sample ID: N0514-01BMS	SampType: MS	TestCode: E300_VOA_W	Prep Date: 04/17/14 8:00	Run ID: IC1_140417A			
Client ID: MW-261S-20140408-	Batch ID: 76638	Units: mg/L	Analysis Date: 04/18/14 1:21	SeqNo: 2072098			
Analyte	Result	MDL	SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val	%RPD RPDLimit	Qual

Acetic Acid	299.0	1.8	25	25	255.7	86.6	75	125	0		
Lactic Acid	47.86	2.2	5.0	5.0	0	95.7	75	125	48.45	1.22	25
Propionic Acid	52.60	0.50	5.0	5.0	5.437	94.3	75	125	52.93	0.629	25
Butyric Acid	56.20	0.45	5.0	5.0	8.475	95.4	75	125	55.86	0.598	25

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

# ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N0514

E300\_VOA\_W

Project: Raytheon - Wayland

EPA 300.0 Modified -- Volatile Organic Acids

Sample ID: <b>N0514-01BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>E300_VOA_W</b>	Prep Date: <b>04/17/14 8:00</b>	Run ID: <b>IC1_140417A</b>						
Client ID: <b>MW-261S-20140408-</b>	Batch ID: <b>76638</b>	Units: <b>mg/L</b>	Analysis Date: <b>04/18/14 1:42</b>	SeqNo: <b>2072099</b>						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetic Acid	298.2	1.8	255.7	84.9	75	125	299.0	0.284	25	25

Qualifiers: ND - Not Detected at the MDL      S - Recovery outside accepted recovery limits      MDL - Method Detection Limit      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      RL - Reporting Limit

**CLIENT:** Innovative Engineering Solutions, Inc.  
**Work Order:** N0514  
**Project:** Raytheon - Wayland

# ANALYTICAL QC SUMMARY REPORT

**E300IC\_W**  
**EPA 300.0 -- Anions by Ion Chromotography (LOW)**

Sample ID: MB-76537	SampType: MBLK	TestCode: E300IC_W	Prep Date: 04/09/14 13:55	Run ID: IC1_140409A							
Client ID: MB-76537	Batch ID: 76537	Units: mg/L	Analysis Date: 04/09/14 15:49	SeqNo: 2069423							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.28					2.0				
Nitrogen, Nitrate (As N)	ND	0.083					0.13				
Sulfate	ND	0.15					5.0				

Sample ID: LCS-76537	SampType: LCS	TestCode: E300IC_W	Prep Date: 04/09/14 13:55	Run ID: IC1_140409A							
Client ID: LCS-76537	Batch ID: 76537	Units: mg/L	Analysis Date: 04/09/14 14:15	SeqNo: 2069415							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	15.97	0.28	16.00	0	99.8	90	11.0	0			
Nitrogen, Nitrate (As N)	0.9981	0.083	1.000	0	99.8	90	11.0	0			
Sulfate	40.26	0.15	40.00	0	101	90	11.0	0			

Sample ID: N0514-20EMS	SampType: MS	TestCode: E300IC_W	Prep Date: 04/09/14 13:55	Run ID: IC1_140410A							
Client ID: REW-12-20140406-0	Batch ID: 76537	Units: mg/L	Analysis Date: 04/10/14 8:56	SeqNo: 2069622							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	49.24	0.28	16.00	34.09	94.7	80	12.0	0			
Nitrogen, Nitrate (As N)	0.9741	0.083	1.000	0	97.4	80	12.0	0			
Sulfate	70.44	0.15	40.00	30.42	100	80	12.0	0			

Sample ID: N0514-20EMSD	SampType: MSD	TestCode: E300IC_W	Prep Date: 04/09/14 13:55	Run ID: IC1_140410A							
Client ID: REW-12-20140406-0	Batch ID: 76537	Units: mg/L	Analysis Date: 04/10/14 9:08	SeqNo: 2069623							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	49.52	0.28	16.00	34.09	96.5	80	12.0	49.24	0.571	20	
Nitrogen, Nitrate (As N)	0.9770	0.083	1.000	0	97.7	80	12.0	0.9741	0.293	20	
Sulfate	71.36	0.15	40.00	30.42	102	80	12.0	70.44	1.31	20	

**Qualifiers:** ND - Not Detected at the MDL      S - Recovery outside accepted recovery limits      MDL - Method Detection Limit      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      RL - Reporting Limit

# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Innovative Engineering Solutions, Inc.  
**Work Order:** N0514  
**Project:** Raytheon - Wayland

**SM2320\_W**  
**SM 2320B -- Alkalinity (Total)**

Sample ID: <b>MB-76576</b>	SampType: <b>MBLK</b>	TestCode: <b>SM2320_W</b>	Prep Date: <b>04/11/14 13:15</b>	Run ID: <b>MANUAL_140411A</b>	
Client ID: <b>MB-76576</b>	Batch ID: <b>76576</b>	Units: <b>mg/L CaCO3</b>	Analysis Date: <b>04/11/14 13:15</b>	SeqNo: <b>2071169</b>	
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit HighLimit
Alkalinity, Total (As CaCO3)	ND	20	0	95.0	80 120
			SPK value	%RPD	RPDLimit
			100.0	0	0

Sample ID: <b>LCS-76576</b>	SampType: <b>LCS</b>	TestCode: <b>SM2320_W</b>	Prep Date: <b>04/11/14 13:15</b>	Run ID: <b>MANUAL_140411A</b>	
Client ID: <b>LCS-76576</b>	Batch ID: <b>76576</b>	Units: <b>mg/L CaCO3</b>	Analysis Date: <b>04/11/14 13:15</b>	SeqNo: <b>2071170</b>	
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit HighLimit
Alkalinity, Total (As CaCO3)	95.00	20	0	95.0	80 120
			SPK value	%RPD	RPDLimit
			100.0	0	0

Sample ID: <b>LCSD-76576</b>	SampType: <b>LCSD</b>	TestCode: <b>SM2320_W</b>	Prep Date: <b>04/11/14 13:15</b>	Run ID: <b>MANUAL_140411A</b>	
Client ID: <b>LCSD-76576</b>	Batch ID: <b>76576</b>	Units: <b>mg/L CaCO3</b>	Analysis Date: <b>04/11/14 13:15</b>	SeqNo: <b>2071171</b>	
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit HighLimit
Alkalinity, Total (As CaCO3)	96.00	20	0	96.0	80 120
			SPK value	%RPD	RPDLimit
			100.0	0	1.05 20

**Qualifiers:** ND - Not Detected at the MDL      S - Recovery outside accepted recovery limits      MDL - Method Detection Limit      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      RL - Reporting Limit

# ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N0514

SM4500\_OP\_W

Project: Raytheon - Wayland

SM 4500P-E OP -- Orthophosphate

Sample ID: MB-76535	SampType: MBLK	TestCode: SM4500_OP_W	Prep Date: 04/09/14 15:30	Run ID: SPEC2_140409A
Client ID: MB-76535	Batch ID: 76535	Units: mg/L	Analysis Date: 04/09/14 15:30	SeqNo: 2069517
Analyte	Result	MDL	SPK Ref Val	%REC
	ND	0.050	0	1.06
			SPK value	LowLimit
			0.4128	80
				HighLimit
				120
			RPD Ref Val	%RPD
			0	0
				RPDLimit
				2.0

Sample ID: LCS-76535	SampType: LCS	TestCode: SM4500_OP_W	Prep Date: 04/09/14 15:30	Run ID: SPEC2_140409A
Client ID: LCS-76535	Batch ID: 76535	Units: mg/L	Analysis Date: 04/09/14 15:32	SeqNo: 2069518
Analyte	Result	MDL	SPK Ref Val	%REC
	0.4380	0.050	0	1.06
			SPK value	LowLimit
			0.4128	80
				HighLimit
				120
			RPD Ref Val	%RPD
			0	0
				RPDLimit
				2.0

Sample ID: LCSD-76535	SampType: LCSD	TestCode: SM4500_OP_W	Prep Date: 04/09/14 15:30	Run ID: SPEC2_140409A
Client ID: LCSD-76535	Batch ID: 76535	Units: mg/L	Analysis Date: 04/09/14 15:35	SeqNo: 2069519
Analyte	Result	MDL	SPK Ref Val	%REC
	0.4350	0.050	0	1.05
			SPK value	LowLimit
			0.4128	80
				HighLimit
				120
			RPD Ref Val	%RPD
			0	0.4380
				0.687
				2.0

Qualifiers: ND - Not Detected at the MDL      S - Recovery outside accepted recovery limits      MDL - Method Detection Limit      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      RL - Reporting Limit

**CLIENT:** Innovative Engineering Solutions, Inc.  
**Work Order:** N0514  
**Project:** Raytheon - Wayland

# ANALYTICAL QC SUMMARY REPORT

**SM5310B\_TOC\_W**  
**SM 5310B TOC -- Total Organic Carbon by combustion**

Sample ID: <b>MB-76597</b>	SampType: <b>MBLK</b>	TestCode: <b>SM5310B_TOC_W</b>	Prep Date: <b>04/14/14 11:01</b>	Run ID: <b>TOC1_140414A</b>
Client ID: <b>MB-76597</b>	Batch ID: <b>76597</b>	Units: <b>mg/L</b>	Analysis Date: <b>04/14/14 16:07</b>	SeqNo: <b>2070839</b>
Analyte	Result	MDL	SPK value	SPK Ref Val
	ND	2.0	%REC LowLimit HighLimit	RPD Ref Val
Organic Carbon, Total				%RPD RPDLimit
				Qual

Sample ID: <b>MB-76601</b>	SampType: <b>MBLK</b>	TestCode: <b>SM5310B_TOC_W</b>	Prep Date: <b>04/14/14 13:59</b>	Run ID: <b>TOC1_140414A</b>
Client ID: <b>MB-76601</b>	Batch ID: <b>76601</b>	Units: <b>mg/L</b>	Analysis Date: <b>04/15/14 9:53</b>	SeqNo: <b>2070880</b>
Analyte	Result	MDL	SPK value	SPK Ref Val
	2.698	2.0	%REC LowLimit HighLimit	RPD Ref Val
Organic Carbon, Total				%RPD RPDLimit
				Qual

Sample ID: <b>LCS-76597</b>	SampType: <b>LCS</b>	TestCode: <b>SM5310B_TOC_W</b>	Prep Date: <b>04/14/14 11:01</b>	Run ID: <b>TOC1_140414A</b>
Client ID: <b>LCS-76597</b>	Batch ID: <b>76597</b>	Units: <b>mg/L</b>	Analysis Date: <b>04/14/14 16:29</b>	SeqNo: <b>2070840</b>
Analyte	Result	MDL	SPK value	SPK Ref Val
	63.59	2.0	106	0
Organic Carbon, Total			80	120
				0

Sample ID: <b>LCS-76601</b>	SampType: <b>LCS</b>	TestCode: <b>SM5310B_TOC_W</b>	Prep Date: <b>04/14/14 13:59</b>	Run ID: <b>TOC1_140414A</b>
Client ID: <b>LCS-76601</b>	Batch ID: <b>76601</b>	Units: <b>mg/L</b>	Analysis Date: <b>04/15/14 10:12</b>	SeqNo: <b>2070861</b>
Analyte	Result	MDL	SPK value	SPK Ref Val
	48.83	2.0	81.4	0
Organic Carbon, Total			80	120
				0

Sample ID: <b>LCSD-76601</b>	SampType: <b>LCSD</b>	TestCode: <b>SM5310B_TOC_W</b>	Prep Date: <b>04/14/14 13:59</b>	Run ID: <b>TOC1_140414A</b>
Client ID: <b>LCSD-76601</b>	Batch ID: <b>76601</b>	Units: <b>mg/L</b>	Analysis Date: <b>04/15/14 10:31</b>	SeqNo: <b>2070862</b>
Analyte	Result	MDL	SPK value	SPK Ref Val
	51.88	2.0	86.5	0
Organic Carbon, Total			80	120
				48.83

Sample ID: <b>LCSD-76601</b>	SampType: <b>LCSD</b>	TestCode: <b>SM5310B_TOC_W</b>	Prep Date: <b>04/14/14 13:59</b>	Run ID: <b>TOC1_140414A</b>
Client ID: <b>LCSD-76601</b>	Batch ID: <b>76601</b>	Units: <b>mg/L</b>	Analysis Date: <b>04/15/14 10:31</b>	SeqNo: <b>2070862</b>
Analyte	Result	MDL	SPK value	SPK Ref Val
	51.88	2.0	86.5	0
Organic Carbon, Total			80	120
				48.83

**Qualifiers:** ND - Not Detected at the MDL      S - Recovery outside accepted recovery limits      MDL - Method Detection Limit      B - Analyte detected in the associated Method Blank  
 J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      RL - Reporting Limit

Report Date:  
21-Apr-14 14:54



- Final Report
- Re-Issued Report
- Revised Report

**SPECTRUM ANALYTICAL, INC.**  
*Featuring*  
**HANIBAL TECHNOLOGY**  
***Laboratory Report***

Spectrum Analytical, Inc.  
646 Camp Ave.  
North Kingstown, RI 02852  
Attn: Agnes Huntley

Project: Raytheon-Wayland  
Project #: N0514

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB87849-01	MW-261S-20140408-01	Aqueous	08-Apr-14 07:20	17-Apr-14 18:25
SB87849-02	MW-265M-20140408-01	Aqueous	08-Apr-14 08:45	17-Apr-14 18:25
SB87849-03	MW-268S-20140407-01	Aqueous	07-Apr-14 08:45	17-Apr-14 18:25
SB87849-04	MW-268M-20140407-01	Aqueous	07-Apr-14 09:25	17-Apr-14 18:25
SB87849-05	MW-552-20140407-01	Aqueous	07-Apr-14 15:25	17-Apr-14 18:25
SB87849-06	MW-553-20140407-01	Aqueous	07-Apr-14 14:30	17-Apr-14 18:25
SB87849-07	MW-560-20140407-01	Aqueous	07-Apr-14 11:10	17-Apr-14 18:25
SB87849-08	MW-561-20140407-01	Aqueous	07-Apr-14 12:00	17-Apr-14 18:25
SB87849-09	MW-562-20140407-01	Aqueous	07-Apr-14 13:30	17-Apr-14 18:25
SB87849-10	MW-563-20140407-01	Aqueous	07-Apr-14 10:20	17-Apr-14 18:25
SB87849-11	REW-1-20140406-01	Aqueous	06-Apr-14 13:45	17-Apr-14 18:25
SB87849-12	REW-4-20140406-01	Aqueous	06-Apr-14 15:20	17-Apr-14 18:25
SB87849-13	REW-5-20140406-01	Aqueous	06-Apr-14 14:30	17-Apr-14 18:25
SB87849-14	REW-6-20140406-01	Aqueous	06-Apr-14 09:05	17-Apr-14 18:25
SB87849-15	REW-7-20140406-01	Aqueous	06-Apr-14 09:35	17-Apr-14 18:25
SB87849-16	REW-8-20140406-01	Aqueous	06-Apr-14 10:45	17-Apr-14 18:25
SB87849-17	REW-9-20140406-01	Aqueous	06-Apr-14 11:40	17-Apr-14 18:25
SB87849-18	REW-10-20140406-01	Aqueous	06-Apr-14 12:25	17-Apr-14 18:25
SB87849-19	REW-11-20140406-01	Aqueous	06-Apr-14 08:15	17-Apr-14 18:25
SB87849-20	REW-12-20140406-01	Aqueous	06-Apr-14 13:10	17-Apr-14 18:25

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110  
Connecticut # PH-0777  
Florida # E87600/E87936  
Maine # MA138  
New Hampshire # 2538  
New Jersey # MA011/MA012  
New York # 11393/11840  
Pennsylvania # 68-04426/68-02924  
Rhode Island # 98  
USDA # S-51435



Authorized by:

A handwritten signature in black ink that reads "Nicole Leja".

Nicole Leja  
Laboratory Director

Spectrum Analytical holds certification in the State of Massachusetts for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of Massachusetts does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 10 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

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*Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.*



**CASE NARRATIVE:**

Data has been reported to the RDL. This report excludes estimated concentrations detected below the RDL and above the MDL (J-Flag).

The samples were received -0.2 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

**There is no relevant protocol-specific QC and/or performance standards non-conformances to report.**

## Sample Acceptance Check Form

Client: Spectrum Analytical, Inc. - North Kingstown, RI  
 Project: Raytheon-Wayland / N0514  
 Work Order: SB87849  
 Sample(s) received on: 4/17/2014  
 Received by: Mary Wilson

*The following outlines the condition of samples for the attached Chain of Custody upon receipt.*

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
1. Were custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Were custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Were samples received at a temperature of $\leq 6^{\circ}\text{C}$ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Were samples cooled on ice upon transfer to laboratory representative?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Were samples refrigerated upon transfer to laboratory representative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
MW-261S-20140408-01 SB87849-01	N0514	Aqueous	08-Apr-14 07:20	17-Apr-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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**General Chemistry Parameters**

Ammonia as N	< 0.200			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
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<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
MW-265M-20140408-01 SB87849-02	N0514	Aqueous	08-Apr-14 08:45	17-Apr-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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**General Chemistry Parameters**

Ammonia as N	<b>0.490</b>			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
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<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
MW-268S-20140407-01 SB87849-03	N0514	Aqueous	07-Apr-14 08:45	17-Apr-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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**General Chemistry Parameters**

Ammonia as N	< 0.200			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
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<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
MW-268M-20140407-01 SB87849-04	N0514	Aqueous	07-Apr-14 09:25	17-Apr-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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**General Chemistry Parameters**

Ammonia as N	< 0.200			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
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<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
MW-552-20140407-01 SB87849-05	N0514	Aqueous	07-Apr-14 15:25	17-Apr-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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**General Chemistry Parameters**

Ammonia as N	<b>0.210</b>			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
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<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
MW-553-20140407-01 SB87849-06	N0514	Aqueous	07-Apr-14 14:30	17-Apr-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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**General Chemistry Parameters**

Ammonia as N	< 0.200			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
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<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
MW-560-20140407-01 SB87849-07	N0514	Aqueous	07-Apr-14 11:10	17-Apr-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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**General Chemistry Parameters**

Ammonia as N	<b>0.280</b>			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
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<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
MW-561-20140407-01 SB87849-08	N0514	Aqueous	07-Apr-14 12:00	17-Apr-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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**General Chemistry Parameters**

Ammonia as N	<b>0.560</b>			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
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<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
MW-562-20140407-01 SB87849-09	N0514	Aqueous	07-Apr-14 13:30	17-Apr-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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**General Chemistry Parameters**

Ammonia as N	<b>2.17</b>			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
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<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
MW-563-20140407-01 SB87849-10	N0514	Aqueous	07-Apr-14 10:20	17-Apr-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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**General Chemistry Parameters**

Ammonia as N	< 0.200			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
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<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
REW-1-20140406-01 SB87849-11	N0514	Aqueous	06-Apr-14 13:45	17-Apr-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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**General Chemistry Parameters**

Ammonia as N	<b>0.490</b>			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
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<u>Sample Identification</u>	<u>Client Project #</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Received</u>
REW-4-20140406-01 SB87849-12	N0514	Aqueous	06-Apr-14 15:20	17-Apr-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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**General Chemistry Parameters**

Ammonia as N	<b>0.630</b>			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
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Sample Identification  
**REW-5-20140406-01**  
SB87849-13

Client Project #  
N0514

Matrix  
Aqueous

Collection Date/Time  
06-Apr-14 14:30

Received  
17-Apr-14

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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**General Chemistry Parameters**

Ammonia as N	< 0.200			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
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Sample Identification  
**REW-6-20140406-01**  
SB87849-14

Client Project #  
N0514

Matrix  
Aqueous

Collection Date/Time  
06-Apr-14 09:05

Received  
17-Apr-14

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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**General Chemistry Parameters**

Ammonia as N	< 0.200			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
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Sample Identification  
**REW-7-20140406-01**  
SB87849-15

Client Project #  
N0514

Matrix  
Aqueous

Collection Date/Time  
06-Apr-14 09:35

Received  
17-Apr-14

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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**General Chemistry Parameters**

Ammonia as N	< 0.200			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
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Sample Identification  
**REW-8-20140406-01**  
SB87849-16

Client Project #  
N0514

Matrix  
Aqueous

Collection Date/Time  
06-Apr-14 10:45

Received  
17-Apr-14

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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**General Chemistry Parameters**

Ammonia as N	<b>0.420</b>			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
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Sample Identification  
**REW-9-20140406-01**  
SB87849-17

Client Project #  
N0514

Matrix  
Aqueous

Collection Date/Time  
06-Apr-14 11:40

Received  
17-Apr-14

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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**General Chemistry Parameters**

Ammonia as N	<b>0.210</b>			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
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Sample Identification  
**REW-10-20140406-01**  
SB87849-18

Client Project #  
N0514

Matrix  
Aqueous

Collection Date/Time  
06-Apr-14 12:25

Received  
17-Apr-14

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
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**General Chemistry Parameters**

Ammonia as N	< 0.200			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
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Sample Identification  
**REW-11-20140406-01**  
SB87849-19

Client Project #  
N0514

Matrix  
Aqueous

Collection Date/Time  
06-Apr-14 08:15

Received  
17-Apr-14

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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**General Chemistry Parameters**

Ammonia as N	< 0.200			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
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Sample Identification  
**REW-12-20140406-01**  
SB87849-20

Client Project #  
N0514

Matrix  
Aqueous

Collection Date/Time  
06-Apr-14 13:10

Received  
17-Apr-14

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
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**General Chemistry Parameters**

Ammonia as N	< 0.200			mg/l	0.200	0.118	1	SM4500-NH3 C.	21-Apr-14	21-Apr-14	EEM	1408590	X
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**General Chemistry Parameters - Quality Control**

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch 1408590 - General Preparation</b>										
<u>Blank (1408590-BLK1)</u>					<u>Prepared &amp; Analyzed: 21-Apr-14</u>					
Ammonia as N	< 0.200		mg/l	0.200						
<u>LCS (1408590-BS1)</u>					<u>Prepared &amp; Analyzed: 21-Apr-14</u>					
Ammonia as N	<b>5.32</b>		mg/l	0.200	5.00		106	90-110		
<u>Reference (1408590-SRM1)</u>					<u>Prepared &amp; Analyzed: 21-Apr-14</u>					
Ammonia as N	<b>1.82</b>		mg/l	0.200	1.92		95	84-116		

## Notes and Definitions

dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:







# CHAIN-OF-CUSTODY RECORD

SB87849 OK

WorkOrder : N0514

Project : Raytheon - Wayland

Report Type : LEVEL 2

Due Date : 4/21/2014

FAX Due Date :

Report To : Agnes R Huntley

Purchase Order : N0514

EDD Types : **Please generate a Little PEL EDD**

Requested Test

**Subcontractor:**  
Spectrum Analytical, Inc. - Agawam, MA  
11 Almgren Drive  
Agawam, Massachusetts 01001  
Phone: (413) 789-9018

EQUIFacilityCode: N/A

# = number of containers

SM4500 NH3 W

Client Sample ID	Collection Date	#	Matrix	DUP/M/MS/MSD	Mitkem Sample ID													
MMW-560-20140407-01	04/07/2014 11:10	1	Aqueous		N0514-07G	X												
MMW-561-20140407-01	04/07/2014 12:00	1	Aqueous		N0514-08G	X												81849-07
MMW-562-20140407-01	04/07/2014 13:30	1	Aqueous		N0514-09G	X												08
MMW-563-20140407-01	04/07/2014 10:20	1	Aqueous		N0514-10G	X												09
REW-1-20140406-01	04/06/2014 13:45	1	Aqueous		N0514-11G	X												10
REW-4-20140406-01	04/06/2014 15:20	1	Aqueous		N0514-12G	X												11

1) SM4500\_NH3\_W, NITROGEN (AMMONIA)

Use 'Client Sample ID's' when reporting data. If needed, truncate 'Client Sample ID's' to fit on reports. Use full 'Client Sample ID' when generating EDD.

**Comments:** MA Site, MCP/CAM reporting.

Relinquished by: *Agnes R Huntley*  
Reinquished by: *Agnes R Huntley*

Date/Time: 04/11/14 8:46

Received by: *Agnes R Huntley*

Date/Time: 4/17/14 18:00

04/11/2014 Page 2 of 4

*02/1/021R 02*

*4-17-14*

646 Camp Ave \* North Kingstown \* RI \* 028524008 \* 401-732-3400 \* 401-732-3499  
www.spectrum-analytical.com





**CHAIN-OF-CUSTODY RECORD**

SB87849-UC

WorkOrder : N0514

Project: Raytheon - Wayland

Report Type : LEVEL 2

Due Date : 4/21/2014

FAX Due Date :

Report To : Agnes R Huntley

Purchase Order : N0514

EDD Types : **Please generate a Little PEL EDD**

Requested Test

**Subcontractor:**  
Spectrum Analytical, Inc. - Agawam, MA  
11 Almgren Drive  
Agawam, Massachusetts 01001  
Phone: (413) 789-9018

EQUISFacilityCode: N/A

# = number of containers

Client Sample ID	Collection Date	#	Matrix	DUP/MS/MSD	Mikem Sample ID	SM4500_NH3_W																
REW-11-20140406-01	04/06/2014 08:15	1	Aqueous		N0514-19G	X																
REW-12-20140406-01	04/06/2014 13:10	1	Aqueous		N0514-20G	X																

87849-19  
30

1) SM4500\_NH3\_W, NITROGEN (AMMONIA)

Use 'Client Sample ID's' when reporting data. If needed, truncate 'Client Sample ID's' to fit on reports. Use full 'Client Sample ID' when generating EDD.

**Comments:** MA Site, MCP/CAM reporting.

Relinquished by: *Agnes R Huntley*  
*Boo Henry*

Date/Time  
04/11/14 8:46

Received by: *Boo Henry*  
*MB*

Date/Time  
4/17/14 18:05

Page 4 of 4

*QAL IR 03*  
*4-17-14*

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0514

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI\_WAYLAND,

Comments: N/A

Case:

HC Due: 04/21/14

Report Level: LEVEL 2

SDG:

Fax Due:

Special Program:

Fax Report:

EDD: CLF

PO: RA-008

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0514-01A	MW-261S-20140408-01	04/08/2014 07:20	04/09/2014	Aqueous	RSK175	/					VOA
N0514-01B	MW-261S-20140408-01	04/08/2014 07:20	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-01C	MW-261S-20140408-01	04/08/2014 07:20	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-01D	MW-261S-20140408-01	04/08/2014 07:20	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-01E	MW-261S-20140408-01	04/08/2014 07:20	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-01E	MW-261S-20140408-01	04/08/2014 07:20	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-01E	MW-261S-20140408-01	04/08/2014 07:20	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-01F	MW-261S-20140408-01	04/08/2014 07:20	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-01G	MW-261S-20140408-01	04/08/2014 07:20	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-02A	MW-265M-20140408-01	04/08/2014 08:45	04/09/2014	Aqueous	RSK175	/					VOA
N0514-02B	MW-265M-20140408-01	04/08/2014 08:45	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-02C	MW-265M-20140408-01	04/08/2014 08:45	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-02D	MW-265M-20140408-01	04/08/2014 08:45	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-02E	MW-265M-20140408-01	04/08/2014 08:45	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-02E	MW-265M-20140408-01	04/08/2014 08:45	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-02E	MW-265M-20140408-01	04/08/2014 08:45	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-02F	MW-265M-20140408-01	04/08/2014 08:45	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-02G	MW-265M-20140408-01	04/08/2014 08:45	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-03A	MW-268S-20140407-01	04/07/2014 08:45	04/09/2014	Aqueous	RSK175	/					VOA

HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0514

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI\_WAYLAND,

Comments: N/A

Case:

HC Due: 04/21/14

Report Level: LEVEL 2

SDG:

Fax Due:

Special Program:

Fax Report:

EDD: CLF

PO: RA-008

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0514-03B	MW-268S-20140407-01	04/07/2014 08:45	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-03C	MW-268S-20140407-01	04/07/2014 08:45	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-03D	MW-268S-20140407-01	04/07/2014 08:45	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-03E	MW-268S-20140407-01	04/07/2014 08:45	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-03E	MW-268S-20140407-01	04/07/2014 08:45	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-03E	MW-268S-20140407-01	04/07/2014 08:45	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-03F	MW-268S-20140407-01	04/07/2014 08:45	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-03G	MW-268S-20140407-01	04/07/2014 08:45	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-04A	MW-268M-20140407-01	04/07/2014 09:25	04/09/2014	Aqueous	RSK175	/					VOA
N0514-04B	MW-268M-20140407-01	04/07/2014 09:25	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-04C	MW-268M-20140407-01	04/07/2014 09:25	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-04D	MW-268M-20140407-01	04/07/2014 09:25	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-04E	MW-268M-20140407-01	04/07/2014 09:25	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-04E	MW-268M-20140407-01	04/07/2014 09:25	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-04E	MW-268M-20140407-01	04/07/2014 09:25	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-04F	MW-268M-20140407-01	04/07/2014 09:25	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-04G	MW-268M-20140407-01	04/07/2014 09:25	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-05A	MW-552-20140407-01	04/07/2014 15:25	04/09/2014	Aqueous	RSK175	/					VOA
N0514-05B	MW-552-20140407-01	04/07/2014 15:25	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2

HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0514

Client ID: IESI

Project: Raytheon - Wayland  
 WO Name: Raytheon - Wayland  
 Location: IESI\_WAYLAND,

Case: HC Due: 04/21/14  
 SDG: Fax Due: Special Program: EDD: CLF

Fax Report:  Report Level: LEVEL 2

PO: RA-008

Comments: N/A

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0514-05C	MW-552-20140407-01	04/07/2014 15:25	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-05D	MW-552-20140407-01	04/07/2014 15:25	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-05E	MW-552-20140407-01	04/07/2014 15:25	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-05E	MW-552-20140407-01	04/07/2014 15:25	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-05E	MW-552-20140407-01	04/07/2014 15:25	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-05F	MW-552-20140407-01	04/07/2014 15:25	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-05G	MW-552-20140407-01	04/07/2014 15:25	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-06A	MW-553-20140407-01	04/07/2014 14:30	04/09/2014	Aqueous	RSK175	/					VOA
N0514-06B	MW-553-20140407-01	04/07/2014 14:30	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-06C	MW-553-20140407-01	04/07/2014 14:30	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-06D	MW-553-20140407-01	04/07/2014 14:30	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-06E	MW-553-20140407-01	04/07/2014 14:30	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-06E	MW-553-20140407-01	04/07/2014 14:30	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-06E	MW-553-20140407-01	04/07/2014 14:30	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-06F	MW-553-20140407-01	04/07/2014 14:30	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-06G	MW-553-20140407-01	04/07/2014 14:30	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-07A	MW-560-20140407-01	04/07/2014 11:10	04/09/2014	Aqueous	RSK175	/					VOA
N0514-07B	MW-560-20140407-01	04/07/2014 11:10	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-07C	MW-560-20140407-01	04/07/2014 11:10	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22

HT = Fraction logged in but all tests have been placed on hold

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# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0514

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI\_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-008

HC Due: 04/21/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0514-07D	MW-560-20140407-01	04/07/2014 11:10	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-07E	MW-560-20140407-01	04/07/2014 11:10	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-07E	MW-560-20140407-01	04/07/2014 11:10	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-07E	MW-560-20140407-01	04/07/2014 11:10	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-07F	MW-560-20140407-01	04/07/2014 11:10	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-07G	MW-560-20140407-01	04/07/2014 11:10	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-08A	MW-561-20140407-01	04/07/2014 12:00	04/09/2014	Aqueous	RSK175	/					VOA
N0514-08B	MW-561-20140407-01	04/07/2014 12:00	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-08C	MW-561-20140407-01	04/07/2014 12:00	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-08D	MW-561-20140407-01	04/07/2014 12:00	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-08E	MW-561-20140407-01	04/07/2014 12:00	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-08E	MW-561-20140407-01	04/07/2014 12:00	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-08E	MW-561-20140407-01	04/07/2014 12:00	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-08F	MW-561-20140407-01	04/07/2014 12:00	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-08G	MW-561-20140407-01	04/07/2014 12:00	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-09A	MW-562-20140407-01	04/07/2014 13:30	04/09/2014	Aqueous	RSK175	/					VOA
N0514-09B	MW-562-20140407-01	04/07/2014 13:30	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-09C	MW-562-20140407-01	04/07/2014 13:30	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-09D	MW-562-20140407-01	04/07/2014 13:30	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6

HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold



# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0514

Client ID: IESI

Project: Raytheon - Wayland  
 WO Name: Raytheon - Wayland  
 Location: IESI\_WAYLAND,  
 Comments: N/A

Case:  
 SDG:

PO: RA-008

HC Due: 04/21/14

Report Level: LEVEL 2

Fax Due:   
 Fax Report:

Special Program:  
 EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0514-09E	MW-562-20140407-01	04/07/2014 13:30	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-09E	MW-562-20140407-01	04/07/2014 13:30	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-09E	MW-562-20140407-01	04/07/2014 13:30	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-09F	MW-562-20140407-01	04/07/2014 13:30	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-09G	MW-562-20140407-01	04/07/2014 13:30	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-10A	MW-563-20140407-01	04/07/2014 10:20	04/09/2014	Aqueous	RSK175	/					VOA
N0514-10B	MW-563-20140407-01	04/07/2014 10:20	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-10C	MW-563-20140407-01	04/07/2014 10:20	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-10D	MW-563-20140407-01	04/07/2014 10:20	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-10E	MW-563-20140407-01	04/07/2014 10:20	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-10E	MW-563-20140407-01	04/07/2014 10:20	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-10E	MW-563-20140407-01	04/07/2014 10:20	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-10F	MW-563-20140407-01	04/07/2014 10:20	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-10G	MW-563-20140407-01	04/07/2014 10:20	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-11A	REW-1-20140406-01	04/06/2014 13:45	04/09/2014	Aqueous	RSK175	/					VOA
N0514-11B	REW-1-20140406-01	04/06/2014 13:45	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-11C	REW-1-20140406-01	04/06/2014 13:45	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-11D	REW-1-20140406-01	04/06/2014 13:45	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-11E	REW-1-20140406-01	04/06/2014 13:45	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2

HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0514

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI\_WAYLAND,

Comments: N/A

Case:

HC Due: 04/21/14

Report Level: LEVEL 2

SDG:

Fax Due:

Special Program:

Fax Report:

EDD: CLF

PO: RA-008

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0514-11E	REW-1-20140406-01	04/06/2014 13:45	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-11E	REW-1-20140406-01	04/06/2014 13:45	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-11F	REW-1-20140406-01	04/06/2014 13:45	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-11G	REW-1-20140406-01	04/06/2014 13:45	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-12A	REW-4-20140406-01	04/06/2014 15:20	04/09/2014	Aqueous	RSK175	/					VOA
N0514-12B	REW-4-20140406-01	04/06/2014 15:20	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-12C	REW-4-20140406-01	04/06/2014 15:20	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-12D	REW-4-20140406-01	04/06/2014 15:20	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-12E	REW-4-20140406-01	04/06/2014 15:20	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-12E	REW-4-20140406-01	04/06/2014 15:20	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-12E	REW-4-20140406-01	04/06/2014 15:20	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-12F	REW-4-20140406-01	04/06/2014 15:20	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-12G	REW-4-20140406-01	04/06/2014 15:20	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-13A	REW-5-20140406-01	04/06/2014 14:30	04/09/2014	Aqueous	RSK175	/					VOA
N0514-13B	REW-5-20140406-01	04/06/2014 14:30	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-13C	REW-5-20140406-01	04/06/2014 14:30	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-13D	REW-5-20140406-01	04/06/2014 14:30	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-13E	REW-5-20140406-01	04/06/2014 14:30	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-13E	REW-5-20140406-01	04/06/2014 14:30	04/09/2014	Aqueous	SM2320_W	/					E2

HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0514

Client ID: IESI

Project: Raytheon - Wayland  
 WO Name: Raytheon - Wayland  
 Location: IESI\_WAYLAND,  
 Comments: N/A

Case:  
 SDG:

HC Due: 04/21/14

Report Level: LEVEL 2

Fax Due:   
 Fax Report:

Special Program:  
 EDD: CLF

PO: RA-008

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0514-13E	REW-5-20140406-01	04/06/2014 14:30	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-13F	REW-5-20140406-01	04/06/2014 14:30	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-13G	REW-5-20140406-01	04/06/2014 14:30	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-14A	REW-6-20140406-01	04/06/2014 09:05	04/09/2014	Aqueous	RSK175	/					VOA
N0514-14B	REW-6-20140406-01	04/06/2014 09:05	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-14C	REW-6-20140406-01	04/06/2014 09:05	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-14D	REW-6-20140406-01	04/06/2014 09:05	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-14E	REW-6-20140406-01	04/06/2014 09:05	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-14E	REW-6-20140406-01	04/06/2014 09:05	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-14E	REW-6-20140406-01	04/06/2014 09:05	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-14F	REW-6-20140406-01	04/06/2014 09:05	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-14G	REW-6-20140406-01	04/06/2014 09:05	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-15A	REW-7-20140406-01	04/06/2014 09:35	04/09/2014	Aqueous	RSK175	/					VOA
N0514-15B	REW-7-20140406-01	04/06/2014 09:35	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-15C	REW-7-20140406-01	04/06/2014 09:35	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-15D	REW-7-20140406-01	04/06/2014 09:35	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-15E	REW-7-20140406-01	04/06/2014 09:35	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-15E	REW-7-20140406-01	04/06/2014 09:35	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-15E	REW-7-20140406-01	04/06/2014 09:35	04/09/2014	Aqueous	SM4500_H+	/					E2

HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0514

Client ID: IESI

Project: Raytheon - Wayland  
 WO Name: Raytheon - Wayland  
 Location: IESI\_WAYLAND,  
 Comments: N/A

Case:  
 SDG:

HC Due: 04/21/14

Report Level: LEVEL 2

Fax Due:   
 Fax Report:

Special Program:

EDD: CLF

PO: RA-008

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0514-15F	REW-7-20140406-01	04/06/2014 09:35	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-15G	REW-7-20140406-01	04/06/2014 09:35	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-16A	REW-8-20140406-01	04/06/2014 10:45	04/09/2014	Aqueous	RSK175	/					VOA
N0514-16B	REW-8-20140406-01	04/06/2014 10:45	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-16C	REW-8-20140406-01	04/06/2014 10:45	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-16D	REW-8-20140406-01	04/06/2014 10:45	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-16E	REW-8-20140406-01	04/06/2014 10:45	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-16E	REW-8-20140406-01	04/06/2014 10:45	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-16E	REW-8-20140406-01	04/06/2014 10:45	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-16F	REW-8-20140406-01	04/06/2014 10:45	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-16G	REW-8-20140406-01	04/06/2014 10:45	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-17A	REW-9-20140406-01	04/06/2014 11:40	04/09/2014	Aqueous	RSK175	/					VOA
N0514-17B	REW-9-20140406-01	04/06/2014 11:40	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-17C	REW-9-20140406-01	04/06/2014 11:40	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-17D	REW-9-20140406-01	04/06/2014 11:40	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-17E	REW-9-20140406-01	04/06/2014 11:40	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-17E	REW-9-20140406-01	04/06/2014 11:40	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-17E	REW-9-20140406-01	04/06/2014 11:40	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-17F	REW-9-20140406-01	04/06/2014 11:40	04/09/2014	Aqueous	SM4500_OP_W	/					E2

15F = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0514

Client ID: IESI

Project: Raytheon - Wayland  
 WO Name: Raytheon - Wayland  
 Location: IESI\_WAYLAND,

Case:

HC Due: 04/21/14

Report Level: LEVEL 2

Comments: N/A

SDG:

Fax Report:

Special Program:

PO: RA-008

Fax Report:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0514-17G	REW-9-20140406-01	04/06/2014 11:40	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-18A	REW-10-20140406-01	04/06/2014 12:25	04/09/2014	Aqueous	RSK175	ONLY 1 VIAL USE CAUTION /					VOA
N0514-18B	REW-10-20140406-01	04/06/2014 12:25	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-18C	REW-10-20140406-01	04/06/2014 12:25	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-18D	REW-10-20140406-01	04/06/2014 12:25	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-18E	REW-10-20140406-01	04/06/2014 12:25	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-18E	REW-10-20140406-01	04/06/2014 12:25	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-18E	REW-10-20140406-01	04/06/2014 12:25	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-18F	REW-10-20140406-01	04/06/2014 12:25	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-18G	REW-10-20140406-01	04/06/2014 12:25	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-19A	REW-11-20140406-01	04/06/2014 08:15	04/09/2014	Aqueous	RSK175	/					VOA
N0514-19B	REW-11-20140406-01	04/06/2014 08:15	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-19C	REW-11-20140406-01	04/06/2014 08:15	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-19D	REW-11-20140406-01	04/06/2014 08:15	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-19E	REW-11-20140406-01	04/06/2014 08:15	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-19E	REW-11-20140406-01	04/06/2014 08:15	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-19E	REW-11-20140406-01	04/06/2014 08:15	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-19F	REW-11-20140406-01	04/06/2014 08:15	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-19G	REW-11-20140406-01	04/06/2014 08:15	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB

HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

# Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N0514

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI\_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-008

HC Due: 04/21/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

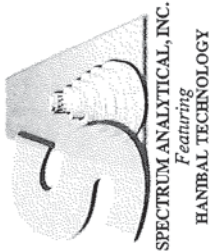
Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N0514-20A	REW-12-20140406-01	04/06/2014 13:10	04/09/2014	Aqueous	RSK175	/					VOA
N0514-20B	REW-12-20140406-01	04/06/2014 13:10	04/09/2014	Aqueous	E300_VOA_W	/				Y	E2
N0514-20C	REW-12-20140406-01	04/06/2014 13:10	04/09/2014	Aqueous	SM5310B_TOC_W	/					R22
N0514-20D	REW-12-20140406-01	04/06/2014 13:10	04/09/2014	Aqueous	SW6010_W	/ Fe only				Y	M6
N0514-20E	REW-12-20140406-01	04/06/2014 13:10	04/09/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	E2
N0514-20E	REW-12-20140406-01	04/06/2014 13:10	04/09/2014	Aqueous	SM2320_W	/					E2
N0514-20E	REW-12-20140406-01	04/06/2014 13:10	04/09/2014	Aqueous	SM4500_H+	/					E2
N0514-20F	REW-12-20140406-01	04/06/2014 13:10	04/09/2014	Aqueous	SM4500_OP_W	/					E2
N0514-20G	REW-12-20140406-01	04/06/2014 13:10	04/09/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N0514-21A	TRIP BLANK	04/08/2014 00:00	04/09/2014	Aqueous	RSK175	/					VOA

HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold



# CHAIN OF CUSTODY RECORD

11 Almgren Drive  
 8405 Benjamin Road, Ste A  
 Agawam, MA 01001  
 Tampa, FL 33634  
 (413) 789-9018 (813) 888-9507

Special Handling:

TAT- Indicate Date Needed: \_\_\_\_\_  
 All TATs subject to laboratory approval.  
 Min. 24-hour notification needed for rushes.  
 Samples disposed of after 60 days unless otherwise instructed.

Report To: Innovative Engineering Solutions Inc  
25 Spring St  
Woburn MA 01801  
 Telephone #: 508-688-0033  
 Project Mgr: Vicki Peavner

Invoice To: SEWER  
 Project No.: RA-008  
 Site Name: Reynolds Wastwater  
 Location: Woburn State: MA  
 Sampler(s): Danny Smith

P.O. No.: RA-008 RQN: \_\_\_\_\_

1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid 7=CH<sub>3</sub>OH  
 8= NaHSO<sub>4</sub> 9= Deionized Water 10=H<sub>3</sub>PO<sub>4</sub> 11= NO<sub>2</sub> 12= \_\_\_\_\_  
 DW=Drinking Water GW=Groundwater WW=Wastewater  
 O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air  
 X1= \_\_\_\_\_ X2= \_\_\_\_\_ X3= \_\_\_\_\_

List preservative code below:

3 3 4 10 2 11 11

QA/QC Reporting Notes:

QA/QC Reporting Level

- Level I  Level II  
 Level III  Level IV  
 Other SW-1

State-specific reporting standards: \_\_\_\_\_

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Containers:
N0514-01	MW-3612-30140408-01	41 8 114	0730	C	SW	6	6	6	6	OH, Nitric Acid, Dissolving Caps
-02	MW-3637-30140408-01	41 8 114	0845	C	SW	6	6	6	6	
-03	MW-3682-30140407-01	41 7 114	0845	C	SW	6	6	6	6	
-04	MW-3683-30140407-01	41 7 114	0925	C	SW	6	6	6	6	
-05	MW-552-30140407-01	41 7 114	1525	C	SW	6	6	6	6	
-06	MW-553-30140407-01	41 7 114	1430	C	SW	6	6	6	6	
-07	MW-560-30140407-01	41 7 114	1110	C	SW	6	6	6	6	
-08	MW-561-30140407-01	41 7 114	1300	C	SW	6	6	6	6	
-09	MW-562-30140407-01	41 7 114	1330	C	SW	6	6	6	6	
-10	MW-563-30140407-01	41 7 114	1030	C	SW	6	6	6	6	

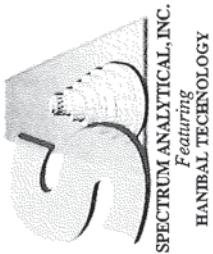
Relinquished by: [Signature] Received by: [Signature]  
 Date: 4/8/14 Time: 11:3  
Sub Out Fridge  
4/8/14 11:20  
4/16/14 13:00  
 Temperature: 3.5C

1.0/0.16/R01  
AME 04-08-14

EDD Format

E-mail to v.peavner@innovative.com

Condition upon receipt:  Ambient  Ambient  Ambient  Ambient  
 Custody Seals:  Present  Present  Present  Present  
 Refrigerated  Refrigerated  Refrigerated  Refrigerated  
 Broken  Broken  Broken  Broken  
 Soil Jar Frozen  Soil Jar Frozen  Soil Jar Frozen  Soil Jar Frozen



# CHAIN OF CUSTODY RECORD

11 Almgren Drive  
 8405 Benjamin Road, Ste A  
 Agawam, MA 01001  
 Tampa, FL 33634  
 (413) 789-9018  
 (813) 888-9507

## Special Handling:

TAT- Indicate Date Needed: \_\_\_\_\_  
 All TATs subject to laboratory approval.  
 Min. 24-hour notification needed for rushes.  
 Samples disposed of after 60 days unless  
 otherwise instructed.

646 Camp Avenue  
 N Kingstown, RI 02852  
 (401) 732-3400

Report To: Innovative Engineering Solutions Inc  
25 Spring St  
Worcester MA 02081  
 Telephone #: 508-668-0033  
 Project Mgr: Vicki Poirier  
 Invoice To: SEM  
 Project No.: RA-008  
 Site Name: Raytheon W. Cape  
 Location: W. Cape State: MA  
 P.O. No.: RA-008 RQN: \_\_\_\_\_  
 Sampler(s): Danny Josias

1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid 7=CH<sub>3</sub>OH  
 8= NaHSO<sub>4</sub> 9= Deionized Water 10=H<sub>3</sub>PO<sub>4</sub> 11= NONE 12= \_\_\_\_\_  
 DW=Drinking Water GW=Groundwater WW=Wastewater  
 O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air  
 X1= \_\_\_\_\_ X2= \_\_\_\_\_ X3= \_\_\_\_\_  
 Containers: \_\_\_\_\_  
 # of Amber Glass \_\_\_\_\_  
 # of Clear Glass \_\_\_\_\_  
 # of Plastic \_\_\_\_\_  
 Matrix \_\_\_\_\_  
 Type \_\_\_\_\_

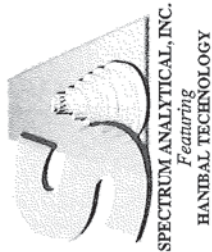
List preservative code below:  
 3 3 4 10 2 11 11  
 Analyses:  
 Metal \_\_\_\_\_  
 TOC \_\_\_\_\_  
 Dissolved Gases \_\_\_\_\_  
 Acids \_\_\_\_\_  
 PH/Ammonia/Alkalinity \_\_\_\_\_  
 QA/QC Reporting Notes:  
 QA/QC Reporting Level  
 Level I  Level II  
 Level III  Level IV  
 Other SW-1  
 State-specific reporting standards: \_\_\_\_\_

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Temp °C	Time:	Date:	Received by:	Relinquished by:
11	RA-008-1-20140406-01	4/16/14	1345	S	SW	6			4		11:15	4/18/14	[Signature]	[Signature]
12	RA-008-4-20140406-01	4/16/14	1530	C	SW	6			4		16:20	04/08/14	Sub out FRIDGE	[Signature]
13	RA-008-5-20140406-01	4/16/14	1430	C	SW	6			4		13:00	04/09/14	[Signature]	[Signature]
14	RA-008-6-20140406-01	4/16/14	0905	C	SW	6			4					
15	RA-008-7-20140406-01	4/16/14	0935	C	SW	6			4					
16	RA-008-8-20140406-01	4/16/14	1045	C	SW	6			4					
17	RA-008-9-20140406-01	4/16/14	1140	C	SW	6			4					
18	RA-008-10-20140406-01	4/16/14	1325	C	SW	6			4					
19	RA-008-11-20140406-01	4/16/14	0815	C	SW	6			4					
20	RA-008-12-20140406-01	4/16/14	1310	C	SW	6			4					

1/6/0/1.6/RO  
 JUNE 01-08-14

EDD Format  
 E-mail to APPLY@ESSELINE.COM  
 Condition upon receipt:  Ambient  Refrigerated  DIVOAF Frozen  Intact  Broken  Soiled Jar Frozen  
 Revised Feb 2013





# CHAIN OF CUSTODY RECORD

11 Almgren Drive  
Agawam, MA 01001  
(413) 789-9018

8405 Benjamin Road, Ste A  
Tampa, FL 33634  
(813) 888-9507

646 Camp Avenue  
N Kingstown, RI 02852  
(401) 732-3400

## Special Handling:

TAT- Ind icate Date Needed: \_\_\_\_\_  
 All TATs subject to laboratory approval.  
 Min. 24-hour notification needed for rushes.  
 Samples disposed of after 60 days unless otherwise instructed.

Report To: Innovative Environmental Solutions, Inc.  
25 Soles St  
Westerly, MA 02081  
 Telephone #: 508-668-0033  
 Project Mgr: Vicki P. [Signature]

Invoice To: S&M

Project No.: RA-008 RQN: \_\_\_\_\_  
 Site Name: Rancho - Weyland State: MA  
 Location: Weyland  
 Sampler(s): Dave Jones

1=Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 2=HCl 3=H<sub>2</sub>SO<sub>4</sub> 4=HNO<sub>3</sub> 5=NaOH 6=Ascorbic Acid 7=CH<sub>3</sub>OH  
 8= NaHSO<sub>4</sub> 9= Deionized Water 10=H<sub>3</sub>PO<sub>4</sub> 11= \_\_\_\_\_ 12= \_\_\_\_\_

DW=Drinking Water GW=Groundwater WW=Wastewater  
 O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air  
 X1= \_\_\_\_\_ X2= \_\_\_\_\_ X3= \_\_\_\_\_

List preservative code below:  
2

Containers: \_\_\_\_\_

Analyses: \_\_\_\_\_

QA/QC Reporting Notes: \_\_\_\_\_

QA/QC Reporting Level  
 Level I  Level II  
 Level III  Level IV  
 Other Env-1

State-specific reporting standards: \_\_\_\_\_

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix			Date:	Time:	Temp°C
					# of VOA Vials	# of Amber Glass	# of Clear Glass			
N0514-21	Trip Blank				02			4/8/14	11:15	
								04-08-14	11:20	
								04-08-14	11:21	
								04/08/14	13:00	25°C

Relinquished by: [Signature] Received by: [Signature]

[Signature] [Signature]

[Signature] Subout FRIDGE

[Signature] [Signature]

EDD Format \_\_\_\_\_  
 E-mail to \_\_\_\_\_

Condition upon receipt:  Ambient  Fridge  Refrigerated  DVOA Frozen  Intact  Broken  Soil Jar Frozen

1.0/0.1.0 IR 01  
 DATE 04-08-14

Received By: <b>VEB</b>	Page 01 of 01
Reviewed By: <b>KP</b>	Log-in Date 04/09/2014
Work Order: N0514	Client Name: Innovative Engineering Solutions, Inc.

Project Name/Event: Raytheon - Wayland

Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.

	Lab Sample ID	Preservation (pH)					VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
		HNO3	H2SO4	HCl	NaOH	H3PO4		
1. Custody Seal(s) Present / Absent	N0514-01	<2	<2				H	
Intact / Broken	N0514-02	<2	<2				H	
2. Custody Seal Nos. N/A	N0514-03	<2	<2				H	
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists Present / Absent	N0514-04	<2	<2				H	
	N0514-05	<2	<2				H	
	N0514-06	<2	<2				H	
	N0514-07	<2	<2				H	
4. Airbill AirBill / Sticker Present / Absent	N0514-08	<2	<2				H	
	N0514-09	<2	<2				H	
5. Airbill No. Courier N/A	N0514-10	<2	<2				H	
	N0514-11	<2	<2				H	
6. Sample Tags Present / Absent Sample Tag Numbers Listed / Not Listed on Chain-of-Custody	N0514-12	<2	<2				H	
	N0514-13	<2	<2				H	
	N0514-14	<2	<2				H	
	N0514-15	<2	<2				H	
	N0514-16	<2	<2				H	
7. Sample Condition Intact / Broken / Leaking	N0514-17	<2	<2				H	
	N0514-18	<2	<2				H	
	N0514-19	<2	<2				H	
8. Cooler Temperature Indicator Bottle Present / Absent	N0514-20	<2	<2				H	
	N0514-21						H	

9. Cooler Temperature 2.5 °C

10. Does information on TR/COCs and sample tags agree? Yes / No

11. Date Received at Laboratory 04/09/2014

12. Time Received 13:00

Sample Transfer

Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area #	Area #
By	By
On	On

IR Temp Gun ID: MT-74  
Coolant Condition: ICE

Preservative Name/Lot No:

VOA Matrix Key:  
 US = Unpreserved Soil      A = Air  
 UA = Unpreserved Aqueous    H = HCl  
 M = MeOH                      E = Encore  
 N = NaHSO4                    F = Freeze

See Sample Condition Notification/Corrective Action Form Yes / No

Rad OK Yes / No

## **Last Page of Data Report**

# 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: 480-58121-1  
Client Project/Site: IDS Wayland

For:  
ERM-Northeast  
One Beacon Steet  
5th Floor  
Boston, Massachusetts 02108

Attn: Lyndsey Colburn



Authorized for release by:  
4/23/2014 9:20:25 AM  
Rich Emerich, Analyst V  
[rich.emerich@testamericainc.com](mailto:rich.emerich@testamericainc.com)  
Designee for  
Becky Mason, Project Manager II  
(413)572-4000  
[becky.mason@testamericainc.com](mailto:becky.mason@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://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.*

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## Definitions/Glossary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

### 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
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)

# Case Narrative

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

---

**Job ID: 480-58121-1**

---

**Laboratory: TestAmerica Buffalo**

---

**Narrative**

---

**Receipt**

The samples were received on 4/17/2014 at 3:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

**GC/MS VOA**

No analytical or quality issues were noted, other than those described 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.

**Organic Prep**

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

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# Detection Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

**Client Sample ID: MW-1023-20140414-01**

**Lab Sample ID: 480-58121-1**

No Detections.

**Client Sample ID: MW-1034-20140414-01**

**Lab Sample ID: 480-58121-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.32		0.20		ug/L	1		522 MOD	Total/NA

**Client Sample ID: MW-1033-20140414-01**

**Lab Sample ID: 480-58121-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.49		0.20		ug/L	1		522 MOD	Total/NA

**Client Sample ID: MW-1025M-20140414-01**

**Lab Sample ID: 480-58121-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.2		0.20		ug/L	1		522 MOD	Total/NA

**Client Sample ID: MW-1025D-20140414-01**

**Lab Sample ID: 480-58121-5**

No Detections.

**Client Sample ID: MW-1020-20140414-01**

**Lab Sample ID: 480-58121-6**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.53		0.20		ug/L	1		522 MOD	Total/NA

**Client Sample ID: MW-1011-20140414-01**

**Lab Sample ID: 480-58121-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.22		0.20		ug/L	1		522 MOD	Total/NA

**Client Sample ID: MW-1022-20140414-01**

**Lab Sample ID: 480-58121-8**

No Detections.

**Client Sample ID: MW-1024D-20140414-01**

**Lab Sample ID: 480-58121-9**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.24		0.20		ug/L	1		522 MOD	Total/NA

**Client Sample ID: TRIP BLANK-20140414-01**

**Lab Sample ID: 480-58121-10**

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo



# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

**Client Sample ID: MW-1023-20140414-01**

**Lab Sample ID: 480-58121-1**

Date Collected: 04/14/14 10:55

Matrix: Water

Date Received: 04/17/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/18/14 15:12	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
TBA-d9 (Surr)	97		50 - 150					04/18/14 15:12	1
Dibromofluoromethane (Surr)	90		50 - 150					04/18/14 15:12	1

**Method: 522 MOD - 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		04/22/14 08:51	04/22/14 12:43	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,4-Dioxane-d8 (Surr)	94		70 - 130				04/22/14 08:51	04/22/14 12:43	1

**Client Sample ID: MW-1034-20140414-01**

**Lab Sample ID: 480-58121-2**

Date Collected: 04/14/14 11:20

Matrix: Water

Date Received: 04/17/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/18/14 15:36	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
TBA-d9 (Surr)	87		50 - 150					04/18/14 15:36	1
Dibromofluoromethane (Surr)	89		50 - 150					04/18/14 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.32		0.20		ug/L		04/22/14 08:51	04/22/14 12:59	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,4-Dioxane-d8 (Surr)	95		70 - 130				04/22/14 08:51	04/22/14 12:59	1

**Client Sample ID: MW-1033-20140414-01**

**Lab Sample ID: 480-58121-3**

Date Collected: 04/14/14 11:35

Matrix: Water

Date Received: 04/17/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/18/14 16:00	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
TBA-d9 (Surr)	85		50 - 150					04/18/14 16:00	1
Dibromofluoromethane (Surr)	89		50 - 150					04/18/14 16:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.49		0.20		ug/L		04/22/14 08:51	04/22/14 13:16	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,4-Dioxane-d8 (Surr)	91		70 - 130				04/22/14 08:51	04/22/14 13:16	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

**Client Sample ID: MW-1025M-20140414-01**

**Lab Sample ID: 480-58121-4**

Date Collected: 04/14/14 10:30

Matrix: Water

Date Received: 04/17/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/18/14 16:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	120		50 - 150					04/18/14 16:23	1
Dibromofluoromethane (Surr)	91		50 - 150					04/18/14 16:23	1

**Method: 522 MOD - 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		04/22/14 08:51	04/22/14 13:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	96		70 - 130				04/22/14 08:51	04/22/14 13:32	1

**Client Sample ID: MW-1025D-20140414-01**

**Lab Sample ID: 480-58121-5**

Date Collected: 04/14/14 10:25

Matrix: Water

Date Received: 04/17/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/18/14 16:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	104		50 - 150					04/18/14 16:47	1
Dibromofluoromethane (Surr)	89		50 - 150					04/18/14 16:47	1

**Method: 522 MOD - 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		04/22/14 08:51	04/22/14 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	93		70 - 130				04/22/14 08:51	04/22/14 13:49	1

**Client Sample ID: MW-1020-20140414-01**

**Lab Sample ID: 480-58121-6**

Date Collected: 04/14/14 10:10

Matrix: Water

Date Received: 04/17/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/18/14 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	85		50 - 150					04/18/14 17:10	1
Dibromofluoromethane (Surr)	90		50 - 150					04/18/14 17:10	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.53		0.20		ug/L		04/22/14 08:51	04/22/14 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	92		70 - 130				04/22/14 08:51	04/22/14 14:05	1

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# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

**Client Sample ID: MW-1011-20140414-01**

**Lab Sample ID: 480-58121-7**

Date Collected: 04/14/14 10:00

Matrix: Water

Date Received: 04/17/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/18/14 17:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	77		50 - 150					04/18/14 17:34	1
Dibromofluoromethane (Surr)	90		50 - 150					04/18/14 17:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.22		0.20		ug/L		04/22/14 08:51	04/22/14 14:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	97		70 - 130				04/22/14 08:51	04/22/14 14:22	1

**Client Sample ID: MW-1022-20140414-01**

**Lab Sample ID: 480-58121-8**

Date Collected: 04/14/14 11:10

Matrix: Water

Date Received: 04/17/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/18/14 17:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	85		50 - 150					04/18/14 17:58	1
Dibromofluoromethane (Surr)	90		50 - 150					04/18/14 17:58	1

**Method: 522 MOD - 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		04/22/14 08:51	04/22/14 14:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	104		70 - 130				04/22/14 08:51	04/22/14 14:38	1

**Client Sample ID: MW-1024D-20140414-01**

**Lab Sample ID: 480-58121-9**

Date Collected: 04/14/14 10:45

Matrix: Water

Date Received: 04/17/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/18/14 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	93		50 - 150					04/18/14 18:21	1
Dibromofluoromethane (Surr)	91		50 - 150					04/18/14 18:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.24		0.20		ug/L		04/22/14 08:51	04/22/14 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	89		70 - 130				04/22/14 08:51	04/22/14 14:55	1

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# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

**Client Sample ID: TRIP BLANK-20140414-01**

**Lab Sample ID: 480-58121-10**

Date Collected: 04/14/14 14:20

Matrix: Water

Date Received: 04/17/14 03:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/18/14 18:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	92		50 - 150		04/18/14 18:45	1
Dibromofluoromethane (Surr)	88		50 - 150		04/18/14 18:45	1

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# Surrogate Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BA-d9 (Sur) (50-150)	DBFM (50-150)
480-58121-1	MW-1023-20140414-01	97	90
480-58121-2	MW-1034-20140414-01	87	89
480-58121-3	MW-1033-20140414-01	85	89
480-58121-4	MW-1025M-20140414-01	120	91
480-58121-5	MW-1025D-20140414-01	104	89
480-58121-6	MW-1020-20140414-01	85	90
480-58121-7	MW-1011-20140414-01	77	90
480-58121-8	MW-1022-20140414-01	85	90
480-58121-9	MW-1024D-20140414-01	93	91
480-58121-10	TRIP BLANK-20140414-01	92	88
LCS 480-176698/4	Lab Control Sample	86	96
LCSD 480-176698/5	Lab Control Sample Dup	90	96
MB 480-176698/6	Method Blank	85	88

**Surrogate Legend**  
TBA-d9 (Surr) = TBA-d9 (Surr)  
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		14DD8 (70-130)
480-58121-1	MW-1023-20140414-01	94
480-58121-2	MW-1034-20140414-01	95
480-58121-3	MW-1033-20140414-01	91
480-58121-4	MW-1025M-20140414-01	96
480-58121-5	MW-1025D-20140414-01	93
480-58121-6	MW-1020-20140414-01	92
480-58121-7	MW-1011-20140414-01	97
480-58121-8	MW-1022-20140414-01	104
480-58121-9	MW-1024D-20140414-01	89
LCS 200-71040/2-A	Lab Control Sample	90
MB 200-71040/1-A	Method Blank	100

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

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

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

**Lab Sample ID: MB 480-176698/6**

**Matrix: Water**

**Analysis Batch: 176698**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		1.6		ug/L			04/18/14 10:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
TBA-d9 (Surr)	85		50 - 150		04/18/14 10:44	1
Dibromofluoromethane (Surr)	88		50 - 150		04/18/14 10:44	1

**Lab Sample ID: LCS 480-176698/4**

**Matrix: Water**

**Analysis Batch: 176698**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	16.0	16.3		ug/L		106	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
TBA-d9 (Surr)	86		50 - 150
Dibromofluoromethane (Surr)	96		50 - 150

**Lab Sample ID: LCSD 480-176698/5**

**Matrix: Water**

**Analysis Batch: 176698**

**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
1,4-Dioxane	16.0	19.4		ug/L		103	50 - 150	B	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
TBA-d9 (Surr)	90		50 - 150
Dibromofluoromethane (Surr)	96		50 - 150

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

**Lab Sample ID: MB 200-71040/1-A**

**Matrix: Water**

**Analysis Batch: 71059**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 71040**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/22/14 08:51	04/22/14 12:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	100		70 - 130	04/22/14 08:51	04/22/14 12:10	1

**Lab Sample ID: LCS 200-71040/2-A**

**Matrix: Water**

**Analysis Batch: 71059**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 71040**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.00	1.90		ug/L		85	90 - 180

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# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

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

Lab Sample ID: LCS 200-71040/2-A  
Matrix: Water  
Analysis Batch: 71059

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 71040

<i>Surrogate</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
1,4-Dioxane-d8 (Surr)	90		70 - 130

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# QC Association Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

## GC/MS VOA

### Analysis Batch: 176698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-58121-1	MW-1023-20140414-01	Total/NA	Water	8260C SIM	
480-58121-2	MW-1034-20140414-01	Total/NA	Water	8260C SIM	
480-58121-3	MW-1033-20140414-01	Total/NA	Water	8260C SIM	
480-58121-4	MW-1025M-20140414-01	Total/NA	Water	8260C SIM	
480-58121-5	MW-1025D-20140414-01	Total/NA	Water	8260C SIM	
480-58121-6	MW-1020-20140414-01	Total/NA	Water	8260C SIM	
480-58121-7	MW-1011-20140414-01	Total/NA	Water	8260C SIM	
480-58121-8	MW-1022-20140414-01	Total/NA	Water	8260C SIM	
480-58121-9	MW-1024D-20140414-01	Total/NA	Water	8260C SIM	
480-58121-10	TRIP BLANK-20140414-01	Total/NA	Water	8260C SIM	
LCS 480-176698/4	Lab Control Sample	Total/NA	Water	8260C SIM	
LCS 480-176698/5	Lab Control Sample Dup	Total/NA	Water	8260C SIM	
MB 480-176698/6	Method Blank	Total/NA	Water	8260C SIM	

## GC/MS Semi VOA

### Prep Batch: 71040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-58121-1	MW-1023-20140414-01	Total/NA	Water	3535A	
480-58121-2	MW-1034-20140414-01	Total/NA	Water	3535A	
480-58121-3	MW-1033-20140414-01	Total/NA	Water	3535A	
480-58121-4	MW-1025M-20140414-01	Total/NA	Water	3535A	
480-58121-5	MW-1025D-20140414-01	Total/NA	Water	3535A	
480-58121-6	MW-1020-20140414-01	Total/NA	Water	3535A	
480-58121-7	MW-1011-20140414-01	Total/NA	Water	3535A	
480-58121-8	MW-1022-20140414-01	Total/NA	Water	3535A	
480-58121-9	MW-1024D-20140414-01	Total/NA	Water	3535A	
LCS 200-71040/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-71040/1-A	Method Blank	Total/NA	Water	3535A	

### Analysis Batch: 71059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-58121-1	MW-1023-20140414-01	Total/NA	Water	522 MOD	71040
480-58121-2	MW-1034-20140414-01	Total/NA	Water	522 MOD	71040
480-58121-3	MW-1033-20140414-01	Total/NA	Water	522 MOD	71040
480-58121-4	MW-1025M-20140414-01	Total/NA	Water	522 MOD	71040
480-58121-5	MW-1025D-20140414-01	Total/NA	Water	522 MOD	71040
480-58121-6	MW-1020-20140414-01	Total/NA	Water	522 MOD	71040
480-58121-7	MW-1011-20140414-01	Total/NA	Water	522 MOD	71040
480-58121-8	MW-1022-20140414-01	Total/NA	Water	522 MOD	71040
480-58121-9	MW-1024D-20140414-01	Total/NA	Water	522 MOD	71040
LCS 200-71040/2-A	Lab Control Sample	Total/NA	Water	522 MOD	71040
MB 200-71040/1-A	Method Blank	Total/NA	Water	522 MOD	71040



# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

**Client Sample ID: MW-1023-20140414-01**

**Lab Sample ID: 480-58121-1**

Date Collected: 04/14/14 10:55

Matrix: Water

Date Received: 04/17/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	176698	04/18/14 15:12	TRB	TAL BUF
Total/NA	Prep	3535A			71040	04/22/14 08:51	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	71059	04/22/14 12:43	KHW	TAL BUR

**Client Sample ID: MW-1034-20140414-01**

**Lab Sample ID: 480-58121-2**

Date Collected: 04/14/14 11:20

Matrix: Water

Date Received: 04/17/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	176698	04/18/14 15:36	TRB	TAL BUF
Total/NA	Prep	3535A			71040	04/22/14 08:51	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	71059	04/22/14 12:59	KHW	TAL BUR

**Client Sample ID: MW-1033-20140414-01**

**Lab Sample ID: 480-58121-3**

Date Collected: 04/14/14 11:35

Matrix: Water

Date Received: 04/17/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	176698	04/18/14 16:00	TRB	TAL BUF
Total/NA	Prep	3535A			71040	04/22/14 08:51	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	71059	04/22/14 13:16	KHW	TAL BUR

**Client Sample ID: MW-1025M-20140414-01**

**Lab Sample ID: 480-58121-4**

Date Collected: 04/14/14 10:30

Matrix: Water

Date Received: 04/17/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	176698	04/18/14 16:23	TRB	TAL BUF
Total/NA	Prep	3535A			71040	04/22/14 08:51	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	71059	04/22/14 13:32	KHW	TAL BUR

**Client Sample ID: MW-1025D-20140414-01**

**Lab Sample ID: 480-58121-5**

Date Collected: 04/14/14 10:25

Matrix: Water

Date Received: 04/17/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	176698	04/18/14 16:47	TRB	TAL BUF
Total/NA	Prep	3535A			71040	04/22/14 08:51	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	71059	04/22/14 13:49	KHW	TAL BUR

# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

**Client Sample ID: MW-1020-20140414-01**

**Lab Sample ID: 480-58121-6**

Date Collected: 04/14/14 10:10

Matrix: Water

Date Received: 04/17/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	176698	04/18/14 17:10	TRB	TAL BUF
Total/NA	Prep	3535A			71040	04/22/14 08:51	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	71059	04/22/14 14:05	KHW	TAL BUR

**Client Sample ID: MW-1011-20140414-01**

**Lab Sample ID: 480-58121-7**

Date Collected: 04/14/14 10:00

Matrix: Water

Date Received: 04/17/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	176698	04/18/14 17:34	TRB	TAL BUF
Total/NA	Prep	3535A			71040	04/22/14 08:51	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	71059	04/22/14 14:22	KHW	TAL BUR

**Client Sample ID: MW-1022-20140414-01**

**Lab Sample ID: 480-58121-8**

Date Collected: 04/14/14 11:10

Matrix: Water

Date Received: 04/17/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	176698	04/18/14 17:58	TRB	TAL BUF
Total/NA	Prep	3535A			71040	04/22/14 08:51	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	71059	04/22/14 14:38	KHW	TAL BUR

**Client Sample ID: MW-1024D-20140414-01**

**Lab Sample ID: 480-58121-9**

Date Collected: 04/14/14 10:45

Matrix: Water

Date Received: 04/17/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	176698	04/18/14 18:21	TRB	TAL BUF
Total/NA	Prep	3535A			71040	04/22/14 08:51	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	71059	04/22/14 14:55	KHW	TAL BUR

**Client Sample ID: TRIP BLANK-20140414-01**

**Lab Sample ID: 480-58121-10**

Date Collected: 04/14/14 14:20

Matrix: Water

Date Received: 04/17/14 03:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	176698	04/18/14 18:45	TRB	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

# Certification Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

## Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-14
California	State Program	9	1169CA	09-30-14
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-15
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	01-31-15 *
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	03-31-15
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-15
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14 *
Minnesota	NELAP	5	036-999-337	12-31-14
New Hampshire	NELAP	1	2337	11-17-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	03-31-15
North Dakota	State Program	8	R-176	03-31-14 *
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-30-14
Tennessee	State Program	4	TN02970	03-31-15
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-15
West Virginia DEP	State Program	3	252	05-31-14
Wisconsin	State Program	5	998310390	08-31-14

## Laboratory: TestAmerica Burlington

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-15
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-14
L-A-B	DoD ELAP		L2336	02-26-17
Louisiana	NELAP	6	176292	06-30-14
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-14
New Hampshire	NELAP	1	2006	12-18-14
New Jersey	NELAP	2	VT972	06-30-14 *
New York	NELAP	2	10391	03-31-15
Pennsylvania	NELAP	3	68-00489	04-30-15
Rhode Island	State Program	1	LAO00298	12-30-14
US Fish & Wildlife	Federal		LE-058448-0	02-28-15
USDA	Federal		P330-11-00093	10-28-16

\* Expired certification is currently pending renewal and is considered valid.

TestAmerica Buffalo

# Certification Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

## Laboratory: TestAmerica Burlington (Continued)

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Vermont	State Program	1	VT-4000	12-31-14
Virginia	NELAP	3	460209	12-14-14

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# Method Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

Method	Method Description	Protocol	Laboratory
8260C SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

**Protocol References:**

EPA = US Environmental Protection Agency

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

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# Sample Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-58121-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-58121-1	MW-1023-20140414-01	Water	04/14/14 10:55	04/17/14 03:00
480-58121-2	MW-1034-20140414-01	Water	04/14/14 11:20	04/17/14 03:00
480-58121-3	MW-1033-20140414-01	Water	04/14/14 11:35	04/17/14 03:00
480-58121-4	MW-1025M-20140414-01	Water	04/14/14 10:30	04/17/14 03:00
480-58121-5	MW-1025D-20140414-01	Water	04/14/14 10:25	04/17/14 03:00
480-58121-6	MW-1020-20140414-01	Water	04/14/14 10:10	04/17/14 03:00
480-58121-7	MW-1011-20140414-01	Water	04/14/14 10:00	04/17/14 03:00
480-58121-8	MW-1022-20140414-01	Water	04/14/14 11:10	04/17/14 03:00
480-58121-9	MW-1024D-20140414-01	Water	04/14/14 10:45	04/17/14 03:00
480-58121-10	TRIP BLANK-20140414-01	Water	04/14/14 14:20	04/17/14 03:00



## Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-58121-1

**Login Number: 58121**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Wienke, Robert K**

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.	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	N/A	
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	
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: ERM-Northeast

Job Number: 480-58121-1

**Login Number: 58121**

**List Source: TestAmerica Burlington**

**List Number: 2**

**List Creation: 04/17/14 11:38 AM**

**Creator: Gagne, Eric M**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	No NUMBERS
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	0.6°C. IR GUN ID 181. CF = 0
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.	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	
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**

Westfield Executive Park 53 Southampton Road  
Westfield, MA 01085  
Phone (413) 572-4000 Fax (413) 572-3707

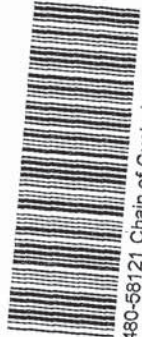
**Boston Service Center**

240 Bear Hill Rd. Suite 104  
Waltham, MA 02451  
Phone (781) 466-6900 Fax (781) 466-

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

**dy Record**



Client Information		Carrier Tracking Net(s):		COC No: 22960		
Client Contact: <u>Lindsay Colburn</u>		Page: <u>1 of 1</u>		Job #: <u>0237233</u>		
Company: <u>ERM</u>		Analysis Requested		Preservation Codes:		
Address: <u>One Beacon St. 5th Floor</u>		Due Date Requested:		A - HCL		
City: <u>Boston, MA</u>		TAT Requested (days):		B - NaOH		
State Zip: <u>02108</u>		Quote #: <u>Normal TAT</u>		C - Zn Acetate		
Phone: <u>1-617-646-7800</u>		PO #:		D - Nitric Acid		
Email: <u>lindsay.colburn@erm.com</u>		WO #:		E - NaHSO4		
Project Name/number: <u>lbs wayland</u>		SSOW#:		F - MeOH		
Site: <u>Wayland, MA</u>		Matrix (W=water, S=solid, O=wastobol, BT=Tissue, A=Air)		H - Ascorbic Acid		
Sample Identification		Sample Date		I - Ice		
Sample Type (C=Comp, G=grab)		Sample Time		Regulatory programs:		
Preservation Code:		Sampler's Initials		MCP <input type="checkbox"/> GW1/SI <input type="checkbox"/>		
Perform MS/MSD?		Field Filtered Sample?		RCP <input type="checkbox"/> CT RSR <input type="checkbox"/>		
Total Number of Containers		Special Instructions/Note:		DEP Form <input type="checkbox"/> EDD Required <input type="checkbox"/>		
MW-10883-20140414-01	G	4/14/14	10:55	SB	3	Run SIM analysis
MW-1034-20140414-01	G	4/14/14	11:20	SB	3	first; for NDs peak
MW-1088-20140414-01	G	4/14/14	11:35	SB	3	run 522 analysis
MW-1025M-20140414-01	G	4/14/14	10:30	SB	3	
MW-1025D-20140414-01	G	4/14/14	10:25	SB	3	
MW-1020-20140414-01	G	4/14/14	10:10	SB	3	
MW-1011-20140414-01	G	4/14/14	10:00	SB	3	
MW-1022-20140414-01	G	4/14/14	11:10	SB	3	
MW-1024D-20140414-01	G	4/14/14	10:45	SB	3	
TRIP BLANK-20140414-01	G	4/14/14	14:20	SB	3	

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/QC Requirements:

Received by: [Signature] Date/Time: 4-16-14 13:55 Company: ERM  
 Resurveyed by: [Signature] Date/Time: 4-16-14 10:30 Company: ERM  
 Received by: [Signature] Date/Time: 4-16-14 10:30 Company: ERM  
 Cooler Temperature(s) °C and Other Remarks: 2 of # 1



# 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: 480-57719-1  
Client Project/Site: IDS Wayland

For:  
ERM-Northeast  
One Beacon Steet  
5th Floor  
Boston, Massachusetts 02108

Attn: Lyndsey Colburn



Authorized for release by:  
4/18/2014 10:30:16 AM  
Rebecca Jones, Project Management Assistant I  
[rebecca.jones@testamericainc.com](mailto:rebecca.jones@testamericainc.com)  
Designee for  
Becky Mason, Project Manager II  
(413)572-4000  
[becky.mason@testamericainc.com](mailto:becky.mason@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

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[www.testamericainc.com](http://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.*

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# Definitions/Glossary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control 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
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)

# Case Narrative

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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## Job ID: 480-57719-1

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### Laboratory: TestAmerica Buffalo

#### Narrative

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#### Job Narrative 480-57719-1

#### Receipt

The samples were received on 4/11/2014 1:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9° C.

#### GC/MS VOA

Method(s) 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 Carbon disulfide, Isopropyl ether, Naphthalene, tert-Butyl ethyl ether, tert-Amyl methyl Ether, & Tetrahydrofuran.

Method(s) 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-1025M-20140410-01 (480-57719-3). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 175485 exceeded control limits for the following analyte: Tetrahydrofuran. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%.

Method(s) 8260C: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: MW-1018-20140410-01 (480-57719-14). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.



# Detection Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

## Client Sample ID: MW-1030-20140410-01

## Lab Sample ID: 480-57719-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	4.1		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	2.7		1.0		ug/L	1		8260C	Total/NA
Acetone	76		50		ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	1.7		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	39		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1028-20140410-01

## Lab Sample ID: 480-57719-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	80		50		ug/L	1		8260C	Total/NA
Trichloroethene	3.3		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1025M-20140410-01

## Lab Sample ID: 480-57719-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.9		2.0		ug/L	2		8260C	Total/NA
1,1-Dichloroethene	4.8		2.0		ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	3.4		2.0		ug/L	2		8260C	Total/NA
Trichloroethene	83		2.0		ug/L	2		8260C	Total/NA

## Client Sample ID: DUP-003-20140410-01

## Lab Sample ID: 480-57719-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.9		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethane	1.8		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	4.9		1.0		ug/L	1		8260C	Total/NA
Acetone	81		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.6		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	85		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1015D-20140410-01

## Lab Sample ID: 480-57719-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	82		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.9		1.0		ug/L	1		8260C	Total/NA
Tetrachloroethene	2.0		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	23		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1033-20140410-01

## Lab Sample ID: 480-57719-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	80		50		ug/L	1		8260C	Total/NA

## Client Sample ID: DUP-002-20140410-01

## Lab Sample ID: 480-57719-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.5		1.0		ug/L	1		8260C	Total/NA
Acetone	75		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	41		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.0		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Detection Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

## Client Sample ID: MW-1023-20140410-01

Lab Sample ID: 480-57719-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	80		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.5		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	13		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1010M-20140410-01

Lab Sample ID: 480-57719-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	77		50		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1022-20140410-01

Lab Sample ID: 480-57719-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	79		50		ug/L	1		8260C	Total/NA
Trichloroethene	3.0		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1019B-20140410-01

Lab Sample ID: 480-57719-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	79		50		ug/L	1		8260C	Total/NA
Trichloroethene	2.1		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1032-20140410-01

Lab Sample ID: 480-57719-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.0		1.0		ug/L	1		8260C	Total/NA
1,1,1-Dichloroethane	1.9		1.0		ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	4.1		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	11		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1017D-20140410-01

Lab Sample ID: 480-57719-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	78		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	11		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	29		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1018-20140410-01

Lab Sample ID: 480-57719-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	42		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	3.7		1.0		ug/L	1		8260C	Total/NA
Acetone	81		50		ug/L	1		8260C	Total/NA
Trichloroethene - DL	170		4.0		ug/L	4		8260C	Total/NA

## Client Sample ID: MW-1031-20140410-01

Lab Sample ID: 480-57719-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	79		50		ug/L	1		8260C	Total/NA
Trichloroethene	2.9		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo



# Detection Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

## Client Sample ID: MW-1008-20140410-01

Lab Sample ID: 480-57719-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	83		50		ug/L	1		8260C	Total/NA
Trichloroethene	3.1		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1025D-20140410-01

Lab Sample ID: 480-57719-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	25		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1011-20140410-01

Lab Sample ID: 480-57719-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	80		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	12		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	22		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1024D-20140410-01

Lab Sample ID: 480-57719-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	85		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	4.2		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	14		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1020-20140410-01

Lab Sample ID: 480-57719-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.6		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethane	1.0		1.0		ug/L	1		8260C	Total/NA
Acetone	81		50		ug/L	1		8260C	Total/NA
Trichloroethene	21		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1034-20140410-01

Lab Sample ID: 480-57719-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	81		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.9		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	5.0		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: DUP-004-20140410-01

Lab Sample ID: 480-57719-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	79		50		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1010D-20140410-01

Lab Sample ID: 480-57719-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	83		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.3		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	5.3		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Detection Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

## Client Sample ID: MW-1027-20140410-01

Lab Sample ID: 480-57719-24

No Detections.

## Client Sample ID: MW-1016D-20140410-01

Lab Sample ID: 480-57719-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.5		1.0		ug/L	1		8260C	Total/NA
Acetone	80		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	42		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.1		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1013-20140410-01

Lab Sample ID: 480-57719-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	87		50		ug/L	1		8260C	Total/NA

## Client Sample ID: TB-001-20140410-01

Lab Sample ID: 480-57719-27

No Detections.

## Client Sample ID: MW-1009-20140410-01

Lab Sample ID: 480-57719-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	83		50		ug/L	1		8260C	Total/NA
Trichlorofluoromethane	1.2		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1006-20140410-01

Lab Sample ID: 480-57719-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	84		50		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1005-20140410-01

Lab Sample ID: 480-57719-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	84		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.6		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	13		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1004-20140410-01

Lab Sample ID: 480-57719-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	82		50		ug/L	1		8260C	Total/NA

## Client Sample ID: DUP-001-20140410-01

Lab Sample ID: 480-57719-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	83		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.6		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	12		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1002B-20140410-01

Lab Sample ID: 480-57719-33

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Detection Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

## Client Sample ID: MW-1002B-20140410-01 (Continued)

Lab Sample ID: 480-57719-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	87		50		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1003-20140410-01

Lab Sample ID: 480-57719-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	80		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.3		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	5.2		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

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# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1030-20140410-01**

**Lab Sample ID: 480-57719-1**

**Date Collected: 04/10/14 10:11**

**Matrix: Water**

**Date Received: 04/11/14 01:45**

**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			04/11/14 23:46	1
<b>1,1,1-Trichloroethane</b>	<b>4.1</b>		1.0		ug/L			04/11/14 23:46	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 23:46	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 23:46	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 23:46	1
<b>1,1-Dichloroethene</b>	<b>2.7</b>		1.0		ug/L			04/11/14 23:46	1
1,1-Dichloropropene	ND		1.0		ug/L			04/11/14 23:46	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/11/14 23:46	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/11/14 23:46	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/11/14 23:46	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/11/14 23:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/11/14 23:46	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/11/14 23:46	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 23:46	1
1,2-Dichloropropane	ND		1.0		ug/L			04/11/14 23:46	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/11/14 23:46	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/11/14 23:46	1
1,3-Dichloropropane	ND		1.0		ug/L			04/11/14 23:46	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/11/14 23:46	1
1,4-Dioxane	ND		50		ug/L			04/11/14 23:46	1
2,2-Dichloropropane	ND		1.0		ug/L			04/11/14 23:46	1
2-Butanone (MEK)	ND		10		ug/L			04/11/14 23:46	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 23:46	1
2-Hexanone	ND		10		ug/L			04/11/14 23:46	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 23:46	1
4-Isopropyltoluene	ND		1.0		ug/L			04/11/14 23:46	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/11/14 23:46	1
<b>Acetone</b>	<b>76</b>		50		ug/L			04/11/14 23:46	1
Benzene	ND		1.0		ug/L			04/11/14 23:46	1
Bromobenzene	ND		1.0		ug/L			04/11/14 23:46	1
Bromoform	ND		1.0		ug/L			04/11/14 23:46	1
Bromomethane	ND		2.0		ug/L			04/11/14 23:46	1
Carbon disulfide	ND		10		ug/L			04/11/14 23:46	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 23:46	1
Chlorobenzene	ND		1.0		ug/L			04/11/14 23:46	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 23:46	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 23:46	1
Chloroethane	ND		2.0		ug/L			04/11/14 23:46	1
Chloroform	ND		1.0		ug/L			04/11/14 23:46	1
Chloromethane	ND		2.0		ug/L			04/11/14 23:46	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 23:46	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 23:46	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 23:46	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 23:46	1
Ethyl ether	ND		1.0		ug/L			04/11/14 23:46	1
Ethylbenzene	ND		1.0		ug/L			04/11/14 23:46	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 23:46	1
Hexachlorobutadiene	ND		0.40		ug/L			04/11/14 23:46	1
Isopropyl ether	ND		10		ug/L			04/11/14 23:46	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1030-20140410-01**

**Lab Sample ID: 480-57719-1**

**Date Collected: 04/10/14 10:11**

**Matrix: Water**

**Date Received: 04/11/14 01:45**

**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			04/11/14 23:46	1
<b>Methyl tert-butyl ether</b>	<b>1.7</b>		1.0		ug/L			04/11/14 23:46	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 23:46	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/11/14 23:46	1
Naphthalene	ND		5.0		ug/L			04/11/14 23:46	1
n-Butylbenzene	ND		1.0		ug/L			04/11/14 23:46	1
N-Propylbenzene	ND		1.0		ug/L			04/11/14 23:46	1
o-Xylene	ND		1.0		ug/L			04/11/14 23:46	1
sec-Butylbenzene	ND		1.0		ug/L			04/11/14 23:46	1
Styrene	ND		1.0		ug/L			04/11/14 23:46	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 23:46	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 23:46	1
tert-Butylbenzene	ND		1.0		ug/L			04/11/14 23:46	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 23:46	1
Tetrahydrofuran	ND		10		ug/L			04/11/14 23:46	1
Toluene	ND		1.0		ug/L			04/11/14 23:46	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 23:46	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/11/14 23:46	1
<b>Trichloroethene</b>	<b>39</b>		1.0		ug/L			04/11/14 23:46	1
Trichlorofluoromethane	ND		1.0		ug/L			04/11/14 23:46	1
Vinyl chloride	ND		1.0		ug/L			04/11/14 23:46	1
Dibromomethane	ND		1.0		ug/L			04/11/14 23:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/11/14 23:46	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/11/14 23:46	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/11/14 23:46	1

**Client Sample ID: MW-1028-20140410-01**

**Lab Sample ID: 480-57719-2**

**Date Collected: 04/10/14 09:25**

**Matrix: Water**

**Date Received: 04/11/14 01:45**

**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			04/12/14 00:10	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 00:10	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 00:10	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 00:10	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 00:10	1
1,1-Dichloroethene	ND		1.0		ug/L			04/12/14 00:10	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 00:10	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 00:10	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 00:10	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 00:10	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 00:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 00:10	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 00:10	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 00:10	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 00:10	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 00:10	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1028-20140410-01**

**Lab Sample ID: 480-57719-2**

**Date Collected: 04/10/14 09:25**

**Matrix: Water**

**Date Received: 04/11/14 01:45**

**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			04/12/14 00:10	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 00:10	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 00:10	1
1,4-Dioxane	ND		50		ug/L			04/12/14 00:10	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 00:10	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 00:10	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 00:10	1
2-Hexanone	ND		10		ug/L			04/12/14 00:10	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 00:10	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 00:10	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 00:10	1
<b>Acetone</b>	<b>80</b>		50		ug/L			04/12/14 00:10	1
Benzene	ND		1.0		ug/L			04/12/14 00:10	1
Bromobenzene	ND		1.0		ug/L			04/12/14 00:10	1
Bromoform	ND		1.0		ug/L			04/12/14 00:10	1
Bromomethane	ND		2.0		ug/L			04/12/14 00:10	1
Carbon disulfide	ND		10		ug/L			04/12/14 00:10	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 00:10	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 00:10	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 00:10	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 00:10	1
Chloroethane	ND		2.0		ug/L			04/12/14 00:10	1
Chloroform	ND		1.0		ug/L			04/12/14 00:10	1
Chloromethane	ND		2.0		ug/L			04/12/14 00:10	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 00:10	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 00:10	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 00:10	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 00:10	1
Ethyl ether	ND		1.0		ug/L			04/12/14 00:10	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 00:10	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 00:10	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 00:10	1
Isopropyl ether	ND		10		ug/L			04/12/14 00:10	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 00:10	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 00:10	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 00:10	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 00:10	1
Naphthalene	ND		5.0		ug/L			04/12/14 00:10	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 00:10	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 00:10	1
o-Xylene	ND		1.0		ug/L			04/12/14 00:10	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 00:10	1
Styrene	ND		1.0		ug/L			04/12/14 00:10	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 00:10	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 00:10	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 00:10	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 00:10	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 00:10	1
Toluene	ND		1.0		ug/L			04/12/14 00:10	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1028-20140410-01**

**Lab Sample ID: 480-57719-2**

Date Collected: 04/10/14 09:25

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 00:10	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 00:10	1
<b>Trichloroethene</b>	<b>3.3</b>		1.0		ug/L			04/12/14 00:10	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 00:10	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 00:10	1
Dibromomethane	ND		1.0		ug/L			04/12/14 00:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130					04/12/14 00:10	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130					04/12/14 00:10	1
4-Bromofluorobenzene (Surr)	96		70 - 130					04/12/14 00:10	1

**Client Sample ID: MW-1025M-20140410-01**

**Lab Sample ID: 480-57719-3**

Date Collected: 04/10/14 08:55

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 00:34	2
<b>1,1,1-Trichloroethane</b>	<b>2.9</b>		2.0		ug/L			04/12/14 00:34	2
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/12/14 00:34	2
1,1,2-Trichloroethane	ND		2.0		ug/L			04/12/14 00:34	2
1,1-Dichloroethane	ND		2.0		ug/L			04/12/14 00:34	2
<b>1,1-Dichloroethene</b>	<b>4.8</b>		2.0		ug/L			04/12/14 00:34	2
1,1-Dichloropropene	ND		2.0		ug/L			04/12/14 00:34	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			04/12/14 00:34	2
1,2,3-Trichloropropane	ND		2.0		ug/L			04/12/14 00:34	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			04/12/14 00:34	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			04/12/14 00:34	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			04/12/14 00:34	2
1,2-Dichlorobenzene	ND		2.0		ug/L			04/12/14 00:34	2
1,2-Dichloroethane	ND		2.0		ug/L			04/12/14 00:34	2
1,2-Dichloropropane	ND		2.0		ug/L			04/12/14 00:34	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			04/12/14 00:34	2
1,3-Dichlorobenzene	ND		2.0		ug/L			04/12/14 00:34	2
1,3-Dichloropropane	ND		2.0		ug/L			04/12/14 00:34	2
1,4-Dichlorobenzene	ND		2.0		ug/L			04/12/14 00:34	2
1,4-Dioxane	ND		100		ug/L			04/12/14 00:34	2
2,2-Dichloropropane	ND		2.0		ug/L			04/12/14 00:34	2
2-Butanone (MEK)	ND		20		ug/L			04/12/14 00:34	2
2-Chlorotoluene	ND		2.0		ug/L			04/12/14 00:34	2
2-Hexanone	ND		20		ug/L			04/12/14 00:34	2
4-Chlorotoluene	ND		2.0		ug/L			04/12/14 00:34	2
4-Isopropyltoluene	ND		2.0		ug/L			04/12/14 00:34	2
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			04/12/14 00:34	2
Acetone	ND		100		ug/L			04/12/14 00:34	2
Benzene	ND		2.0		ug/L			04/12/14 00:34	2
Bromobenzene	ND		2.0		ug/L			04/12/14 00:34	2
Bromoform	ND		2.0		ug/L			04/12/14 00:34	2
Bromomethane	ND		4.0		ug/L			04/12/14 00:34	2

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1025M-20140410-01**

**Lab Sample ID: 480-57719-3**

**Date Collected: 04/10/14 08:55**

**Matrix: Water**

**Date Received: 04/11/14 01:45**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		20		ug/L			04/12/14 00:34	2
Carbon tetrachloride	ND		2.0		ug/L			04/12/14 00:34	2
Chlorobenzene	ND		2.0		ug/L			04/12/14 00:34	2
Chlorobromomethane	ND		2.0		ug/L			04/12/14 00:34	2
Chlorodibromomethane	ND		1.0		ug/L			04/12/14 00:34	2
Chloroethane	ND		4.0		ug/L			04/12/14 00:34	2
Chloroform	ND		2.0		ug/L			04/12/14 00:34	2
Chloromethane	ND		4.0		ug/L			04/12/14 00:34	2
<b>cis-1,2-Dichloroethene</b>	<b>3.4</b>		2.0		ug/L			04/12/14 00:34	2
cis-1,3-Dichloropropene	ND		0.80		ug/L			04/12/14 00:34	2
Dichlorobromomethane	ND		1.0		ug/L			04/12/14 00:34	2
Dichlorodifluoromethane	ND		2.0		ug/L			04/12/14 00:34	2
Ethyl ether	ND		2.0		ug/L			04/12/14 00:34	2
Ethylbenzene	ND		2.0		ug/L			04/12/14 00:34	2
Ethylene Dibromide	ND		2.0		ug/L			04/12/14 00:34	2
Hexachlorobutadiene	ND		0.80		ug/L			04/12/14 00:34	2
Isopropyl ether	ND		20		ug/L			04/12/14 00:34	2
Isopropylbenzene	ND		2.0		ug/L			04/12/14 00:34	2
Methyl tert-butyl ether	ND		2.0		ug/L			04/12/14 00:34	2
Methylene Chloride	ND		2.0		ug/L			04/12/14 00:34	2
m-Xylene & p-Xylene	ND		4.0		ug/L			04/12/14 00:34	2
Naphthalene	ND		10		ug/L			04/12/14 00:34	2
n-Butylbenzene	ND		2.0		ug/L			04/12/14 00:34	2
N-Propylbenzene	ND		2.0		ug/L			04/12/14 00:34	2
o-Xylene	ND		2.0		ug/L			04/12/14 00:34	2
sec-Butylbenzene	ND		2.0		ug/L			04/12/14 00:34	2
Styrene	ND		2.0		ug/L			04/12/14 00:34	2
Tert-amyl methyl ether	ND		10		ug/L			04/12/14 00:34	2
Tert-butyl ethyl ether	ND		10		ug/L			04/12/14 00:34	2
tert-Butylbenzene	ND		2.0		ug/L			04/12/14 00:34	2
Tetrachloroethene	ND		2.0		ug/L			04/12/14 00:34	2
Tetrahydrofuran	ND		20		ug/L			04/12/14 00:34	2
Toluene	ND		2.0		ug/L			04/12/14 00:34	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			04/12/14 00:34	2
trans-1,3-Dichloropropene	ND		0.80		ug/L			04/12/14 00:34	2
<b>Trichloroethene</b>	<b>83</b>		2.0		ug/L			04/12/14 00:34	2
Trichlorofluoromethane	ND		2.0		ug/L			04/12/14 00:34	2
Vinyl chloride	ND		2.0		ug/L			04/12/14 00:34	2
Dibromomethane	ND		2.0		ug/L			04/12/14 00:34	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		04/12/14 00:34	2
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		04/12/14 00:34	2
4-Bromofluorobenzene (Surr)	95		70 - 130		04/12/14 00:34	2

TestAmerica Buffalo



# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: DUP-003-20140410-01**

**Lab Sample ID: 480-57719-4**

**Date Collected: 04/10/14 03:33**

**Matrix: Water**

**Date Received: 04/11/14 01:45**

**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			04/12/14 00:58	1
<b>1,1,1-Trichloroethane</b>	<b>2.9</b>		1.0		ug/L			04/12/14 00:58	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 00:58	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 00:58	1
<b>1,1-Dichloroethane</b>	<b>1.8</b>		1.0		ug/L			04/12/14 00:58	1
<b>1,1-Dichloroethene</b>	<b>4.9</b>		1.0		ug/L			04/12/14 00:58	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 00:58	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 00:58	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 00:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 00:58	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 00:58	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 00:58	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 00:58	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 00:58	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 00:58	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 00:58	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 00:58	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 00:58	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 00:58	1
1,4-Dioxane	ND		50		ug/L			04/12/14 00:58	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 00:58	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 00:58	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 00:58	1
2-Hexanone	ND		10		ug/L			04/12/14 00:58	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 00:58	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 00:58	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 00:58	1
<b>Acetone</b>	<b>81</b>		50		ug/L			04/12/14 00:58	1
Benzene	ND		1.0		ug/L			04/12/14 00:58	1
Bromobenzene	ND		1.0		ug/L			04/12/14 00:58	1
Bromoform	ND		1.0		ug/L			04/12/14 00:58	1
Bromomethane	ND		2.0		ug/L			04/12/14 00:58	1
Carbon disulfide	ND		10		ug/L			04/12/14 00:58	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 00:58	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 00:58	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 00:58	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 00:58	1
Chloroethane	ND		2.0		ug/L			04/12/14 00:58	1
Chloroform	ND		1.0		ug/L			04/12/14 00:58	1
Chloromethane	ND		2.0		ug/L			04/12/14 00:58	1
<b>cis-1,2-Dichloroethene</b>	<b>3.6</b>		1.0		ug/L			04/12/14 00:58	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 00:58	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 00:58	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 00:58	1
Ethyl ether	ND		1.0		ug/L			04/12/14 00:58	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 00:58	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 00:58	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 00:58	1
Isopropyl ether	ND		10		ug/L			04/12/14 00:58	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: DUP-003-20140410-01**

**Lab Sample ID: 480-57719-4**

Date Collected: 04/10/14 03:33

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 00:58	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 00:58	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 00:58	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 00:58	1
Naphthalene	ND		5.0		ug/L			04/12/14 00:58	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 00:58	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 00:58	1
o-Xylene	ND		1.0		ug/L			04/12/14 00:58	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 00:58	1
Styrene	ND		1.0		ug/L			04/12/14 00:58	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 00:58	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 00:58	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 00:58	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 00:58	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 00:58	1
Toluene	ND		1.0		ug/L			04/12/14 00:58	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 00:58	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 00:58	1
<b>Trichloroethene</b>	<b>85</b>		1.0		ug/L			04/12/14 00:58	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 00:58	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 00:58	1
Dibromomethane	ND		1.0		ug/L			04/12/14 00:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/12/14 00:58	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/12/14 00:58	1
4-Bromofluorobenzene (Surr)	95		70 - 130		04/12/14 00:58	1

**Client Sample ID: MW-1015D-20140410-01**

**Lab Sample ID: 480-57719-5**

Date Collected: 04/10/14 08:20

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 01:21	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 01:21	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 01:21	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 01:21	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 01:21	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 01:21	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 01:21	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 01:21	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 01:21	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 01:21	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 01:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 01:21	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 01:21	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 01:21	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 01:21	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 01:21	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1015D-20140410-01**

**Lab Sample ID: 480-57719-5**

Date Collected: 04/10/14 08:20

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 01:21	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 01:21	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 01:21	1
1,4-Dioxane	ND		50		ug/L			04/12/14 01:21	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 01:21	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 01:21	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 01:21	1
2-Hexanone	ND		10		ug/L			04/12/14 01:21	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 01:21	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 01:21	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 01:21	1
<b>Acetone</b>	<b>82</b>		50		ug/L			04/12/14 01:21	1
Benzene	ND		1.0		ug/L			04/12/14 01:21	1
Bromobenzene	ND		1.0		ug/L			04/12/14 01:21	1
Bromoform	ND		1.0		ug/L			04/12/14 01:21	1
Bromomethane	ND		2.0		ug/L			04/12/14 01:21	1
Carbon disulfide	ND		10		ug/L			04/12/14 01:21	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 01:21	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 01:21	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 01:21	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 01:21	1
Chloroethane	ND		2.0		ug/L			04/12/14 01:21	1
Chloroform	ND		1.0		ug/L			04/12/14 01:21	1
Chloromethane	ND		2.0		ug/L			04/12/14 01:21	1
<b>cis-1,2-Dichloroethene</b>	<b>1.9</b>		1.0		ug/L			04/12/14 01:21	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 01:21	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 01:21	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 01:21	1
Ethyl ether	ND		1.0		ug/L			04/12/14 01:21	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 01:21	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 01:21	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 01:21	1
Isopropyl ether	ND		10		ug/L			04/12/14 01:21	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 01:21	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 01:21	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 01:21	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 01:21	1
Naphthalene	ND		5.0		ug/L			04/12/14 01:21	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 01:21	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 01:21	1
o-Xylene	ND		1.0		ug/L			04/12/14 01:21	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 01:21	1
Styrene	ND		1.0		ug/L			04/12/14 01:21	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 01:21	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 01:21	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 01:21	1
<b>Tetrachloroethene</b>	<b>2.0</b>		1.0		ug/L			04/12/14 01:21	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 01:21	1
Toluene	ND		1.0		ug/L			04/12/14 01:21	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1015D-20140410-01**

**Lab Sample ID: 480-57719-5**

Date Collected: 04/10/14 08:20

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 01:21	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 01:21	1
<b>Trichloroethene</b>	<b>23</b>		1.0		ug/L			04/12/14 01:21	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 01:21	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 01:21	1
Dibromomethane	ND		1.0		ug/L			04/12/14 01:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130					04/12/14 01:21	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130					04/12/14 01:21	1
4-Bromofluorobenzene (Surr)	98		70 - 130					04/12/14 01:21	1

**Client Sample ID: MW-1033-20140410-01**

**Lab Sample ID: 480-57719-6**

Date Collected: 04/10/14 08:58

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 01:45	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 01:45	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 01:45	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 01:45	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 01:45	1
1,1-Dichloroethene	ND		1.0		ug/L			04/12/14 01:45	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 01:45	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 01:45	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 01:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 01:45	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 01:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 01:45	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 01:45	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 01:45	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 01:45	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 01:45	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 01:45	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 01:45	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 01:45	1
1,4-Dioxane	ND		50		ug/L			04/12/14 01:45	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 01:45	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 01:45	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 01:45	1
2-Hexanone	ND		10		ug/L			04/12/14 01:45	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 01:45	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 01:45	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 01:45	1
<b>Acetone</b>	<b>80</b>		50		ug/L			04/12/14 01:45	1
Benzene	ND		1.0		ug/L			04/12/14 01:45	1
Bromobenzene	ND		1.0		ug/L			04/12/14 01:45	1
Bromoform	ND		1.0		ug/L			04/12/14 01:45	1
Bromomethane	ND		2.0		ug/L			04/12/14 01:45	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1033-20140410-01**

**Lab Sample ID: 480-57719-6**

**Date Collected: 04/10/14 08:58**

**Matrix: Water**

**Date Received: 04/11/14 01:45**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			04/12/14 01:45	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 01:45	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 01:45	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 01:45	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 01:45	1
Chloroethane	ND		2.0		ug/L			04/12/14 01:45	1
Chloroform	ND		1.0		ug/L			04/12/14 01:45	1
Chloromethane	ND		2.0		ug/L			04/12/14 01:45	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 01:45	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 01:45	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 01:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 01:45	1
Ethyl ether	ND		1.0		ug/L			04/12/14 01:45	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 01:45	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 01:45	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 01:45	1
Isopropyl ether	ND		10		ug/L			04/12/14 01:45	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 01:45	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 01:45	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 01:45	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 01:45	1
Naphthalene	ND		5.0		ug/L			04/12/14 01:45	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 01:45	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 01:45	1
o-Xylene	ND		1.0		ug/L			04/12/14 01:45	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 01:45	1
Styrene	ND		1.0		ug/L			04/12/14 01:45	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 01:45	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 01:45	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 01:45	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 01:45	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 01:45	1
Toluene	ND		1.0		ug/L			04/12/14 01:45	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 01:45	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 01:45	1
Trichloroethene	ND		1.0		ug/L			04/12/14 01:45	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 01:45	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 01:45	1
Dibromomethane	ND		1.0		ug/L			04/12/14 01:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/12/14 01:45	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/12/14 01:45	1
4-Bromofluorobenzene (Surr)	93		70 - 130		04/12/14 01:45	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: DUP-002-20140410-01**

**Lab Sample ID: 480-57719-7**

Date Collected: 04/10/14 10:10

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 02:09	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 02:09	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 02:09	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 02:09	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 02:09	1
<b>1,1-Dichloroethene</b>	<b>1.5</b>		1.0		ug/L			04/12/14 02:09	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 02:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 02:09	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 02:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 02:09	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 02:09	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 02:09	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 02:09	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 02:09	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 02:09	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 02:09	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 02:09	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 02:09	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 02:09	1
1,4-Dioxane	ND		50		ug/L			04/12/14 02:09	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 02:09	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 02:09	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 02:09	1
2-Hexanone	ND		10		ug/L			04/12/14 02:09	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 02:09	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 02:09	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 02:09	1
<b>Acetone</b>	<b>75</b>		50		ug/L			04/12/14 02:09	1
Benzene	ND		1.0		ug/L			04/12/14 02:09	1
Bromobenzene	ND		1.0		ug/L			04/12/14 02:09	1
Bromoform	ND		1.0		ug/L			04/12/14 02:09	1
Bromomethane	ND		2.0		ug/L			04/12/14 02:09	1
Carbon disulfide	ND		10		ug/L			04/12/14 02:09	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 02:09	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 02:09	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 02:09	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 02:09	1
Chloroethane	ND		2.0		ug/L			04/12/14 02:09	1
Chloroform	ND		1.0		ug/L			04/12/14 02:09	1
Chloromethane	ND		2.0		ug/L			04/12/14 02:09	1
<b>cis-1,2-Dichloroethene</b>	<b>41</b>		1.0		ug/L			04/12/14 02:09	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 02:09	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 02:09	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 02:09	1
Ethyl ether	ND		1.0		ug/L			04/12/14 02:09	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 02:09	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 02:09	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 02:09	1
Isopropyl ether	ND		10		ug/L			04/12/14 02:09	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: DUP-002-20140410-01**

**Lab Sample ID: 480-57719-7**

**Date Collected: 04/10/14 10:10**

**Matrix: Water**

**Date Received: 04/11/14 01:45**

**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			04/12/14 02:09	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 02:09	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 02:09	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 02:09	1
Naphthalene	ND		5.0		ug/L			04/12/14 02:09	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 02:09	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 02:09	1
o-Xylene	ND		1.0		ug/L			04/12/14 02:09	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 02:09	1
Styrene	ND		1.0		ug/L			04/12/14 02:09	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 02:09	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 02:09	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 02:09	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 02:09	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 02:09	1
Toluene	ND		1.0		ug/L			04/12/14 02:09	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 02:09	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 02:09	1
<b>Trichloroethene</b>	<b>1.0</b>		1.0		ug/L			04/12/14 02:09	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 02:09	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 02:09	1
Dibromomethane	ND		1.0		ug/L			04/12/14 02:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/12/14 02:09	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		04/12/14 02:09	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/12/14 02:09	1

**Client Sample ID: MW-1023-20140410-01**

**Lab Sample ID: 480-57719-8**

**Date Collected: 04/10/14 13:30**

**Matrix: Water**

**Date Received: 04/11/14 01:45**

**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			04/12/14 02:33	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 02:33	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 02:33	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 02:33	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 02:33	1
1,1-Dichloroethene	ND		1.0		ug/L			04/12/14 02:33	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 02:33	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 02:33	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 02:33	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 02:33	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 02:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 02:33	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 02:33	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 02:33	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 02:33	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 02:33	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1023-20140410-01**

**Lab Sample ID: 480-57719-8**

**Date Collected: 04/10/14 13:30**

**Matrix: Water**

**Date Received: 04/11/14 01:45**

**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			04/12/14 02:33	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 02:33	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 02:33	1
1,4-Dioxane	ND		50		ug/L			04/12/14 02:33	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 02:33	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 02:33	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 02:33	1
2-Hexanone	ND		10		ug/L			04/12/14 02:33	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 02:33	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 02:33	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 02:33	1
<b>Acetone</b>	<b>80</b>		50		ug/L			04/12/14 02:33	1
Benzene	ND		1.0		ug/L			04/12/14 02:33	1
Bromobenzene	ND		1.0		ug/L			04/12/14 02:33	1
Bromoform	ND		1.0		ug/L			04/12/14 02:33	1
Bromomethane	ND		2.0		ug/L			04/12/14 02:33	1
Carbon disulfide	ND		10		ug/L			04/12/14 02:33	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 02:33	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 02:33	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 02:33	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 02:33	1
Chloroethane	ND		2.0		ug/L			04/12/14 02:33	1
Chloroform	ND		1.0		ug/L			04/12/14 02:33	1
Chloromethane	ND		2.0		ug/L			04/12/14 02:33	1
<b>cis-1,2-Dichloroethene</b>	<b>3.5</b>		1.0		ug/L			04/12/14 02:33	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 02:33	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 02:33	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 02:33	1
Ethyl ether	ND		1.0		ug/L			04/12/14 02:33	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 02:33	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 02:33	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 02:33	1
Isopropyl ether	ND		10		ug/L			04/12/14 02:33	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 02:33	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 02:33	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 02:33	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 02:33	1
Naphthalene	ND		5.0		ug/L			04/12/14 02:33	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 02:33	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 02:33	1
o-Xylene	ND		1.0		ug/L			04/12/14 02:33	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 02:33	1
Styrene	ND		1.0		ug/L			04/12/14 02:33	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 02:33	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 02:33	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 02:33	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 02:33	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 02:33	1
Toluene	ND		1.0		ug/L			04/12/14 02:33	1

TestAmerica Buffalo



# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1023-20140410-01**

**Lab Sample ID: 480-57719-8**

Date Collected: 04/10/14 13:30

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 02:33	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 02:33	1
<b>Trichloroethene</b>	<b>13</b>		1.0		ug/L			04/12/14 02:33	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 02:33	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 02:33	1
Dibromomethane	ND		1.0		ug/L			04/12/14 02:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130					04/12/14 02:33	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130					04/12/14 02:33	1
4-Bromofluorobenzene (Surr)	96		70 - 130					04/12/14 02:33	1

**Client Sample ID: MW-1010M-20140410-01**

**Lab Sample ID: 480-57719-9**

Date Collected: 04/10/14 10:25

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 02:56	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 02:56	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 02:56	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 02:56	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 02:56	1
1,1-Dichloroethene	ND		1.0		ug/L			04/12/14 02:56	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 02:56	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 02:56	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 02:56	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 02:56	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 02:56	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 02:56	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 02:56	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 02:56	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 02:56	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 02:56	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 02:56	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 02:56	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 02:56	1
1,4-Dioxane	ND		50		ug/L			04/12/14 02:56	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 02:56	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 02:56	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 02:56	1
2-Hexanone	ND		10		ug/L			04/12/14 02:56	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 02:56	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 02:56	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 02:56	1
<b>Acetone</b>	<b>77</b>		50		ug/L			04/12/14 02:56	1
Benzene	ND		1.0		ug/L			04/12/14 02:56	1
Bromobenzene	ND		1.0		ug/L			04/12/14 02:56	1
Bromoform	ND		1.0		ug/L			04/12/14 02:56	1
Bromomethane	ND		2.0		ug/L			04/12/14 02:56	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1010M-20140410-01**

**Lab Sample ID: 480-57719-9**

**Date Collected: 04/10/14 10:25**

**Matrix: Water**

**Date Received: 04/11/14 01:45**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			04/12/14 02:56	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 02:56	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 02:56	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 02:56	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 02:56	1
Chloroethane	ND		2.0		ug/L			04/12/14 02:56	1
Chloroform	ND		1.0		ug/L			04/12/14 02:56	1
Chloromethane	ND		2.0		ug/L			04/12/14 02:56	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 02:56	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 02:56	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 02:56	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 02:56	1
Ethyl ether	ND		1.0		ug/L			04/12/14 02:56	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 02:56	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 02:56	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 02:56	1
Isopropyl ether	ND		10		ug/L			04/12/14 02:56	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 02:56	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 02:56	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 02:56	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 02:56	1
Naphthalene	ND		5.0		ug/L			04/12/14 02:56	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 02:56	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 02:56	1
o-Xylene	ND		1.0		ug/L			04/12/14 02:56	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 02:56	1
Styrene	ND		1.0		ug/L			04/12/14 02:56	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 02:56	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 02:56	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 02:56	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 02:56	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 02:56	1
Toluene	ND		1.0		ug/L			04/12/14 02:56	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 02:56	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 02:56	1
Trichloroethene	ND		1.0		ug/L			04/12/14 02:56	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 02:56	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 02:56	1
Dibromomethane	ND		1.0		ug/L			04/12/14 02:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/12/14 02:56	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		04/12/14 02:56	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/12/14 02:56	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1022-20140410-01**

**Lab Sample ID: 480-57719-10**

Date Collected: 04/10/14 12:35

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 03:20	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 03:20	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 03:20	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 03:20	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 03:20	1
1,1-Dichloroethene	ND		1.0		ug/L			04/12/14 03:20	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 03:20	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 03:20	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 03:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 03:20	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 03:20	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 03:20	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 03:20	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 03:20	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 03:20	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 03:20	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 03:20	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 03:20	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 03:20	1
1,4-Dioxane	ND		50		ug/L			04/12/14 03:20	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 03:20	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 03:20	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 03:20	1
2-Hexanone	ND		10		ug/L			04/12/14 03:20	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 03:20	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 03:20	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 03:20	1
<b>Acetone</b>	<b>79</b>		50		ug/L			04/12/14 03:20	1
Benzene	ND		1.0		ug/L			04/12/14 03:20	1
Bromobenzene	ND		1.0		ug/L			04/12/14 03:20	1
Bromoform	ND		1.0		ug/L			04/12/14 03:20	1
Bromomethane	ND		2.0		ug/L			04/12/14 03:20	1
Carbon disulfide	ND		10		ug/L			04/12/14 03:20	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 03:20	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 03:20	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 03:20	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 03:20	1
Chloroethane	ND		2.0		ug/L			04/12/14 03:20	1
Chloroform	ND		1.0		ug/L			04/12/14 03:20	1
Chloromethane	ND		2.0		ug/L			04/12/14 03:20	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 03:20	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 03:20	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 03:20	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 03:20	1
Ethyl ether	ND		1.0		ug/L			04/12/14 03:20	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 03:20	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 03:20	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 03:20	1
Isopropyl ether	ND		10		ug/L			04/12/14 03:20	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1022-20140410-01**

**Lab Sample ID: 480-57719-10**

**Date Collected: 04/10/14 12:35**

**Matrix: Water**

**Date Received: 04/11/14 01:45**

**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			04/12/14 03:20	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 03:20	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 03:20	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 03:20	1
Naphthalene	ND		5.0		ug/L			04/12/14 03:20	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 03:20	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 03:20	1
o-Xylene	ND		1.0		ug/L			04/12/14 03:20	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 03:20	1
Styrene	ND		1.0		ug/L			04/12/14 03:20	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 03:20	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 03:20	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 03:20	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 03:20	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 03:20	1
Toluene	ND		1.0		ug/L			04/12/14 03:20	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 03:20	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 03:20	1
<b>Trichloroethene</b>	<b>3.0</b>		1.0		ug/L			04/12/14 03:20	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 03:20	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 03:20	1
Dibromomethane	ND		1.0		ug/L			04/12/14 03:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/12/14 03:20	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/12/14 03:20	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/12/14 03:20	1

**Client Sample ID: MW-1019B-20140410-01**

**Lab Sample ID: 480-57719-11**

**Date Collected: 04/10/14 10:10**

**Matrix: Water**

**Date Received: 04/11/14 01:45**

**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			04/12/14 03:44	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 03:44	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 03:44	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 03:44	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 03:44	1
1,1-Dichloroethene	ND		1.0		ug/L			04/12/14 03:44	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 03:44	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 03:44	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 03:44	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 03:44	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 03:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 03:44	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 03:44	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 03:44	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 03:44	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 03:44	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1019B-20140410-01**

**Lab Sample ID: 480-57719-11**

Date Collected: 04/10/14 10:10

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 03:44	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 03:44	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 03:44	1
1,4-Dioxane	ND		50		ug/L			04/12/14 03:44	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 03:44	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 03:44	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 03:44	1
2-Hexanone	ND		10		ug/L			04/12/14 03:44	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 03:44	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 03:44	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 03:44	1
<b>Acetone</b>	<b>79</b>		50		ug/L			04/12/14 03:44	1
Benzene	ND		1.0		ug/L			04/12/14 03:44	1
Bromobenzene	ND		1.0		ug/L			04/12/14 03:44	1
Bromoform	ND		1.0		ug/L			04/12/14 03:44	1
Bromomethane	ND		2.0		ug/L			04/12/14 03:44	1
Carbon disulfide	ND		10		ug/L			04/12/14 03:44	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 03:44	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 03:44	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 03:44	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 03:44	1
Chloroethane	ND		2.0		ug/L			04/12/14 03:44	1
Chloroform	ND		1.0		ug/L			04/12/14 03:44	1
Chloromethane	ND		2.0		ug/L			04/12/14 03:44	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 03:44	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 03:44	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 03:44	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 03:44	1
Ethyl ether	ND		1.0		ug/L			04/12/14 03:44	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 03:44	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 03:44	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 03:44	1
Isopropyl ether	ND		10		ug/L			04/12/14 03:44	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 03:44	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 03:44	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 03:44	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 03:44	1
Naphthalene	ND		5.0		ug/L			04/12/14 03:44	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 03:44	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 03:44	1
o-Xylene	ND		1.0		ug/L			04/12/14 03:44	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 03:44	1
Styrene	ND		1.0		ug/L			04/12/14 03:44	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 03:44	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 03:44	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 03:44	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 03:44	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 03:44	1
Toluene	ND		1.0		ug/L			04/12/14 03:44	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1019B-20140410-01**

**Lab Sample ID: 480-57719-11**

Date Collected: 04/10/14 10:10

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 03:44	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 03:44	1
<b>Trichloroethene</b>	<b>2.1</b>		1.0		ug/L			04/12/14 03:44	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 03:44	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 03:44	1
Dibromomethane	ND		1.0		ug/L			04/12/14 03:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130					04/12/14 03:44	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130					04/12/14 03:44	1
4-Bromofluorobenzene (Surr)	95		70 - 130					04/12/14 03:44	1

**Client Sample ID: MW-1032-20140410-01**

**Lab Sample ID: 480-57719-12**

Date Collected: 04/10/14 11:45

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 04:08	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 04:08	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 04:08	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 04:08	1
<b>1,1-Dichloroethane</b>	<b>1.0</b>		1.0		ug/L			04/12/14 04:08	1
<b>1,1-Dichloroethene</b>	<b>1.9</b>		1.0		ug/L			04/12/14 04:08	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 04:08	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 04:08	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 04:08	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 04:08	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 04:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 04:08	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 04:08	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 04:08	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 04:08	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 04:08	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 04:08	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 04:08	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 04:08	1
1,4-Dioxane	ND		50		ug/L			04/12/14 04:08	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 04:08	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 04:08	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 04:08	1
2-Hexanone	ND		10		ug/L			04/12/14 04:08	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 04:08	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 04:08	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 04:08	1
Acetone	ND		50		ug/L			04/12/14 04:08	1
Benzene	ND		1.0		ug/L			04/12/14 04:08	1
Bromobenzene	ND		1.0		ug/L			04/12/14 04:08	1
Bromoform	ND		1.0		ug/L			04/12/14 04:08	1
Bromomethane	ND		2.0		ug/L			04/12/14 04:08	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1032-20140410-01**

**Lab Sample ID: 480-57719-12**

Date Collected: 04/10/14 11:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			04/12/14 04:08	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 04:08	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 04:08	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 04:08	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 04:08	1
Chloroethane	ND		2.0		ug/L			04/12/14 04:08	1
Chloroform	ND		1.0		ug/L			04/12/14 04:08	1
Chloromethane	ND		2.0		ug/L			04/12/14 04:08	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 04:08	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 04:08	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 04:08	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 04:08	1
Ethyl ether	ND		1.0		ug/L			04/12/14 04:08	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 04:08	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 04:08	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 04:08	1
Isopropyl ether	ND		10		ug/L			04/12/14 04:08	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 04:08	1
<b>Methyl tert-butyl ether</b>	<b>4.1</b>		1.0		ug/L			04/12/14 04:08	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 04:08	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 04:08	1
Naphthalene	ND		5.0		ug/L			04/12/14 04:08	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 04:08	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 04:08	1
o-Xylene	ND		1.0		ug/L			04/12/14 04:08	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 04:08	1
Styrene	ND		1.0		ug/L			04/12/14 04:08	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 04:08	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 04:08	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 04:08	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 04:08	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 04:08	1
Toluene	ND		1.0		ug/L			04/12/14 04:08	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 04:08	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 04:08	1
<b>Trichloroethene</b>	<b>11</b>		1.0		ug/L			04/12/14 04:08	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 04:08	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 04:08	1
Dibromomethane	ND		1.0		ug/L			04/12/14 04:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/12/14 04:08	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/12/14 04:08	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/12/14 04:08	1

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1017D-20140410-01**

**Lab Sample ID: 480-57719-13**

Date Collected: 04/10/14 09:35

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 04:31	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 04:31	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 04:31	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 04:31	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 04:31	1
1,1-Dichloroethene	ND		1.0		ug/L			04/12/14 04:31	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 04:31	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 04:31	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 04:31	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 04:31	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 04:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 04:31	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 04:31	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 04:31	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 04:31	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 04:31	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 04:31	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 04:31	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 04:31	1
1,4-Dioxane	ND		50		ug/L			04/12/14 04:31	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 04:31	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 04:31	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 04:31	1
2-Hexanone	ND		10		ug/L			04/12/14 04:31	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 04:31	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 04:31	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 04:31	1
<b>Acetone</b>	<b>78</b>		50		ug/L			04/12/14 04:31	1
Benzene	ND		1.0		ug/L			04/12/14 04:31	1
Bromobenzene	ND		1.0		ug/L			04/12/14 04:31	1
Bromoform	ND		1.0		ug/L			04/12/14 04:31	1
Bromomethane	ND		2.0		ug/L			04/12/14 04:31	1
Carbon disulfide	ND		10		ug/L			04/12/14 04:31	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 04:31	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 04:31	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 04:31	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 04:31	1
Chloroethane	ND		2.0		ug/L			04/12/14 04:31	1
Chloroform	ND		1.0		ug/L			04/12/14 04:31	1
Chloromethane	ND		2.0		ug/L			04/12/14 04:31	1
<b>cis-1,2-Dichloroethene</b>	<b>11</b>		1.0		ug/L			04/12/14 04:31	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 04:31	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 04:31	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 04:31	1
Ethyl ether	ND		1.0		ug/L			04/12/14 04:31	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 04:31	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 04:31	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 04:31	1
Isopropyl ether	ND		10		ug/L			04/12/14 04:31	1

TestAmerica Buffalo



# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1017D-20140410-01**

**Lab Sample ID: 480-57719-13**

Date Collected: 04/10/14 09:35

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 04:31	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 04:31	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 04:31	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 04:31	1
Naphthalene	ND		5.0		ug/L			04/12/14 04:31	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 04:31	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 04:31	1
o-Xylene	ND		1.0		ug/L			04/12/14 04:31	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 04:31	1
Styrene	ND		1.0		ug/L			04/12/14 04:31	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 04:31	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 04:31	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 04:31	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 04:31	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 04:31	1
Toluene	ND		1.0		ug/L			04/12/14 04:31	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 04:31	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 04:31	1
<b>Trichloroethene</b>	<b>29</b>		1.0		ug/L			04/12/14 04:31	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 04:31	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 04:31	1
Dibromomethane	ND		1.0		ug/L			04/12/14 04:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/12/14 04:31	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/12/14 04:31	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/12/14 04:31	1

**Client Sample ID: MW-1018-20140410-01**

**Lab Sample ID: 480-57719-14**

Date Collected: 04/10/14 13:30

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 04:55	1
<b>1,1,1-Trichloroethane</b>	<b>42</b>		1.0		ug/L			04/12/14 04:55	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 04:55	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 04:55	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 04:55	1
<b>1,1-Dichloroethene</b>	<b>3.7</b>		1.0		ug/L			04/12/14 04:55	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 04:55	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 04:55	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 04:55	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 04:55	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 04:55	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 04:55	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 04:55	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 04:55	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 04:55	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 04:55	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1018-20140410-01**

**Lab Sample ID: 480-57719-14**

Date Collected: 04/10/14 13:30

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 04:55	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 04:55	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 04:55	1
1,4-Dioxane	ND		50		ug/L			04/12/14 04:55	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 04:55	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 04:55	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 04:55	1
2-Hexanone	ND		10		ug/L			04/12/14 04:55	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 04:55	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 04:55	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 04:55	1
<b>Acetone</b>	<b>81</b>		50		ug/L			04/12/14 04:55	1
Benzene	ND		1.0		ug/L			04/12/14 04:55	1
Bromobenzene	ND		1.0		ug/L			04/12/14 04:55	1
Bromoform	ND		1.0		ug/L			04/12/14 04:55	1
Bromomethane	ND		2.0		ug/L			04/12/14 04:55	1
Carbon disulfide	ND		10		ug/L			04/12/14 04:55	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 04:55	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 04:55	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 04:55	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 04:55	1
Chloroethane	ND		2.0		ug/L			04/12/14 04:55	1
Chloroform	ND		1.0		ug/L			04/12/14 04:55	1
Chloromethane	ND		2.0		ug/L			04/12/14 04:55	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 04:55	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 04:55	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 04:55	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 04:55	1
Ethyl ether	ND		1.0		ug/L			04/12/14 04:55	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 04:55	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 04:55	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 04:55	1
Isopropyl ether	ND		10		ug/L			04/12/14 04:55	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 04:55	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 04:55	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 04:55	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 04:55	1
Naphthalene	ND		5.0		ug/L			04/12/14 04:55	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 04:55	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 04:55	1
o-Xylene	ND		1.0		ug/L			04/12/14 04:55	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 04:55	1
Styrene	ND		1.0		ug/L			04/12/14 04:55	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 04:55	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 04:55	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 04:55	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 04:55	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 04:55	1
Toluene	ND		1.0		ug/L			04/12/14 04:55	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1018-20140410-01**

**Lab Sample ID: 480-57719-14**

Date Collected: 04/10/14 13:30

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 04:55	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 04:55	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 04:55	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 04:55	1
Dibromomethane	ND		1.0		ug/L			04/12/14 04:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/12/14 04:55	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/12/14 04:55	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/12/14 04:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	170		4.0		ug/L			04/14/14 00:58	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/14/14 00:58	4
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		04/14/14 00:58	4
4-Bromofluorobenzene (Surr)	97		70 - 130		04/14/14 00:58	4

**Client Sample ID: MW-1031-20140410-01**

**Lab Sample ID: 480-57719-15**

Date Collected: 04/10/14 10:45

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 05:19	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 05:19	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 05:19	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 05:19	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 05:19	1
1,1-Dichloroethene	ND		1.0		ug/L			04/12/14 05:19	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 05:19	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 05:19	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 05:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 05:19	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 05:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 05:19	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 05:19	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 05:19	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 05:19	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 05:19	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 05:19	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 05:19	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 05:19	1
1,4-Dioxane	ND		50		ug/L			04/12/14 05:19	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 05:19	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 05:19	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 05:19	1
2-Hexanone	ND		10		ug/L			04/12/14 05:19	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1031-20140410-01**

**Lab Sample ID: 480-57719-15**

Date Collected: 04/10/14 10:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 05:19	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 05:19	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 05:19	1
<b>Acetone</b>	<b>79</b>		50		ug/L			04/12/14 05:19	1
Benzene	ND		1.0		ug/L			04/12/14 05:19	1
Bromobenzene	ND		1.0		ug/L			04/12/14 05:19	1
Bromoform	ND		1.0		ug/L			04/12/14 05:19	1
Bromomethane	ND		2.0		ug/L			04/12/14 05:19	1
Carbon disulfide	ND		10		ug/L			04/12/14 05:19	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 05:19	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 05:19	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 05:19	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 05:19	1
Chloroethane	ND		2.0		ug/L			04/12/14 05:19	1
Chloroform	ND		1.0		ug/L			04/12/14 05:19	1
Chloromethane	ND		2.0		ug/L			04/12/14 05:19	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 05:19	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 05:19	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 05:19	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 05:19	1
Ethyl ether	ND		1.0		ug/L			04/12/14 05:19	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 05:19	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 05:19	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 05:19	1
Isopropyl ether	ND		10		ug/L			04/12/14 05:19	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 05:19	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 05:19	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 05:19	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 05:19	1
Naphthalene	ND		5.0		ug/L			04/12/14 05:19	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 05:19	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 05:19	1
o-Xylene	ND		1.0		ug/L			04/12/14 05:19	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 05:19	1
Styrene	ND		1.0		ug/L			04/12/14 05:19	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 05:19	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 05:19	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 05:19	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 05:19	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 05:19	1
Toluene	ND		1.0		ug/L			04/12/14 05:19	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 05:19	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 05:19	1
<b>Trichloroethene</b>	<b>2.9</b>		1.0		ug/L			04/12/14 05:19	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 05:19	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 05:19	1
Dibromomethane	ND		1.0		ug/L			04/12/14 05:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/12/14 05:19	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1031-20140410-01**

**Lab Sample ID: 480-57719-15**

Date Collected: 04/10/14 10:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/12/14 05:19	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/12/14 05:19	1

**Client Sample ID: MW-1008-20140410-01**

**Lab Sample ID: 480-57719-16**

Date Collected: 04/10/14 10:45

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 05:43	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 05:43	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 05:43	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 05:43	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 05:43	1
1,1-Dichloroethene	ND		1.0		ug/L			04/12/14 05:43	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 05:43	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 05:43	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 05:43	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 05:43	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 05:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 05:43	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 05:43	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 05:43	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 05:43	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 05:43	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 05:43	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 05:43	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 05:43	1
1,4-Dioxane	ND		50		ug/L			04/12/14 05:43	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 05:43	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 05:43	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 05:43	1
2-Hexanone	ND		10		ug/L			04/12/14 05:43	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 05:43	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 05:43	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 05:43	1
<b>Acetone</b>	<b>83</b>		50		ug/L			04/12/14 05:43	1
Benzene	ND		1.0		ug/L			04/12/14 05:43	1
Bromobenzene	ND		1.0		ug/L			04/12/14 05:43	1
Bromoform	ND		1.0		ug/L			04/12/14 05:43	1
Bromomethane	ND		2.0		ug/L			04/12/14 05:43	1
Carbon disulfide	ND		10		ug/L			04/12/14 05:43	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 05:43	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 05:43	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 05:43	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 05:43	1
Chloroethane	ND		2.0		ug/L			04/12/14 05:43	1
Chloroform	ND		1.0		ug/L			04/12/14 05:43	1
Chloromethane	ND		2.0		ug/L			04/12/14 05:43	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1008-20140410-01**

**Lab Sample ID: 480-57719-16**

Date Collected: 04/10/14 10:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 05:43	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 05:43	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 05:43	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 05:43	1
Ethyl ether	ND		1.0		ug/L			04/12/14 05:43	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 05:43	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 05:43	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 05:43	1
Isopropyl ether	ND		10		ug/L			04/12/14 05:43	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 05:43	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 05:43	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 05:43	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 05:43	1
Naphthalene	ND		5.0		ug/L			04/12/14 05:43	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 05:43	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 05:43	1
o-Xylene	ND		1.0		ug/L			04/12/14 05:43	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 05:43	1
Styrene	ND		1.0		ug/L			04/12/14 05:43	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 05:43	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 05:43	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 05:43	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 05:43	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 05:43	1
Toluene	ND		1.0		ug/L			04/12/14 05:43	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 05:43	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 05:43	1
<b>Trichloroethene</b>	<b>3.1</b>		1.0		ug/L			04/12/14 05:43	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 05:43	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 05:43	1
Dibromomethane	ND		1.0		ug/L			04/12/14 05:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/12/14 05:43	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/12/14 05:43	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/12/14 05:43	1

**Client Sample ID: MW-1025D-20140410-01**

**Lab Sample ID: 480-57719-17**

Date Collected: 04/10/14 09:20

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/14/14 01:22	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 01:22	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 01:22	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 01:22	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 01:22	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 01:22	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 01:22	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1025D-20140410-01**

**Lab Sample ID: 480-57719-17**

Date Collected: 04/10/14 09:20

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 01:22	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 01:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 01:22	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 01:22	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 01:22	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 01:22	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 01:22	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 01:22	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 01:22	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 01:22	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 01:22	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 01:22	1
1,4-Dioxane	ND		50		ug/L			04/14/14 01:22	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 01:22	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 01:22	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 01:22	1
2-Hexanone	ND		10		ug/L			04/14/14 01:22	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 01:22	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 01:22	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 01:22	1
Acetone	ND		50		ug/L			04/14/14 01:22	1
Benzene	ND		1.0		ug/L			04/14/14 01:22	1
Bromobenzene	ND		1.0		ug/L			04/14/14 01:22	1
Bromoform	ND		1.0		ug/L			04/14/14 01:22	1
Bromomethane	ND		2.0		ug/L			04/14/14 01:22	1
Carbon disulfide	ND		10		ug/L			04/14/14 01:22	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 01:22	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 01:22	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 01:22	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 01:22	1
Chloroethane	ND		2.0		ug/L			04/14/14 01:22	1
Chloroform	ND		1.0		ug/L			04/14/14 01:22	1
Chloromethane	ND		2.0		ug/L			04/14/14 01:22	1
<b>cis-1,2-Dichloroethene</b>	<b>25</b>		1.0		ug/L			04/14/14 01:22	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 01:22	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 01:22	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 01:22	1
Ethyl ether	ND		1.0		ug/L			04/14/14 01:22	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 01:22	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 01:22	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 01:22	1
Isopropyl ether	ND		10		ug/L			04/14/14 01:22	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 01:22	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 01:22	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 01:22	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 01:22	1
Naphthalene	ND		5.0		ug/L			04/14/14 01:22	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 01:22	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 01:22	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1025D-20140410-01**

**Lab Sample ID: 480-57719-17**

Date Collected: 04/10/14 09:20

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			04/14/14 01:22	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 01:22	1
Styrene	ND		1.0		ug/L			04/14/14 01:22	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 01:22	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 01:22	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 01:22	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 01:22	1
Tetrahydrofuran	ND	*	10		ug/L			04/14/14 01:22	1
Toluene	ND		1.0		ug/L			04/14/14 01:22	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 01:22	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 01:22	1
Trichloroethene	ND		1.0		ug/L			04/14/14 01:22	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 01:22	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 01:22	1
Dibromomethane	ND		1.0		ug/L			04/14/14 01:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130					04/14/14 01:22	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130					04/14/14 01:22	1
4-Bromofluorobenzene (Surr)	96		70 - 130					04/14/14 01:22	1

**Client Sample ID: MW-1011-20140410-01**

**Lab Sample ID: 480-57719-18**

Date Collected: 04/10/14 14:10

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 06:30	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 06:30	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 06:30	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 06:30	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 06:30	1
1,1-Dichloroethene	ND		1.0		ug/L			04/12/14 06:30	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 06:30	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 06:30	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 06:30	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 06:30	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 06:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 06:30	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 06:30	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 06:30	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 06:30	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 06:30	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 06:30	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 06:30	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 06:30	1
1,4-Dioxane	ND		50		ug/L			04/12/14 06:30	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 06:30	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 06:30	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 06:30	1

TestAmerica Buffalo



# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1011-20140410-01**

**Lab Sample ID: 480-57719-18**

**Date Collected: 04/10/14 14:10**

**Matrix: Water**

**Date Received: 04/11/14 01:45**

**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			04/12/14 06:30	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 06:30	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 06:30	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 06:30	1
<b>Acetone</b>	<b>80</b>		50		ug/L			04/12/14 06:30	1
Benzene	ND		1.0		ug/L			04/12/14 06:30	1
Bromobenzene	ND		1.0		ug/L			04/12/14 06:30	1
Bromoform	ND		1.0		ug/L			04/12/14 06:30	1
Bromomethane	ND		2.0		ug/L			04/12/14 06:30	1
Carbon disulfide	ND		10		ug/L			04/12/14 06:30	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 06:30	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 06:30	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 06:30	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 06:30	1
Chloroethane	ND		2.0		ug/L			04/12/14 06:30	1
Chloroform	ND		1.0		ug/L			04/12/14 06:30	1
Chloromethane	ND		2.0		ug/L			04/12/14 06:30	1
<b>cis-1,2-Dichloroethene</b>	<b>12</b>		1.0		ug/L			04/12/14 06:30	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 06:30	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 06:30	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 06:30	1
Ethyl ether	ND		1.0		ug/L			04/12/14 06:30	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 06:30	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 06:30	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 06:30	1
Isopropyl ether	ND		10		ug/L			04/12/14 06:30	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 06:30	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 06:30	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 06:30	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 06:30	1
Naphthalene	ND		5.0		ug/L			04/12/14 06:30	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 06:30	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 06:30	1
o-Xylene	ND		1.0		ug/L			04/12/14 06:30	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 06:30	1
Styrene	ND		1.0		ug/L			04/12/14 06:30	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 06:30	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 06:30	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 06:30	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 06:30	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 06:30	1
Toluene	ND		1.0		ug/L			04/12/14 06:30	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 06:30	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 06:30	1
<b>Trichloroethene</b>	<b>22</b>		1.0		ug/L			04/12/14 06:30	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 06:30	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 06:30	1
Dibromomethane	ND		1.0		ug/L			04/12/14 06:30	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1011-20140410-01**

**Lab Sample ID: 480-57719-18**

Date Collected: 04/10/14 14:10

Matrix: Water

Date Received: 04/11/14 01:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/12/14 06:30	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/12/14 06:30	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/12/14 06:30	1

**Client Sample ID: MW-1024D-20140410-01**

**Lab Sample ID: 480-57719-19**

Date Collected: 04/10/14 08:30

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/12/14 06:54	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/12/14 06:54	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/12/14 06:54	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/12/14 06:54	1
1,1-Dichloroethane	ND		1.0		ug/L			04/12/14 06:54	1
1,1-Dichloroethene	ND		1.0		ug/L			04/12/14 06:54	1
1,1-Dichloropropene	ND		1.0		ug/L			04/12/14 06:54	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/12/14 06:54	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/12/14 06:54	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/12/14 06:54	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/12/14 06:54	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/12/14 06:54	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/12/14 06:54	1
1,2-Dichloroethane	ND		1.0		ug/L			04/12/14 06:54	1
1,2-Dichloropropane	ND		1.0		ug/L			04/12/14 06:54	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/12/14 06:54	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/12/14 06:54	1
1,3-Dichloropropane	ND		1.0		ug/L			04/12/14 06:54	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/12/14 06:54	1
1,4-Dioxane	ND		50		ug/L			04/12/14 06:54	1
2,2-Dichloropropane	ND		1.0		ug/L			04/12/14 06:54	1
2-Butanone (MEK)	ND		10		ug/L			04/12/14 06:54	1
2-Chlorotoluene	ND		1.0		ug/L			04/12/14 06:54	1
2-Hexanone	ND		10		ug/L			04/12/14 06:54	1
4-Chlorotoluene	ND		1.0		ug/L			04/12/14 06:54	1
4-Isopropyltoluene	ND		1.0		ug/L			04/12/14 06:54	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/12/14 06:54	1
<b>Acetone</b>	<b>85</b>		50		ug/L			04/12/14 06:54	1
Benzene	ND		1.0		ug/L			04/12/14 06:54	1
Bromobenzene	ND		1.0		ug/L			04/12/14 06:54	1
Bromoform	ND		1.0		ug/L			04/12/14 06:54	1
Bromomethane	ND		2.0		ug/L			04/12/14 06:54	1
Carbon disulfide	ND		10		ug/L			04/12/14 06:54	1
Carbon tetrachloride	ND		1.0		ug/L			04/12/14 06:54	1
Chlorobenzene	ND		1.0		ug/L			04/12/14 06:54	1
Chlorobromomethane	ND		1.0		ug/L			04/12/14 06:54	1
Chlorodibromomethane	ND		0.50		ug/L			04/12/14 06:54	1
Chloroethane	ND		2.0		ug/L			04/12/14 06:54	1
Chloroform	ND		1.0		ug/L			04/12/14 06:54	1
Chloromethane	ND		2.0		ug/L			04/12/14 06:54	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1024D-20140410-01**

**Lab Sample ID: 480-57719-19**

Date Collected: 04/10/14 08:30

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>cis-1,2-Dichloroethene</b>	<b>4.2</b>		1.0		ug/L			04/12/14 06:54	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 06:54	1
Dichlorobromomethane	ND		0.50		ug/L			04/12/14 06:54	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/12/14 06:54	1
Ethyl ether	ND		1.0		ug/L			04/12/14 06:54	1
Ethylbenzene	ND		1.0		ug/L			04/12/14 06:54	1
Ethylene Dibromide	ND		1.0		ug/L			04/12/14 06:54	1
Hexachlorobutadiene	ND		0.40		ug/L			04/12/14 06:54	1
Isopropyl ether	ND		10		ug/L			04/12/14 06:54	1
Isopropylbenzene	ND		1.0		ug/L			04/12/14 06:54	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/12/14 06:54	1
Methylene Chloride	ND		1.0		ug/L			04/12/14 06:54	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/12/14 06:54	1
Naphthalene	ND		5.0		ug/L			04/12/14 06:54	1
n-Butylbenzene	ND		1.0		ug/L			04/12/14 06:54	1
N-Propylbenzene	ND		1.0		ug/L			04/12/14 06:54	1
o-Xylene	ND		1.0		ug/L			04/12/14 06:54	1
sec-Butylbenzene	ND		1.0		ug/L			04/12/14 06:54	1
Styrene	ND		1.0		ug/L			04/12/14 06:54	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/12/14 06:54	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/12/14 06:54	1
tert-Butylbenzene	ND		1.0		ug/L			04/12/14 06:54	1
Tetrachloroethene	ND		1.0		ug/L			04/12/14 06:54	1
Tetrahydrofuran	ND		10		ug/L			04/12/14 06:54	1
Toluene	ND		1.0		ug/L			04/12/14 06:54	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/12/14 06:54	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/12/14 06:54	1
<b>Trichloroethene</b>	<b>14</b>		1.0		ug/L			04/12/14 06:54	1
Trichlorofluoromethane	ND		1.0		ug/L			04/12/14 06:54	1
Vinyl chloride	ND		1.0		ug/L			04/12/14 06:54	1
Dibromomethane	ND		1.0		ug/L			04/12/14 06:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/12/14 06:54	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/12/14 06:54	1
4-Bromofluorobenzene (Surr)	94		70 - 130		04/12/14 06:54	1

**Client Sample ID: MW-1020-20140410-01**

**Lab Sample ID: 480-57719-20**

Date Collected: 04/10/14 10:45

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/14/14 01:46	1
<b>1,1,1-Trichloroethane</b>	<b>1.6</b>		1.0		ug/L			04/14/14 01:46	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 01:46	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 01:46	1
<b>1,1-Dichloroethane</b>	<b>1.0</b>		1.0		ug/L			04/14/14 01:46	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 01:46	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 01:46	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1020-20140410-01**

**Lab Sample ID: 480-57719-20**

Date Collected: 04/10/14 10:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 01:46	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 01:46	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 01:46	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 01:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 01:46	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 01:46	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 01:46	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 01:46	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 01:46	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 01:46	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 01:46	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 01:46	1
1,4-Dioxane	ND		50		ug/L			04/14/14 01:46	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 01:46	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 01:46	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 01:46	1
2-Hexanone	ND		10		ug/L			04/14/14 01:46	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 01:46	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 01:46	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 01:46	1
<b>Acetone</b>	<b>81</b>		50		ug/L			04/14/14 01:46	1
Benzene	ND		1.0		ug/L			04/14/14 01:46	1
Bromobenzene	ND		1.0		ug/L			04/14/14 01:46	1
Bromoform	ND		1.0		ug/L			04/14/14 01:46	1
Bromomethane	ND		2.0		ug/L			04/14/14 01:46	1
Carbon disulfide	ND		10		ug/L			04/14/14 01:46	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 01:46	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 01:46	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 01:46	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 01:46	1
Chloroethane	ND		2.0		ug/L			04/14/14 01:46	1
Chloroform	ND		1.0		ug/L			04/14/14 01:46	1
Chloromethane	ND		2.0		ug/L			04/14/14 01:46	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 01:46	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 01:46	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 01:46	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 01:46	1
Ethyl ether	ND		1.0		ug/L			04/14/14 01:46	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 01:46	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 01:46	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 01:46	1
Isopropyl ether	ND		10		ug/L			04/14/14 01:46	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 01:46	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 01:46	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 01:46	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 01:46	1
Naphthalene	ND		5.0		ug/L			04/14/14 01:46	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 01:46	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 01:46	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1020-20140410-01**

**Lab Sample ID: 480-57719-20**

Date Collected: 04/10/14 10:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			04/14/14 01:46	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 01:46	1
Styrene	ND		1.0		ug/L			04/14/14 01:46	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 01:46	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 01:46	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 01:46	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 01:46	1
Tetrahydrofuran	ND	*	10		ug/L			04/14/14 01:46	1
Toluene	ND		1.0		ug/L			04/14/14 01:46	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 01:46	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 01:46	1
<b>Trichloroethene</b>	<b>21</b>		1.0		ug/L			04/14/14 01:46	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 01:46	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 01:46	1
Dibromomethane	ND		1.0		ug/L			04/14/14 01:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130					04/14/14 01:46	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130					04/14/14 01:46	1
4-Bromofluorobenzene (Surr)	97		70 - 130					04/14/14 01:46	1

**Client Sample ID: MW-1034-20140410-01**

**Lab Sample ID: 480-57719-21**

Date Collected: 04/10/14 08:30

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/14/14 02:09	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 02:09	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 02:09	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 02:09	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 02:09	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 02:09	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 02:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 02:09	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 02:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 02:09	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 02:09	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 02:09	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 02:09	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 02:09	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 02:09	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 02:09	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 02:09	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 02:09	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 02:09	1
1,4-Dioxane	ND		50		ug/L			04/14/14 02:09	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 02:09	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 02:09	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 02:09	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1034-20140410-01**

**Lab Sample ID: 480-57719-21**

**Date Collected: 04/10/14 08:30**

**Matrix: Water**

**Date Received: 04/11/14 01:45**

**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			04/14/14 02:09	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 02:09	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 02:09	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 02:09	1
<b>Acetone</b>	<b>81</b>		50		ug/L			04/14/14 02:09	1
Benzene	ND		1.0		ug/L			04/14/14 02:09	1
Bromobenzene	ND		1.0		ug/L			04/14/14 02:09	1
Bromoform	ND		1.0		ug/L			04/14/14 02:09	1
Bromomethane	ND		2.0		ug/L			04/14/14 02:09	1
Carbon disulfide	ND		10		ug/L			04/14/14 02:09	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 02:09	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 02:09	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 02:09	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 02:09	1
Chloroethane	ND		2.0		ug/L			04/14/14 02:09	1
Chloroform	ND		1.0		ug/L			04/14/14 02:09	1
Chloromethane	ND		2.0		ug/L			04/14/14 02:09	1
<b>cis-1,2-Dichloroethene</b>	<b>1.9</b>		1.0		ug/L			04/14/14 02:09	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 02:09	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 02:09	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 02:09	1
Ethyl ether	ND		1.0		ug/L			04/14/14 02:09	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 02:09	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 02:09	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 02:09	1
Isopropyl ether	ND		10		ug/L			04/14/14 02:09	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 02:09	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 02:09	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 02:09	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 02:09	1
Naphthalene	ND		5.0		ug/L			04/14/14 02:09	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 02:09	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 02:09	1
o-Xylene	ND		1.0		ug/L			04/14/14 02:09	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 02:09	1
Styrene	ND		1.0		ug/L			04/14/14 02:09	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 02:09	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 02:09	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 02:09	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 02:09	1
Tetrahydrofuran	ND *		10		ug/L			04/14/14 02:09	1
Toluene	ND		1.0		ug/L			04/14/14 02:09	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 02:09	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 02:09	1
<b>Trichloroethene</b>	<b>5.0</b>		1.0		ug/L			04/14/14 02:09	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 02:09	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 02:09	1
Dibromomethane	ND		1.0		ug/L			04/14/14 02:09	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1034-20140410-01**

**Lab Sample ID: 480-57719-21**

Date Collected: 04/10/14 08:30

Matrix: Water

Date Received: 04/11/14 01:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/14/14 02:09	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		04/14/14 02:09	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/14/14 02:09	1

**Client Sample ID: DUP-004-20140410-01**

**Lab Sample ID: 480-57719-22**

Date Collected: 04/10/14 13:13

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/14/14 02:33	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 02:33	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 02:33	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 02:33	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 02:33	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 02:33	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 02:33	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 02:33	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 02:33	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 02:33	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 02:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 02:33	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 02:33	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 02:33	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 02:33	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 02:33	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 02:33	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 02:33	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 02:33	1
1,4-Dioxane	ND		50		ug/L			04/14/14 02:33	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 02:33	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 02:33	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 02:33	1
2-Hexanone	ND		10		ug/L			04/14/14 02:33	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 02:33	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 02:33	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 02:33	1
<b>Acetone</b>	<b>79</b>		50		ug/L			04/14/14 02:33	1
Benzene	ND		1.0		ug/L			04/14/14 02:33	1
Bromobenzene	ND		1.0		ug/L			04/14/14 02:33	1
Bromoform	ND		1.0		ug/L			04/14/14 02:33	1
Bromomethane	ND		2.0		ug/L			04/14/14 02:33	1
Carbon disulfide	ND		10		ug/L			04/14/14 02:33	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 02:33	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 02:33	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 02:33	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 02:33	1
Chloroethane	ND		2.0		ug/L			04/14/14 02:33	1
Chloroform	ND		1.0		ug/L			04/14/14 02:33	1
Chloromethane	ND		2.0		ug/L			04/14/14 02:33	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: DUP-004-20140410-01**

**Lab Sample ID: 480-57719-22**

Date Collected: 04/10/14 13:13

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 02:33	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 02:33	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 02:33	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 02:33	1
Ethyl ether	ND		1.0		ug/L			04/14/14 02:33	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 02:33	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 02:33	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 02:33	1
Isopropyl ether	ND		10		ug/L			04/14/14 02:33	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 02:33	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 02:33	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 02:33	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 02:33	1
Naphthalene	ND		5.0		ug/L			04/14/14 02:33	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 02:33	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 02:33	1
o-Xylene	ND		1.0		ug/L			04/14/14 02:33	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 02:33	1
Styrene	ND		1.0		ug/L			04/14/14 02:33	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 02:33	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 02:33	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 02:33	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 02:33	1
Tetrahydrofuran	ND	*	10		ug/L			04/14/14 02:33	1
Toluene	ND		1.0		ug/L			04/14/14 02:33	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 02:33	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 02:33	1
Trichloroethene	ND		1.0		ug/L			04/14/14 02:33	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 02:33	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 02:33	1
Dibromomethane	ND		1.0		ug/L			04/14/14 02:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/14/14 02:33	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/14/14 02:33	1
4-Bromofluorobenzene (Surr)	95		70 - 130		04/14/14 02:33	1

**Client Sample ID: MW-1010D-20140410-01**

**Lab Sample ID: 480-57719-23**

Date Collected: 04/10/14 10:00

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/14/14 02:57	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 02:57	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 02:57	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 02:57	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 02:57	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 02:57	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 02:57	1

TestAmerica Buffalo



# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1010D-20140410-01**

**Lab Sample ID: 480-57719-23**

Date Collected: 04/10/14 10:00

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 02:57	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 02:57	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 02:57	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 02:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 02:57	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 02:57	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 02:57	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 02:57	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 02:57	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 02:57	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 02:57	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 02:57	1
1,4-Dioxane	ND		50		ug/L			04/14/14 02:57	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 02:57	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 02:57	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 02:57	1
2-Hexanone	ND		10		ug/L			04/14/14 02:57	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 02:57	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 02:57	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 02:57	1
<b>Acetone</b>	<b>83</b>		50		ug/L			04/14/14 02:57	1
Benzene	ND		1.0		ug/L			04/14/14 02:57	1
Bromobenzene	ND		1.0		ug/L			04/14/14 02:57	1
Bromoform	ND		1.0		ug/L			04/14/14 02:57	1
Bromomethane	ND		2.0		ug/L			04/14/14 02:57	1
Carbon disulfide	ND		10		ug/L			04/14/14 02:57	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 02:57	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 02:57	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 02:57	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 02:57	1
Chloroethane	ND		2.0		ug/L			04/14/14 02:57	1
Chloroform	ND		1.0		ug/L			04/14/14 02:57	1
Chloromethane	ND		2.0		ug/L			04/14/14 02:57	1
<b>cis-1,2-Dichloroethene</b>	<b>1.3</b>		1.0		ug/L			04/14/14 02:57	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 02:57	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 02:57	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 02:57	1
Ethyl ether	ND		1.0		ug/L			04/14/14 02:57	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 02:57	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 02:57	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 02:57	1
Isopropyl ether	ND		10		ug/L			04/14/14 02:57	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 02:57	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 02:57	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 02:57	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 02:57	1
Naphthalene	ND		5.0		ug/L			04/14/14 02:57	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 02:57	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 02:57	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1010D-20140410-01**

**Lab Sample ID: 480-57719-23**

Date Collected: 04/10/14 10:00

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			04/14/14 02:57	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 02:57	1
Styrene	ND		1.0		ug/L			04/14/14 02:57	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 02:57	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 02:57	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 02:57	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 02:57	1
Tetrahydrofuran	ND	*	10		ug/L			04/14/14 02:57	1
Toluene	ND		1.0		ug/L			04/14/14 02:57	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 02:57	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 02:57	1
<b>Trichloroethene</b>	<b>5.3</b>		1.0		ug/L			04/14/14 02:57	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 02:57	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 02:57	1
Dibromomethane	ND		1.0		ug/L			04/14/14 02:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130					04/14/14 02:57	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130					04/14/14 02:57	1
4-Bromofluorobenzene (Surr)	96		70 - 130					04/14/14 02:57	1

**Client Sample ID: MW-1027-20140410-01**

**Lab Sample ID: 480-57719-24**

Date Collected: 04/10/14 09:35

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/14/14 03:21	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 03:21	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 03:21	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 03:21	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 03:21	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 03:21	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 03:21	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 03:21	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 03:21	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 03:21	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 03:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 03:21	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 03:21	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 03:21	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 03:21	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 03:21	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 03:21	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 03:21	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 03:21	1
1,4-Dioxane	ND		50		ug/L			04/14/14 03:21	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 03:21	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 03:21	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 03:21	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1027-20140410-01**

**Lab Sample ID: 480-57719-24**

Date Collected: 04/10/14 09:35

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/14/14 03:21	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 03:21	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 03:21	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 03:21	1
Acetone	ND		50		ug/L			04/14/14 03:21	1
Benzene	ND		1.0		ug/L			04/14/14 03:21	1
Bromobenzene	ND		1.0		ug/L			04/14/14 03:21	1
Bromoform	ND		1.0		ug/L			04/14/14 03:21	1
Bromomethane	ND		2.0		ug/L			04/14/14 03:21	1
Carbon disulfide	ND		10		ug/L			04/14/14 03:21	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 03:21	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 03:21	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 03:21	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 03:21	1
Chloroethane	ND		2.0		ug/L			04/14/14 03:21	1
Chloroform	ND		1.0		ug/L			04/14/14 03:21	1
Chloromethane	ND		2.0		ug/L			04/14/14 03:21	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 03:21	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 03:21	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 03:21	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 03:21	1
Ethyl ether	ND		1.0		ug/L			04/14/14 03:21	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 03:21	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 03:21	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 03:21	1
Isopropyl ether	ND		10		ug/L			04/14/14 03:21	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 03:21	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 03:21	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 03:21	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 03:21	1
Naphthalene	ND		5.0		ug/L			04/14/14 03:21	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 03:21	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 03:21	1
o-Xylene	ND		1.0		ug/L			04/14/14 03:21	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 03:21	1
Styrene	ND		1.0		ug/L			04/14/14 03:21	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 03:21	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 03:21	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 03:21	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 03:21	1
Tetrahydrofuran	ND *		10		ug/L			04/14/14 03:21	1
Toluene	ND		1.0		ug/L			04/14/14 03:21	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 03:21	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 03:21	1
Trichloroethene	ND		1.0		ug/L			04/14/14 03:21	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 03:21	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 03:21	1
Dibromomethane	ND		1.0		ug/L			04/14/14 03:21	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1027-20140410-01**

**Lab Sample ID: 480-57719-24**

Date Collected: 04/10/14 09:35

Matrix: Water

Date Received: 04/11/14 01:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/14/14 03:21	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		04/14/14 03:21	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/14/14 03:21	1

**Client Sample ID: MW-1016D-20140410-01**

**Lab Sample ID: 480-57719-25**

Date Collected: 04/10/14 09:15

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/14/14 03:44	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 03:44	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 03:44	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 03:44	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 03:44	1
<b>1,1-Dichloroethene</b>	<b>1.5</b>		1.0		ug/L			04/14/14 03:44	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 03:44	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 03:44	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 03:44	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 03:44	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 03:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 03:44	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 03:44	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 03:44	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 03:44	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 03:44	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 03:44	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 03:44	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 03:44	1
1,4-Dioxane	ND		50		ug/L			04/14/14 03:44	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 03:44	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 03:44	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 03:44	1
2-Hexanone	ND		10		ug/L			04/14/14 03:44	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 03:44	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 03:44	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 03:44	1
<b>Acetone</b>	<b>80</b>		50		ug/L			04/14/14 03:44	1
Benzene	ND		1.0		ug/L			04/14/14 03:44	1
Bromobenzene	ND		1.0		ug/L			04/14/14 03:44	1
Bromoform	ND		1.0		ug/L			04/14/14 03:44	1
Bromomethane	ND		2.0		ug/L			04/14/14 03:44	1
Carbon disulfide	ND		10		ug/L			04/14/14 03:44	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 03:44	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 03:44	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 03:44	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 03:44	1
Chloroethane	ND		2.0		ug/L			04/14/14 03:44	1
Chloroform	ND		1.0		ug/L			04/14/14 03:44	1
Chloromethane	ND		2.0		ug/L			04/14/14 03:44	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1016D-20140410-01**

**Lab Sample ID: 480-57719-25**

Date Collected: 04/10/14 09:15

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>cis-1,2-Dichloroethene</b>	<b>42</b>		1.0		ug/L			04/14/14 03:44	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 03:44	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 03:44	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 03:44	1
Ethyl ether	ND		1.0		ug/L			04/14/14 03:44	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 03:44	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 03:44	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 03:44	1
Isopropyl ether	ND		10		ug/L			04/14/14 03:44	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 03:44	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 03:44	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 03:44	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 03:44	1
Naphthalene	ND		5.0		ug/L			04/14/14 03:44	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 03:44	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 03:44	1
o-Xylene	ND		1.0		ug/L			04/14/14 03:44	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 03:44	1
Styrene	ND		1.0		ug/L			04/14/14 03:44	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 03:44	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 03:44	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 03:44	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 03:44	1
Tetrahydrofuran	ND *		10		ug/L			04/14/14 03:44	1
Toluene	ND		1.0		ug/L			04/14/14 03:44	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 03:44	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 03:44	1
<b>Trichloroethene</b>	<b>1.1</b>		1.0		ug/L			04/14/14 03:44	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 03:44	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 03:44	1
Dibromomethane	ND		1.0		ug/L			04/14/14 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/14/14 03:44	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		04/14/14 03:44	1
4-Bromofluorobenzene (Surr)	95		70 - 130		04/14/14 03:44	1

**Client Sample ID: MW-1013-20140410-01**

**Lab Sample ID: 480-57719-26**

Date Collected: 04/10/14 08:45

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/14/14 04:08	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 04:08	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 04:08	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 04:08	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 04:08	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 04:08	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 04:08	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1013-20140410-01**

**Lab Sample ID: 480-57719-26**

Date Collected: 04/10/14 08:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 04:08	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 04:08	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 04:08	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 04:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 04:08	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 04:08	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 04:08	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 04:08	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 04:08	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 04:08	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 04:08	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 04:08	1
1,4-Dioxane	ND		50		ug/L			04/14/14 04:08	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 04:08	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 04:08	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 04:08	1
2-Hexanone	ND		10		ug/L			04/14/14 04:08	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 04:08	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 04:08	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 04:08	1
<b>Acetone</b>	<b>87</b>		50		ug/L			04/14/14 04:08	1
Benzene	ND		1.0		ug/L			04/14/14 04:08	1
Bromobenzene	ND		1.0		ug/L			04/14/14 04:08	1
Bromoform	ND		1.0		ug/L			04/14/14 04:08	1
Bromomethane	ND		2.0		ug/L			04/14/14 04:08	1
Carbon disulfide	ND		10		ug/L			04/14/14 04:08	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 04:08	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 04:08	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 04:08	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 04:08	1
Chloroethane	ND		2.0		ug/L			04/14/14 04:08	1
Chloroform	ND		1.0		ug/L			04/14/14 04:08	1
Chloromethane	ND		2.0		ug/L			04/14/14 04:08	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 04:08	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 04:08	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 04:08	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 04:08	1
Ethyl ether	ND		1.0		ug/L			04/14/14 04:08	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 04:08	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 04:08	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 04:08	1
Isopropyl ether	ND		10		ug/L			04/14/14 04:08	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 04:08	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 04:08	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 04:08	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 04:08	1
Naphthalene	ND		5.0		ug/L			04/14/14 04:08	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 04:08	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 04:08	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1013-20140410-01**

**Lab Sample ID: 480-57719-26**

Date Collected: 04/10/14 08:45

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			04/14/14 04:08	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 04:08	1
Styrene	ND		1.0		ug/L			04/14/14 04:08	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 04:08	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 04:08	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 04:08	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 04:08	1
Tetrahydrofuran	ND	*	10		ug/L			04/14/14 04:08	1
Toluene	ND		1.0		ug/L			04/14/14 04:08	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 04:08	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 04:08	1
Trichloroethene	ND		1.0		ug/L			04/14/14 04:08	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 04:08	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 04:08	1
Dibromomethane	ND		1.0		ug/L			04/14/14 04:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130					04/14/14 04:08	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130					04/14/14 04:08	1
4-Bromofluorobenzene (Surr)	96		70 - 130					04/14/14 04:08	1

**Client Sample ID: TB-001-20140410-01**

**Lab Sample ID: 480-57719-27**

Date Collected: 04/10/14 00:00

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/14/14 04:32	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 04:32	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 04:32	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 04:32	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 04:32	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 04:32	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 04:32	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 04:32	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 04:32	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 04:32	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 04:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 04:32	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 04:32	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 04:32	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 04:32	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 04:32	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 04:32	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 04:32	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 04:32	1
1,4-Dioxane	ND		50		ug/L			04/14/14 04:32	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 04:32	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 04:32	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 04:32	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: TB-001-20140410-01**

**Lab Sample ID: 480-57719-27**

**Date Collected: 04/10/14 00:00**

**Matrix: Water**

**Date Received: 04/11/14 01:45**

**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			04/14/14 04:32	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 04:32	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 04:32	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 04:32	1
Acetone	ND		50		ug/L			04/14/14 04:32	1
Benzene	ND		1.0		ug/L			04/14/14 04:32	1
Bromobenzene	ND		1.0		ug/L			04/14/14 04:32	1
Bromoform	ND		1.0		ug/L			04/14/14 04:32	1
Bromomethane	ND		2.0		ug/L			04/14/14 04:32	1
Carbon disulfide	ND		10		ug/L			04/14/14 04:32	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 04:32	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 04:32	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 04:32	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 04:32	1
Chloroethane	ND		2.0		ug/L			04/14/14 04:32	1
Chloroform	ND		1.0		ug/L			04/14/14 04:32	1
Chloromethane	ND		2.0		ug/L			04/14/14 04:32	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 04:32	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 04:32	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 04:32	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 04:32	1
Ethyl ether	ND		1.0		ug/L			04/14/14 04:32	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 04:32	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 04:32	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 04:32	1
Isopropyl ether	ND		10		ug/L			04/14/14 04:32	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 04:32	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 04:32	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 04:32	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 04:32	1
Naphthalene	ND		5.0		ug/L			04/14/14 04:32	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 04:32	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 04:32	1
o-Xylene	ND		1.0		ug/L			04/14/14 04:32	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 04:32	1
Styrene	ND		1.0		ug/L			04/14/14 04:32	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 04:32	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 04:32	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 04:32	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 04:32	1
Tetrahydrofuran	ND *		10		ug/L			04/14/14 04:32	1
Toluene	ND		1.0		ug/L			04/14/14 04:32	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 04:32	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 04:32	1
Trichloroethene	ND		1.0		ug/L			04/14/14 04:32	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 04:32	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 04:32	1
Dibromomethane	ND		1.0		ug/L			04/14/14 04:32	1

TestAmerica Buffalo



# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: TB-001-20140410-01**

**Lab Sample ID: 480-57719-27**

Date Collected: 04/10/14 00:00

Matrix: Water

Date Received: 04/11/14 01:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		04/14/14 04:32	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		04/14/14 04:32	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/14/14 04:32	1

**Client Sample ID: MW-1009-20140410-01**

**Lab Sample ID: 480-57719-28**

Date Collected: 04/10/14 11:30

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/14/14 04:56	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 04:56	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 04:56	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 04:56	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 04:56	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 04:56	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 04:56	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 04:56	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 04:56	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 04:56	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 04:56	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 04:56	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 04:56	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 04:56	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 04:56	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 04:56	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 04:56	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 04:56	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 04:56	1
1,4-Dioxane	ND		50		ug/L			04/14/14 04:56	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 04:56	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 04:56	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 04:56	1
2-Hexanone	ND		10		ug/L			04/14/14 04:56	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 04:56	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 04:56	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 04:56	1
<b>Acetone</b>	<b>83</b>		50		ug/L			04/14/14 04:56	1
Benzene	ND		1.0		ug/L			04/14/14 04:56	1
Bromobenzene	ND		1.0		ug/L			04/14/14 04:56	1
Bromoform	ND		1.0		ug/L			04/14/14 04:56	1
Bromomethane	ND		2.0		ug/L			04/14/14 04:56	1
Carbon disulfide	ND		10		ug/L			04/14/14 04:56	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 04:56	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 04:56	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 04:56	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 04:56	1
Chloroethane	ND		2.0		ug/L			04/14/14 04:56	1
Chloroform	ND		1.0		ug/L			04/14/14 04:56	1
Chloromethane	ND		2.0		ug/L			04/14/14 04:56	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1009-20140410-01**

**Lab Sample ID: 480-57719-28**

Date Collected: 04/10/14 11:30

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 04:56	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 04:56	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 04:56	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 04:56	1
Ethyl ether	ND		1.0		ug/L			04/14/14 04:56	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 04:56	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 04:56	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 04:56	1
Isopropyl ether	ND		10		ug/L			04/14/14 04:56	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 04:56	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 04:56	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 04:56	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 04:56	1
Naphthalene	ND		5.0		ug/L			04/14/14 04:56	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 04:56	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 04:56	1
o-Xylene	ND		1.0		ug/L			04/14/14 04:56	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 04:56	1
Styrene	ND		1.0		ug/L			04/14/14 04:56	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 04:56	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 04:56	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 04:56	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 04:56	1
Tetrahydrofuran	ND	*	10		ug/L			04/14/14 04:56	1
Toluene	ND		1.0		ug/L			04/14/14 04:56	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 04:56	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 04:56	1
Trichloroethene	ND		1.0		ug/L			04/14/14 04:56	1
<b>Trichlorofluoromethane</b>	<b>1.2</b>		1.0		ug/L			04/14/14 04:56	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 04:56	1
Dibromomethane	ND		1.0		ug/L			04/14/14 04:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/14/14 04:56	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		04/14/14 04:56	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/14/14 04:56	1

**Client Sample ID: MW-1006-20140410-01**

**Lab Sample ID: 480-57719-29**

Date Collected: 04/10/14 11:15

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/14/14 05:20	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 05:20	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 05:20	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 05:20	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 05:20	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 05:20	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 05:20	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1006-20140410-01**

**Lab Sample ID: 480-57719-29**

Date Collected: 04/10/14 11:15

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 05:20	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 05:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 05:20	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 05:20	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 05:20	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 05:20	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 05:20	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 05:20	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 05:20	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 05:20	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 05:20	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 05:20	1
1,4-Dioxane	ND		50		ug/L			04/14/14 05:20	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 05:20	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 05:20	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 05:20	1
2-Hexanone	ND		10		ug/L			04/14/14 05:20	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 05:20	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 05:20	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 05:20	1
<b>Acetone</b>	<b>84</b>		50		ug/L			04/14/14 05:20	1
Benzene	ND		1.0		ug/L			04/14/14 05:20	1
Bromobenzene	ND		1.0		ug/L			04/14/14 05:20	1
Bromoform	ND		1.0		ug/L			04/14/14 05:20	1
Bromomethane	ND		2.0		ug/L			04/14/14 05:20	1
Carbon disulfide	ND		10		ug/L			04/14/14 05:20	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 05:20	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 05:20	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 05:20	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 05:20	1
Chloroethane	ND		2.0		ug/L			04/14/14 05:20	1
Chloroform	ND		1.0		ug/L			04/14/14 05:20	1
Chloromethane	ND		2.0		ug/L			04/14/14 05:20	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 05:20	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 05:20	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 05:20	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 05:20	1
Ethyl ether	ND		1.0		ug/L			04/14/14 05:20	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 05:20	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 05:20	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 05:20	1
Isopropyl ether	ND		10		ug/L			04/14/14 05:20	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 05:20	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 05:20	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 05:20	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 05:20	1
Naphthalene	ND		5.0		ug/L			04/14/14 05:20	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 05:20	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 05:20	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1006-20140410-01**

**Lab Sample ID: 480-57719-29**

Date Collected: 04/10/14 11:15

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			04/14/14 05:20	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 05:20	1
Styrene	ND		1.0		ug/L			04/14/14 05:20	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 05:20	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 05:20	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 05:20	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 05:20	1
Tetrahydrofuran	ND	*	10		ug/L			04/14/14 05:20	1
Toluene	ND		1.0		ug/L			04/14/14 05:20	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 05:20	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 05:20	1
Trichloroethene	ND		1.0		ug/L			04/14/14 05:20	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 05:20	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 05:20	1
Dibromomethane	ND		1.0		ug/L			04/14/14 05:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130					04/14/14 05:20	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130					04/14/14 05:20	1
4-Bromofluorobenzene (Surr)	97		70 - 130					04/14/14 05:20	1

**Client Sample ID: MW-1005-20140410-01**

**Lab Sample ID: 480-57719-30**

Date Collected: 04/10/14 11:50

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/14/14 05:44	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 05:44	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 05:44	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 05:44	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 05:44	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 05:44	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 05:44	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 05:44	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 05:44	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 05:44	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 05:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 05:44	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 05:44	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 05:44	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 05:44	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 05:44	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 05:44	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 05:44	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 05:44	1
1,4-Dioxane	ND		50		ug/L			04/14/14 05:44	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 05:44	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 05:44	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 05:44	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1005-20140410-01**

**Lab Sample ID: 480-57719-30**

**Date Collected: 04/10/14 11:50**

**Matrix: Water**

**Date Received: 04/11/14 01:45**

**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			04/14/14 05:44	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 05:44	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 05:44	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 05:44	1
<b>Acetone</b>	<b>84</b>		50		ug/L			04/14/14 05:44	1
Benzene	ND		1.0		ug/L			04/14/14 05:44	1
Bromobenzene	ND		1.0		ug/L			04/14/14 05:44	1
Bromoform	ND		1.0		ug/L			04/14/14 05:44	1
Bromomethane	ND		2.0		ug/L			04/14/14 05:44	1
Carbon disulfide	ND		10		ug/L			04/14/14 05:44	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 05:44	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 05:44	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 05:44	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 05:44	1
Chloroethane	ND		2.0		ug/L			04/14/14 05:44	1
Chloroform	ND		1.0		ug/L			04/14/14 05:44	1
Chloromethane	ND		2.0		ug/L			04/14/14 05:44	1
<b>cis-1,2-Dichloroethene</b>	<b>3.6</b>		1.0		ug/L			04/14/14 05:44	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 05:44	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 05:44	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 05:44	1
Ethyl ether	ND		1.0		ug/L			04/14/14 05:44	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 05:44	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 05:44	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 05:44	1
Isopropyl ether	ND		10		ug/L			04/14/14 05:44	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 05:44	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 05:44	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 05:44	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 05:44	1
Naphthalene	ND		5.0		ug/L			04/14/14 05:44	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 05:44	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 05:44	1
o-Xylene	ND		1.0		ug/L			04/14/14 05:44	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 05:44	1
Styrene	ND		1.0		ug/L			04/14/14 05:44	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 05:44	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 05:44	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 05:44	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 05:44	1
Tetrahydrofuran	ND *		10		ug/L			04/14/14 05:44	1
Toluene	ND		1.0		ug/L			04/14/14 05:44	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 05:44	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 05:44	1
<b>Trichloroethene</b>	<b>13</b>		1.0		ug/L			04/14/14 05:44	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 05:44	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 05:44	1
Dibromomethane	ND		1.0		ug/L			04/14/14 05:44	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1005-20140410-01**

**Lab Sample ID: 480-57719-30**

Date Collected: 04/10/14 11:50

Matrix: Water

Date Received: 04/11/14 01:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		04/14/14 05:44	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		04/14/14 05:44	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/14/14 05:44	1

**Client Sample ID: MW-1004-20140410-01**

**Lab Sample ID: 480-57719-31**

Date Collected: 04/10/14 12:00

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/14/14 06:07	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 06:07	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 06:07	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 06:07	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 06:07	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 06:07	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 06:07	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 06:07	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 06:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 06:07	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 06:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 06:07	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 06:07	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 06:07	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 06:07	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 06:07	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 06:07	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 06:07	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 06:07	1
1,4-Dioxane	ND		50		ug/L			04/14/14 06:07	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 06:07	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 06:07	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 06:07	1
2-Hexanone	ND		10		ug/L			04/14/14 06:07	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 06:07	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 06:07	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 06:07	1
<b>Acetone</b>	<b>82</b>		50		ug/L			04/14/14 06:07	1
Benzene	ND		1.0		ug/L			04/14/14 06:07	1
Bromobenzene	ND		1.0		ug/L			04/14/14 06:07	1
Bromoform	ND		1.0		ug/L			04/14/14 06:07	1
Bromomethane	ND		2.0		ug/L			04/14/14 06:07	1
Carbon disulfide	ND		10		ug/L			04/14/14 06:07	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 06:07	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 06:07	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 06:07	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 06:07	1
Chloroethane	ND		2.0		ug/L			04/14/14 06:07	1
Chloroform	ND		1.0		ug/L			04/14/14 06:07	1
Chloromethane	ND		2.0		ug/L			04/14/14 06:07	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1004-20140410-01**

**Lab Sample ID: 480-57719-31**

Date Collected: 04/10/14 12:00

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 06:07	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 06:07	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 06:07	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 06:07	1
Ethyl ether	ND		1.0		ug/L			04/14/14 06:07	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 06:07	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 06:07	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 06:07	1
Isopropyl ether	ND		10		ug/L			04/14/14 06:07	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 06:07	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 06:07	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 06:07	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 06:07	1
Naphthalene	ND		5.0		ug/L			04/14/14 06:07	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 06:07	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 06:07	1
o-Xylene	ND		1.0		ug/L			04/14/14 06:07	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 06:07	1
Styrene	ND		1.0		ug/L			04/14/14 06:07	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 06:07	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 06:07	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 06:07	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 06:07	1
Tetrahydrofuran	ND *		10		ug/L			04/14/14 06:07	1
Toluene	ND		1.0		ug/L			04/14/14 06:07	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 06:07	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 06:07	1
Trichloroethene	ND		1.0		ug/L			04/14/14 06:07	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 06:07	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 06:07	1
Dibromomethane	ND		1.0		ug/L			04/14/14 06:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/14/14 06:07	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/14/14 06:07	1
4-Bromofluorobenzene (Surr)	94		70 - 130		04/14/14 06:07	1

**Client Sample ID: DUP-001-20140410-01**

**Lab Sample ID: 480-57719-32**

Date Collected: 04/10/14 11:11

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/15/14 00:55	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/15/14 00:55	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/15/14 00:55	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/15/14 00:55	1
1,1-Dichloroethane	ND		1.0		ug/L			04/15/14 00:55	1
1,1-Dichloroethene	ND		1.0		ug/L			04/15/14 00:55	1
1,1-Dichloropropene	ND		1.0		ug/L			04/15/14 00:55	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: DUP-001-20140410-01**

**Lab Sample ID: 480-57719-32**

**Date Collected: 04/10/14 11:11**

**Matrix: Water**

**Date Received: 04/11/14 01:45**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/15/14 00:55	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/15/14 00:55	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/15/14 00:55	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/15/14 00:55	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/15/14 00:55	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/15/14 00:55	1
1,2-Dichloroethane	ND		1.0		ug/L			04/15/14 00:55	1
1,2-Dichloropropane	ND		1.0		ug/L			04/15/14 00:55	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/15/14 00:55	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/15/14 00:55	1
1,3-Dichloropropane	ND		1.0		ug/L			04/15/14 00:55	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/15/14 00:55	1
1,4-Dioxane	ND		50		ug/L			04/15/14 00:55	1
2,2-Dichloropropane	ND		1.0		ug/L			04/15/14 00:55	1
2-Butanone (MEK)	ND		10		ug/L			04/15/14 00:55	1
2-Chlorotoluene	ND		1.0		ug/L			04/15/14 00:55	1
2-Hexanone	ND		10		ug/L			04/15/14 00:55	1
4-Chlorotoluene	ND		1.0		ug/L			04/15/14 00:55	1
4-Isopropyltoluene	ND		1.0		ug/L			04/15/14 00:55	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/15/14 00:55	1
<b>Acetone</b>	<b>83</b>		50		ug/L			04/15/14 00:55	1
Benzene	ND		1.0		ug/L			04/15/14 00:55	1
Bromobenzene	ND		1.0		ug/L			04/15/14 00:55	1
Bromoform	ND		1.0		ug/L			04/15/14 00:55	1
Bromomethane	ND		2.0		ug/L			04/15/14 00:55	1
Carbon disulfide	ND		10		ug/L			04/15/14 00:55	1
Carbon tetrachloride	ND		1.0		ug/L			04/15/14 00:55	1
Chlorobenzene	ND		1.0		ug/L			04/15/14 00:55	1
Chlorobromomethane	ND		1.0		ug/L			04/15/14 00:55	1
Chlorodibromomethane	ND		0.50		ug/L			04/15/14 00:55	1
Chloroethane	ND		2.0		ug/L			04/15/14 00:55	1
Chloroform	ND		1.0		ug/L			04/15/14 00:55	1
Chloromethane	ND		2.0		ug/L			04/15/14 00:55	1
<b>cis-1,2-Dichloroethene</b>	<b>3.6</b>		1.0		ug/L			04/15/14 00:55	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/15/14 00:55	1
Dichlorobromomethane	ND		0.50		ug/L			04/15/14 00:55	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/15/14 00:55	1
Ethyl ether	ND		1.0		ug/L			04/15/14 00:55	1
Ethylbenzene	ND		1.0		ug/L			04/15/14 00:55	1
Ethylene Dibromide	ND		1.0		ug/L			04/15/14 00:55	1
Hexachlorobutadiene	ND		0.40		ug/L			04/15/14 00:55	1
Isopropyl ether	ND		10		ug/L			04/15/14 00:55	1
Isopropylbenzene	ND		1.0		ug/L			04/15/14 00:55	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/15/14 00:55	1
Methylene Chloride	ND		1.0		ug/L			04/15/14 00:55	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/15/14 00:55	1
Naphthalene	ND		5.0		ug/L			04/15/14 00:55	1
n-Butylbenzene	ND		1.0		ug/L			04/15/14 00:55	1
N-Propylbenzene	ND		1.0		ug/L			04/15/14 00:55	1

TestAmerica Buffalo



# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: DUP-001-20140410-01**

**Lab Sample ID: 480-57719-32**

Date Collected: 04/10/14 11:11

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			04/15/14 00:55	1
sec-Butylbenzene	ND		1.0		ug/L			04/15/14 00:55	1
Styrene	ND		1.0		ug/L			04/15/14 00:55	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/15/14 00:55	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/15/14 00:55	1
tert-Butylbenzene	ND		1.0		ug/L			04/15/14 00:55	1
Tetrachloroethene	ND		1.0		ug/L			04/15/14 00:55	1
Tetrahydrofuran	ND		10		ug/L			04/15/14 00:55	1
Toluene	ND		1.0		ug/L			04/15/14 00:55	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/15/14 00:55	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/15/14 00:55	1
<b>Trichloroethene</b>	<b>12</b>		1.0		ug/L			04/15/14 00:55	1
Trichlorofluoromethane	ND		1.0		ug/L			04/15/14 00:55	1
Vinyl chloride	ND		1.0		ug/L			04/15/14 00:55	1
Dibromomethane	ND		1.0		ug/L			04/15/14 00:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130					04/15/14 00:55	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130					04/15/14 00:55	1
4-Bromofluorobenzene (Surr)	99		70 - 130					04/15/14 00:55	1

**Client Sample ID: MW-1002B-20140410-01**

**Lab Sample ID: 480-57719-33**

Date Collected: 04/10/14 12:30

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/14/14 06:55	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/14/14 06:55	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/14/14 06:55	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/14/14 06:55	1
1,1-Dichloroethane	ND		1.0		ug/L			04/14/14 06:55	1
1,1-Dichloroethene	ND		1.0		ug/L			04/14/14 06:55	1
1,1-Dichloropropene	ND		1.0		ug/L			04/14/14 06:55	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/14/14 06:55	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/14/14 06:55	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/14/14 06:55	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/14/14 06:55	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/14/14 06:55	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/14/14 06:55	1
1,2-Dichloroethane	ND		1.0		ug/L			04/14/14 06:55	1
1,2-Dichloropropane	ND		1.0		ug/L			04/14/14 06:55	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/14/14 06:55	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/14/14 06:55	1
1,3-Dichloropropane	ND		1.0		ug/L			04/14/14 06:55	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/14/14 06:55	1
1,4-Dioxane	ND		50		ug/L			04/14/14 06:55	1
2,2-Dichloropropane	ND		1.0		ug/L			04/14/14 06:55	1
2-Butanone (MEK)	ND		10		ug/L			04/14/14 06:55	1
2-Chlorotoluene	ND		1.0		ug/L			04/14/14 06:55	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1002B-20140410-01**

**Lab Sample ID: 480-57719-33**

Date Collected: 04/10/14 12:30

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/14/14 06:55	1
4-Chlorotoluene	ND		1.0		ug/L			04/14/14 06:55	1
4-Isopropyltoluene	ND		1.0		ug/L			04/14/14 06:55	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/14/14 06:55	1
<b>Acetone</b>	<b>87</b>		50		ug/L			04/14/14 06:55	1
Benzene	ND		1.0		ug/L			04/14/14 06:55	1
Bromobenzene	ND		1.0		ug/L			04/14/14 06:55	1
Bromoform	ND		1.0		ug/L			04/14/14 06:55	1
Bromomethane	ND		2.0		ug/L			04/14/14 06:55	1
Carbon disulfide	ND		10		ug/L			04/14/14 06:55	1
Carbon tetrachloride	ND		1.0		ug/L			04/14/14 06:55	1
Chlorobenzene	ND		1.0		ug/L			04/14/14 06:55	1
Chlorobromomethane	ND		1.0		ug/L			04/14/14 06:55	1
Chlorodibromomethane	ND		0.50		ug/L			04/14/14 06:55	1
Chloroethane	ND		2.0		ug/L			04/14/14 06:55	1
Chloroform	ND		1.0		ug/L			04/14/14 06:55	1
Chloromethane	ND		2.0		ug/L			04/14/14 06:55	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 06:55	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 06:55	1
Dichlorobromomethane	ND		0.50		ug/L			04/14/14 06:55	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/14/14 06:55	1
Ethyl ether	ND		1.0		ug/L			04/14/14 06:55	1
Ethylbenzene	ND		1.0		ug/L			04/14/14 06:55	1
Ethylene Dibromide	ND		1.0		ug/L			04/14/14 06:55	1
Hexachlorobutadiene	ND		0.40		ug/L			04/14/14 06:55	1
Isopropyl ether	ND		10		ug/L			04/14/14 06:55	1
Isopropylbenzene	ND		1.0		ug/L			04/14/14 06:55	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/14/14 06:55	1
Methylene Chloride	ND		1.0		ug/L			04/14/14 06:55	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/14/14 06:55	1
Naphthalene	ND		5.0		ug/L			04/14/14 06:55	1
n-Butylbenzene	ND		1.0		ug/L			04/14/14 06:55	1
N-Propylbenzene	ND		1.0		ug/L			04/14/14 06:55	1
o-Xylene	ND		1.0		ug/L			04/14/14 06:55	1
sec-Butylbenzene	ND		1.0		ug/L			04/14/14 06:55	1
Styrene	ND		1.0		ug/L			04/14/14 06:55	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/14/14 06:55	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/14/14 06:55	1
tert-Butylbenzene	ND		1.0		ug/L			04/14/14 06:55	1
Tetrachloroethene	ND		1.0		ug/L			04/14/14 06:55	1
Tetrahydrofuran	ND *		10		ug/L			04/14/14 06:55	1
Toluene	ND		1.0		ug/L			04/14/14 06:55	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/14/14 06:55	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/14/14 06:55	1
Trichloroethene	ND		1.0		ug/L			04/14/14 06:55	1
Trichlorofluoromethane	ND		1.0		ug/L			04/14/14 06:55	1
Vinyl chloride	ND		1.0		ug/L			04/14/14 06:55	1
Dibromomethane	ND		1.0		ug/L			04/14/14 06:55	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1002B-20140410-01**

**Lab Sample ID: 480-57719-33**

Date Collected: 04/10/14 12:30

Matrix: Water

Date Received: 04/11/14 01:45

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/14/14 06:55	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/14/14 06:55	1
4-Bromofluorobenzene (Surr)	95		70 - 130		04/14/14 06:55	1

**Client Sample ID: MW-1003-20140410-01**

**Lab Sample ID: 480-57719-34**

Date Collected: 04/10/14 13:15

Matrix: Water

Date Received: 04/11/14 01:45

**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			04/15/14 01:19	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/15/14 01:19	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/15/14 01:19	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/15/14 01:19	1
1,1-Dichloroethane	ND		1.0		ug/L			04/15/14 01:19	1
1,1-Dichloroethene	ND		1.0		ug/L			04/15/14 01:19	1
1,1-Dichloropropene	ND		1.0		ug/L			04/15/14 01:19	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/15/14 01:19	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/15/14 01:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/15/14 01:19	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/15/14 01:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/15/14 01:19	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/15/14 01:19	1
1,2-Dichloroethane	ND		1.0		ug/L			04/15/14 01:19	1
1,2-Dichloropropane	ND		1.0		ug/L			04/15/14 01:19	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/15/14 01:19	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/15/14 01:19	1
1,3-Dichloropropane	ND		1.0		ug/L			04/15/14 01:19	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/15/14 01:19	1
1,4-Dioxane	ND		50		ug/L			04/15/14 01:19	1
2,2-Dichloropropane	ND		1.0		ug/L			04/15/14 01:19	1
2-Butanone (MEK)	ND		10		ug/L			04/15/14 01:19	1
2-Chlorotoluene	ND		1.0		ug/L			04/15/14 01:19	1
2-Hexanone	ND		10		ug/L			04/15/14 01:19	1
4-Chlorotoluene	ND		1.0		ug/L			04/15/14 01:19	1
4-Isopropyltoluene	ND		1.0		ug/L			04/15/14 01:19	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/15/14 01:19	1
<b>Acetone</b>	<b>80</b>		50		ug/L			04/15/14 01:19	1
Benzene	ND		1.0		ug/L			04/15/14 01:19	1
Bromobenzene	ND		1.0		ug/L			04/15/14 01:19	1
Bromoform	ND		1.0		ug/L			04/15/14 01:19	1
Bromomethane	ND		2.0		ug/L			04/15/14 01:19	1
Carbon disulfide	ND		10		ug/L			04/15/14 01:19	1
Carbon tetrachloride	ND		1.0		ug/L			04/15/14 01:19	1
Chlorobenzene	ND		1.0		ug/L			04/15/14 01:19	1
Chlorobromomethane	ND		1.0		ug/L			04/15/14 01:19	1
Chlorodibromomethane	ND		0.50		ug/L			04/15/14 01:19	1
Chloroethane	ND		2.0		ug/L			04/15/14 01:19	1
Chloroform	ND		1.0		ug/L			04/15/14 01:19	1
Chloromethane	ND		2.0		ug/L			04/15/14 01:19	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1003-20140410-01**

**Lab Sample ID: 480-57719-34**

Date Collected: 04/10/14 13:15

Matrix: Water

Date Received: 04/11/14 01:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>cis-1,2-Dichloroethene</b>	<b>3.3</b>		1.0		ug/L			04/15/14 01:19	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/15/14 01:19	1
Dichlorobromomethane	ND		0.50		ug/L			04/15/14 01:19	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/15/14 01:19	1
Ethyl ether	ND		1.0		ug/L			04/15/14 01:19	1
Ethylbenzene	ND		1.0		ug/L			04/15/14 01:19	1
Ethylene Dibromide	ND		1.0		ug/L			04/15/14 01:19	1
Hexachlorobutadiene	ND		0.40		ug/L			04/15/14 01:19	1
Isopropyl ether	ND		10		ug/L			04/15/14 01:19	1
Isopropylbenzene	ND		1.0		ug/L			04/15/14 01:19	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/15/14 01:19	1
Methylene Chloride	ND		1.0		ug/L			04/15/14 01:19	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/15/14 01:19	1
Naphthalene	ND		5.0		ug/L			04/15/14 01:19	1
n-Butylbenzene	ND		1.0		ug/L			04/15/14 01:19	1
N-Propylbenzene	ND		1.0		ug/L			04/15/14 01:19	1
o-Xylene	ND		1.0		ug/L			04/15/14 01:19	1
sec-Butylbenzene	ND		1.0		ug/L			04/15/14 01:19	1
Styrene	ND		1.0		ug/L			04/15/14 01:19	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/15/14 01:19	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/15/14 01:19	1
tert-Butylbenzene	ND		1.0		ug/L			04/15/14 01:19	1
Tetrachloroethene	ND		1.0		ug/L			04/15/14 01:19	1
Tetrahydrofuran	ND		10		ug/L			04/15/14 01:19	1
Toluene	ND		1.0		ug/L			04/15/14 01:19	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/15/14 01:19	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/15/14 01:19	1
<b>Trichloroethene</b>	<b>5.2</b>		1.0		ug/L			04/15/14 01:19	1
Trichlorofluoromethane	ND		1.0		ug/L			04/15/14 01:19	1
Vinyl chloride	ND		1.0		ug/L			04/15/14 01:19	1
Dibromomethane	ND		1.0		ug/L			04/15/14 01:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/15/14 01:19	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/15/14 01:19	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/15/14 01:19	1

# Surrogate Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (70-130)	12DCE (70-130)	BFB (70-130)
480-57719-1	MW-1030-20140410-01	99	103	97
480-57719-2	MW-1028-20140410-01	100	105	96
480-57719-3	MW-1025M-20140410-01	97	101	95
480-57719-4	DUP-003-20140410-01	100	103	95
480-57719-5	MW-1015D-20140410-01	101	103	98
480-57719-6	MW-1033-20140410-01	99	103	93
480-57719-7	DUP-002-20140410-01	100	102	96
480-57719-8	MW-1023-20140410-01	100	102	96
480-57719-9	MW-1010M-20140410-01	98	100	99
480-57719-10	MW-1022-20140410-01	99	103	96
480-57719-11	MW-1019B-20140410-01	98	102	95
480-57719-12	MW-1032-20140410-01	100	103	96
480-57719-13	MW-1017D-20140410-01	100	103	96
480-57719-14	MW-1018-20140410-01	99	105	98
480-57719-14 - DL	MW-1018-20140410-01	98	107	97
480-57719-15	MW-1031-20140410-01	99	104	97
480-57719-16	MW-1008-20140410-01	100	103	96
480-57719-17	MW-1025D-20140410-01	101	107	96
480-57719-18	MW-1011-20140410-01	98	104	97
480-57719-19	MW-1024D-20140410-01	99	104	94
480-57719-20	MW-1020-20140410-01	96	104	97
480-57719-21	MW-1034-20140410-01	98	107	96
480-57719-22	DUP-004-20140410-01	100	105	95
480-57719-23	MW-1010D-20140410-01	97	107	96
480-57719-24	MW-1027-20140410-01	99	107	97
480-57719-25	MW-1016D-20140410-01	98	108	95
480-57719-26	MW-1013-20140410-01	100	107	96
480-57719-27	TB-001-20140410-01	97	108	99
480-57719-28	MW-1009-20140410-01	98	107	96
480-57719-29	MW-1006-20140410-01	98	111	97
480-57719-30	MW-1005-20140410-01	101	108	99
480-57719-31	MW-1004-20140410-01	98	110	94
480-57719-32	DUP-001-20140410-01	100	103	99
480-57719-33	MW-1002B-20140410-01	100	111	95
480-57719-34	MW-1003-20140410-01	98	104	99
LCS 480-175358/5	Lab Control Sample	98	101	99
LCS 480-175485/6	Lab Control Sample	98	105	99
LCS 480-175755/4	Lab Control Sample	99	101	103
LCSD 480-175358/6	Lab Control Sample Dup	99	101	98
LCSD 480-175485/7	Lab Control Sample Dup	96	106	96
LCSD 480-175755/5	Lab Control Sample Dup	98	105	100
MB 480-175358/8	Method Blank	101	102	99
MB 480-175485/9	Method Blank	99	105	96
MB 480-175755/7	Method Blank	99	104	97

### Surrogate Legend

TOL = Toluene-d8 (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TestAmerica Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

**Lab Sample ID: MB 480-175358/8**

**Matrix: Water**

**Analysis Batch: 175358**

**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			04/11/14 23:23	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/11/14 23:23	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/11/14 23:23	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/11/14 23:23	1
1,1-Dichloroethane	ND		1.0		ug/L			04/11/14 23:23	1
1,1-Dichloroethene	ND		1.0		ug/L			04/11/14 23:23	1
1,1-Dichloro6ro6ene	ND		1.0		ug/L			04/11/14 23:23	1
1,2,3-Trichlorobepene	ND		1.0		ug/L			04/11/14 23:23	1
1,2,3-Trichloro6ro6ane	ND		1.0		ug/L			04/11/14 23:23	1
1,2,4-Trichlorobepene	ND		1.0		ug/L			04/11/14 23:23	1
1,2,4-Trimethylbepene	ND		1.0		ug/L			04/11/14 23:23	1
1,2-Dibromo-3-Chloro6ro6ane	ND		5.0		ug/L			04/11/14 23:23	1
1,2-Dichlorobepene	ND		1.0		ug/L			04/11/14 23:23	1
1,2-Dichloroethane	ND		1.0		ug/L			04/11/14 23:23	1
1,2-Dichloro6ro6ane	ND		1.0		ug/L			04/11/14 23:23	1
1,3,5-Trimethylbepene	ND		1.0		ug/L			04/11/14 23:23	1
1,3-Dichlorobepene	ND		1.0		ug/L			04/11/14 23:23	1
1,3-Dichloro6ro6ane	ND		1.0		ug/L			04/11/14 23:23	1
1,4-Dichlorobepene	ND		1.0		ug/L			04/11/14 23:23	1
1,4-Diozane	ND		50		ug/L			04/11/14 23:23	1
2,2-Dichloro6ro6ane	ND		1.0		ug/L			04/11/14 23:23	1
2-x utanone BME( K	ND		10		ug/L			04/11/14 23:23	1
2-Chlorotoluene	ND		1.0		ug/L			04/11/14 23:23	1
2-) ezanone	ND		10		ug/L			04/11/14 23:23	1
4-Chlorotoluene	ND		1.0		ug/L			04/11/14 23:23	1
4-Iso6ro6yltoluene	ND		1.0		ug/L			04/11/14 23:23	1
4-Methyl-2-6entanone BMlx ( K	ND		10		ug/L			04/11/14 23:23	1
Acetone	ND		50		ug/L			04/11/14 23:23	1
x epene	ND		1.0		ug/L			04/11/14 23:23	1
x romobepene	ND		1.0		ug/L			04/11/14 23:23	1
x romo6orm	ND		1.0		ug/L			04/11/14 23:23	1
x romomethane	ND		2.0		ug/L			04/11/14 23:23	1
Carbon disulfide	ND		10		ug/L			04/11/14 23:23	1
Carbon tetrachloride	ND		1.0		ug/L			04/11/14 23:23	1
Chlorobepene	ND		1.0		ug/L			04/11/14 23:23	1
Chlorobromomethane	ND		1.0		ug/L			04/11/14 23:23	1
Chlorodibromomethane	ND		0.50		ug/L			04/11/14 23:23	1
Chloroethane	ND		2.0		ug/L			04/11/14 23:23	1
Chloro6orm	ND		1.0		ug/L			04/11/14 23:23	1
Chloromethane	ND		2.0		ug/L			04/11/14 23:23	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 23:23	1
cis-1,3-Dichloro6ro6ene	ND		0.40		ug/L			04/11/14 23:23	1
Dichlorobromomethane	ND		0.50		ug/L			04/11/14 23:23	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/11/14 23:23	1
Ethyl ether	ND		1.0		ug/L			04/11/14 23:23	1
Ethylbepene	ND		1.0		ug/L			04/11/14 23:23	1
Ethylene Dibromide	ND		1.0		ug/L			04/11/14 23:23	1
) ezachlorobutadiene	ND		0.40		ug/L			04/11/14 23:23	1

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# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: MB 480-175358/8

Matrix: Water

Analysis Batch: 175358

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iso6ro6yl ether	ND		10		ug/L			04/11/14 23:23	1
Iso6ro6ylbenpene	ND		1.0		ug/L			04/11/14 23:23	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/11/14 23:23	1
Methylene Chloride	ND		1.0		ug/L			04/11/14 23:23	1
m-f ylene X 6-f ylene	ND		2.0		ug/L			04/11/14 23:23	1
Na6hthalene	ND		5.0		ug/L			04/11/14 23:23	1
n-x utylbenpene	ND		1.0		ug/L			04/11/14 23:23	1
N-Pro6ylbenpene	ND		1.0		ug/L			04/11/14 23:23	1
o-f ylene	ND		1.0		ug/L			04/11/14 23:23	1
sec-x utylbenpene	ND		1.0		ug/L			04/11/14 23:23	1
Styrene	ND		1.0		ug/L			04/11/14 23:23	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/11/14 23:23	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/11/14 23:23	1
tert-x utylbenpene	ND		1.0		ug/L			04/11/14 23:23	1
Tetrachloroethene	ND		1.0		ug/L			04/11/14 23:23	1
Tetrahydrothran	ND		10		ug/L			04/11/14 23:23	1
Toluene	ND		1.0		ug/L			04/11/14 23:23	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/11/14 23:23	1
trans-1,3-Dichloro6ro6ene	ND		0.40		ug/L			04/11/14 23:23	1
Trichloroethene	ND		1.0		ug/L			04/11/14 23:23	1
Trichloro6loromethane	ND		1.0		ug/L			04/11/14 23:23	1
&inyl chloride	ND		1.0		ug/L			04/11/14 23:23	1
Dibromomethane	ND		1.0		ug/L			04/11/14 23:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		04/11/14 23:23	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		04/11/14 23:23	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/11/14 23:23	1

Lab Sample ID: LCS 480-175358/5

Matrix: Water

Analysis Batch: 175358

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	24.0		ug/L		9V	70 - 130
1,1,1-Trichloroethane	25.0	23.4		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.8		ug/L		99	70 - 130
1,1,2-Trichloroethane	25.0	25.2		ug/L		101	70 - 130
1,1-Dichloroethane	25.0	23.7		ug/L		95	70 - 130
1,1-Dichloroethene	25.0	23.8		ug/L		95	70 - 130
1,1-Dichloro6ro6ene	25.0	23.5		ug/L		94	70 - 130
1,2,3-Trichlorobenpene	25.0	2V.2		ug/L		105	70 - 130
1,2,3-Trichloro6ro6ane	25.0	25.3		ug/L		101	70 - 130
1,2,4-Trichlorobenpene	25.0	25.7		ug/L		103	70 - 130
1,2,4-Trimethylbenpene	25.0	24.0		ug/L		9V	70 - 130
1,2-Dibromo-3-Chloro6ro6ane	25.0	23.9		ug/L		9V	70 - 130
1,2-Dichlorobenpene	25.0	25.4		ug/L		101	70 - 130
1,2-Dichloroethane	25.0	25.3		ug/L		101	70 - 130

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# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

**Lab Sample ID: LCS 480-175358/5**

**Matrix: Water**

**Analysis Batch: 175358**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloro6ro6ane	25.0	24.9		ug/L		99	70 - 130
1,3,5-Trimethylbenzene	25.0	23.9		ug/L		95	70 - 130
1,3-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130
1,3-Dichloro6ro6ane	25.0	24.7		ug/L		99	70 - 130
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,4-Dioxane	500	431		ug/L		8V	70 - 130
2,2-Dichloro6ro6ane	25.0	21.5		ug/L		8V	70 - 130
2-x utanone BME( K	125	132		ug/L		105	70 - 130
2-Chlorotoluene	25.0	24.0		ug/L		9V	70 - 130
2-) ezanone	125	12V		ug/L		101	70 - 130
4-Chlorotoluene	25.0	22.1		ug/L		88	70 - 130
4-Iso6ro6yltoluene	25.0	24.2		ug/L		97	70 - 130
4-Methyl-2-6entanone BMlx ( K	125	123		ug/L		98	70 - 130
Acetone	125	124		ug/L		99	70 - 130
x enzene	25.0	24.1		ug/L		97	70 - 130
x romobenzene	25.0	24.7		ug/L		99	70 - 130
x romo6orm	25.0	20.V		ug/L		82	70 - 130
x romomethane	25.0	29.V		ug/L		118	70 - 130
Carbon disulfide	25.0	20.3		ug/L		81	70 - 130
Carbon tetrachloride	25.0	23.1		ug/L		92	70 - 130
Chlorobenzene	25.0	24.4		ug/L		97	70 - 130
Chlorobromomethane	25.0	24.0		ug/L		9V	70 - 130
Chlorodibromomethane	24.5	23.V		ug/L		9V	70 - 130
Chloroethane	25.0	28.4		ug/L		114	70 - 130
Chloro6orm	25.0	24.1		ug/L		9V	70 - 130
Chloromethane	25.0	23.7		ug/L		95	70 - 130
cis-1,2-Dichloroethene	25.0	23.0		ug/L		92	70 - 130
cis-1,3-Dichloro6ro6ene	25.0	25.5		ug/L		102	70 - 130
Dichlorobromomethane	25.0	24.3		ug/L		97	70 - 130
Dichlorodifluoromethane	25.0	24.7		ug/L		99	70 - 130
Ethyl ether	25.0	25.7		ug/L		103	70 - 130
Ethylbenzene	25.0	24.0		ug/L		9V	70 - 130
Ethylene Dibromide	25.0	24.1		ug/L		9V	70 - 130
) ezachlorobutadiene	25.0	23.7		ug/L		95	70 - 130
Iso6ro6yl ether	25.0	25.4		ug/L		102	70 - 130
Iso6ro6ylbenzene	25.0	23.7		ug/L		95	70 - 130
Methyl tert-butyl ether	25.0	24.1		ug/L		9V	70 - 130
Methylene Chloride	25.0	23.V		ug/L		95	70 - 130
m-f ylene X 6-f ylene	25.0	23.V		ug/L		95	70 - 130
Na6hthalene	25.0	2V.1		ug/L		104	70 - 130
n-x utylbenzene	25.0	24.9		ug/L		99	70 - 130
N-Pro6ylbenzene	25.0	23.V		ug/L		94	70 - 130
o-f ylene	25.0	23.V		ug/L		94	70 - 130
sec-x utylbenzene	25.0	23.8		ug/L		95	70 - 130
Styrene	25.0	24.4		ug/L		97	70 - 130
Tert-amyl methyl ether	25.0	25.0		ug/L		100	70 - 130
Tert-butyl ethyl ether	25.0	25.0		ug/L		100	70 - 130
tert-x utylbenzene	25.0	24.1		ug/L		9V	70 - 130

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# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: LCS 480-175358/5

Matrix: Water

Analysis Batch: 175358

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	2V.1		ug/L		104	70 - 130
Tetrahydrofuran	50.0	V4.8		ug/L		130	70 - 130
Toluene	25.0	23.9		ug/L		9V	70 - 130
trans-1,2-Dichloroethene	25.0	22.9		ug/L		91	70 - 130
trans-1,3-Dichlorobenzene	25.0	23.V		ug/L		94	70 - 130
Trichloroethene	25.0	23.9		ug/L		9V	70 - 130
Trichlorofluoromethane	25.0	2V.3		ug/L		105	70 - 130
Vinyl chloride	25.0	24.1		ug/L		9V	70 - 130
Dibromomethane	25.0	25.2		ug/L		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 480-175358/6

Matrix: Water

Analysis Batch: 175358

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.V		ug/L		99	70 - 130	3	20
1,1,1-Trichloroethane	25.0	22.V		ug/L		90	70 - 130	4	20
1,1,1,2,2-Tetrachloroethane	25.0	24.V		ug/L		99	70 - 130	1	20
1,1,2-Trichloroethane	25.0	24.4		ug/L		98	70 - 130	3	20
1,1-Dichloroethane	25.0	23.7		ug/L		95	70 - 130	0	20
1,1-Dichloroethene	25.0	23.0		ug/L		92	70 - 130	3	20
1,1-Dichlorobenzene	25.0	23.3		ug/L		93	70 - 130	1	20
1,2,3-Trichlorobenzene	25.0	2V.1		ug/L		104	70 - 130	1	20
1,2,3-Trichlorobenzene	25.0	24.4		ug/L		97	70 - 130	4	20
1,2,4-Trichlorobenzene	25.0	25.2		ug/L		101	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	23.V		ug/L		94	70 - 130	2	20
1,2-Dibromo-3-Chlorobenzene	25.0	22.8		ug/L		91	70 - 130	5	20
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130	3	20
1,2-Dichloroethane	25.0	25.2		ug/L		101	70 - 130	1	20
1,2-Dichlorobenzene	25.0	25.0		ug/L		100	70 - 130	0	20
1,3,5-Trimethylbenzene	25.0	23.4		ug/L		93	70 - 130	2	20
1,3-Dichlorobenzene	25.0	24.0		ug/L		9V	70 - 130	3	20
1,3-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130	2	20
1,4-Dichlorobenzene	25.0	23.5		ug/L		94	70 - 130	3	20
1,4-Dioxane	500	450		ug/L		90	70 - 130	4	20
2,2-Dichlorobenzene	25.0	20.5		ug/L		82	70 - 130	5	20
2-Butanone BME ( K	125	129		ug/L		103	70 - 130	2	20
2-Chlorotoluene	25.0	23.7		ug/L		95	70 - 130	1	20
2-Pentanone	125	125		ug/L		100	70 - 130	1	20
4-Chlorotoluene	25.0	21.5		ug/L		8V	70 - 130	3	20
4-Isohexyltoluene	25.0	23.8		ug/L		95	70 - 130	2	20
4-Methyl-2-Pentanone BME ( K	125	123		ug/L		99	70 - 130	0	20
Acetone	125	122		ug/L		98	70 - 130	1	20

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# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: LCSD 480-175358/6

Matrix: Water

Analysis Batch: 175358

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		
xenpene	25.0	23.8		ug/L		95	70 - 130	1	20	
xromobepene	25.0	24.2		ug/L		97	70 - 130	2	20	
xromolorm	25.0	20.V		ug/L		82	70 - 130	0	20	
xromomethane	25.0	29.V		ug/L		119	70 - 130	0	20	
Carbon disulfide	25.0	20.V		ug/L		82	70 - 130	1	20	
Carbon tetrachloride	25.0	22.8		ug/L		91	70 - 130	1	20	
Chlorobepene	25.0	24.2		ug/L		97	70 - 130	1	20	
Chlorobromomethane	25.0	24.7		ug/L		99	70 - 130	3	20	
Chlorodibromomethane	24.5	23.7		ug/L		97	70 - 130	1	20	
Chloroethane	25.0	28.2		ug/L		113	70 - 130	1	20	
Chlorolorm	25.0	23.7		ug/L		95	70 - 130	2	20	
Chloromethane	25.0	23.4		ug/L		93	70 - 130	1	20	
cis-1,2-Dichloroethene	25.0	23.4		ug/L		94	70 - 130	2	20	
cis-1,3-Dichlorobenzene	25.0	25.0		ug/L		100	70 - 130	2	20	
Dichlorobromomethane	25.0	24.V		ug/L		98	70 - 130	1	20	
Dichlorodifluoromethane	25.0	22.9		ug/L		92	70 - 130	7	20	
Ethyl ether	25.0	25.5		ug/L		102	70 - 130	1	20	
Ethylbenzene	25.0	23.8		ug/L		95	70 - 130	1	20	
Ethylene Dibromide	25.0	24.V		ug/L		98	70 - 130	2	20	
1,2-Dichlorobutadiene	25.0	23.V		ug/L		94	70 - 130	0	20	
Isohexyl ether	25.0	25.7		ug/L		103	70 - 130	1	20	
Isohexylbenzene	25.0	23.0		ug/L		92	70 - 130	3	20	
Methyl tert-butyl ether	25.0	24.1		ug/L		9V	70 - 130	0	20	
Methylene Chloride	25.0	23.8		ug/L		95	70 - 130	1	20	
m-xylene X p-xylene	25.0	23.4		ug/L		94	70 - 130	1	20	
Naphthalene	25.0	25.8		ug/L		103	70 - 130	1	20	
n-x-tylbenzene	25.0	24.0		ug/L		9V	70 - 130	3	20	
N-Propylbenzene	25.0	23.1		ug/L		92	70 - 130	2	20	
o-xylene	25.0	23.9		ug/L		9V	70 - 130	1	20	
sec-x-tylbenzene	25.0	23.0		ug/L		92	70 - 130	3	20	
Styrene	25.0	24.1		ug/L		9V	70 - 130	1	20	
Tert-amyl methyl ether	25.0	25.3		ug/L		101	70 - 130	1	20	
Tert-butyl ethyl ether	25.0	25.1		ug/L		100	70 - 130	0	20	
tert-x-tylbenzene	25.0	22.8		ug/L		91	70 - 130	V	20	
Tetrachloroethene	25.0	2V.8		ug/L		107	70 - 130	3	20	
Tetrahydrofuran	50.0	V5.1		ug/L		130	70 - 130	0	20	
Toluene	25.0	23.V		ug/L		95	70 - 130	1	20	
trans-1,2-Dichloroethene	25.0	22.1		ug/L		88	70 - 130	3	20	
trans-1,3-Dichlorobenzene	25.0	24.1		ug/L		9V	70 - 130	2	20	
Trichloroethene	25.0	23.1		ug/L		92	70 - 130	4	20	
Trichlorofluoromethane	25.0	2V.3		ug/L		105	70 - 130	0	20	
Vinyl chloride	25.0	23.2		ug/L		93	70 - 130	4	20	
Dibromomethane	25.0	25.0		ug/L		100	70 - 130	1	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130

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# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

**Lab Sample ID: MB 480-175485/9**

**Matrix: Water**

**Analysis Batch: 175485**

**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			04/13/14 22:07	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/13/14 22:07	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/13/14 22:07	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/13/14 22:07	1
1,1-Dichloroethane	ND		1.0		ug/L			04/13/14 22:07	1
1,1-Dichloroethene	ND		1.0		ug/L			04/13/14 22:07	1
1,1-Dichloro6ro6ene	ND		1.0		ug/L			04/13/14 22:07	1
1,2,3-Trichlorobepene	ND		1.0		ug/L			04/13/14 22:07	1
1,2,3-Trichloro6ro6ane	ND		1.0		ug/L			04/13/14 22:07	1
1,2,4-Trichlorobepene	ND		1.0		ug/L			04/13/14 22:07	1
1,2,4-Trimethylbepene	ND		1.0		ug/L			04/13/14 22:07	1
1,2-Dibromo-3-Chloro6ro6ane	ND		5.0		ug/L			04/13/14 22:07	1
1,2-Dichlorobepene	ND		1.0		ug/L			04/13/14 22:07	1
1,2-Dichloroethane	ND		1.0		ug/L			04/13/14 22:07	1
1,2-Dichloro6ro6ane	ND		1.0		ug/L			04/13/14 22:07	1
1,3,5-Trimethylbepene	ND		1.0		ug/L			04/13/14 22:07	1
1,3-Dichlorobepene	ND		1.0		ug/L			04/13/14 22:07	1
1,3-Dichloro6ro6ane	ND		1.0		ug/L			04/13/14 22:07	1
1,4-Dichlorobepene	ND		1.0		ug/L			04/13/14 22:07	1
1,4-Diozane	ND		50		ug/L			04/13/14 22:07	1
2,2-Dichloro6ro6ane	ND		1.0		ug/L			04/13/14 22:07	1
2-x utanone BME( K	ND		10		ug/L			04/13/14 22:07	1
2-Chlorotoluene	ND		1.0		ug/L			04/13/14 22:07	1
2-) ezanone	ND		10		ug/L			04/13/14 22:07	1
4-Chlorotoluene	ND		1.0		ug/L			04/13/14 22:07	1
4-Iso6ro6yltoluene	ND		1.0		ug/L			04/13/14 22:07	1
4-Methyl-2-6entanone BMlx ( K	ND		10		ug/L			04/13/14 22:07	1
Acetone	ND		50		ug/L			04/13/14 22:07	1
x epene	ND		1.0		ug/L			04/13/14 22:07	1
x romobepene	ND		1.0		ug/L			04/13/14 22:07	1
x romo6orm	ND		1.0		ug/L			04/13/14 22:07	1
x romomethane	ND		2.0		ug/L			04/13/14 22:07	1
Carbon disulfide	ND		10		ug/L			04/13/14 22:07	1
Carbon tetrachloride	ND		1.0		ug/L			04/13/14 22:07	1
Chlorobepene	ND		1.0		ug/L			04/13/14 22:07	1
Chlorobromomethane	ND		1.0		ug/L			04/13/14 22:07	1
Chlorodibromomethane	ND		0.50		ug/L			04/13/14 22:07	1
Chloroethane	ND		2.0		ug/L			04/13/14 22:07	1
Chloro6orm	ND		1.0		ug/L			04/13/14 22:07	1
Chloromethane	ND		2.0		ug/L			04/13/14 22:07	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/13/14 22:07	1
cis-1,3-Dichloro6ro6ene	ND		0.40		ug/L			04/13/14 22:07	1
Dichlorobromomethane	ND		0.50		ug/L			04/13/14 22:07	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/13/14 22:07	1
Ethyl ether	ND		1.0		ug/L			04/13/14 22:07	1
Ethylbepene	ND		1.0		ug/L			04/13/14 22:07	1
Ethylene Dibromide	ND		1.0		ug/L			04/13/14 22:07	1
) ezachlorobutadiene	ND		0.40		ug/L			04/13/14 22:07	1

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# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: MB 480-175485/9

Matrix: Water

Analysis Batch: 175485

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iso6ro6yl ether	ND		10		ug/L			04/13/14 22:07	1
Iso6ro6ylbenpene	ND		1.0		ug/L			04/13/14 22:07	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/13/14 22:07	1
Methylene Chloride	ND		1.0		ug/L			04/13/14 22:07	1
m-f ylene X 6-f ylene	ND		2.0		ug/L			04/13/14 22:07	1
Na6hthalene	ND		5.0		ug/L			04/13/14 22:07	1
n-x utylbenpene	ND		1.0		ug/L			04/13/14 22:07	1
N-Pro6ylbenpene	ND		1.0		ug/L			04/13/14 22:07	1
o-f ylene	ND		1.0		ug/L			04/13/14 22:07	1
sec-x utylbenpene	ND		1.0		ug/L			04/13/14 22:07	1
Styrene	ND		1.0		ug/L			04/13/14 22:07	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/13/14 22:07	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/13/14 22:07	1
tert-x utylbenpene	ND		1.0		ug/L			04/13/14 22:07	1
Tetrachloroethene	ND		1.0		ug/L			04/13/14 22:07	1
Tetrahydrothiran	ND		10		ug/L			04/13/14 22:07	1
Toluene	ND		1.0		ug/L			04/13/14 22:07	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/13/14 22:07	1
trans-1,3-Dichloro6ro6ene	ND		0.40		ug/L			04/13/14 22:07	1
Trichloroethene	ND		1.0		ug/L			04/13/14 22:07	1
Trichloro6loromethane	ND		1.0		ug/L			04/13/14 22:07	1
&inyl chloride	ND		1.0		ug/L			04/13/14 22:07	1
Dibromomethane	ND		1.0		ug/L			04/13/14 22:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/13/14 22:07	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/13/14 22:07	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/13/14 22:07	1

Lab Sample ID: LCS 480-175485/6

Matrix: Water

Analysis Batch: 175485

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		97	70 - 130
1,1,1-Trichloroethane	25.0	24.8		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.9		ug/L		100	70 - 130
1,1,2-Trichloroethane	25.0	24.9		ug/L		99	70 - 130
1,1-Dichloroethane	25.0	24.7		ug/L		99	70 - 130
1,1-Dichloroethene	25.0	23.8		ug/L		95	70 - 130
1,1-Dichloro6ro6ene	25.0	25.5		ug/L		102	70 - 130
1,2,3-Trichlorobenpene	25.0	25.2		ug/L		101	70 - 130
1,2,3-Trichloro6ro6ane	25.0	24.3		ug/L		97	70 - 130
1,2,4-Trichlorobenpene	25.0	25.3		ug/L		101	70 - 130
1,2,4-Trimethylbenpene	25.0	24.V		ug/L		98	70 - 130
1,2-Dibromo-3-Chloro6ro6ane	25.0	23.3		ug/L		93	70 - 130
1,2-Dichlorobenpene	25.0	24.9		ug/L		99	70 - 130
1,2-Dichloroethane	25.0	2V.4		ug/L		10V	70 - 130

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# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: LCS 480-175485/6

Matrix: Water

Analysis Batch: 175485

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloro6ro6ane	25.0	2V.1		ug/L		104	70 - 130
1,3,5-Trimethylbenzene	25.0	24.2		ug/L		97	70 - 130
1,3-Dichlorobenzene	25.0	24.9		ug/L		100	70 - 130
1,3-Dichloro6ro6ane	25.0	24.4		ug/L		98	70 - 130
1,4-Dichlorobenzene	25.0	24.1		ug/L		97	70 - 130
1,4-Dioxane	500	452		ug/L		90	70 - 130
2,2-Dichloro6ro6ane	25.0	23.3		ug/L		93	70 - 130
2-x utanone BME( K	125	142		ug/L		113	70 - 130
2-Chlorotoluene	25.0	24.4		ug/L		98	70 - 130
2-) ezanone	125	125		ug/L		100	70 - 130
4-Chlorotoluene	25.0	22.0		ug/L		88	70 - 130
4-Iso6ro6yltoluene	25.0	24.9		ug/L		100	70 - 130
4-Methyl-2-6entanone BMlx ( K	125	124		ug/L		99	70 - 130
Acetone	125	125		ug/L		100	70 - 130
x benzene	25.0	24.9		ug/L		100	70 - 130
x bromobenzene	25.0	24.3		ug/L		97	70 - 130
x bromoform	25.0	21.2		ug/L		85	70 - 130
x bromomethane	25.0	29.V		ug/L		118	70 - 130
Carbon disulfide	25.0	21.1		ug/L		84	70 - 130
Carbon tetrachloride	25.0	25.3		ug/L		101	70 - 130
Chlorobenzene	25.0	24.9		ug/L		99	70 - 130
Chlorobromomethane	25.0	25.3		ug/L		101	70 - 130
Chlorodibromomethane	24.5	24.5		ug/L		100	70 - 130
Chloroethane	25.0	28.9		ug/L		11V	70 - 130
Chloroform	25.0	25.1		ug/L		100	70 - 130
Chloromethane	25.0	24.2		ug/L		97	70 - 130
cis-1,2-Dichloroethene	25.0	24.7		ug/L		99	70 - 130
cis-1,3-Dichloro6ro6ene	25.0	2V.2		ug/L		105	70 - 130
Dichlorobromomethane	25.0	25.5		ug/L		102	70 - 130
Dichlorodifluoromethane	25.0	22.V		ug/L		90	70 - 130
Ethyl ether	25.0	25.0		ug/L		100	70 - 130
Ethylbenzene	25.0	24.2		ug/L		97	70 - 130
Ethylene Dibromide	25.0	24.8		ug/L		99	70 - 130
) ezechlorobutadiene	25.0	25.5		ug/L		102	70 - 130
Iso6ro6yl ether	25.0	2V.3		ug/L		105	70 - 130
Iso6ro6ylbenzene	25.0	24.1		ug/L		9V	70 - 130
Methyl tert-butyl ether	25.0	24.3		ug/L		97	70 - 130
Methylene Chloride	25.0	23.7		ug/L		95	70 - 130
m-f ylene X 6-f ylene	25.0	24.7		ug/L		99	70 - 130
Na6hthalene	25.0	25.8		ug/L		103	70 - 130
n-x utylbenzene	25.0	25.4		ug/L		102	70 - 130
N-Pro6ylbenzene	25.0	24.2		ug/L		97	70 - 130
o-f ylene	25.0	24.1		ug/L		9V	70 - 130
sec-x utylbenzene	25.0	24.7		ug/L		99	70 - 130
Styrene	25.0	24.9		ug/L		99	70 - 130
Tert-amyl methyl ether	25.0	25.7		ug/L		103	70 - 130
Tert-butyl ethyl ether	25.0	25.4		ug/L		101	70 - 130
tert-x utylbenzene	25.0	24.0		ug/L		9V	70 - 130

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# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: LCS 480-175485/6

Matrix: Water

Analysis Batch: 175485

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	2V.1		ug/L		104	70 - 130
Tetrahydrofuran	50.0	V5.3	*	ug/L		131	70 - 130
Toluene	25.0	24.2		ug/L		97	70 - 130
trans-1,2-Dichloroethene	25.0	24.1		ug/L		9V	70 - 130
trans-1,3-Dichlorobenzene	25.0	23.7		ug/L		95	70 - 130
Trichloroethene	25.0	24.0		ug/L		9V	70 - 130
Trichlorofluoromethane	25.0	27.1		ug/L		108	70 - 130
Vinyl chloride	25.0	23.8		ug/L		95	70 - 130
Dibromomethane	25.0	2V.1		ug/L		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 480-175485/7

Matrix: Water

Analysis Batch: 175485

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		9V	70 - 130	1	20
1,1,1-Trichloroethane	25.0	24.3		ug/L		97	70 - 130	2	20
1,1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	70 - 130	3	20
1,1,2-Trichloroethane	25.0	24.9		ug/L		100	70 - 130	0	20
1,1-Dichloroethane	25.0	24.V		ug/L		98	70 - 130	1	20
1,1-Dichloroethene	25.0	24.1		ug/L		9V	70 - 130	1	20
1,1-Dichlorobenzene	25.0	24.V		ug/L		98	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	25.2		ug/L		101	70 - 130	0	20
1,2,3-Trichlorobenzene	25.0	24.2		ug/L		97	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	25.1		ug/L		101	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	23.1		ug/L		92	70 - 130	V	20
1,2-Dibromo-3-Chlorobenzene	25.0	22.7		ug/L		91	70 - 130	2	20
1,2-Dichlorobenzene	25.0	23.9		ug/L		9V	70 - 130	4	20
1,2-Dichloroethane	25.0	25.9		ug/L		104	70 - 130	2	20
1,2-Dichlorobenzene	25.0	25.8		ug/L		103	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	23.1		ug/L		92	70 - 130	4	20
1,3-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130	4	20
1,3-Dichlorobenzene	25.0	24.4		ug/L		98	70 - 130	0	20
1,4-Dichlorobenzene	25.0	23.2		ug/L		93	70 - 130	4	20
1,4-Dioxane	500	4V3		ug/L		93	70 - 130	2	20
2,2-Dichlorobenzene	25.0	22.8		ug/L		91	70 - 130	2	20
2-xutanone BME ( K	125	135		ug/L		108	70 - 130	4	20
2-Chlorotoluene	25.0	23.8		ug/L		95	70 - 130	2	20
2-Nonanone	125	123		ug/L		99	70 - 130	1	20
4-Chlorotoluene	25.0	21.2		ug/L		85	70 - 130	4	20
4-Isohexyltoluene	25.0	24.0		ug/L		9V	70 - 130	4	20
4-Methyl-2-Heptanone BME ( K	125	121		ug/L		97	70 - 130	2	20
Acetone	125	12V		ug/L		101	70 - 130	0	20

TestAmerica x utallo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: LCSD 480-175485/7

Matrix: Water

Analysis Batch: 175485

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
xenpene	25.0	24.7		ug/L		99	70 - 130	1	20	
xromobepene	25.0	23.V		ug/L		95	70 - 130	3	20	
xromolorm	25.0	21.4		ug/L		8V	70 - 130	1	20	
xromomethane	25.0	30.4		ug/L		122	70 - 130	3	20	
Carbon disulfide	25.0	20.4		ug/L		82	70 - 130	3	20	
Carbon tetrachloride	25.0	24.7		ug/L		99	70 - 130	2	20	
Chlorobepene	25.0	23.8		ug/L		95	70 - 130	5	20	
Chlorobromomethane	25.0	24.8		ug/L		99	70 - 130	2	20	
Chlorodibromomethane	24.5	24.0		ug/L		98	70 - 130	2	20	
Chloroethane	25.0	28.7		ug/L		115	70 - 130	1	20	
Chlorolorm	25.0	25.0		ug/L		100	70 - 130	0	20	
Chloromethane	25.0	24.V		ug/L		98	70 - 130	2	20	
cis-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130	2	20	
cis-1,3-Dichloro6ro6ene	25.0	2V.2		ug/L		105	70 - 130	0	20	
Dichlorobromomethane	25.0	25.V		ug/L		102	70 - 130	0	20	
Dichlorodifluoromethane	25.0	23.1		ug/L		92	70 - 130	2	20	
Ethyl ether	25.0	25.1		ug/L		100	70 - 130	0	20	
Ethylbenpene	25.0	24.0		ug/L		9V	70 - 130	1	20	
Ethylene Dibromide	25.0	24.2		ug/L		97	70 - 130	2	20	
)ezachlorobutadiene	25.0	24.3		ug/L		97	70 - 130	5	20	
Iso6ro6yl ether	25.0	2V.0		ug/L		104	70 - 130	1	20	
Iso6ro6ylbenpene	25.0	23.1		ug/L		93	70 - 130	4	20	
Methyl tert-butyl ether	25.0	24.5		ug/L		98	70 - 130	1	20	
Methylene Chloride	25.0	23.9		ug/L		95	70 - 130	1	20	
m-f ylene X 6-f ylene	25.0	24.0		ug/L		9V	70 - 130	3	20	
Na6hthalene	25.0	25.0		ug/L		100	70 - 130	3	20	
n-x utylbenpene	25.0	23.9		ug/L		9V	70 - 130	V	20	
N-Pro6ylbenpene	25.0	23.3		ug/L		93	70 - 130	4	20	
o-f ylene	25.0	23.7		ug/L		95	70 - 130	2	20	
sec-x utylbenpene	25.0	23.5		ug/L		94	70 - 130	5	20	
Styrene	25.0	24.1		ug/L		9V	70 - 130	3	20	
Tert-amyl methyl ether	25.0	25.9		ug/L		103	70 - 130	1	20	
Tert-butyl ethyl ether	25.0	2V.0		ug/L		104	70 - 130	2	20	
tert-x utylbenpene	25.0	23.3		ug/L		93	70 - 130	3	20	
Tetrachloroethene	25.0	24.5		ug/L		98	70 - 130	V	20	
Tetrahydro6htran	50.0	VV.1 *		ug/L		132	70 - 130	1	20	
Toluene	25.0	23.3		ug/L		93	70 - 130	4	20	
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 130	1	20	
trans-1,3-Dichloro6ro6ene	25.0	23.9		ug/L		95	70 - 130	1	20	
Trichloroethene	25.0	24.1		ug/L		9V	70 - 130	1	20	
Trichloro6uoromethane	25.0	2V.2		ug/L		105	70 - 130	3	20	
&inyl chloride	25.0	23.2		ug/L		93	70 - 130	3	20	
Dibromomethane	25.0	25.V		ug/L		103	70 - 130	2	20	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130

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# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

**Lab Sample ID: MB 480-175755/7**

**Matrix: Water**

**Analysis Batch: 175755**

**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			04/15/14 00:13	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/15/14 00:13	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/15/14 00:13	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/15/14 00:13	1
1,1-Dichloroethane	ND		1.0		ug/L			04/15/14 00:13	1
1,1-Dichloroethene	ND		1.0		ug/L			04/15/14 00:13	1
1,1-Dichloro6ro6ene	ND		1.0		ug/L			04/15/14 00:13	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/15/14 00:13	1
1,2,3-Trichloro6ro6ane	ND		1.0		ug/L			04/15/14 00:13	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/15/14 00:13	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/15/14 00:13	1
1,2-Dibromo-3-Chloro6ro6ane	ND		5.0		ug/L			04/15/14 00:13	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/15/14 00:13	1
1,2-Dichloroethane	ND		1.0		ug/L			04/15/14 00:13	1
1,2-Dichloro6ro6ane	ND		1.0		ug/L			04/15/14 00:13	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/15/14 00:13	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/15/14 00:13	1
1,3-Dichloro6ro6ane	ND		1.0		ug/L			04/15/14 00:13	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/15/14 00:13	1
1,4-Dioxane	ND		50		ug/L			04/15/14 00:13	1
2,2-Dichloro6ro6ane	ND		1.0		ug/L			04/15/14 00:13	1
2-x utanone BME( K	ND		10		ug/L			04/15/14 00:13	1
2-Chlorotoluene	ND		1.0		ug/L			04/15/14 00:13	1
2-) ezanone	ND		10		ug/L			04/15/14 00:13	1
4-Chlorotoluene	ND		1.0		ug/L			04/15/14 00:13	1
4-Iso6ro6yltoluene	ND		1.0		ug/L			04/15/14 00:13	1
4-Methyl-2-6entanone BMlx ( K	ND		10		ug/L			04/15/14 00:13	1
Acetone	ND		50		ug/L			04/15/14 00:13	1
x enzene	ND		1.0		ug/L			04/15/14 00:13	1
x romobenzene	ND		1.0		ug/L			04/15/14 00:13	1
x romol6rm	ND		1.0		ug/L			04/15/14 00:13	1
x romomethane	ND		2.0		ug/L			04/15/14 00:13	1
Carbon disulfide	ND		10		ug/L			04/15/14 00:13	1
Carbon tetrachloride	ND		1.0		ug/L			04/15/14 00:13	1
Chlorobenzene	ND		1.0		ug/L			04/15/14 00:13	1
Chlorobromomethane	ND		1.0		ug/L			04/15/14 00:13	1
Chlorodibromomethane	ND		0.50		ug/L			04/15/14 00:13	1
Chloroethane	ND		2.0		ug/L			04/15/14 00:13	1
Chlorol6rm	ND		1.0		ug/L			04/15/14 00:13	1
Chloromethane	ND		2.0		ug/L			04/15/14 00:13	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/15/14 00:13	1
cis-1,3-Dichloro6ro6ene	ND		0.40		ug/L			04/15/14 00:13	1
Dichlorobromomethane	ND		0.50		ug/L			04/15/14 00:13	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/15/14 00:13	1
Ethyl ether	ND		1.0		ug/L			04/15/14 00:13	1
Ethylbenzene	ND		1.0		ug/L			04/15/14 00:13	1
Ethylene Dibromide	ND		1.0		ug/L			04/15/14 00:13	1
) ezachlorobutadiene	ND		0.40		ug/L			04/15/14 00:13	1

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# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: MB 480-175755/7

Matrix: Water

Analysis Batch: 175755

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iso6ro6yl ether	ND		10		ug/L			04/15/14 00:13	1
Iso6ro6ylbenpene	ND		1.0		ug/L			04/15/14 00:13	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/15/14 00:13	1
Methylene Chloride	ND		1.0		ug/L			04/15/14 00:13	1
m-f ylene X 6-f ylene	ND		2.0		ug/L			04/15/14 00:13	1
Na6hthalene	ND		5.0		ug/L			04/15/14 00:13	1
n-x utylbenpene	ND		1.0		ug/L			04/15/14 00:13	1
N-Pro6ylbenpene	ND		1.0		ug/L			04/15/14 00:13	1
o-f ylene	ND		1.0		ug/L			04/15/14 00:13	1
sec-x utylbenpene	ND		1.0		ug/L			04/15/14 00:13	1
Styrene	ND		1.0		ug/L			04/15/14 00:13	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/15/14 00:13	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/15/14 00:13	1
tert-x utylbenpene	ND		1.0		ug/L			04/15/14 00:13	1
Tetrachloroethene	ND		1.0		ug/L			04/15/14 00:13	1
Tetrahydrothiran	ND		10		ug/L			04/15/14 00:13	1
Toluene	ND		1.0		ug/L			04/15/14 00:13	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/15/14 00:13	1
trans-1,3-Dichloro6ro6ene	ND		0.40		ug/L			04/15/14 00:13	1
Trichloroethene	ND		1.0		ug/L			04/15/14 00:13	1
Trichloro6loromethane	ND		1.0		ug/L			04/15/14 00:13	1
&inyl chloride	ND		1.0		ug/L			04/15/14 00:13	1
Dibromomethane	ND		1.0		ug/L			04/15/14 00:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/15/14 00:13	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/15/14 00:13	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/15/14 00:13	1

Lab Sample ID: LCS 480-175755/4

Matrix: Water

Analysis Batch: 175755

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	23.4		ug/L		94	70 - 130
1,1,1-Trichloroethane	25.0	22.9		ug/L		92	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.7		ug/L		95	70 - 130
1,1,2-Trichloroethane	25.0	23.4		ug/L		93	70 - 130
1,1-Dichloroethane	25.0	22.9		ug/L		92	70 - 130
1,1-Dichloroethene	25.0	21.3		ug/L		85	70 - 130
1,1-Dichloro6ro6ene	25.0	22.9		ug/L		92	70 - 130
1,2,3-Trichlorobenpene	25.0	2V.0		ug/L		104	70 - 130
1,2,3-Trichloro6ro6ane	25.0	23.9		ug/L		9V	70 - 130
1,2,4-Trichlorobenpene	25.0	25.V		ug/L		103	70 - 130
1,2,4-Trimethylbenpene	25.0	23.3		ug/L		93	70 - 130
1,2-Dibromo-3-Chloro6ro6ane	25.0	21.8		ug/L		87	70 - 130
1,2-Dichlorobenpene	25.0	24.V		ug/L		98	70 - 130
1,2-Dichloroethane	25.0	24.5		ug/L		98	70 - 130

TestAmerica x uHalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

**Lab Sample ID: LCS 480-175755/4**

**Matrix: Water**

**Analysis Batch: 175755**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloro6ro6ane	25.0	24.1		ug/L		9V	70 - 130
1,3,5-Trimethylbenzene	25.0	23.4		ug/L		93	70 - 130
1,3-Dichlorobenzene	25.0	24.1		ug/L		9V	70 - 130
1,3-Dichloro6ro6ane	25.0	23.3		ug/L		93	70 - 130
1,4-Dichlorobenzene	25.0	24.1		ug/L		9V	70 - 130
1,4-Dioxane	500	408		ug/L		82	70 - 130
2,2-Dichloro6ro6ane	25.0	21.9		ug/L		88	70 - 130
2-x utanone BME( K	125	120		ug/L		9V	70 - 130
2-Chlorotoluene	25.0	24.0		ug/L		9V	70 - 130
2-) ezanone	125	124		ug/L		99	70 - 130
4-Chlorotoluene	25.0	21.4		ug/L		8V	70 - 130
4-Iso6ro6yltoluene	25.0	24.4		ug/L		98	70 - 130
4-Methyl-2-6entanone BMlx ( K	125	120		ug/L		9V	70 - 130
Acetone	125	112		ug/L		90	70 - 130
x enzene	25.0	23.0		ug/L		92	70 - 130
x romobenzene	25.0	23.V		ug/L		94	70 - 130
x romo6orm	25.0	19.2		ug/L		77	70 - 130
x romomethane	25.0	25.0		ug/L		100	70 - 130
Carbon disulfide	25.0	17.8		ug/L		71	70 - 130
Carbon tetrachloride	25.0	22.5		ug/L		90	70 - 130
Chlorobenzene	25.0	23.4		ug/L		94	70 - 130
Chlorobromomethane	25.0	23.8		ug/L		95	70 - 130
Chlorodibromomethane	24.5	22.1		ug/L		90	70 - 130
Chloroethane	25.0	24.3		ug/L		97	70 - 130
Chloro6orm	25.0	23.1		ug/L		93	70 - 130
Chloromethane	25.0	21.5		ug/L		8V	70 - 130
cis-1,2-Dichloroethene	25.0	22.4		ug/L		90	70 - 130
cis-1,3-Dichloro6ro6ene	25.0	23.2		ug/L		93	70 - 130
Dichlorobromomethane	25.0	23.4		ug/L		94	70 - 130
Dichlorodifluoromethane	25.0	18.7		ug/L		75	70 - 130
Ethyl ether	25.0	23.5		ug/L		94	70 - 130
Ethylbenzene	25.0	23.V		ug/L		94	70 - 130
Ethylene Dibromide	25.0	23.4		ug/L		94	70 - 130
) ezachlorobutadiene	25.0	25.7		ug/L		103	70 - 130
Iso6ro6yl ether	25.0	24.5		ug/L		98	70 - 130
Iso6ro6ylbenzene	25.0	23.0		ug/L		92	70 - 130
Methyl tert-butyl ether	25.0	22.0		ug/L		88	70 - 130
Methylene Chloride	25.0	21.8		ug/L		87	70 - 130
m-f ylene X 6-f ylene	25.0	24.1		ug/L		9V	70 - 130
Na6hthalene	25.0	24.8		ug/L		99	70 - 130
n-x utylbenzene	25.0	24.5		ug/L		98	70 - 130
N-Pro6ylbenzene	25.0	23.7		ug/L		95	70 - 130
o-f ylene	25.0	23.3		ug/L		93	70 - 130
sec-x utylbenzene	25.0	23.V		ug/L		94	70 - 130
Styrene	25.0	24.2		ug/L		97	70 - 130
Tert-amyl methyl ether	25.0	23.4		ug/L		93	70 - 130
Tert-butyl ethyl ether	25.0	23.8		ug/L		95	70 - 130
tert-x utylbenzene	25.0	24.0		ug/L		9V	70 - 130

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# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

**Lab Sample ID: LCS 480-175755/4**

**Matrix: Water**

**Analysis Batch: 175755**

**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	23.9		ug/L		95	70 - 130
Tetrahydrofuran	50.0	0.8		ug/L		122	70 - 130
Toluene	25.0	23.1		ug/L		92	70 - 130
trans-1,2-Dichloroethene	25.0	22.1		ug/L		89	70 - 130
trans-1,3-Dichlorobenzene	25.0	22.5		ug/L		90	70 - 130
Trichloroethene	25.0	22.0		ug/L		91	70 - 130
Trichlorofluoromethane	25.0	23.3		ug/L		93	70 - 130
Vinyl chloride	25.0	20.9		ug/L		84	70 - 130
Dibromomethane	25.0	23.9		ug/L		90	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	101		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130

**Lab Sample ID: LCSD 480-175755/5**

**Matrix: Water**

**Analysis Batch: 175755**

**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	23.0		ug/L		92	70 - 130	2	20
1,1,1-Trichloroethane	25.0	23.0		ug/L		92	70 - 130	0	20
1,1,1,2,2-Tetrachloroethane	25.0	23.8		ug/L		95	70 - 130	1	20
1,1,1,2-Trichloroethane	25.0	22.8		ug/L		91	70 - 130	2	20
1,1-Dichloroethane	25.0	22.9		ug/L		92	70 - 130	0	20
1,1-Dichloroethene	25.0	21.2		ug/L		85	70 - 130	1	20
1,1-Dichlorobenzene	25.0	23.1		ug/L		92	70 - 130	1	20
1,2,3-Trichlorobenzene	25.0	25.7		ug/L		103	70 - 130	1	20
1,2,3-Trichlorobenzene	25.0	25.1		ug/L		100	70 - 130	5	20
1,2,4-Trichlorobenzene	25.0	25.0		ug/L		100	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	23.2		ug/L		93	70 - 130	1	20
1,2-Dibromo-3-Chlorobenzene	25.0	22.1		ug/L		89	70 - 130	1	20
1,2-Dichlorobenzene	25.0	24.0		ug/L		98	70 - 130	0	20
1,2-Dichloroethane	25.0	24.8		ug/L		99	70 - 130	1	20
1,2-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	22.7		ug/L		91	70 - 130	3	20
1,3-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130	1	20
1,3-Dichlorobenzene	25.0	23.1		ug/L		92	70 - 130	1	20
1,4-Dichlorobenzene	25.0	23.0		ug/L		94	70 - 130	2	20
1,4-Dioxane	500	420		ug/L		84	70 - 130	3	20
2,2-Dichlorobenzene	25.0	21.9		ug/L		88	70 - 130	0	20
2-Butanone BME ( K	125	129		ug/L		103	70 - 130	8	20
2-Chlorotoluene	25.0	23.4		ug/L		94	70 - 130	3	20
2-Pentanone	125	121		ug/L		90	70 - 130	3	20
4-Chlorotoluene	25.0	20.7		ug/L		83	70 - 130	3	20
4-Isohexyltoluene	25.0	23.9		ug/L		90	70 - 130	2	20
4-Methyl-2-Pentanone BME ( K	125	117		ug/L		94	70 - 130	2	20
Acetone	125	118		ug/L		94	70 - 130	5	20

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# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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

Lab Sample ID: LCSD 480-175755/5

Matrix: Water

Analysis Batch: 175755

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
xenpene	25.0	22.9		ug/L		92	70 - 130	0	20	
xromobepene	25.0	23.V		ug/L		94	70 - 130	0	20	
xromolorm	25.0	19.3		ug/L		77	70 - 130	1	20	
xromomethane	25.0	2V.V		ug/L		10V	70 - 130	V	20	
Carbon disulfide	25.0	17.8		ug/L		71	70 - 130	0	20	
Carbon tetrachloride	25.0	22.5		ug/L		90	70 - 130	0	20	
Chlorobepene	25.0	22.9		ug/L		92	70 - 130	2	20	
Chlorobromomethane	25.0	23.4		ug/L		93	70 - 130	2	20	
Chlorodibromomethane	24.5	22.0		ug/L		90	70 - 130	0	20	
Chloroethane	25.0	25.4		ug/L		102	70 - 130	5	20	
Chlorolorm	25.0	23.3		ug/L		93	70 - 130	1	20	
Chloromethane	25.0	22.0		ug/L		88	70 - 130	2	20	
cis-1,2-Dichloroethene	25.0	22.2		ug/L		89	70 - 130	1	20	
cis-1,3-Dichloroethene	25.0	23.4		ug/L		94	70 - 130	1	20	
Dichlorobromomethane	25.0	23.3		ug/L		93	70 - 130	1	20	
Dichlorodifluoromethane	25.0	18.8		ug/L		75	70 - 130	0	20	
Ethyl ether	25.0	23.V		ug/L		94	70 - 130	0	20	
Ethylbenzene	25.0	22.5		ug/L		90	70 - 130	5	20	
Ethylene Dibromide	25.0	23.0		ug/L		92	70 - 130	2	20	
1,2-Dichloroethane	25.0	24.7		ug/L		99	70 - 130	4	20	
Isooctyl ether	25.0	24.V		ug/L		98	70 - 130	1	20	
Isooctylbenzene	25.0	22.3		ug/L		89	70 - 130	3	20	
Methyl tert-butyl ether	25.0	22.V		ug/L		90	70 - 130	3	20	
Methylene Chloride	25.0	22.2		ug/L		89	70 - 130	2	20	
m-xylene X p-xylene	25.0	22.3		ug/L		89	70 - 130	8	20	
Naphthalene	25.0	24.5		ug/L		98	70 - 130	1	20	
n-x-tylbenzene	25.0	23.9		ug/L		9V	70 - 130	3	20	
N-Propylbenzene	25.0	22.V		ug/L		90	70 - 130	5	20	
o-xylene	25.0	22.5		ug/L		90	70 - 130	3	20	
sec-x-tylbenzene	25.0	23.0		ug/L		92	70 - 130	2	20	
Styrene	25.0	22.9		ug/L		92	70 - 130	5	20	
Tert-amyl methyl ether	25.0	24.4		ug/L		98	70 - 130	4	20	
Tert-butyl ethyl ether	25.0	24.2		ug/L		97	70 - 130	2	20	
tert-x-tylbenzene	25.0	23.3		ug/L		93	70 - 130	3	20	
Tetrachloroethene	25.0	23.1		ug/L		93	70 - 130	3	20	
Tetrahydrofuran	50.0	V3.5		ug/L		127	70 - 130	4	20	
Toluene	25.0	22.3		ug/L		89	70 - 130	4	20	
trans-1,2-Dichloroethene	25.0	21.7		ug/L		87	70 - 130	2	20	
trans-1,3-Dichloroethene	25.0	22.1		ug/L		88	70 - 130	2	20	
Trichloroethene	25.0	22.0		ug/L		88	70 - 130	3	20	
Trichlorofluoromethane	25.0	23.1		ug/L		92	70 - 130	1	20	
Vinyl chloride	25.0	20.V		ug/L		82	70 - 130	1	20	
Dibromomethane	25.0	24.0		ug/L		9V	70 - 130	0	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

TestAmerica x u l l o

# QC Association Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

## GC/MS VOA

### Analysis Batch: 175358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57719-1	MW-1030-20140410-01	Total/NA	Water	8260C	
480-57719-2	MW-1028-20140410-01	Total/NA	Water	8260C	
480-57719-3	MW-1025M-20140410-01	Total/NA	Water	8260C	
480-57719-4	DUP-003-20140410-01	Total/NA	Water	8260C	
480-57719-5	MW-1015D-20140410-01	Total/NA	Water	8260C	
480-57719-6	MW-1033-20140410-01	Total/NA	Water	8260C	
480-57719-7	DUP-002-20140410-01	Total/NA	Water	8260C	
480-57719-8	MW-1023-20140410-01	Total/NA	Water	8260C	
480-57719-9	MW-1010M-20140410-01	Total/NA	Water	8260C	
480-57719-10	MW-1022-20140410-01	Total/NA	Water	8260C	
480-57719-11	MW-1019B-20140410-01	Total/NA	Water	8260C	
480-57719-12	MW-1032-20140410-01	Total/NA	Water	8260C	
480-57719-13	MW-1017D-20140410-01	Total/NA	Water	8260C	
480-57719-14	MW-1018-20140410-01	Total/NA	Water	8260C	
480-57719-15	MW-1031-20140410-01	Total/NA	Water	8260C	
480-57719-16	MW-1008-20140410-01	Total/NA	Water	8260C	
480-57719-18	MW-1011-20140410-01	Total/NA	Water	8260C	
480-57719-19	MW-1024D-20140410-01	Total/NA	Water	8260C	
LCS 480-175358/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-175358/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-175358/8	Method Blank	Total/NA	Water	8260C	

### Analysis Batch: 175485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57719-14 - DL	MW-1018-20140410-01	Total/NA	Water	8260C	
480-57719-17	MW-1025D-20140410-01	Total/NA	Water	8260C	
480-57719-20	MW-1020-20140410-01	Total/NA	Water	8260C	
480-57719-21	MW-1034-20140410-01	Total/NA	Water	8260C	
480-57719-22	DUP-004-20140410-01	Total/NA	Water	8260C	
480-57719-23	MW-1010D-20140410-01	Total/NA	Water	8260C	
480-57719-24	MW-1027-20140410-01	Total/NA	Water	8260C	
480-57719-25	MW-1016D-20140410-01	Total/NA	Water	8260C	
480-57719-26	MW-1013-20140410-01	Total/NA	Water	8260C	
480-57719-27	TB-001-20140410-01	Total/NA	Water	8260C	
480-57719-28	MW-1009-20140410-01	Total/NA	Water	8260C	
480-57719-29	MW-1006-20140410-01	Total/NA	Water	8260C	
480-57719-30	MW-1005-20140410-01	Total/NA	Water	8260C	
480-57719-31	MW-1004-20140410-01	Total/NA	Water	8260C	
480-57719-33	MW-1002B-20140410-01	Total/NA	Water	8260C	
LCS 480-175485/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-175485/7	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-175485/9	Method Blank	Total/NA	Water	8260C	

### Analysis Batch: 175755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-57719-32	DUP-001-20140410-01	Total/NA	Water	8260C	
480-57719-34	MW-1003-20140410-01	Total/NA	Water	8260C	
LCS 480-175755/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-175755/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-175755/7	Method Blank	Total/NA	Water	8260C	

TestAmerica Buffalo

# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1030-20140410-01**

**Lab Sample ID: 480-57719-1**

Date Collected: 04/10/14 10:11

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/11/14 23:46	RAL	TAL BUF

**Client Sample ID: MW-1028-20140410-01**

**Lab Sample ID: 480-57719-2**

Date Collected: 04/10/14 09:25

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 00:10	RAL	TAL BUF

**Client Sample ID: MW-1025M-20140410-01**

**Lab Sample ID: 480-57719-3**

Date Collected: 04/10/14 08:55

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	175358	04/12/14 00:34	RAL	TAL BUF

**Client Sample ID: DUP-003-20140410-01**

**Lab Sample ID: 480-57719-4**

Date Collected: 04/10/14 03:33

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 00:58	RAL	TAL BUF

**Client Sample ID: MW-1015D-20140410-01**

**Lab Sample ID: 480-57719-5**

Date Collected: 04/10/14 08:20

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 01:21	RAL	TAL BUF

**Client Sample ID: MW-1033-20140410-01**

**Lab Sample ID: 480-57719-6**

Date Collected: 04/10/14 08:58

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 01:45	RAL	TAL BUF

# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: DUP-002-20140410-01**

**Lab Sample ID: 480-57719-7**

Date Collected: 04/10/14 10:10

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 02:09	RAL	TAL BUF

**Client Sample ID: MW-1023-20140410-01**

**Lab Sample ID: 480-57719-8**

Date Collected: 04/10/14 13:30

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 02:33	RAL	TAL BUF

**Client Sample ID: MW-1010M-20140410-01**

**Lab Sample ID: 480-57719-9**

Date Collected: 04/10/14 10:25

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 02:56	RAL	TAL BUF

**Client Sample ID: MW-1022-20140410-01**

**Lab Sample ID: 480-57719-10**

Date Collected: 04/10/14 12:35

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 03:20	RAL	TAL BUF

**Client Sample ID: MW-1019B-20140410-01**

**Lab Sample ID: 480-57719-11**

Date Collected: 04/10/14 10:10

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 03:44	RAL	TAL BUF

**Client Sample ID: MW-1032-20140410-01**

**Lab Sample ID: 480-57719-12**

Date Collected: 04/10/14 11:45

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 04:08	RAL	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1017D-20140410-01**

**Lab Sample ID: 480-57719-13**

Date Collected: 04/10/14 09:35

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 04:31	RAL	TAL BUF

**Client Sample ID: MW-1018-20140410-01**

**Lab Sample ID: 480-57719-14**

Date Collected: 04/10/14 13:30

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 04:55	RAL	TAL BUF
Total/NA	Analysis	8260C	DL	4	175485	04/14/14 00:58	LCH	TAL BUF

**Client Sample ID: MW-1031-20140410-01**

**Lab Sample ID: 480-57719-15**

Date Collected: 04/10/14 10:45

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 05:19	RAL	TAL BUF

**Client Sample ID: MW-1008-20140410-01**

**Lab Sample ID: 480-57719-16**

Date Collected: 04/10/14 10:45

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 05:43	RAL	TAL BUF

**Client Sample ID: MW-1025D-20140410-01**

**Lab Sample ID: 480-57719-17**

Date Collected: 04/10/14 09:20

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 01:22	LCH	TAL BUF

**Client Sample ID: MW-1011-20140410-01**

**Lab Sample ID: 480-57719-18**

Date Collected: 04/10/14 14:10

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 06:30	RAL	TAL BUF

TestAmerica Buffalo



# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1024D-20140410-01**

**Lab Sample ID: 480-57719-19**

Date Collected: 04/10/14 08:30

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175358	04/12/14 06:54	RAL	TAL BUF

**Client Sample ID: MW-1020-20140410-01**

**Lab Sample ID: 480-57719-20**

Date Collected: 04/10/14 10:45

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 01:46	LCH	TAL BUF

**Client Sample ID: MW-1034-20140410-01**

**Lab Sample ID: 480-57719-21**

Date Collected: 04/10/14 08:30

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 02:09	LCH	TAL BUF

**Client Sample ID: DUP-004-20140410-01**

**Lab Sample ID: 480-57719-22**

Date Collected: 04/10/14 13:13

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 02:33	LCH	TAL BUF

**Client Sample ID: MW-1010D-20140410-01**

**Lab Sample ID: 480-57719-23**

Date Collected: 04/10/14 10:00

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 02:57	LCH	TAL BUF

**Client Sample ID: MW-1027-20140410-01**

**Lab Sample ID: 480-57719-24**

Date Collected: 04/10/14 09:35

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 03:21	LCH	TAL BUF

# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1016D-20140410-01**

**Lab Sample ID: 480-57719-25**

Date Collected: 04/10/14 09:15

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 03:44	LCH	TAL BUF

**Client Sample ID: MW-1013-20140410-01**

**Lab Sample ID: 480-57719-26**

Date Collected: 04/10/14 08:45

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 04:08	LCH	TAL BUF

**Client Sample ID: TB-001-20140410-01**

**Lab Sample ID: 480-57719-27**

Date Collected: 04/10/14 00:00

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 04:32	LCH	TAL BUF

**Client Sample ID: MW-1009-20140410-01**

**Lab Sample ID: 480-57719-28**

Date Collected: 04/10/14 11:30

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 04:56	LCH	TAL BUF

**Client Sample ID: MW-1006-20140410-01**

**Lab Sample ID: 480-57719-29**

Date Collected: 04/10/14 11:15

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 05:20	LCH	TAL BUF

**Client Sample ID: MW-1005-20140410-01**

**Lab Sample ID: 480-57719-30**

Date Collected: 04/10/14 11:50

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 05:44	LCH	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

**Client Sample ID: MW-1004-20140410-01**

**Lab Sample ID: 480-57719-31**

Date Collected: 04/10/14 12:00

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 06:07	LCH	TAL BUF

**Client Sample ID: DUP-001-20140410-01**

**Lab Sample ID: 480-57719-32**

Date Collected: 04/10/14 11:11

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175755	04/15/14 00:55	LCH	TAL BUF

**Client Sample ID: MW-1002B-20140410-01**

**Lab Sample ID: 480-57719-33**

Date Collected: 04/10/14 12:30

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175485	04/14/14 06:55	LCH	TAL BUF

**Client Sample ID: MW-1003-20140410-01**

**Lab Sample ID: 480-57719-34**

Date Collected: 04/10/14 13:15

Matrix: Water

Date Received: 04/11/14 01:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	175755	04/15/14 01:19	LCH	TAL BUF

## Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Certification Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

## Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-14
California	State Program	9	1169CA	09-30-14
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-15
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	01-31-15 *
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	03-31-15
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-15
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14 *
Minnesota	NELAP	5	036-999-337	12-31-14
New Hampshire	NELAP	1	2337	11-17-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	03-31-15
North Dakota	State Program	8	R-176	03-31-14 *
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-30-14
Tennessee	State Program	4	TN02970	03-31-15
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-15
West Virginia DEP	State Program	3	252	05-31-14
Wisconsin	State Program	5	998310390	08-31-14

\* Expired certification is currently pending renewal and is considered valid.

# Method Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

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Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF

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**Protocol References:**

MA DEP = Massachusetts Department Of Environmental Protection

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



# Sample Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-57719-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-57719-1	MW-1030-20140410-01	Water	04/10/14 10:11	04/11/14 01:45
480-57719-2	MW-1028-20140410-01	Water	04/10/14 09:25	04/11/14 01:45
480-57719-3	MW-1025M-20140410-01	Water	04/10/14 08:55	04/11/14 01:45
480-57719-4	DUP-003-20140410-01	Water	04/10/14 03:33	04/11/14 01:45
480-57719-5	MW-1015D-20140410-01	Water	04/10/14 08:20	04/11/14 01:45
480-57719-6	MW-1033-20140410-01	Water	04/10/14 08:58	04/11/14 01:45
480-57719-7	DUP-002-20140410-01	Water	04/10/14 10:10	04/11/14 01:45
480-57719-8	MW-1023-20140410-01	Water	04/10/14 13:30	04/11/14 01:45
480-57719-9	MW-1010M-20140410-01	Water	04/10/14 10:25	04/11/14 01:45
480-57719-10	MW-1022-20140410-01	Water	04/10/14 12:35	04/11/14 01:45
480-57719-11	MW-1019B-20140410-01	Water	04/10/14 10:10	04/11/14 01:45
480-57719-12	MW-1032-20140410-01	Water	04/10/14 11:45	04/11/14 01:45
480-57719-13	MW-1017D-20140410-01	Water	04/10/14 09:35	04/11/14 01:45
480-57719-14	MW-1018-20140410-01	Water	04/10/14 13:30	04/11/14 01:45
480-57719-15	MW-1031-20140410-01	Water	04/10/14 10:45	04/11/14 01:45
480-57719-16	MW-1008-20140410-01	Water	04/10/14 10:45	04/11/14 01:45
480-57719-17	MW-1025D-20140410-01	Water	04/10/14 09:20	04/11/14 01:45
480-57719-18	MW-1011-20140410-01	Water	04/10/14 14:10	04/11/14 01:45
480-57719-19	MW-1024D-20140410-01	Water	04/10/14 08:30	04/11/14 01:45
480-57719-20	MW-1020-20140410-01	Water	04/10/14 10:45	04/11/14 01:45
480-57719-21	MW-1034-20140410-01	Water	04/10/14 08:30	04/11/14 01:45
480-57719-22	DUP-004-20140410-01	Water	04/10/14 13:13	04/11/14 01:45
480-57719-23	MW-1010D-20140410-01	Water	04/10/14 10:00	04/11/14 01:45
480-57719-24	MW-1027-20140410-01	Water	04/10/14 09:35	04/11/14 01:45
480-57719-25	MW-1016D-20140410-01	Water	04/10/14 09:15	04/11/14 01:45
480-57719-26	MW-1013-20140410-01	Water	04/10/14 08:45	04/11/14 01:45
480-57719-27	TB-001-20140410-01	Water	04/10/14 00:00	04/11/14 01:45
480-57719-28	MW-1009-20140410-01	Water	04/10/14 11:30	04/11/14 01:45
480-57719-29	MW-1006-20140410-01	Water	04/10/14 11:15	04/11/14 01:45
480-57719-30	MW-1005-20140410-01	Water	04/10/14 11:50	04/11/14 01:45
480-57719-31	MW-1004-20140410-01	Water	04/10/14 12:00	04/11/14 01:45
480-57719-32	DUP-001-20140410-01	Water	04/10/14 11:11	04/11/14 01:45
480-57719-33	MW-1002B-20140410-01	Water	04/10/14 12:30	04/11/14 01:45
480-57719-34	MW-1003-20140410-01	Water	04/10/14 13:15	04/11/14 01:45

## Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-57719-1

**Login Number: 57719**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Wienke, Robert K**

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.	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	N/A	
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	
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	



Chain of Custody



Lab: Ma  
Sampler: Stacey Bracy  
Client Contact: Mr. Ethan Gyles  
Phone: 978-875-0426  
Company: ERM-Northeast  
Address: One Beacon Street 5th Floor  
City: Boston  
State, Zip: MA, 02108  
Phone: 1-617-646-7800  
Email: ethan.gyles@erm.com  
Project Name: Joshua Klement  
Project #: 48007117  
Site: Wayland

COC No: 480-47206-10762.5  
Page: Page 5 of 7  
Job #: Page 1

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note:
MW-1030-20140410-01	4/10/14	10:11	C	Water	N	N		
MW-1028-20140410-01	4/10/14	9:25	C	Water	N	N		
MW-1025M-20140410-01	4/10/14	8:55	C	Water	N	N		
PUP-003-20140410-01	4/10/14	3:33	C	Water	N	N		
MW-1015D-20140410-01	4/10/14	8:20	C	Water	N	N		
MW-1033-20140410-01	4/10/14	8:58	C	Water	N	N		
PUP-002-20140410-01	4/10/14	10:10	C	Water	N	N		
MW-1023-20140410-01	4/10/14	13:30	C	Water	N	N		
MW-1010M-20140410-01	4/10/14	16:25	C	Water	N	N		
MW-1022-20140410-01	4/10/14	12:35	C	Water	N	N		
MW-1019B-20140410-01	4/10/14	10:10	C	Water	N	N		

Preservation Codes:  
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4.5, Z - other (specify)

Other:   
Only 2 vials collected

Special Instructions/Note:

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Special Instructions/QC Requirements:

Receives by: [Signature] Date/Time: 4/10/14 15:43 Company: ERM  
 Relinquished by: [Signature] Date/Time: 4/10/14 16:00 Company: TAC  
 Relinquished by: [Signature] Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Empty Kit Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Relinquished by: [Signature] Date/Time: 4/10/14 15:43 Company: ERM  
 Relinquished by: [Signature] Date/Time: 4/10/14 16:00 Company: TAC  
 Relinquished by: [Signature] Date/Time: \_\_\_\_\_ Company: \_\_\_\_\_

Custody Seals Intact:  Yes  No  
 Custody Seal No.: 297





**Chain of Custody Record**

<b>Client Information</b> Client Contact: <u>Stacey Braga</u> Phone: <u>978-875-2426</u> Company: <u>Sosha Klement</u> Address: <u>One Beacon Street 5th Floor</u> City: <u>Boston</u> State, Zip: <u>MA, 02108</u> Phone: <u>1-617-646-7800</u> Email: <u>etbaoc@erm.com</u> Project Name: <u>Josha Klement @erm.com</u> Site: <u>Wayland, MA</u>		Lab PM: <u>Mason, Becky C</u> E-Mail: <u>becky.mason@testamericainc.com</u> COC No: <u>480-47206-10762.2</u> Page: <u>Page 2 of 7</u> Page <u>3</u> Job #:	
Due Date Requested: TAT Requested (days): <u>Normal TAT</u> PO #: <u>Purchase Order not required</u> WO #:		Carmer Tracking No(s): Analysis Requested	
Matrix (W=water, S=solid, O=wastewater, I=In-Tissue, A=Air) Sample Type (C=Comp, G=grab) Sample Date Sample Time Preservation Code		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 826MCP - 8260 Total Number of Containers Special Instructions/Note:	
Sample Identification MW-1032-20140410-01 MW-1017D-20140410-01 MW-1018-20140410-01 MW-1031-20140410-01 MW-1008-20140410-01 MW-1025D-20140410-01 MW-1011-20140410-01 MW-1024D-20140410-01 MW-1020-20140410-01 MW-1034-20140410-01 DUP-004-20140410-01		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 X - EDTA Z - other (specify)	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: <u>[Signature]</u> Relinquished by: <u>[Signature]</u> Relinquished by: <u>[Signature]</u>		Received by: <u>[Signature]</u> Received by: <u>[Signature]</u> Received by: <u>[Signature]</u>	
Date/Time: <u>4/16/14 15:40</u> Date/Time: <u>4/16/14 15:40</u> Date/Time: <u>4/16/14 16:00</u>		Date/Time: <u>4/16/14 15:40</u> Date/Time: <u>4/16/14 15:40</u> Date/Time: <u>4/16/14 01:45</u>	
Company: <u>ERM</u> Company: <u>TAC</u> Company: <u>TAC</u>		Company: <u>TAC</u> Company: <u>TAC</u> Company: <u>TAC</u>	
Custody Seals Intact: Δ Yes Δ No		Cooler Temperature(s) °C and Other Remarks: <u>Z-2 #1</u>	



**Chain of Custody Record**

<b>Client Information</b> Client Contact: <u>Mr. Ethan Gyles</u> Phone: <u>978-875-0426</u> Company: <u>ERM-Northeast</u>		Lab PM: <u>Mason, Becky C</u> E-Mail: <u>becky.mason@testamericainc.com</u>		COC No: <u>480-47206-10762.7</u> Page: <u>Page 2 of 3</u> Job #: <u>Page 3</u>				
Address: <u>One Beacon Street 5th Floor</u> City: <u>Boston</u> State, Zip: <u>MA, 02108</u> Phone: <u>1-617-646-7800</u> Email: <u>ethan.gyles@erm.com</u> Project Name: <u>Joshua Klement@erm.com</u> Project #: <u>48007117</u> SOW#: <u>Weyland, MA</u>		Due Date Requested: TAT Requested (days): <u>Normal TAT</u> PO #: <u>Purchase Order not required</u> WO #:		Carrier Tracking No(s):				
Sample Identification <u>MW-1010DZ0410-01</u> <u>MW-1027-20140410-01</u> <u>MW-1016D-20140410-01</u> <u>MW-1013-20140410-01</u> <u>TB-001-20140410-01</u> <u>MW-1009-20140410-01</u> <u>MW-1006-20140410-01</u> <u>MW-1005-20140410-01</u> <u>MW-1004-20140410-01</u> <u>WUP-001-20140410-01</u> <u>MW-1002B-20140410-01</u>		Sample Date <u>4/10/14</u> <u>4/10/14</u> <u>4/10/14</u> <u>4/10/14</u> <u>4/10/14</u> <u>4/10/14</u> <u>4/10/14</u> <u>4/10/14</u> <u>4/10/14</u> <u>4/10/14</u>	Sample Time <u>10:00</u> <u>9:35</u> <u>9:15</u> <u>8:45</u> <u>-</u> <u>11:30</u> <u>11:15</u> <u>11:50</u> <u>12:00</u> <u>11:11</u> <u>12:30</u>	Sample Type (C=Comp, G=grab) <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	Matrix (Water, Soil, Oil, Other) <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u> <u>Water</u>	Field Filtered Sample (Yes or No) Perform MSD (Yes or No) 8260MCP - 8260 A N N N N N N N N N	Analysis Requested Total Number of Containers Preservation Codes: A-HCL B-NaOH C-Zn Acetate D-Nitric Acid E-NaHSO4 F-MeOH G-Amchlor H-Ascorbic Acid I-Ice J-DI Water K-EDTA L-EDA Other: M-Hexane N-None O-AsNaO2 P-Na2O4S Q-Na2SO3 R-Na2S2O3 S-H2SO4 T-TSP Dodecahydrate U-Acetone V-MCAA W-ph 4.5 Z-other (specify)	Special Instructions/Note: <u>Trip Blank</u>
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:				
Empty Kit Relinquished by:		Date:		Method of Shipment:				
Relinquished by: <u>[Signature]</u>		Date/Time: <u>4/10/14 15:40</u>		Company: <u>ERM</u>				
Relinquished by: <u>[Signature]</u>		Date/Time: <u>4/10/14 16:00</u>		Company: <u>TAC</u>				
Relinquished by: <u>[Signature]</u>		Date/Time:		Company:				
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: <u>2-9 #1</u>		Cooler Temperature(s) °C and Other Remarks:				



**Chain of Custody Record**

<b>Client Information</b> Client Contact: <u>Mr. Ethan Gyles</u> Company: <u>Josina Wlement</u> ERM-Northeast Address: <u>One Beacon Street 5th Floor</u> City: <u>Boston</u> State, Zip: <u>MA, 02108</u> Phone: <u>1-617-646-7800</u> Email: <u>ethan.gyles@erm.com</u> Project Name: <u>Josina Wlement @ ERM Corp</u> Site: <u>Weyland, MA</u>		Lab PM: <u>Mason, Becky C</u> E-Mail: <u>becky.mason@testamericainc.com</u> Phone: <u>978-875-0426</u> Sampler: <u>Stacey Bragg</u> Carrier Tracking No(s):		COC No: <u>480-47206-10762.6</u> Page: <u>Page 07 - Page 4</u> Job #:	
Due Date Requested: TAT Requested (days): <u>Normal TAT</u> PO #: <u>Purchase Order not required</u> WO #:		Analysis Requested		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Sample Identification <u>MW-1003-20140410-01</u>		Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> A Matrix (Water, Sludge, Oil, Other) <u>Water</u>		Total Number of Containers	
Sample Date: <u>4/10/14 13:15</u> Sample Type (C=Comp, G=grab) <u>C</u> Preservation Code: <u>W3</u>		Field Filled Sample (Yes or No) <input checked="" type="checkbox"/> A Matrix (Water, Sludge, Oil, Other) <u>Water</u>		Special Instructions/Note:	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant		Sample Date: <u>4/10/14 15:40</u> Date/Time: <u>4/10/14 1600</u>		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Date: _____ Time: _____		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Date/Time: <u>4/10/14 15:40</u> Date/Time: <u>4/10/14 1600</u>		Method of Shipment:	
Relinquished by: <u>[Signature]</u> Relinquished by: <u>[Signature]</u> Relinquished by:		Company: <u>ERM</u> Company: <u>TAL</u> Company:		Date/Time: <u>4/10/14 1540</u> Date/Time: <u>4/11/14 0145</u> Date/Time:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>2.9 #1</u>	

