

**Environmental  
Resources  
Management**

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

<http://www.erm.com>

15 May 2018  
Reference: 0437996

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



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

Dear Mr. Costello:

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

ERM collected groundwater samples from thirty five (35) monitoring wells located on National Development property in April 2018. Innovative Engineering Solutions, Inc. (IESI) collected groundwater samples from twenty nine (29) monitoring wells located on National Development property in April 2018. These samples were submitted to TestAmerica Laboratories, Inc. of Amherst, NY and Burlington, VT for analysis. All analytical results are attached to this letter.

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

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

Mr. Costello  
15 May 2018  
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**Environmental  
Resources  
Management**

Sincerely,



Lyndsey Colburn, P.G.  
*Partner-in-Charge*



Larry Mastera  
*Project Manager*

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

cc: Jonathan Hone, Raytheon Company  
PIP Repositories



**NOTICE OF ENVIRONMENTAL SAMPLING**

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

-

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

1. Street Address: \_\_\_\_\_  
City/Town: \_\_\_\_\_ Zip Code: \_\_\_\_\_

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

1. Name: \_\_\_\_\_  
2. Street Address: \_\_\_\_\_  
City/Town: \_\_\_\_\_ Zip Code: \_\_\_\_\_

**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: \_\_\_\_\_  
City/Town: \_\_\_\_\_ Zip Code: \_\_\_\_\_
2. MCP phase of work during which the sampling will be/has been conducted:
- |  |   |
|--|---|
| Immediate Response Action              | Phase III Feasibility Evaluation                              |
| Release Abatement Measure              | Phase IV Remedy Implementation Plan                           |
| Utility-related Abatement Measure      | Phase V/Remedy Operation Status                               |
| Phase I Initial Site Investigation     | Post-Temporary Solution Operation, Maintenance and Monitoring |
| Phase II Comprehensive Site Assessment | Other _____   |
- (specify)
3. Description of property where sampling will be/has been conducted:  
residential      commercial      industrial      school/playground      Other \_\_\_\_\_  
(specify)
4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

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

Contact Name: \_\_\_\_\_  
Street Address: \_\_\_\_\_  
City/Town: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Telephone: \_\_\_\_\_ Email: \_\_\_\_\_



**Massachusetts Department of Environmental Protection**  
*Bureau of Waste Site Cleanup*

**BWSC123**

This Notice is Related to:  
Release Tracking Number

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**NOTICE OF ENVIRONMENTAL SAMPLING**

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

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

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

THE PERSON(S) PROVIDING THIS NOTICE

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

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

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

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

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Burlington

30 Community Drive

Suite 11

South Burlington, VT 05403

Tel: (802)660-1990

TestAmerica Job ID: 200-43073-1

Client Project/Site: IDS Wayland

For:

ERM-Northeast

One Beacon Steet

5th Floor

Boston, Massachusetts 02108

Attn: Lyndsey Colburn



Authorized for release by:

4/19/2018 2:19:46 PM

Steve Hartmann, Project Manager I

(413)572-4000

[steve.hartmann@testamericainc.com](mailto:steve.hartmann@testamericainc.com)

Designee for

Becky Mason, Project Manager II

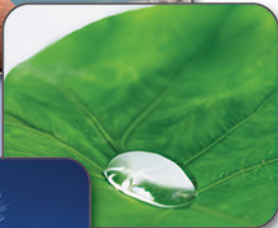
(413)572-4000

[becky.mason@testamericainc.com](mailto:becky.mason@testamericainc.com)

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

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

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



### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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# Definitions/Glossary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43073-1

## 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
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: 200-43073-1

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**Job ID: 200-43073-1**

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**Laboratory: TestAmerica Burlington**

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## Narrative

**Job Narrative**  
**200-43073-1**

### Comments

No additional comments.

### Receipt

The samples were received on 4/13/2018 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.8° C.

### 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.





# Detection Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43073-1

**Client Sample ID: MW-1008-20180412-01**

**Lab Sample ID: 200-43073-1**

No Detections.

**Client Sample ID: MW-1011-20180412-01**

**Lab Sample ID: 200-43073-2**

No Detections.

**Client Sample ID: MW-1018-20180412-01**

**Lab Sample ID: 200-43073-3**

No Detections.

**Client Sample ID: MW-1035-20180412-01**

**Lab Sample ID: 200-43073-4**

No Detections.

**Client Sample ID: MW-1036-20180412-01**

**Lab Sample ID: 200-43073-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.25		0.20		ug/L	1		522	Total/NA

**Client Sample ID: MW-1037-20180412-01**

**Lab Sample ID: 200-43073-6**

No Detections.

**Client Sample ID: MW-1038-20180412-01**

**Lab Sample ID: 200-43073-7**

No Detections.

**Client Sample ID: MW-1039-20180412-01**

**Lab Sample ID: 200-43073-8**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.32		0.20		ug/L	1		522	Total/NA

**Client Sample ID: DUP-002-20180412-01**

**Lab Sample ID: 200-43073-9**

No Detections.

**Client Sample ID: DUP-001-20180412-01**

**Lab Sample ID: 200-43073-10**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.28		0.20		ug/L	1		522	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43073-1

**Client Sample ID: MW-1008-20180412-01**

**Lab Sample ID: 200-43073-1**

Date Collected: 04/12/18 12:43

Matrix: Water

Date Received: 04/13/18 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/18/18 13:51	04/18/18 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	89		46 - 130				04/18/18 13:51	04/18/18 18:13	1

**Client Sample ID: MW-1011-20180412-01**

**Lab Sample ID: 200-43073-2**

Date Collected: 04/12/18 11:19

Matrix: Water

Date Received: 04/13/18 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/18/18 13:51	04/18/18 18:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	80		46 - 130				04/18/18 13:51	04/18/18 18:27	1

**Client Sample ID: MW-1018-20180412-01**

**Lab Sample ID: 200-43073-3**

Date Collected: 04/12/18 14:40

Matrix: Water

Date Received: 04/13/18 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/18/18 13:51	04/18/18 18:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	86		46 - 130				04/18/18 13:51	04/18/18 18:41	1

**Client Sample ID: MW-1035-20180412-01**

**Lab Sample ID: 200-43073-4**

Date Collected: 04/12/18 11:02

Matrix: Water

Date Received: 04/13/18 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/18/18 13:51	04/18/18 18:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	89		46 - 130				04/18/18 13:51	04/18/18 18:54	1

**Client Sample ID: MW-1036-20180412-01**

**Lab Sample ID: 200-43073-5**

Date Collected: 04/12/18 09:20

Matrix: Water

Date Received: 04/13/18 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.25		0.20		ug/L		04/18/18 13:51	04/18/18 19:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	72		46 - 130				04/18/18 13:51	04/18/18 19:21	1

TestAmerica Burlington

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43073-1

**Client Sample ID: MW-1037-20180412-01**

**Lab Sample ID: 200-43073-6**

Date Collected: 04/12/18 14:35

Matrix: Water

Date Received: 04/13/18 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/18/18 13:51	04/18/18 19:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	107		46 - 130				04/18/18 13:51	04/18/18 19:35	1

**Client Sample ID: MW-1038-20180412-01**

**Lab Sample ID: 200-43073-7**

Date Collected: 04/12/18 12:22

Matrix: Water

Date Received: 04/13/18 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/18/18 13:51	04/18/18 19:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	109		46 - 130				04/18/18 13:51	04/18/18 19:49	1

**Client Sample ID: MW-1039-20180412-01**

**Lab Sample ID: 200-43073-8**

Date Collected: 04/12/18 09:22

Matrix: Water

Date Received: 04/13/18 10:30

**Method: 522 - 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		04/18/18 13:51	04/18/18 20:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	91		46 - 130				04/18/18 13:51	04/18/18 20:02	1

**Client Sample ID: DUP-002-20180412-01**

**Lab Sample ID: 200-43073-9**

Date Collected: 04/12/18 00:02

Matrix: Water

Date Received: 04/13/18 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/18/18 13:51	04/18/18 20:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	84		46 - 130				04/18/18 13:51	04/18/18 20:16	1

**Client Sample ID: DUP-001-20180412-01**

**Lab Sample ID: 200-43073-10**

Date Collected: 04/12/18 00:01

Matrix: Water

Date Received: 04/13/18 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.28		0.20		ug/L		04/18/18 13:51	04/18/18 20:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	86		46 - 130				04/18/18 13:51	04/18/18 20:29	1

TestAmerica Burlington

# Surrogate Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43073-1

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

**Matrix: Water**

**Prep Type: Total/NA**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (46-130)
200-43073-1	MW-1008-20180412-01	89
200-43073-2	MW-1011-20180412-01	80
200-43073-3	MW-1018-20180412-01	86
200-43073-4	MW-1035-20180412-01	89
200-43073-5	MW-1036-20180412-01	72
200-43073-6	MW-1037-20180412-01	107
200-43073-7	MW-1038-20180412-01	109
200-43073-8	MW-1039-20180412-01	91
200-43073-9	DUP-002-20180412-01	84
200-43073-10	DUP-001-20180412-01	86
LCS 200-128601/2-A	Lab Control Sample	75
LCSD 200-128601/3-A	Lab Control Sample Dup	80
MB 200-128601/1-A	Method Blank	78

### Surrogate Legend

DXE = 1,4-Dioxane-d8 (Surr)

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43073-1

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

**Lab Sample ID: MB 200-128601/1-A**  
**Matrix: Water**  
**Analysis Batch: 128612**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 128601**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/18/18 13:51	04/18/18 17:05	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	78		46 - 130				04/18/18 13:51	04/18/18 17:05	1

**Lab Sample ID: LCS 200-128601/2-A**  
**Matrix: Water**  
**Analysis Batch: 128612**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 128601**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane	2.00	1.87		ug/L		93	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1,4-Dioxane-d8 (Surr)	75		46 - 130						

**Lab Sample ID: LCSD 200-128601/3-A**  
**Matrix: Water**  
**Analysis Batch: 128612**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 128601**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.00	1.99		ug/L		99	70 - 130	6	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,4-Dioxane-d8 (Surr)	80		46 - 130						

# QC Association Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43073-1

## GC/MS Semi VOA

### Prep Batch: 128601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-43073-1	MW-1008-20180412-01	Total/NA	Water	3535A	
200-43073-2	MW-1011-20180412-01	Total/NA	Water	3535A	
200-43073-3	MW-1018-20180412-01	Total/NA	Water	3535A	
200-43073-4	MW-1035-20180412-01	Total/NA	Water	3535A	
200-43073-5	MW-1036-20180412-01	Total/NA	Water	3535A	
200-43073-6	MW-1037-20180412-01	Total/NA	Water	3535A	
200-43073-7	MW-1038-20180412-01	Total/NA	Water	3535A	
200-43073-8	MW-1039-20180412-01	Total/NA	Water	3535A	
200-43073-9	DUP-002-20180412-01	Total/NA	Water	3535A	
200-43073-10	DUP-001-20180412-01	Total/NA	Water	3535A	
MB 200-128601/1-A	Method Blank	Total/NA	Water	3535A	
LCS 200-128601/2-A	Lab Control Sample	Total/NA	Water	3535A	
LCSD 200-128601/3-A	Lab Control Sample Dup	Total/NA	Water	3535A	

### Analysis Batch: 128612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-43073-1	MW-1008-20180412-01	Total/NA	Water	522	128601
200-43073-2	MW-1011-20180412-01	Total/NA	Water	522	128601
200-43073-3	MW-1018-20180412-01	Total/NA	Water	522	128601
200-43073-4	MW-1035-20180412-01	Total/NA	Water	522	128601
200-43073-5	MW-1036-20180412-01	Total/NA	Water	522	128601
200-43073-6	MW-1037-20180412-01	Total/NA	Water	522	128601
200-43073-7	MW-1038-20180412-01	Total/NA	Water	522	128601
200-43073-8	MW-1039-20180412-01	Total/NA	Water	522	128601
200-43073-9	DUP-002-20180412-01	Total/NA	Water	522	128601
200-43073-10	DUP-001-20180412-01	Total/NA	Water	522	128601
MB 200-128601/1-A	Method Blank	Total/NA	Water	522	128601
LCS 200-128601/2-A	Lab Control Sample	Total/NA	Water	522	128601
LCSD 200-128601/3-A	Lab Control Sample Dup	Total/NA	Water	522	128601

# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43073-1

**Client Sample ID: MW-1008-20180412-01**

**Lab Sample ID: 200-43073-1**

**Date Collected: 04/12/18 12:43**

**Matrix: Water**

**Date Received: 04/13/18 10:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			128601	04/18/18 13:51	SAC	TAL BUR
Total/NA	Analysis	522		1	128612	04/18/18 18:13	K1P	TAL BUR

**Client Sample ID: MW-1011-20180412-01**

**Lab Sample ID: 200-43073-2**

**Date Collected: 04/12/18 11:19**

**Matrix: Water**

**Date Received: 04/13/18 10:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			128601	04/18/18 13:51	SAC	TAL BUR
Total/NA	Analysis	522		1	128612	04/18/18 18:27	K1P	TAL BUR

**Client Sample ID: MW-1018-20180412-01**

**Lab Sample ID: 200-43073-3**

**Date Collected: 04/12/18 14:40**

**Matrix: Water**

**Date Received: 04/13/18 10:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			128601	04/18/18 13:51	SAC	TAL BUR
Total/NA	Analysis	522		1	128612	04/18/18 18:41	K1P	TAL BUR

**Client Sample ID: MW-1035-20180412-01**

**Lab Sample ID: 200-43073-4**

**Date Collected: 04/12/18 11:02**

**Matrix: Water**

**Date Received: 04/13/18 10:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			128601	04/18/18 13:51	SAC	TAL BUR
Total/NA	Analysis	522		1	128612	04/18/18 18:54	K1P	TAL BUR

**Client Sample ID: MW-1036-20180412-01**

**Lab Sample ID: 200-43073-5**

**Date Collected: 04/12/18 09:20**

**Matrix: Water**

**Date Received: 04/13/18 10:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			128601	04/18/18 13:51	SAC	TAL BUR
Total/NA	Analysis	522		1	128612	04/18/18 19:21	K1P	TAL BUR

**Client Sample ID: MW-1037-20180412-01**

**Lab Sample ID: 200-43073-6**

**Date Collected: 04/12/18 14:35**

**Matrix: Water**

**Date Received: 04/13/18 10:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			128601	04/18/18 13:51	SAC	TAL BUR
Total/NA	Analysis	522		1	128612	04/18/18 19:35	K1P	TAL BUR

TestAmerica Burlington

# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43073-1

**Client Sample ID: MW-1038-20180412-01**

**Lab Sample ID: 200-43073-7**

**Date Collected: 04/12/18 12:22**

**Matrix: Water**

**Date Received: 04/13/18 10:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			128601	04/18/18 13:51	SAC	TAL BUR
Total/NA	Analysis	522		1	128612	04/18/18 19:49	K1P	TAL BUR

**Client Sample ID: MW-1039-20180412-01**

**Lab Sample ID: 200-43073-8**

**Date Collected: 04/12/18 09:22**

**Matrix: Water**

**Date Received: 04/13/18 10:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			128601	04/18/18 13:51	SAC	TAL BUR
Total/NA	Analysis	522		1	128612	04/18/18 20:02	K1P	TAL BUR

**Client Sample ID: DUP-002-20180412-01**

**Lab Sample ID: 200-43073-9**

**Date Collected: 04/12/18 00:02**

**Matrix: Water**

**Date Received: 04/13/18 10:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			128601	04/18/18 13:51	SAC	TAL BUR
Total/NA	Analysis	522		1	128612	04/18/18 20:16	K1P	TAL BUR

**Client Sample ID: DUP-001-20180412-01**

**Lab Sample ID: 200-43073-10**

**Date Collected: 04/12/18 00:01**

**Matrix: Water**

**Date Received: 04/13/18 10:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			128601	04/18/18 13:51	SAC	TAL BUR
Total/NA	Analysis	522		1	128612	04/18/18 20:29	K1P	TAL BUR

## Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990



# Accreditation/Certification Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43073-1

## Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
ANAB	DoD ELAP		L2336	02-25-20
Connecticut	State Program	1	PH-0751	09-30-19
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-01-19
Florida	NELAP	4	E87467	06-30-18
Maine	State Program	1	VT00008	04-17-19
Minnesota	NELAP	5	050-999-436	12-31-18
New Jersey	NELAP	2	VT972	06-30-18
New York	NELAP	2	10391	04-01-19
Pennsylvania	NELAP	3	68-00489	04-30-18 *
Rhode Island	State Program	1	LAO00298	12-30-18
US Fish & Wildlife	Federal		LE-058448-0	07-31-18
USDA	Federal		P330-11-00093	07-24-20
Vermont	State Program	1	VT-4000	12-31-18
Virginia	NELAP	3	460209	12-14-18

## Laboratory: TestAmerica Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-18
California	State Program	9	2931	04-01-19
Connecticut	State Program	1	PH-0568	09-30-18
Florida	NELAP	4	E87672	06-30-18
Georgia	State Program	4	956	03-31-18 *
Illinois	NELAP	5	200003	09-30-18
Iowa	State Program	7	374	03-01-19
Kansas	NELAP	7	E-10187	01-31-19
Kentucky (DW)	State Program	4	90029	12-31-18
Kentucky (UST)	State Program	4	30	03-31-19
Kentucky (WW)	State Program	4	90029	12-31-18
Louisiana	NELAP	6	02031	06-30-18
Maine	State Program	1	NY00044	12-04-18
Maryland	State Program	3	294	03-31-19
Massachusetts	State Program	1	M-NY044	06-30-18
Michigan	State Program	5	9937	03-31-19
Minnesota	NELAP	5	036-999-337	12-31-18
New Hampshire	NELAP	1	2337	11-17-18
New Jersey	NELAP	2	NY455	06-30-18
New York	NELAP	2	10026	03-31-18 *
North Dakota	State Program	8	R-176	03-31-18 *
Oklahoma	State Program	6	9421	08-31-18
Oregon	NELAP	10	NY200003	06-09-18
Pennsylvania	NELAP	3	68-00281	07-31-18
Rhode Island	State Program	1	LAO00328	12-30-18
Tennessee	State Program	4	TN02970	03-31-19
Texas	NELAP	6	T104704412-15-6	07-31-18
USDA	Federal		P330-11-00386	02-06-21
Virginia	NELAP	3	460185	09-14-18
Washington	State Program	10	C784	02-10-19
Wisconsin	State Program	5	998310390	08-31-18

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Burlington

# Method Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43073-1

Method	Method Description	Protocol	Laboratory
522	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR
3535A	Solid Phase Extraction (SPE)	SW846	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 BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990



# Sample Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43073-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-43073-1	MW-1008-20180412-01	Water	04/12/18 12:43	04/13/18 10:30
200-43073-2	MW-1011-20180412-01	Water	04/12/18 11:19	04/13/18 10:30
200-43073-3	MW-1018-20180412-01	Water	04/12/18 14:40	04/13/18 10:30
200-43073-4	MW-1035-20180412-01	Water	04/12/18 11:02	04/13/18 10:30
200-43073-5	MW-1036-20180412-01	Water	04/12/18 09:20	04/13/18 10:30
200-43073-6	MW-1037-20180412-01	Water	04/12/18 14:35	04/13/18 10:30
200-43073-7	MW-1038-20180412-01	Water	04/12/18 12:22	04/13/18 10:30
200-43073-8	MW-1039-20180412-01	Water	04/12/18 09:22	04/13/18 10:30
200-43073-9	DUP-002-20180412-01	Water	04/12/18 00:02	04/13/18 10:30
200-43073-10	DUP-001-20180412-01	Water	04/12/18 00:01	04/13/18 10:30



*Bunkin*  
360325-8000  
**Chain of Custody Record**  
200-43073 Chain of Custody

**TestAmerica Buffalo**  
10 Hazelwood Drive  
Amherst, NY 14228-2298  
Phone (716) 691-2600 Fax (716) 691-7991

<b>Client Information</b>		Lab PM: Mason, Becky C	
Client Contact: <b>LARRY MASTERA</b>		E-Mail: becky.mason@testamericainc.com	
Company: ERM-Northeast		Job #: 0137990	
Address: One Beacon Steet 5th Floor		COC No: 480-111802-10762.3	
City: Boston		Page: 8 of 8	
State, Zip: MA, 02108		Job #: 0137990	
PO #: Purchase Order not required		Preservation Codes:	
WO #: <b>WAYLAND, MA</b>		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)	
Email: <b>larry.mastera@erm.com</b>		Special Instructions/Note:	
Project Name: <b>IDS Wayland</b>		Total Number of Containers	
Project #: 48007117		522 - 14 Dioxane 522	
Site: <b>WAYLAND, MA</b>		8260MCP - 8260	
Due Date Requested:		Field Filtered Sample (Yes or No)	
TAT Requested (days):		A	
Sample Date		A	
Sample Time		A	
Sample Type (C=Comp, G=grab)		A	
Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)		A	
Preservation Code		A	
MW-1008-20180412-01		Water	
MW-1011-20180412-01		Water	
MW-1018-20180412-01		Water	
MW-1035-20180412-01		Water	
MW-1036-20180412-01		Water	
MW-1037-20180412-01		Water	
MW-1038-20180412-01		Water	
MW-1039-20180412-01		Water	
DUP-002-20180412-01		Water	
DUP-001-20180412-01		Water	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input 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		<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: <i>Alex Bunkin</i>		Date/Time: 4/12/18 15:55	
Relinquished by: <i>[Signature]</i>		Date/Time: 4-12-18 18:00	
Relinquished by: <i>[Signature]</i>		Date/Time: 4-12-18 10:30	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 5.8	
Custody Seal No.: <b>NO #5</b>		Company: <b>TA BUN</b>	

ORIGIN ID: BXCA (781) 468-6900  
PAUL HOBART  
TESTAMERICA  
240 BEAR HILL ROAD  
SUITE 104  
MALTHAM, MA 02451  
UNITED STATES US

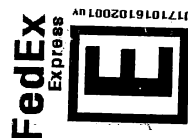
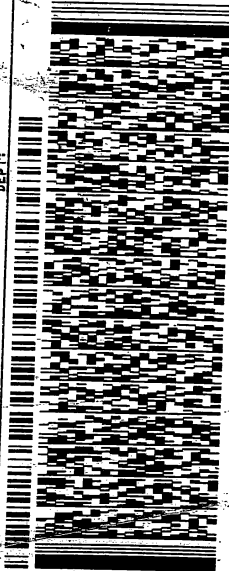
SHIP DATE: 12APR18  
ACTWGT: 45.50 LB  
CAD: 590687/CAFE3111

BILL RECIPIENT

TO  
**SAMPLE RECEIVING**  
**TESTAMERICA BURLINGTON**  
**30 COMMUNITY DRIVE**  
**SUITE 11**  
**SOUTH BURLINGTON VT 05403**

REF: (802) 860-1880  
NO: 100

DEPT:

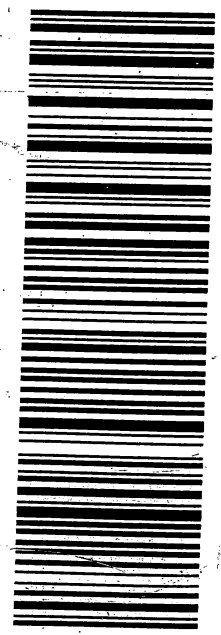


TRK# 4258 8393 0662

FRI - 13 APR 10:30A  
PRIORITY OVERNIGHT

**NC BTVA**

05403  
VT-US BTV



RTI  
916  
917  
10:30



## Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 200-43073-1

**Login Number: 43073**

**List Source: TestAmerica Burlington**

**List Number: 1**

**Creator: Johnson, Eleanor E**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	NA: Lab does not accept radioactive samples
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
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	5.8°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	JR
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	NA: No analysis requiring residual chlorine check assigned

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Burlington

30 Community Drive

Suite 11

South Burlington, VT 05403

Tel: (802)660-1990

TestAmerica Job ID: 200-43081-1

Client Project/Site: IDS Wayland

For:

ERM-Northeast

One Beacon Steet

5th Floor

Boston, Massachusetts 02108

Attn: Lyndsey Colburn



Authorized for release by:

4/20/2018 12:19:03 PM

Steve Hartmann, Project Manager I

(413)572-4000

[steve.hartmann@testamericainc.com](mailto:steve.hartmann@testamericainc.com)

Designee for

Becky Mason, Project Manager II

(413)572-4000

[becky.mason@testamericainc.com](mailto:becky.mason@testamericainc.com)

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

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

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



### LINKS

Review your project  
results through

**TotalAccess**

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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# Definitions/Glossary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43081-1

## 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
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: 200-43081-1

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**Job ID: 200-43081-1**

---

**Laboratory: TestAmerica Burlington**

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**Narrative**

**Job Narrative  
200-43081-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 4/14/2018 12:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.4° C, 1.7° C and 2.1° C.

**GC/MS Semi VOA**

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

**Organic Prep**

Method 3535A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with prep batch 128539, so an LCS/LCSD was performed instead.

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

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# Detection Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43081-1

**Client Sample ID: MW-1020-20180413-01**

**Lab Sample ID: 200-43081-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.34		0.20		ug/L	1		522	Total/NA

**Client Sample ID: MW-1022-20180413-01**

**Lab Sample ID: 200-43081-2**

No Detections.

**Client Sample ID: MW-1023-20180413-01**

**Lab Sample ID: 200-43081-3**

No Detections.

**Client Sample ID: MW-1024D-20180413-01**

**Lab Sample ID: 200-43081-4**

No Detections.

**Client Sample ID: MW-1025M-20180413-01**

**Lab Sample ID: 200-43081-5**

No Detections.

**Client Sample ID: MW-1025D-20180413-01**

**Lab Sample ID: 200-43081-6**

No Detections.

**Client Sample ID: MW-1026D-20180413-01**

**Lab Sample ID: 200-43081-7**

No Detections.

**Client Sample ID: MW-1033-20180413-01**

**Lab Sample ID: 200-43081-8**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.70		0.20		ug/L	1		522	Total/NA

**Client Sample ID: MW-1034-20180413-01**

**Lab Sample ID: 200-43081-9**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.22		0.20		ug/L	1		522	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43081-1

**Client Sample ID: MW-1020-20180413-01**

**Lab Sample ID: 200-43081-1**

Date Collected: 04/13/18 08:21

Matrix: Water

Date Received: 04/14/18 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.34		0.20		ug/L		04/17/18 13:29	04/19/18 12:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	74		46 - 130				04/17/18 13:29	04/19/18 12:44	1

**Client Sample ID: MW-1022-20180413-01**

**Lab Sample ID: 200-43081-2**

Date Collected: 04/13/18 10:12

Matrix: Water

Date Received: 04/14/18 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/17/18 13:29	04/19/18 12:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	85		46 - 130				04/17/18 13:29	04/19/18 12:57	1

**Client Sample ID: MW-1023-20180413-01**

**Lab Sample ID: 200-43081-3**

Date Collected: 04/13/18 08:40

Matrix: Water

Date Received: 04/14/18 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/17/18 13:29	04/19/18 13:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	82		46 - 130				04/17/18 13:29	04/19/18 13:11	1

**Client Sample ID: MW-1024D-20180413-01**

**Lab Sample ID: 200-43081-4**

Date Collected: 04/13/18 08:52

Matrix: Water

Date Received: 04/14/18 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/17/18 13:29	04/19/18 17:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	91		46 - 130				04/17/18 13:29	04/19/18 17:48	1

**Client Sample ID: MW-1025M-20180413-01**

**Lab Sample ID: 200-43081-5**

Date Collected: 04/13/18 09:07

Matrix: Water

Date Received: 04/14/18 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/17/18 13:29	04/19/18 18:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	91		46 - 130				04/17/18 13:29	04/19/18 18:02	1

TestAmerica Burlington

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43081-1

**Client Sample ID: MW-1025D-20180413-01**

**Lab Sample ID: 200-43081-6**

Date Collected: 04/13/18 09:18

Matrix: Water

Date Received: 04/14/18 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/17/18 13:29	04/19/18 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	84		46 - 130	04/17/18 13:29	04/19/18 18:15	1

**Client Sample ID: MW-1026D-20180413-01**

**Lab Sample ID: 200-43081-7**

Date Collected: 04/13/18 09:40

Matrix: Water

Date Received: 04/14/18 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/17/18 13:29	04/19/18 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	86		46 - 130	04/17/18 13:29	04/19/18 18:29	1

**Client Sample ID: MW-1033-20180413-01**

**Lab Sample ID: 200-43081-8**

Date Collected: 04/13/18 10:50

Matrix: Water

Date Received: 04/14/18 12:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.70		0.20		ug/L		04/17/18 13:29	04/19/18 18:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	91		46 - 130	04/17/18 13:29	04/19/18 18:42	1

**Client Sample ID: MW-1034-20180413-01**

**Lab Sample ID: 200-43081-9**

Date Collected: 04/13/18 10:33

Matrix: Water

Date Received: 04/14/18 12:05

**Method: 522 - 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		04/17/18 13:29	04/19/18 14:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	87		46 - 130	04/17/18 13:29	04/19/18 14:32	1

# Surrogate Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43081-1

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

**Matrix: Water**

**Prep Type: Total/NA**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (46-130)
200-43081-1	MW-1020-20180413-01	74
200-43081-2	MW-1022-20180413-01	85
200-43081-3	MW-1023-20180413-01	82
200-43081-4	MW-1024D-20180413-01	91
200-43081-5	MW-1025M-20180413-01	91
200-43081-6	MW-1025D-20180413-01	84
200-43081-7	MW-1026D-20180413-01	86
200-43081-8	MW-1033-20180413-01	91
200-43081-9	MW-1034-20180413-01	87
LCS 200-128539/2-A	Lab Control Sample	89
LCSD 200-128539/3-A	Lab Control Sample Dup	91
MB 200-128539/1-A	Method Blank	83

### Surrogate Legend

DXE = 1,4-Dioxane-d8 (Surr)

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43081-1

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

**Lab Sample ID: MB 200-128539/1-A**  
**Matrix: Water**  
**Analysis Batch: 128632**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 128539**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/17/18 13:29	04/19/18 10:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	83		46 - 130				04/17/18 13:29	04/19/18 10:02	1

**Lab Sample ID: LCS 200-128539/2-A**  
**Matrix: Water**  
**Analysis Batch: 128632**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 128539**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane	8.00	8.36		ug/L		104	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1,4-Dioxane-d8 (Surr)	89		46 - 130						

**Lab Sample ID: LCSD 200-128539/3-A**  
**Matrix: Water**  
**Analysis Batch: 128632**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 128539**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	8.00	8.73		ug/L		109	70 - 130	4	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1,4-Dioxane-d8 (Surr)	91		46 - 130						

# QC Association Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43081-1

## GC/MS Semi VOA

### Prep Batch: 128539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-43081-1	MW-1020-20180413-01	Total/NA	Water	3535A	
200-43081-2	MW-1022-20180413-01	Total/NA	Water	3535A	
200-43081-3	MW-1023-20180413-01	Total/NA	Water	3535A	
200-43081-4	MW-1024D-20180413-01	Total/NA	Water	3535A	
200-43081-5	MW-1025M-20180413-01	Total/NA	Water	3535A	
200-43081-6	MW-1025D-20180413-01	Total/NA	Water	3535A	
200-43081-7	MW-1026D-20180413-01	Total/NA	Water	3535A	
200-43081-8	MW-1033-20180413-01	Total/NA	Water	3535A	
200-43081-9	MW-1034-20180413-01	Total/NA	Water	3535A	
MB 200-128539/1-A	Method Blank	Total/NA	Water	3535A	
LCS 200-128539/2-A	Lab Control Sample	Total/NA	Water	3535A	
LCSD 200-128539/3-A	Lab Control Sample Dup	Total/NA	Water	3535A	

### Analysis Batch: 128632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-43081-1	MW-1020-20180413-01	Total/NA	Water	522	128539
200-43081-2	MW-1022-20180413-01	Total/NA	Water	522	128539
200-43081-3	MW-1023-20180413-01	Total/NA	Water	522	128539
200-43081-4	MW-1024D-20180413-01	Total/NA	Water	522	128539
200-43081-5	MW-1025M-20180413-01	Total/NA	Water	522	128539
200-43081-6	MW-1025D-20180413-01	Total/NA	Water	522	128539
200-43081-7	MW-1026D-20180413-01	Total/NA	Water	522	128539
200-43081-8	MW-1033-20180413-01	Total/NA	Water	522	128539
200-43081-9	MW-1034-20180413-01	Total/NA	Water	522	128539
MB 200-128539/1-A	Method Blank	Total/NA	Water	522	128539
LCS 200-128539/2-A	Lab Control Sample	Total/NA	Water	522	128539
LCSD 200-128539/3-A	Lab Control Sample Dup	Total/NA	Water	522	128539



# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43081-1

**Client Sample ID: MW-1020-20180413-01**

**Lab Sample ID: 200-43081-1**

Date Collected: 04/13/18 08:21

Matrix: Water

Date Received: 04/14/18 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			128539	04/17/18 13:29	SAC	TAL BUR
Total/NA	Analysis	522		1	128632	04/19/18 12:44	K1P	TAL BUR

**Client Sample ID: MW-1022-20180413-01**

**Lab Sample ID: 200-43081-2**

Date Collected: 04/13/18 10:12

Matrix: Water

Date Received: 04/14/18 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			128539	04/17/18 13:29	SAC	TAL BUR
Total/NA	Analysis	522		1	128632	04/19/18 12:57	K1P	TAL BUR

**Client Sample ID: MW-1023-20180413-01**

**Lab Sample ID: 200-43081-3**

Date Collected: 04/13/18 08:40

Matrix: Water

Date Received: 04/14/18 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			128539	04/17/18 13:29	SAC	TAL BUR
Total/NA	Analysis	522		1	128632	04/19/18 13:11	K1P	TAL BUR

**Client Sample ID: MW-1024D-20180413-01**

**Lab Sample ID: 200-43081-4**

Date Collected: 04/13/18 08:52

Matrix: Water

Date Received: 04/14/18 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			128539	04/17/18 13:29	SAC	TAL BUR
Total/NA	Analysis	522		1	128632	04/19/18 17:48	K1P	TAL BUR

**Client Sample ID: MW-1025M-20180413-01**

**Lab Sample ID: 200-43081-5**

Date Collected: 04/13/18 09:07

Matrix: Water

Date Received: 04/14/18 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			128539	04/17/18 13:29	SAC	TAL BUR
Total/NA	Analysis	522		1	128632	04/19/18 18:02	K1P	TAL BUR

**Client Sample ID: MW-1025D-20180413-01**

**Lab Sample ID: 200-43081-6**

Date Collected: 04/13/18 09:18

Matrix: Water

Date Received: 04/14/18 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			128539	04/17/18 13:29	SAC	TAL BUR
Total/NA	Analysis	522		1	128632	04/19/18 18:15	K1P	TAL BUR

TestAmerica Burlington

# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43081-1

**Client Sample ID: MW-1026D-20180413-01**

**Lab Sample ID: 200-43081-7**

**Date Collected: 04/13/18 09:40**

**Matrix: Water**

**Date Received: 04/14/18 12:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			128539	04/17/18 13:29	SAC	TAL BUR
Total/NA	Analysis	522		1	128632	04/19/18 18:29	K1P	TAL BUR

**Client Sample ID: MW-1033-20180413-01**

**Lab Sample ID: 200-43081-8**

**Date Collected: 04/13/18 10:50**

**Matrix: Water**

**Date Received: 04/14/18 12:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			128539	04/17/18 13:29	SAC	TAL BUR
Total/NA	Analysis	522		1	128632	04/19/18 18:42	K1P	TAL BUR

**Client Sample ID: MW-1034-20180413-01**

**Lab Sample ID: 200-43081-9**

**Date Collected: 04/13/18 10:33**

**Matrix: Water**

**Date Received: 04/14/18 12:05**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535A			128539	04/17/18 13:29	SAC	TAL BUR
Total/NA	Analysis	522		1	128632	04/19/18 14:32	K1P	TAL BUR

**Laboratory References:**

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

# Accreditation/Certification Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43081-1

## Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
ANAB	DoD ELAP		L2336	02-25-20
Connecticut	State Program	1	PH-0751	09-30-19
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-01-19
Florida	NELAP	4	E87467	06-30-18
Maine	State Program	1	VT00008	04-17-19
Minnesota	NELAP	5	050-999-436	12-31-18
New Jersey	NELAP	2	VT972	06-30-18
New York	NELAP	2	10391	04-01-19
Pennsylvania	NELAP	3	68-00489	04-30-18 *
Rhode Island	State Program	1	LAO00298	12-30-18
US Fish & Wildlife	Federal		LE-058448-0	07-31-18
USDA	Federal		P330-11-00093	07-24-20
Vermont	State Program	1	VT-4000	12-31-18
Virginia	NELAP	3	460209	12-14-18

## Laboratory: TestAmerica Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-18
California	State Program	9	2931	04-01-19
Connecticut	State Program	1	PH-0568	09-30-18
Florida	NELAP	4	E87672	06-30-18
Georgia	State Program	4	956	03-31-18 *
Illinois	NELAP	5	200003	09-30-18
Iowa	State Program	7	374	03-01-19
Kansas	NELAP	7	E-10187	01-31-19
Kentucky (DW)	State Program	4	90029	12-31-18
Kentucky (UST)	State Program	4	30	03-31-19
Kentucky (WW)	State Program	4	90029	12-31-18
Louisiana	NELAP	6	02031	06-30-18
Maine	State Program	1	NY00044	12-04-18
Maryland	State Program	3	294	03-31-19
Massachusetts	State Program	1	M-NY044	06-30-18
Michigan	State Program	5	9937	03-31-19
Minnesota	NELAP	5	036-999-337	12-31-18
New Hampshire	NELAP	1	2337	11-17-18
New Jersey	NELAP	2	NY455	06-30-18
New York	NELAP	2	10026	03-31-18 *
North Dakota	State Program	8	R-176	03-31-18 *
Oklahoma	State Program	6	9421	08-31-18
Oregon	NELAP	10	NY200003	06-09-18
Pennsylvania	NELAP	3	68-00281	07-31-18
Rhode Island	State Program	1	LAO00328	12-30-18
Tennessee	State Program	4	TN02970	03-31-19
Texas	NELAP	6	T104704412-15-6	07-31-18
USDA	Federal		P330-11-00386	02-06-21
Virginia	NELAP	3	460185	09-14-18
Washington	State Program	10	C784	02-10-19
Wisconsin	State Program	5	998310390	08-31-18

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Burlington

# Method Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 200-43081-1

Method	Method Description	Protocol	Laboratory
522	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR
3535A	Solid Phase Extraction (SPE)	SW846	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 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: 200-43081-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-43081-1	MW-1020-20180413-01	Water	04/13/18 08:21	04/14/18 12:05
200-43081-2	MW-1022-20180413-01	Water	04/13/18 10:12	04/14/18 12:05
200-43081-3	MW-1023-20180413-01	Water	04/13/18 08:40	04/14/18 12:05
200-43081-4	MW-1024D-20180413-01	Water	04/13/18 08:52	04/14/18 12:05
200-43081-5	MW-1025M-20180413-01	Water	04/13/18 09:07	04/14/18 12:05
200-43081-6	MW-1025D-20180413-01	Water	04/13/18 09:18	04/14/18 12:05
200-43081-7	MW-1026D-20180413-01	Water	04/13/18 09:40	04/14/18 12:05
200-43081-8	MW-1033-20180413-01	Water	04/13/18 10:50	04/14/18 12:05
200-43081-9	MW-1034-20180413-01	Water	04/13/18 10:33	04/14/18 12:05



Chain of Custody Record

<b>Client Information</b>		Lab PM: Mason, Becky C		Carrier Tracking No(s):	
Client Contact: Mt. Ethen-Glyce		E-Mail: becky.mason@testamericainc.com		COC No: 480-111802-10762.2	
Company: ERM-Northeast		Phone: 508-498-5311		Page: Page 2 of 3	
Address: One Beacon Street 5th Floor		Due Date Requested:		Job #: 0437996	
City: Boston		TAT Requested (days):		Preservation Codes:	
State, Zip: MA, 02108		Purchase Order not required		M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
E-mail: larry.mastea@erm.com		PO #:		Other:	
ethen.glyce@erm.com		WO #:			
Project Name: IDS Wayland		Project #: 48007117			
Site: WAYLAND, MA		SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Form MS/SD (Yes or No)	Analysis Requested	Total Number of containers	Special Instructions/Note:
MW-1020-20180413-01	04/13/18	08:21	G	Water					
MW-1022-20180413-01		10:12		Water					
MW-1023-20180413-01		08:40		Water					
MW-1024D-20180413-01		08:52		Water					
MW-1025M-20180413-01		09:07		Water					
MW-1025D-20180413-01		09:18		Water					
MW-1026D-20180413-01		09:40		Water					
MW-1033-20180413-01		10:50		Water					
MW-1034-20180413-01		10:33		Water					
				Water					
				Water					

Possible Hazard Identification <input 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	
Deliverable Requested: I, II, III, IV, Other (specify)	
Empty Kit Relinquished by:	Time:
Relinquished by: <i>[Signature]</i>	Date: 04/13/18 15:40
Relinquished by: <i>[Signature]</i>	Date: 11-13-18 10:17
Relinquished by: <i>[Signature]</i>	Date: 4/14/18 12:05
Custody Seal No.:	Company: ERM
△ Yes △ No	Company: TR

SHIP DATE: 13APR18  
ACTWGT: 40.15 LB  
CAD: 590887/CAFE3111

BILL RECIPIENT

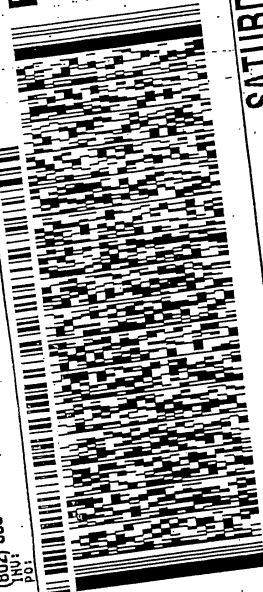
ORIGIN ID:BXCA (781) 466-6900

PAUL HOBART  
TESTAMERICA  
240 BEAR HILL ROAD  
SUITE 104  
WALTHAM, MA 02451  
UNITED STATES US

TO **SAMPLE RECEIVING**  
**TESTAMERICA BURLINGTON**  
**30 COMMUNITY DRIVE**  
**SUITE 11**  
**SOUTH BURLINGTON VT 05403**

REF: (802) 660-1980  
DEPT: INV: PO:

FedEx Express



**SATURDAY 12:00P**  
**PRIORITY OVERNIGHT**

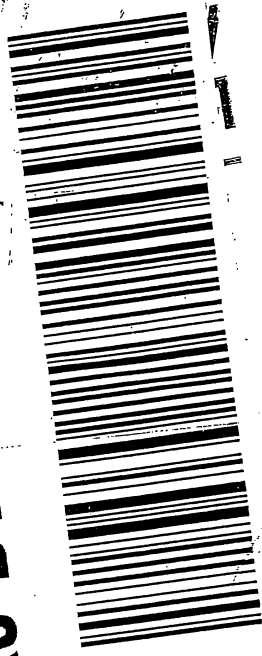
2 of 3  
MPS# 4258 8393 0732  
Mstr# 4258 8393 0721

0201

**XO BTVA**

VT-US

05403 BTV



SHIP DATE: 13APR18  
ACTWGT: 50.35 LB  
CAD: 590887/CAFE3111

BILL RECIPIENT

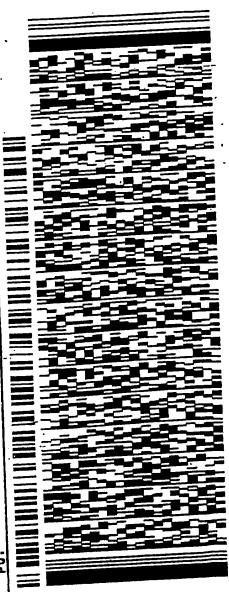
ORIGIN ID:BXCA (781) 466-6900

PAUL HOBART  
TESTAMERICA  
240 BEAR HILL ROAD  
SUITE 104  
WALTHAM, MA 02451  
UNITED STATES US

TO **SAMPLE RECEIVING**  
**TESTAMERICA BURLINGTON**  
**30 COMMUNITY DRIVE**  
**SUITE 11**  
**SOUTH BURLINGTON VT 05403**

REF: (802) 660-1980  
DEPT: INV: PO:

FedEx Express



**SATURDAY 12:00P**  
**PRIORITY OVERNIGHT**

1 of 3

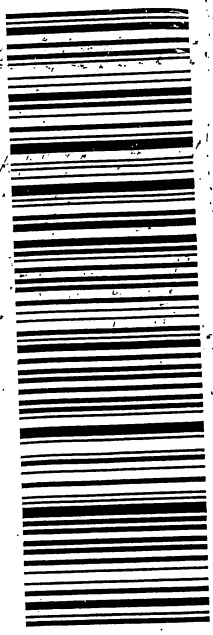
TRK# 4258 8393 0721  
0201  
## MASTER ##

05403

**XO BTVA**

VT-US

BTV



ORIGIN ID: BXCA (781) 466-6900  
PAUL HOBART  
TESTAMERICA  
240 BEAR HILL ROAD  
SUITE 104  
WALTHAM, MA 02451  
UNITED STATES US

SHIP DATE: 13APR18  
ACTWGT: 55.25 LB  
CAD: 590687/CAFE3111

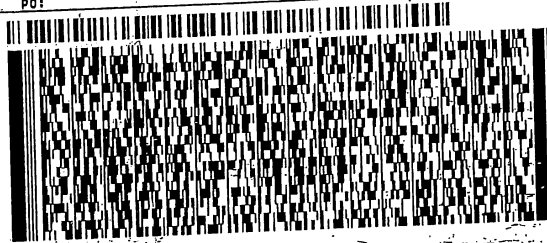
BILL RECIPIENT

TO **SAMPLE RECEIVING**  
**TESTAMERICA BURLINGTON**  
**30 COMMUNITY DRIVE**  
**SUITE 11**  
**SOUTH BURLINGTON VT 05403**

(802) 660-1990  
INU:  
PO:

REF:

DEPT:



**FedEx**  
Express



J77101610200101

3 of 3  
MP# 4258 8393 0743  
0263  
Mstr# 4258 8393 0721

0201

**SATURDAY 12:00P**  
**PRIORITY OVERNIGHT**

**XO BTVA**

05403  
VT US BTVA



546C1/9132/531



## Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 200-43081-1

**Login Number: 43081**

**List Source: TestAmerica Burlington**

**List Number: 1**

**Creator: Lavigne, Scott M**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	NA: Lab does not accept radioactive samples
The cooler's custody seal, if present, is intact.	True	SEALS PRESENT WITH NO NUMBER
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.4°C,2.1°C,1.7°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

# 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: 480-134267-1

Client Project/Site: IDS Wayland

For:

ERM-Northeast

One Beacon Steet

5th Floor

Boston, Massachusetts 02108

Attn: Lyndsey Colburn



Authorized for release by:

4/23/2018 10:42:38 AM

Steve Hartmann, Project Manager I

(413)572-4000

[steve.hartmann@testamericainc.com](mailto:steve.hartmann@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: 480-134267-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance 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.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: 480-134267-1

**Job ID: 480-134267-1**

**Laboratory: TestAmerica Buffalo**

## Narrative

### Job Narrative 480-134267-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 4/13/2018 1:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

#### GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) for Acetone and 1,4-Dioxane associated with batch 480-409598 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following samples were affected : MW-1020-20180411-01 (480-134267-1), MW-1013-20180411-01 (480-134267-2), MW-1009-20180411-01 (480-134267-3) and MW-1008-20180411-01 (480-134267-4).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-409631 recovered outside the MCP control limit criteria for the following analytes: Bromomethane, Trichlorofluoromethane, 1,4-Dioxane and Acetone . MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following samples were affected : MW-1005-20180411-01 (480-134267-5), MW-1004-20180411-01 (480-134267-6), MW-1003-20180411-01 (480-134267-7), MW-1006-20180411-01 (480-134267-8), MW-1017D-20180411-01 (480-134267-10), MW-1016D-20180411-01 (480-134267-11), MW-1032-20180411-01 (480-134267-12), MW-1026D-20180411-01 (480-134267-13), MW-1022-20180411-01 (480-134267-14), MW-1030-20180411-01 (480-134267-15), MW-1031-20180411-01 (480-134267-16) and MW-1023-20180411-01 (480-134267-17).

Method 8260C: The continuing calibration verification (CCV) for Acetone, Chloroethane, Trichlorofluoromethane and Bromomethane associated with batch 480-409831 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following samples were affected : DUP-001-20180411-01 (480-134267-9), MW-1024D-20180411-01 (480-134267-18), MW-1025M-20180411-01 (480-134267-19), MW-1025D-20180411-01 (480-134267-21), MW-1014-20180411-01 (480-134267-22), MW-1015D-20180411-01 (480-134267-23), MW-1027-20180411-01 (480-134267-24), MW-1028-20180411-01 (480-134267-25), MW-1034-20180411-01 (480-134267-26), MW-1033-20180411-01 (480-134267-27), MW-1018-20180411-01 (480-134267-28), MW-1035-20180411-01 (480-134267-29) and MW-1036-20180411-01 (480-134267-31).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-409865 recovered outside the MCP control limit criteria for the following analytes: Acetone, Bromomethane, Chloromethane, 1,4-Dioxane and Trichlorofluoromethane. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following samples were affected : DUP-003-20180411-01 (480-134267-20), MW-1037-20180411-01 (480-134267-30), DUP-002-20180411-01 (480-134267-32), DUP-004-20180411-01 (480-134267-33), DUP-005-20180411-01 (480-134267-34), MW-1038-20180411-01 (480-134267-35), MW-1011-20180411-01 (480-134267-36), MW-1039-20180411-01 (480-134267-37), PDB-001-20180411-01 (480-134267-38), TB-001-20180411-01 (480-134267-39), MW-1010D-20180411-01 (480-134267-40), MW-1010M-20180411-01 (480-134267-41) and MW-1019B-20180411-01 (480-134267-42).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-409598 exceeded control limits for the following analytes: Acetone and 1,4-Dioxane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples were affected : MW-1020-20180411-01 (480-134267-1), MW-1013-20180411-01 (480-134267-2), MW-1009-20180411-01 (480-134267-3) and MW-1008-20180411-01 (480-134267-4).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-409598 exceeded control limits for the following analytes: 2-Butanone and Tetrahydrofuran. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate and Methacrylonitrile in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample.

# Case Narrative

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

## Job ID: 480-134267-1 (Continued)

### Laboratory: TestAmerica Buffalo (Continued)

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch 480-409598, 480-409631, and 480-409865 recovered outside control limits for the following analyte: 1,4-Dioxane. The following samples are impacted: MW-1020-20180411-01 (480-134267-1), MW-1013-20180411-01 (480-134267-2), MW-1009-20180411-01 (480-134267-3) and MW-1008-20180411-01 (480-134267-4)

Method 8260C: The laboratory control sample duplicate (LCSD) for batch 480-409631 recovered outside control limits but were greater than 10% for the following analytes: Acetone. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples are impacted: MW-1005-20180411-01 (480-134267-5), MW-1004-20180411-01 (480-134267-6), MW-1003-20180411-01 (480-134267-7), MW-1006-20180411-01 (480-134267-8), MW-1017D-20180411-01 (480-134267-10), MW-1016D-20180411-01 (480-134267-11), MW-1032-20180411-01 (480-134267-12), MW-1026D-20180411-01 (480-134267-13), MW-1022-20180411-01 (480-134267-14), MW-1030-20180411-01 (480-134267-15), MW-1031-20180411-01 (480-134267-16) and MW-1023-20180411-01 (480-134267-17).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-409831 exceeded control limits for the following analytes: Acetone and 1,4-Dioxane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples were affected : DUP-001-20180411-01 (480-134267-9), MW-1024D-20180411-01 (480-134267-18), MW-1025M-20180411-01 (480-134267-19), MW-1025D-20180411-01 (480-134267-21), MW-1014-20180411-01 (480-134267-22), MW-1015D-20180411-01 (480-134267-23), MW-1027-20180411-01 (480-134267-24), MW-1028-20180411-01 (480-134267-25), MW-1034-20180411-01 (480-134267-26), MW-1033-20180411-01 (480-134267-27), MW-1018-20180411-01 (480-134267-28), MW-1035-20180411-01 (480-134267-29) and MW-1036-20180411-01 (480-134267-31).

Method 8260C: The laboratory control sample (LCS) for batch 480-409865 exceeded control limits for the following analyte: 1,4-Dioxane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples were affected : DUP-003-20180411-01 (480-134267-20), MW-1037-20180411-01 (480-134267-30), DUP-002-20180411-01 (480-134267-32), DUP-004-20180411-01 (480-134267-33), DUP-005-20180411-01 (480-134267-34), MW-1038-20180411-01 (480-134267-35), MW-1011-20180411-01 (480-134267-36), MW-1039-20180411-01 (480-134267-37), PDB-001-20180411-01 (480-134267-38), TB-001-20180411-01 (480-134267-39), MW-1010D-20180411-01 (480-134267-40), MW-1010M-20180411-01 (480-134267-41) and MW-1019B-20180411-01 (480-134267-42).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-1037-20180411-01 (480-134267-30) and MW-1038-20180411-01 (480-134267-35). Elevated reporting limits (RLs) are provided.

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

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

## MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-134267**

Project Location: **IDS Wayland** RTN:

**This form provides certifications for the data set for the following Laboratory Sample ID Number(s):**  
**480-134267-[1-42]**

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>
----------	---	--

**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 type="checkbox"/> Yes <input checked="" 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: Service Center Manager  
TestAmerica Westfield

Printed Name: Steven C. Hartmann Date: 4/23/18 10:30

This form has been electronically signed and approved

# Detection Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

## Client Sample ID: MW-1020-20180411-01

Lab Sample ID: 480-134267-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.2		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.1		1.0		ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	27		1.0		ug/L	1		8260C	Total/NA
Tert-amyl methyl ether	12		5.0		ug/L	1		8260C	Total/NA
Trichloroethene	12		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1013-20180411-01

Lab Sample ID: 480-134267-2

No Detections.

## Client Sample ID: MW-1009-20180411-01

Lab Sample ID: 480-134267-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	17		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1008-20180411-01

Lab Sample ID: 480-134267-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	4.2		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1005-20180411-01

Lab Sample ID: 480-134267-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	160	*	50		ug/L	1		8260C	Total/NA
Chloroform	1.9		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.1		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	6.1		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1004-20180411-01

Lab Sample ID: 480-134267-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	89	*	50		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1003-20180411-01

Lab Sample ID: 480-134267-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	200	*	50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.5		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	5.6		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1006-20180411-01

Lab Sample ID: 480-134267-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.9		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: DUP-001-20180411-01

Lab Sample ID: 480-134267-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	170	*	50		ug/L	1		8260C	Total/NA
Chloroform	1.8		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.0		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: 480-134267-1

## Client Sample ID: DUP-001-20180411-01 (Continued)

Lab Sample ID: 480-134267-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	6.0		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1017D-20180411-01

Lab Sample ID: 480-134267-10

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
Trichloroethene	2.1		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1016D-20180411-01

Lab Sample ID: 480-134267-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.7		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	38		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1032-20180411-01

Lab Sample ID: 480-134267-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.1		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	1.4		1.0		ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	73		1.0		ug/L	1		8260C	Total/NA
Tert-amyl methyl ether	20		5.0		ug/L	1		8260C	Total/NA
Trichloroethene	8.0		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1026D-20180411-01

Lab Sample ID: 480-134267-13

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	22		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	68		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1022-20180411-01

Lab Sample ID: 480-134267-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	98	*	50		ug/L	1		8260C	Total/NA
Trichloroethene	2.3		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1030-20180411-01

Lab Sample ID: 480-134267-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.5		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1031-20180411-01

Lab Sample ID: 480-134267-16

No Detections.

## Client Sample ID: MW-1023-20180411-01

Lab Sample ID: 480-134267-17

No Detections.

## Client Sample ID: MW-1024D-20180411-01

Lab Sample ID: 480-134267-18

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

# Detection Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

## Client Sample ID: MW-1024D-20180411-01 (Continued)

Lab Sample ID: 480-134267-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	74	*	50		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1025M-20180411-01

Lab Sample ID: 480-134267-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	2.4		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	18		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: DUP-003-20180411-01

Lab Sample ID: 480-134267-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	2.4		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	18		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1025D-20180411-01

Lab Sample ID: 480-134267-21

No Detections.

## Client Sample ID: MW-1014-20180411-01

Lab Sample ID: 480-134267-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	130	*	50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	4.4		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	10		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1015D-20180411-01

Lab Sample ID: 480-134267-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.7		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	14		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1027-20180411-01

Lab Sample ID: 480-134267-24

No Detections.

## Client Sample ID: MW-1028-20180411-01

Lab Sample ID: 480-134267-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	4.6		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1034-20180411-01

Lab Sample ID: 480-134267-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	18	*	10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	14		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.6		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	44		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1033-20180411-01

Lab Sample ID: 480-134267-27

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

## Detection Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

### Client Sample ID: MW-1018-20180411-01

Lab Sample ID: 480-134267-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	5.7		1.0		ug/L	1		8260C	Total/NA

### Client Sample ID: MW-1035-20180411-01

Lab Sample ID: 480-134267-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	6.9		1.0		ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	8.9		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	38		1.0		ug/L	1		8260C	Total/NA

### Client Sample ID: MW-1037-20180411-01

Lab Sample ID: 480-134267-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	68		2.0		ug/L	2		8260C	Total/NA
1,1-Dichloroethene	3.6		2.0		ug/L	2		8260C	Total/NA
Trichloroethene - DL	280		10		ug/L	10		8260C	Total/NA

### Client Sample ID: MW-1036-20180411-01

Lab Sample ID: 480-134267-31

No Detections.

### Client Sample ID: DUP-002-20180411-01

Lab Sample ID: 480-134267-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.7		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	38		1.0		ug/L	1		8260C	Total/NA

### Client Sample ID: DUP-004-20180411-01

Lab Sample ID: 480-134267-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	16	*	10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	15		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.7		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	43		1.0		ug/L	1		8260C	Total/NA

### Client Sample ID: DUP-005-20180411-01

Lab Sample ID: 480-134267-34

No Detections.

### Client Sample ID: MW-1038-20180411-01

Lab Sample ID: 480-134267-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	150		2.0		ug/L	2		8260C	Total/NA
1,1-Dichloroethane	2.7		2.0		ug/L	2		8260C	Total/NA
1,1-Dichloroethene	6.3		2.0		ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	2.4		2.0		ug/L	2		8260C	Total/NA
Trichloroethene - DL	590		40		ug/L	40		8260C	Total/NA

### Client Sample ID: MW-1011-20180411-01

Lab Sample ID: 480-134267-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.0		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: 480-134267-1

## Client Sample ID: MW-1011-20180411-01 (Continued)

Lab Sample ID: 480-134267-36

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

## Client Sample ID: MW-1039-20180411-01

Lab Sample ID: 480-134267-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	32		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	2.1		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	57		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: PDB-001-20180411-01

Lab Sample ID: 480-134267-38

No Detections.

## Client Sample ID: TB-001-20180411-01

Lab Sample ID: 480-134267-39

No Detections.

## Client Sample ID: MW-1010D-20180411-01

Lab Sample ID: 480-134267-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.8		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	8.9		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1010M-20180411-01

Lab Sample ID: 480-134267-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	84		50		ug/L	1		8260C	Total/NA
Trichloroethene	13		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-1019B-20180411-01

Lab Sample ID: 480-134267-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	230		50		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

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1020-20180411-01**

**Lab Sample ID: 480-134267-1**

**Date Collected: 04/11/18 08:10**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/19/18 05:10	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 05:10	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 05:10	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 05:10	1
<b>1,1-Dichloroethane</b>	<b>1.2</b>		1.0		ug/L			04/19/18 05:10	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 05:10	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 05:10	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 05:10	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 05:10	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 05:10	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 05:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 05:10	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 05:10	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 05:10	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 05:10	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 05:10	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/19/18 05:10	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 05:10	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 05:10	1
1,4-Dioxane	ND	*	50		ug/L			04/19/18 05:10	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 05:10	1
2-Butanone (MEK)	ND	*	10		ug/L			04/19/18 05:10	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 05:10	1
2-Hexanone	ND		10		ug/L			04/19/18 05:10	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 05:10	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 05:10	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 05:10	1
Acetone	ND	*	50		ug/L			04/19/18 05:10	1
Benzene	ND		1.0		ug/L			04/19/18 05:10	1
Bromobenzene	ND		1.0		ug/L			04/19/18 05:10	1
Bromoform	ND		1.0		ug/L			04/19/18 05:10	1
Bromomethane	ND		2.0		ug/L			04/19/18 05:10	1
Carbon disulfide	ND		10		ug/L			04/19/18 05:10	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 05:10	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 05:10	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 05:10	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 05:10	1
Chloroethane	ND		2.0		ug/L			04/19/18 05:10	1
Chloroform	ND		1.0		ug/L			04/19/18 05:10	1
Chloromethane	ND		2.0		ug/L			04/19/18 05:10	1
<b>cis-1,2-Dichloroethene</b>	<b>1.1</b>		1.0		ug/L			04/19/18 05:10	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 05:10	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 05:10	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 05:10	1
Ethyl ether	ND		1.0		ug/L			04/19/18 05:10	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 05:10	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 05:10	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 05:10	1
Isopropyl ether	ND		10		ug/L			04/19/18 05:10	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1020-20180411-01**

**Lab Sample ID: 480-134267-1**

**Date Collected: 04/11/18 08:10**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/19/18 05:10	1
<b>Methyl tert-butyl ether</b>	<b>27</b>		1.0		ug/L			04/19/18 05:10	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 05:10	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 05:10	1
Naphthalene	ND		5.0		ug/L			04/19/18 05:10	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 05:10	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 05:10	1
o-Xylene	ND		1.0		ug/L			04/19/18 05:10	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 05:10	1
Styrene	ND		1.0		ug/L			04/19/18 05:10	1
<b>Tert-amyl methyl ether</b>	<b>12</b>		5.0		ug/L			04/19/18 05:10	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 05:10	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 05:10	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 05:10	1
Tetrahydrofuran	ND *		10		ug/L			04/19/18 05:10	1
Toluene	ND		1.0		ug/L			04/19/18 05:10	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 05:10	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 05:10	1
<b>Trichloroethene</b>	<b>12</b>		1.0		ug/L			04/19/18 05:10	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 05:10	1
Vinyl chloride	ND		1.0		ug/L			04/19/18 05:10	1
Dibromomethane	ND		1.0		ug/L			04/19/18 05:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/19/18 05:10	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/19/18 05:10	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/19/18 05:10	1

**Client Sample ID: MW-1013-20180411-01**

**Lab Sample ID: 480-134267-2**

**Date Collected: 04/11/18 08:33**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/19/18 05:33	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 05:33	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 05:33	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 05:33	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 05:33	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 05:33	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 05:33	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 05:33	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 05:33	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 05:33	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 05:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 05:33	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 05:33	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 05:33	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 05:33	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 05:33	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1013-20180411-01**

**Lab Sample ID: 480-134267-2**

Date Collected: 04/11/18 08:33

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 05:33	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 05:33	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 05:33	1
1,4-Dioxane	ND	*	50		ug/L			04/19/18 05:33	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 05:33	1
2-Butanone (MEK)	ND	*	10		ug/L			04/19/18 05:33	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 05:33	1
2-Hexanone	ND		10		ug/L			04/19/18 05:33	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 05:33	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 05:33	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 05:33	1
Acetone	ND	*	50		ug/L			04/19/18 05:33	1
Benzene	ND		1.0		ug/L			04/19/18 05:33	1
Bromobenzene	ND		1.0		ug/L			04/19/18 05:33	1
Bromoform	ND		1.0		ug/L			04/19/18 05:33	1
Bromomethane	ND		2.0		ug/L			04/19/18 05:33	1
Carbon disulfide	ND		10		ug/L			04/19/18 05:33	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 05:33	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 05:33	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 05:33	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 05:33	1
Chloroethane	ND		2.0		ug/L			04/19/18 05:33	1
Chloroform	ND		1.0		ug/L			04/19/18 05:33	1
Chloromethane	ND		2.0		ug/L			04/19/18 05:33	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 05:33	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 05:33	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 05:33	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 05:33	1
Ethyl ether	ND		1.0		ug/L			04/19/18 05:33	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 05:33	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 05:33	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 05:33	1
Isopropyl ether	ND		10		ug/L			04/19/18 05:33	1
Isopropylbenzene	ND		1.0		ug/L			04/19/18 05:33	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 05:33	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 05:33	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 05:33	1
Naphthalene	ND		5.0		ug/L			04/19/18 05:33	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 05:33	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 05:33	1
o-Xylene	ND		1.0		ug/L			04/19/18 05:33	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 05:33	1
Styrene	ND		1.0		ug/L			04/19/18 05:33	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 05:33	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 05:33	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 05:33	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 05:33	1
Tetrahydrofuran	ND	*	10		ug/L			04/19/18 05:33	1
Toluene	ND		1.0		ug/L			04/19/18 05:33	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1013-20180411-01**

**Lab Sample ID: 480-134267-2**

Date Collected: 04/11/18 08:33

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 05:33	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 05:33	1
Trichloroethene	ND		1.0		ug/L			04/19/18 05:33	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 05:33	1
Vinyl chloride	ND		1.0		ug/L			04/19/18 05:33	1
Dibromomethane	ND		1.0		ug/L			04/19/18 05:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/19/18 05:33	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/19/18 05:33	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/19/18 05:33	1

**Client Sample ID: MW-1009-20180411-01**

**Lab Sample ID: 480-134267-3**

Date Collected: 04/11/18 08:52

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 05:57	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 05:57	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 05:57	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 05:57	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 05:57	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 05:57	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 05:57	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 05:57	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 05:57	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 05:57	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 05:57	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 05:57	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 05:57	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 05:57	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 05:57	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 05:57	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/19/18 05:57	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 05:57	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 05:57	1
1,4-Dioxane	ND	*	50		ug/L			04/19/18 05:57	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 05:57	1
2-Butanone (MEK)	ND	*	10		ug/L			04/19/18 05:57	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 05:57	1
2-Hexanone	ND		10		ug/L			04/19/18 05:57	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 05:57	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 05:57	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 05:57	1
Acetone	ND	*	50		ug/L			04/19/18 05:57	1
Benzene	ND		1.0		ug/L			04/19/18 05:57	1
Bromobenzene	ND		1.0		ug/L			04/19/18 05:57	1
Bromoform	ND		1.0		ug/L			04/19/18 05:57	1
Bromomethane	ND		2.0		ug/L			04/19/18 05:57	1

TestAmerica Buffalo



# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1009-20180411-01**

**Lab Sample ID: 480-134267-3**

Date Collected: 04/11/18 08:52

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 05:57	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 05:57	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 05:57	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 05:57	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 05:57	1
Chloroethane	ND		2.0		ug/L			04/19/18 05:57	1
Chloroform	ND		1.0		ug/L			04/19/18 05:57	1
Chloromethane	ND		2.0		ug/L			04/19/18 05:57	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 05:57	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 05:57	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 05:57	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 05:57	1
Ethyl ether	ND		1.0		ug/L			04/19/18 05:57	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 05:57	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 05:57	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 05:57	1
Isopropyl ether	ND		10		ug/L			04/19/18 05:57	1
Isopropylbenzene	ND		1.0		ug/L			04/19/18 05:57	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 05:57	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 05:57	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 05:57	1
Naphthalene	ND		5.0		ug/L			04/19/18 05:57	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 05:57	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 05:57	1
o-Xylene	ND		1.0		ug/L			04/19/18 05:57	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 05:57	1
Styrene	ND		1.0		ug/L			04/19/18 05:57	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 05:57	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 05:57	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 05:57	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 05:57	1
Tetrahydrofuran	ND *		10		ug/L			04/19/18 05:57	1
Toluene	ND		1.0		ug/L			04/19/18 05:57	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 05:57	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 05:57	1
Trichloroethene	ND		1.0		ug/L			04/19/18 05:57	1
<b>Trichlorofluoromethane</b>	<b>17</b>		1.0		ug/L			04/19/18 05:57	1
Vinyl chloride	ND		1.0		ug/L			04/19/18 05:57	1
Dibromomethane	ND		1.0		ug/L			04/19/18 05:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/19/18 05:57	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/19/18 05:57	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/19/18 05:57	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1008-20180411-01**

**Lab Sample ID: 480-134267-4**

Date Collected: 04/11/18 09:08

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 06:21	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 06:21	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 06:21	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 06:21	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 06:21	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 06:21	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 06:21	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 06:21	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 06:21	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 06:21	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 06:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 06:21	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 06:21	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 06:21	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 06:21	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 06:21	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/19/18 06:21	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 06:21	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 06:21	1
1,4-Dioxane	ND *		50		ug/L			04/19/18 06:21	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 06:21	1
2-Butanone (MEK)	ND *		10		ug/L			04/19/18 06:21	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 06:21	1
2-Hexanone	ND		10		ug/L			04/19/18 06:21	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 06:21	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 06:21	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 06:21	1
Acetone	ND *		50		ug/L			04/19/18 06:21	1
Benzene	ND		1.0		ug/L			04/19/18 06:21	1
Bromobenzene	ND		1.0		ug/L			04/19/18 06:21	1
Bromoform	ND		1.0		ug/L			04/19/18 06:21	1
Bromomethane	ND		2.0		ug/L			04/19/18 06:21	1
Carbon disulfide	ND		10		ug/L			04/19/18 06:21	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 06:21	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 06:21	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 06:21	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 06:21	1
Chloroethane	ND		2.0		ug/L			04/19/18 06:21	1
Chloroform	ND		1.0		ug/L			04/19/18 06:21	1
Chloromethane	ND		2.0		ug/L			04/19/18 06:21	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 06:21	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 06:21	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 06:21	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 06:21	1
Ethyl ether	ND		1.0		ug/L			04/19/18 06:21	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 06:21	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 06:21	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 06:21	1
Isopropyl ether	ND		10		ug/L			04/19/18 06:21	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1008-20180411-01**

**Lab Sample ID: 480-134267-4**

Date Collected: 04/11/18 09:08

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 06:21	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 06:21	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 06:21	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 06:21	1
Naphthalene	ND		5.0		ug/L			04/19/18 06:21	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 06:21	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 06:21	1
o-Xylene	ND		1.0		ug/L			04/19/18 06:21	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 06:21	1
Styrene	ND		1.0		ug/L			04/19/18 06:21	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 06:21	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 06:21	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 06:21	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 06:21	1
Tetrahydrofuran	ND	*	10		ug/L			04/19/18 06:21	1
Toluene	ND		1.0		ug/L			04/19/18 06:21	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 06:21	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 06:21	1
<b>Trichloroethene</b>	<b>4.2</b>		1.0		ug/L			04/19/18 06:21	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 06:21	1
Vinyl chloride	ND		1.0		ug/L			04/19/18 06:21	1
Dibromomethane	ND		1.0		ug/L			04/19/18 06:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130		04/19/18 06:21	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/19/18 06:21	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/19/18 06:21	1

**Client Sample ID: MW-1005-20180411-01**

**Lab Sample ID: 480-134267-5**

Date Collected: 04/11/18 09:22

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 13:48	1
1,1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 13:48	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 13:48	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 13:48	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 13:48	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 13:48	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 13:48	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 13:48	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 13:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 13:48	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 13:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 13:48	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 13:48	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 13:48	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 13:48	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 13:48	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1005-20180411-01**

**Lab Sample ID: 480-134267-5**

Date Collected: 04/11/18 09:22

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 13:48	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 13:48	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 13:48	1
1,4-Dioxane	ND	*	50		ug/L			04/19/18 13:48	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 13:48	1
2-Butanone (MEK)	ND	*	10		ug/L			04/19/18 13:48	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 13:48	1
2-Hexanone	ND		10		ug/L			04/19/18 13:48	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 13:48	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 13:48	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 13:48	1
<b>Acetone</b>	<b>160</b>	*	50		ug/L			04/19/18 13:48	1
Benzene	ND		1.0		ug/L			04/19/18 13:48	1
Bromobenzene	ND		1.0		ug/L			04/19/18 13:48	1
Bromoform	ND		1.0		ug/L			04/19/18 13:48	1
Bromomethane	ND		2.0		ug/L			04/19/18 13:48	1
Carbon disulfide	ND		10		ug/L			04/19/18 13:48	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 13:48	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 13:48	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 13:48	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 13:48	1
Chloroethane	ND		2.0		ug/L			04/19/18 13:48	1
<b>Chloroform</b>	<b>1.9</b>		1.0		ug/L			04/19/18 13:48	1
Chloromethane	ND		2.0		ug/L			04/19/18 13:48	1
<b>cis-1,2-Dichloroethene</b>	<b>2.1</b>		1.0		ug/L			04/19/18 13:48	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 13:48	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 13:48	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 13:48	1
Ethyl ether	ND		1.0		ug/L			04/19/18 13:48	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 13:48	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 13:48	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 13:48	1
Isopropyl ether	ND		10		ug/L			04/19/18 13:48	1
Isopropylbenzene	ND		1.0		ug/L			04/19/18 13:48	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 13:48	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 13:48	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 13:48	1
Naphthalene	ND		5.0		ug/L			04/19/18 13:48	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 13:48	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 13:48	1
o-Xylene	ND		1.0		ug/L			04/19/18 13:48	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 13:48	1
Styrene	ND		1.0		ug/L			04/19/18 13:48	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 13:48	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 13:48	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 13:48	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 13:48	1
Tetrahydrofuran	ND	*	10		ug/L			04/19/18 13:48	1
Toluene	ND		1.0		ug/L			04/19/18 13:48	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1005-20180411-01**

**Lab Sample ID: 480-134267-5**

Date Collected: 04/11/18 09:22

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 13:48	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 13:48	1
<b>Trichloroethene</b>	<b>6.1</b>		1.0		ug/L			04/19/18 13:48	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 13:48	1
Vinyl chloride	ND		1.0		ug/L			04/19/18 13:48	1
Dibromomethane	ND		1.0		ug/L			04/19/18 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130					04/19/18 13:48	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 130					04/19/18 13:48	1
4-Bromofluorobenzene (Surr)	99		70 - 130					04/19/18 13:48	1

**Client Sample ID: MW-1004-20180411-01**

**Lab Sample ID: 480-134267-6**

Date Collected: 04/11/18 09:42

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 14:11	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 14:11	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 14:11	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 14:11	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 14:11	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 14:11	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 14:11	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 14:11	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 14:11	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 14:11	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 14:11	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 14:11	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 14:11	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 14:11	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 14:11	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 14:11	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/19/18 14:11	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 14:11	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 14:11	1
1,4-Dioxane	ND	*	50		ug/L			04/19/18 14:11	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 14:11	1
2-Butanone (MEK)	ND	*	10		ug/L			04/19/18 14:11	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 14:11	1
2-Hexanone	ND		10		ug/L			04/19/18 14:11	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 14:11	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 14:11	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 14:11	1
<b>Acetone</b>	<b>89</b>	*	50		ug/L			04/19/18 14:11	1
Benzene	ND		1.0		ug/L			04/19/18 14:11	1
Bromobenzene	ND		1.0		ug/L			04/19/18 14:11	1
Bromoform	ND		1.0		ug/L			04/19/18 14:11	1
Bromomethane	ND		2.0		ug/L			04/19/18 14:11	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1004-20180411-01**

**Lab Sample ID: 480-134267-6**

Date Collected: 04/11/18 09:42

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 14:11	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 14:11	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 14:11	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 14:11	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 14:11	1
Chloroethane	ND		2.0		ug/L			04/19/18 14:11	1
Chloroform	ND		1.0		ug/L			04/19/18 14:11	1
Chloromethane	ND		2.0		ug/L			04/19/18 14:11	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 14:11	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 14:11	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 14:11	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 14:11	1
Ethyl ether	ND		1.0		ug/L			04/19/18 14:11	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 14:11	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 14:11	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 14:11	1
Isopropyl ether	ND		10		ug/L			04/19/18 14:11	1
Isopropylbenzene	ND		1.0		ug/L			04/19/18 14:11	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 14:11	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 14:11	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 14:11	1
Naphthalene	ND		5.0		ug/L			04/19/18 14:11	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 14:11	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 14:11	1
o-Xylene	ND		1.0		ug/L			04/19/18 14:11	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 14:11	1
Styrene	ND		1.0		ug/L			04/19/18 14:11	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 14:11	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 14:11	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 14:11	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 14:11	1
Tetrahydrofuran	ND *		10		ug/L			04/19/18 14:11	1
Toluene	ND		1.0		ug/L			04/19/18 14:11	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 14:11	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 14:11	1
Trichloroethene	ND		1.0		ug/L			04/19/18 14:11	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 14:11	1
Vinyl chloride	ND		1.0		ug/L			04/19/18 14:11	1
Dibromomethane	ND		1.0		ug/L			04/19/18 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130		04/19/18 14:11	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/19/18 14:11	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/19/18 14:11	1

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1003-20180411-01**

**Lab Sample ID: 480-134267-7**

**Date Collected: 04/11/18 09:57**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/19/18 14:35	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 14:35	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 14:35	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 14:35	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 14:35	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 14:35	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 14:35	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 14:35	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 14:35	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 14:35	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 14:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 14:35	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 14:35	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 14:35	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 14:35	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 14:35	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/19/18 14:35	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 14:35	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 14:35	1
1,4-Dioxane	ND *		50		ug/L			04/19/18 14:35	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 14:35	1
2-Butanone (MEK)	ND *		10		ug/L			04/19/18 14:35	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 14:35	1
2-Hexanone	ND		10		ug/L			04/19/18 14:35	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 14:35	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 14:35	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 14:35	1
<b>Acetone</b>	<b>200 *</b>		50		ug/L			04/19/18 14:35	1
Benzene	ND		1.0		ug/L			04/19/18 14:35	1
Bromobenzene	ND		1.0		ug/L			04/19/18 14:35	1
Bromoform	ND		1.0		ug/L			04/19/18 14:35	1
Bromomethane	ND		2.0		ug/L			04/19/18 14:35	1
Carbon disulfide	ND		10		ug/L			04/19/18 14:35	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 14:35	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 14:35	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 14:35	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 14:35	1
Chloroethane	ND		2.0		ug/L			04/19/18 14:35	1
Chloroform	ND		1.0		ug/L			04/19/18 14:35	1
Chloromethane	ND		2.0		ug/L			04/19/18 14:35	1
<b>cis-1,2-Dichloroethene</b>	<b>2.5</b>		1.0		ug/L			04/19/18 14:35	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 14:35	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 14:35	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 14:35	1
Ethyl ether	ND		1.0		ug/L			04/19/18 14:35	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 14:35	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 14:35	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 14:35	1
Isopropyl ether	ND		10		ug/L			04/19/18 14:35	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1003-20180411-01**

**Lab Sample ID: 480-134267-7**

Date Collected: 04/11/18 09:57

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 14:35	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 14:35	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 14:35	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 14:35	1
Naphthalene	ND		5.0		ug/L			04/19/18 14:35	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 14:35	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 14:35	1
o-Xylene	ND		1.0		ug/L			04/19/18 14:35	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 14:35	1
Styrene	ND		1.0		ug/L			04/19/18 14:35	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 14:35	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 14:35	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 14:35	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 14:35	1
Tetrahydrofuran	ND	*	10		ug/L			04/19/18 14:35	1
Toluene	ND		1.0		ug/L			04/19/18 14:35	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 14:35	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 14:35	1
<b>Trichloroethene</b>	<b>5.6</b>		1.0		ug/L			04/19/18 14:35	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 14:35	1
Vinyl chloride	ND		1.0		ug/L			04/19/18 14:35	1
Dibromomethane	ND		1.0		ug/L			04/19/18 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130		04/19/18 14:35	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/19/18 14:35	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/19/18 14:35	1

**Client Sample ID: MW-1006-20180411-01**

**Lab Sample ID: 480-134267-8**

Date Collected: 04/11/18 10:20

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 14:58	1
1,1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 14:58	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 14:58	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 14:58	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 14:58	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 14:58	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 14:58	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 14:58	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 14:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 14:58	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 14:58	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 14:58	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 14:58	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 14:58	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 14:58	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 14:58	1

TestAmerica Buffalo



# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1006-20180411-01**

**Lab Sample ID: 480-134267-8**

**Date Collected: 04/11/18 10:20**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/19/18 14:58	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 14:58	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 14:58	1
1,4-Dioxane	ND	*	50		ug/L			04/19/18 14:58	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 14:58	1
2-Butanone (MEK)	ND	*	10		ug/L			04/19/18 14:58	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 14:58	1
2-Hexanone	ND		10		ug/L			04/19/18 14:58	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 14:58	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 14:58	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 14:58	1
Acetone	ND	*	50		ug/L			04/19/18 14:58	1
Benzene	ND		1.0		ug/L			04/19/18 14:58	1
Bromobenzene	ND		1.0		ug/L			04/19/18 14:58	1
Bromoform	ND		1.0		ug/L			04/19/18 14:58	1
Bromomethane	ND		2.0		ug/L			04/19/18 14:58	1
Carbon disulfide	ND		10		ug/L			04/19/18 14:58	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 14:58	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 14:58	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 14:58	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 14:58	1
Chloroethane	ND		2.0		ug/L			04/19/18 14:58	1
Chloroform	ND		1.0		ug/L			04/19/18 14:58	1
Chloromethane	ND		2.0		ug/L			04/19/18 14:58	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 14:58	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 14:58	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 14:58	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 14:58	1
Ethyl ether	ND		1.0		ug/L			04/19/18 14:58	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 14:58	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 14:58	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 14:58	1
Isopropyl ether	ND		10		ug/L			04/19/18 14:58	1
Isopropylbenzene	ND		1.0		ug/L			04/19/18 14:58	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 14:58	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 14:58	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 14:58	1
Naphthalene	ND		5.0		ug/L			04/19/18 14:58	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 14:58	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 14:58	1
o-Xylene	ND		1.0		ug/L			04/19/18 14:58	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 14:58	1
Styrene	ND		1.0		ug/L			04/19/18 14:58	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 14:58	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 14:58	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 14:58	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 14:58	1
Tetrahydrofuran	ND	*	10		ug/L			04/19/18 14:58	1
Toluene	ND		1.0		ug/L			04/19/18 14:58	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1006-20180411-01**

**Lab Sample ID: 480-134267-8**

Date Collected: 04/11/18 10:20

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 14:58	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 14:58	1
<b>Trichloroethene</b>	<b>3.9</b>		1.0		ug/L			04/19/18 14:58	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 14:58	1
Vinyl chloride	ND		1.0		ug/L			04/19/18 14:58	1
Dibromomethane	ND		1.0		ug/L			04/19/18 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130					04/19/18 14:58	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 130					04/19/18 14:58	1
4-Bromofluorobenzene (Surr)	97		70 - 130					04/19/18 14:58	1

**Client Sample ID: DUP-001-20180411-01**

**Lab Sample ID: 480-134267-9**

Date Collected: 04/11/18 00:01

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 23:38	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 23:38	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 23:38	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 23:38	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 23:38	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 23:38	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 23:38	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 23:38	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 23:38	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 23:38	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 23:38	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 23:38	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 23:38	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 23:38	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 23:38	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 23:38	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/19/18 23:38	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 23:38	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 23:38	1
1,4-Dioxane	ND	*	50		ug/L			04/19/18 23:38	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 23:38	1
2-Butanone (MEK)	ND	*	10		ug/L			04/19/18 23:38	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 23:38	1
2-Hexanone	ND		10		ug/L			04/19/18 23:38	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 23:38	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 23:38	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 23:38	1
<b>Acetone</b>	<b>170</b>	*	50		ug/L			04/19/18 23:38	1
Benzene	ND		1.0		ug/L			04/19/18 23:38	1
Bromobenzene	ND		1.0		ug/L			04/19/18 23:38	1
Bromoform	ND		1.0		ug/L			04/19/18 23:38	1
Bromomethane	ND		2.0		ug/L			04/19/18 23:38	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: DUP-001-20180411-01**

**Lab Sample ID: 480-134267-9**

**Date Collected: 04/11/18 00:01**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/19/18 23:38	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 23:38	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 23:38	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 23:38	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 23:38	1
Chloroethane	ND		2.0		ug/L			04/19/18 23:38	1
<b>Chloroform</b>	<b>1.8</b>		1.0		ug/L			04/19/18 23:38	1
Chloromethane	ND		2.0		ug/L			04/19/18 23:38	1
<b>cis-1,2-Dichloroethene</b>	<b>2.0</b>		1.0		ug/L			04/19/18 23:38	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 23:38	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 23:38	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 23:38	1
Ethyl ether	ND		1.0		ug/L			04/19/18 23:38	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 23:38	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 23:38	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 23:38	1
Isopropyl ether	ND		10		ug/L			04/19/18 23:38	1
Isopropylbenzene	ND		1.0		ug/L			04/19/18 23:38	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 23:38	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 23:38	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 23:38	1
Naphthalene	ND		5.0		ug/L			04/19/18 23:38	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 23:38	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 23:38	1
o-Xylene	ND		1.0		ug/L			04/19/18 23:38	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 23:38	1
Styrene	ND		1.0		ug/L			04/19/18 23:38	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 23:38	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 23:38	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 23:38	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 23:38	1
Tetrahydrofuran	ND *		10		ug/L			04/19/18 23:38	1
Toluene	ND		1.0		ug/L			04/19/18 23:38	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 23:38	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 23:38	1
<b>Trichloroethene</b>	<b>6.0</b>		1.0		ug/L			04/19/18 23:38	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 23:38	1
Vinyl chloride	ND		1.0		ug/L			04/19/18 23:38	1
Dibromomethane	ND		1.0		ug/L			04/19/18 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		04/19/18 23:38	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		04/19/18 23:38	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/19/18 23:38	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1017D-20180411-01**

**Lab Sample ID: 480-134267-10**

**Date Collected: 04/11/18 14:11**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/19/18 15:45	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 15:45	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 15:45	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 15:45	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 15:45	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 15:45	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 15:45	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 15:45	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 15:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 15:45	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 15:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 15:45	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 15:45	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 15:45	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 15:45	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 15:45	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/19/18 15:45	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 15:45	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 15:45	1
1,4-Dioxane	ND *		50		ug/L			04/19/18 15:45	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 15:45	1
2-Butanone (MEK)	ND *		10		ug/L			04/19/18 15:45	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 15:45	1
2-Hexanone	ND		10		ug/L			04/19/18 15:45	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 15:45	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 15:45	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 15:45	1
Acetone	ND *		50		ug/L			04/19/18 15:45	1
Benzene	ND		1.0		ug/L			04/19/18 15:45	1
Bromobenzene	ND		1.0		ug/L			04/19/18 15:45	1
Bromoform	ND		1.0		ug/L			04/19/18 15:45	1
Bromomethane	ND		2.0		ug/L			04/19/18 15:45	1
Carbon disulfide	ND		10		ug/L			04/19/18 15:45	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 15:45	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 15:45	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 15:45	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 15:45	1
Chloroethane	ND		2.0		ug/L			04/19/18 15:45	1
Chloroform	ND		1.0		ug/L			04/19/18 15:45	1
Chloromethane	ND		2.0		ug/L			04/19/18 15:45	1
<b>cis-1,2-Dichloroethene</b>	<b>58</b>		1.0		ug/L			04/19/18 15:45	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 15:45	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 15:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 15:45	1
Ethyl ether	ND		1.0		ug/L			04/19/18 15:45	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 15:45	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 15:45	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 15:45	1
Isopropyl ether	ND		10		ug/L			04/19/18 15:45	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1017D-20180411-01**

**Lab Sample ID: 480-134267-10**

**Date Collected: 04/11/18 14:11**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/19/18 15:45	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 15:45	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 15:45	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 15:45	1
Naphthalene	ND		5.0		ug/L			04/19/18 15:45	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 15:45	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 15:45	1
o-Xylene	ND		1.0		ug/L			04/19/18 15:45	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 15:45	1
Styrene	ND		1.0		ug/L			04/19/18 15:45	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 15:45	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 15:45	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 15:45	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 15:45	1
Tetrahydrofuran	ND	*	10		ug/L			04/19/18 15:45	1
Toluene	ND		1.0		ug/L			04/19/18 15:45	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 15:45	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 15:45	1
<b>Trichloroethene</b>	<b>2.1</b>		1.0		ug/L			04/19/18 15:45	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 15:45	1
Vinyl chloride	ND		1.0		ug/L			04/19/18 15:45	1
Dibromomethane	ND		1.0		ug/L			04/19/18 15:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130					04/19/18 15:45	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 130					04/19/18 15:45	1
4-Bromofluorobenzene (Surr)	98		70 - 130					04/19/18 15:45	1

**Client Sample ID: MW-1016D-20180411-01**

**Lab Sample ID: 480-134267-11**

**Date Collected: 04/11/18 13:45**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/19/18 16:09	1
1,1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 16:09	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 16:09	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 16:09	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 16:09	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 16:09	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 16:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 16:09	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 16:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 16:09	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 16:09	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 16:09	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 16:09	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 16:09	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 16:09	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 16:09	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1016D-20180411-01**

**Lab Sample ID: 480-134267-11**

Date Collected: 04/11/18 13:45

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 16:09	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 16:09	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 16:09	1
1,4-Dioxane	ND	*	50		ug/L			04/19/18 16:09	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 16:09	1
2-Butanone (MEK)	ND	*	10		ug/L			04/19/18 16:09	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 16:09	1
2-Hexanone	ND		10		ug/L			04/19/18 16:09	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 16:09	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 16:09	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 16:09	1
Acetone	ND	*	50		ug/L			04/19/18 16:09	1
Benzene	ND		1.0		ug/L			04/19/18 16:09	1
Bromobenzene	ND		1.0		ug/L			04/19/18 16:09	1
Bromoform	ND		1.0		ug/L			04/19/18 16:09	1
Bromomethane	ND		2.0		ug/L			04/19/18 16:09	1
Carbon disulfide	ND		10		ug/L			04/19/18 16:09	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 16:09	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 16:09	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 16:09	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 16:09	1
Chloroethane	ND		2.0		ug/L			04/19/18 16:09	1
Chloroform	ND		1.0		ug/L			04/19/18 16:09	1
Chloromethane	ND		2.0		ug/L			04/19/18 16:09	1
<b>cis-1,2-Dichloroethene</b>	<b>3.7</b>		1.0		ug/L			04/19/18 16:09	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 16:09	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 16:09	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 16:09	1
Ethyl ether	ND		1.0		ug/L			04/19/18 16:09	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 16:09	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 16:09	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 16:09	1
Isopropyl ether	ND		10		ug/L			04/19/18 16:09	1
Isopropylbenzene	ND		1.0		ug/L			04/19/18 16:09	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 16:09	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 16:09	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 16:09	1
Naphthalene	ND		5.0		ug/L			04/19/18 16:09	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 16:09	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 16:09	1
o-Xylene	ND		1.0		ug/L			04/19/18 16:09	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 16:09	1
Styrene	ND		1.0		ug/L			04/19/18 16:09	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 16:09	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 16:09	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 16:09	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 16:09	1
Tetrahydrofuran	ND	*	10		ug/L			04/19/18 16:09	1
Toluene	ND		1.0		ug/L			04/19/18 16:09	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1016D-20180411-01**

**Lab Sample ID: 480-134267-11**

Date Collected: 04/11/18 13:45

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 16:09	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 16:09	1
<b>Trichloroethene</b>	<b>38</b>		1.0		ug/L			04/19/18 16:09	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 16:09	1
Vinyl chloride	ND		1.0		ug/L			04/19/18 16:09	1
Dibromomethane	ND		1.0		ug/L			04/19/18 16:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130					04/19/18 16:09	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130					04/19/18 16:09	1
4-Bromofluorobenzene (Surr)	100		70 - 130					04/19/18 16:09	1

**Client Sample ID: MW-1032-20180411-01**

**Lab Sample ID: 480-134267-12**

Date Collected: 04/11/18 10:13

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 16:32	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 16:32	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 16:32	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 16:32	1
<b>1,1-Dichloroethane</b>	<b>1.1</b>		1.0		ug/L			04/19/18 16:32	1
<b>1,1-Dichloroethane</b>	<b>1.4</b>		1.0		ug/L			04/19/18 16:32	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 16:32	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 16:32	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 16:32	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 16:32	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 16:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 16:32	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 16:32	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 16:32	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 16:32	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 16:32	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/19/18 16:32	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 16:32	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 16:32	1
1,4-Dioxane	ND *		50		ug/L			04/19/18 16:32	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 16:32	1
2-Butanone (MEK)	ND *		10		ug/L			04/19/18 16:32	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 16:32	1
2-Hexanone	ND		10		ug/L			04/19/18 16:32	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 16:32	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 16:32	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 16:32	1
Acetone	ND *		50		ug/L			04/19/18 16:32	1
Benzene	ND		1.0		ug/L			04/19/18 16:32	1
Bromobenzene	ND		1.0		ug/L			04/19/18 16:32	1
Bromoform	ND		1.0		ug/L			04/19/18 16:32	1
Bromomethane	ND		2.0		ug/L			04/19/18 16:32	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1032-20180411-01**

**Lab Sample ID: 480-134267-12**

**Date Collected: 04/11/18 10:13**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/19/18 16:32	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 16:32	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 16:32	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 16:32	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 16:32	1
Chloroethane	ND		2.0		ug/L			04/19/18 16:32	1
Chloroform	ND		1.0		ug/L			04/19/18 16:32	1
Chloromethane	ND		2.0		ug/L			04/19/18 16:32	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 16:32	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 16:32	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 16:32	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 16:32	1
Ethyl ether	ND		1.0		ug/L			04/19/18 16:32	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 16:32	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 16:32	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 16:32	1
Isopropyl ether	ND		10		ug/L			04/19/18 16:32	1
Isopropylbenzene	ND		1.0		ug/L			04/19/18 16:32	1
<b>Methyl tert-butyl ether</b>	<b>73</b>		1.0		ug/L			04/19/18 16:32	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 16:32	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 16:32	1
Naphthalene	ND		5.0		ug/L			04/19/18 16:32	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 16:32	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 16:32	1
o-Xylene	ND		1.0		ug/L			04/19/18 16:32	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 16:32	1
Styrene	ND		1.0		ug/L			04/19/18 16:32	1
<b>Tert-amyl methyl ether</b>	<b>20</b>		5.0		ug/L			04/19/18 16:32	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 16:32	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 16:32	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 16:32	1
Tetrahydrofuran	ND *		10		ug/L			04/19/18 16:32	1
Toluene	ND		1.0		ug/L			04/19/18 16:32	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 16:32	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 16:32	1
<b>Trichloroethene</b>	<b>8.0</b>		1.0		ug/L			04/19/18 16:32	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 16:32	1
Vinyl chloride	ND		1.0		ug/L			04/19/18 16:32	1
Dibromomethane	ND		1.0		ug/L			04/19/18 16:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		04/19/18 16:32	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		04/19/18 16:32	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/19/18 16:32	1

TestAmerica Buffalo



# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1026D-20180411-01**

**Lab Sample ID: 480-134267-13**

**Date Collected: 04/11/18 10:35**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/19/18 16:56	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 16:56	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 16:56	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 16:56	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 16:56	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 16:56	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 16:56	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 16:56	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 16:56	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 16:56	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 16:56	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 16:56	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 16:56	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 16:56	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 16:56	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 16:56	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/19/18 16:56	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 16:56	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 16:56	1
1,4-Dioxane	ND *		50		ug/L			04/19/18 16:56	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 16:56	1
2-Butanone (MEK)	ND *		10		ug/L			04/19/18 16:56	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 16:56	1
2-Hexanone	ND		10		ug/L			04/19/18 16:56	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 16:56	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 16:56	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 16:56	1
<b>Acetone</b>	<b>80 *</b>		50		ug/L			04/19/18 16:56	1
Benzene	ND		1.0		ug/L			04/19/18 16:56	1
Bromobenzene	ND		1.0		ug/L			04/19/18 16:56	1
Bromoform	ND		1.0		ug/L			04/19/18 16:56	1
Bromomethane	ND		2.0		ug/L			04/19/18 16:56	1
Carbon disulfide	ND		10		ug/L			04/19/18 16:56	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 16:56	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 16:56	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 16:56	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 16:56	1
Chloroethane	ND		2.0		ug/L			04/19/18 16:56	1
Chloroform	ND		1.0		ug/L			04/19/18 16:56	1
Chloromethane	ND		2.0		ug/L			04/19/18 16:56	1
<b>cis-1,2-Dichloroethene</b>	<b>22</b>		1.0		ug/L			04/19/18 16:56	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 16:56	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 16:56	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 16:56	1
Ethyl ether	ND		1.0		ug/L			04/19/18 16:56	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 16:56	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 16:56	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 16:56	1
Isopropyl ether	ND		10		ug/L			04/19/18 16:56	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1026D-20180411-01**

**Lab Sample ID: 480-134267-13**

**Date Collected: 04/11/18 10:35**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/19/18 16:56	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 16:56	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 16:56	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 16:56	1
Naphthalene	ND		5.0		ug/L			04/19/18 16:56	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 16:56	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 16:56	1
o-Xylene	ND		1.0		ug/L			04/19/18 16:56	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 16:56	1
Styrene	ND		1.0		ug/L			04/19/18 16:56	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 16:56	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 16:56	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 16:56	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 16:56	1
Tetrahydrofuran	ND	*	10		ug/L			04/19/18 16:56	1
Toluene	ND		1.0		ug/L			04/19/18 16:56	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 16:56	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 16:56	1
<b>Trichloroethene</b>	<b>68</b>		1.0		ug/L			04/19/18 16:56	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 16:56	1
Vinyl chloride	ND		1.0		ug/L			04/19/18 16:56	1
Dibromomethane	ND		1.0		ug/L			04/19/18 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130		04/19/18 16:56	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/19/18 16:56	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/19/18 16:56	1

**Client Sample ID: MW-1022-20180411-01**

**Lab Sample ID: 480-134267-14**

**Date Collected: 04/11/18 09:25**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/19/18 17:19	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 17:19	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 17:19	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 17:19	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 17:19	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 17:19	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 17:19	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 17:19	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 17:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 17:19	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 17:19	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 17:19	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 17:19	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 17:19	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 17:19	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 17:19	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1022-20180411-01**

**Lab Sample ID: 480-134267-14**

**Date Collected: 04/11/18 09:25**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/19/18 17:19	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 17:19	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 17:19	1
1,4-Dioxane	ND	*	50		ug/L			04/19/18 17:19	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 17:19	1
2-Butanone (MEK)	ND	*	10		ug/L			04/19/18 17:19	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 17:19	1
2-Hexanone	ND		10		ug/L			04/19/18 17:19	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 17:19	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 17:19	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 17:19	1
<b>Acetone</b>	<b>98</b>	<b>*</b>	50		ug/L			04/19/18 17:19	1
Benzene	ND		1.0		ug/L			04/19/18 17:19	1
Bromobenzene	ND		1.0		ug/L			04/19/18 17:19	1
Bromoform	ND		1.0		ug/L			04/19/18 17:19	1
Bromomethane	ND		2.0		ug/L			04/19/18 17:19	1
Carbon disulfide	ND		10		ug/L			04/19/18 17:19	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 17:19	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 17:19	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 17:19	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 17:19	1
Chloroethane	ND		2.0		ug/L			04/19/18 17:19	1
Chloroform	ND		1.0		ug/L			04/19/18 17:19	1
Chloromethane	ND		2.0		ug/L			04/19/18 17:19	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 17:19	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 17:19	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 17:19	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 17:19	1
Ethyl ether	ND		1.0		ug/L			04/19/18 17:19	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 17:19	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 17:19	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 17:19	1
Isopropyl ether	ND		10		ug/L			04/19/18 17:19	1
Isopropylbenzene	ND		1.0		ug/L			04/19/18 17:19	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 17:19	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 17:19	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 17:19	1
Naphthalene	ND		5.0		ug/L			04/19/18 17:19	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 17:19	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 17:19	1
o-Xylene	ND		1.0		ug/L			04/19/18 17:19	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 17:19	1
Styrene	ND		1.0		ug/L			04/19/18 17:19	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 17:19	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 17:19	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 17:19	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 17:19	1
Tetrahydrofuran	ND	*	10		ug/L			04/19/18 17:19	1
Toluene	ND		1.0		ug/L			04/19/18 17:19	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1022-20180411-01**

**Lab Sample ID: 480-134267-14**

Date Collected: 04/11/18 09:25

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 17:19	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 17:19	1
<b>Trichloroethene</b>	<b>2.3</b>		1.0		ug/L			04/19/18 17:19	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 17:19	1
Vinyl chloride	ND		1.0		ug/L			04/19/18 17:19	1
Dibromomethane	ND		1.0		ug/L			04/19/18 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130					04/19/18 17:19	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130					04/19/18 17:19	1
4-Bromofluorobenzene (Surr)	100		70 - 130					04/19/18 17:19	1

**Client Sample ID: MW-1030-20180411-01**

**Lab Sample ID: 480-134267-15**

Date Collected: 04/11/18 09:36

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 17:43	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 17:43	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 17:43	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 17:43	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 17:43	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 17:43	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 17:43	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 17:43	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 17:43	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 17:43	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 17:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 17:43	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 17:43	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 17:43	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 17:43	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 17:43	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/19/18 17:43	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 17:43	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 17:43	1
1,4-Dioxane	ND	*	50		ug/L			04/19/18 17:43	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 17:43	1
2-Butanone (MEK)	ND	*	10		ug/L			04/19/18 17:43	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 17:43	1
2-Hexanone	ND		10		ug/L			04/19/18 17:43	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 17:43	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 17:43	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 17:43	1
Acetone	ND	*	50		ug/L			04/19/18 17:43	1
Benzene	ND		1.0		ug/L			04/19/18 17:43	1
Bromobenzene	ND		1.0		ug/L			04/19/18 17:43	1
Bromoform	ND		1.0		ug/L			04/19/18 17:43	1
Bromomethane	ND		2.0		ug/L			04/19/18 17:43	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1030-20180411-01**

**Lab Sample ID: 480-134267-15**

Date Collected: 04/11/18 09:36

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 17:43	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 17:43	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 17:43	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 17:43	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 17:43	1
Chloroethane	ND		2.0		ug/L			04/19/18 17:43	1
Chloroform	ND		1.0		ug/L			04/19/18 17:43	1
Chloromethane	ND		2.0		ug/L			04/19/18 17:43	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 17:43	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 17:43	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 17:43	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 17:43	1
Ethyl ether	ND		1.0		ug/L			04/19/18 17:43	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 17:43	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 17:43	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 17:43	1
Isopropyl ether	ND		10		ug/L			04/19/18 17:43	1
Isopropylbenzene	ND		1.0		ug/L			04/19/18 17:43	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 17:43	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 17:43	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 17:43	1
Naphthalene	ND		5.0		ug/L			04/19/18 17:43	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 17:43	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 17:43	1
o-Xylene	ND		1.0		ug/L			04/19/18 17:43	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 17:43	1
Styrene	ND		1.0		ug/L			04/19/18 17:43	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 17:43	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 17:43	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 17:43	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 17:43	1
Tetrahydrofuran	ND *		10		ug/L			04/19/18 17:43	1
Toluene	ND		1.0		ug/L			04/19/18 17:43	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 17:43	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 17:43	1
<b>Trichloroethene</b>	<b>2.5</b>		1.0		ug/L			04/19/18 17:43	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 17:43	1
Vinyl chloride	ND		1.0		ug/L			04/19/18 17:43	1
Dibromomethane	ND		1.0		ug/L			04/19/18 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130		04/19/18 17:43	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		04/19/18 17:43	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/19/18 17:43	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1031-20180411-01**

**Lab Sample ID: 480-134267-16**

Date Collected: 04/11/18 09:53

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 18:06	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 18:06	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 18:06	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 18:06	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 18:06	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 18:06	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 18:06	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 18:06	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 18:06	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 18:06	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 18:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 18:06	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 18:06	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 18:06	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 18:06	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 18:06	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/19/18 18:06	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 18:06	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 18:06	1
1,4-Dioxane	ND *		50		ug/L			04/19/18 18:06	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 18:06	1
2-Butanone (MEK)	ND *		10		ug/L			04/19/18 18:06	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 18:06	1
2-Hexanone	ND		10		ug/L			04/19/18 18:06	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 18:06	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 18:06	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 18:06	1
Acetone	ND *		50		ug/L			04/19/18 18:06	1
Benzene	ND		1.0		ug/L			04/19/18 18:06	1
Bromobenzene	ND		1.0		ug/L			04/19/18 18:06	1
Bromoform	ND		1.0		ug/L			04/19/18 18:06	1
Bromomethane	ND		2.0		ug/L			04/19/18 18:06	1
Carbon disulfide	ND		10		ug/L			04/19/18 18:06	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 18:06	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 18:06	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 18:06	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 18:06	1
Chloroethane	ND		2.0		ug/L			04/19/18 18:06	1
Chloroform	ND		1.0		ug/L			04/19/18 18:06	1
Chloromethane	ND		2.0		ug/L			04/19/18 18:06	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 18:06	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 18:06	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 18:06	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 18:06	1
Ethyl ether	ND		1.0		ug/L			04/19/18 18:06	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 18:06	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 18:06	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 18:06	1
Isopropyl ether	ND		10		ug/L			04/19/18 18:06	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1031-20180411-01**

**Lab Sample ID: 480-134267-16**

**Date Collected: 04/11/18 09:53**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/19/18 18:06	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 18:06	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 18:06	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 18:06	1
Naphthalene	ND		5.0		ug/L			04/19/18 18:06	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 18:06	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 18:06	1
o-Xylene	ND		1.0		ug/L			04/19/18 18:06	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 18:06	1
Styrene	ND		1.0		ug/L			04/19/18 18:06	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 18:06	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 18:06	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 18:06	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 18:06	1
Tetrahydrofuran	ND	*	10		ug/L			04/19/18 18:06	1
Toluene	ND		1.0		ug/L			04/19/18 18:06	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 18:06	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 18:06	1
Trichloroethene	ND		1.0		ug/L			04/19/18 18:06	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 18:06	1
Vinyl chloride	ND		1.0		ug/L			04/19/18 18:06	1
Dibromomethane	ND		1.0		ug/L			04/19/18 18:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130					04/19/18 18:06	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130					04/19/18 18:06	1
4-Bromofluorobenzene (Surr)	99		70 - 130					04/19/18 18:06	1

**Client Sample ID: MW-1023-20180411-01**

**Lab Sample ID: 480-134267-17**

**Date Collected: 04/11/18 10:49**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/19/18 18:30	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 18:30	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 18:30	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 18:30	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 18:30	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 18:30	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 18:30	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 18:30	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 18:30	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 18:30	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 18:30	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 18:30	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 18:30	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 18:30	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 18:30	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 18:30	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1023-20180411-01**

**Lab Sample ID: 480-134267-17**

**Date Collected: 04/11/18 10:49**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/19/18 18:30	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 18:30	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 18:30	1
1,4-Dioxane	ND	*	50		ug/L			04/19/18 18:30	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 18:30	1
2-Butanone (MEK)	ND	*	10		ug/L			04/19/18 18:30	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 18:30	1
2-Hexanone	ND		10		ug/L			04/19/18 18:30	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 18:30	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 18:30	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 18:30	1
Acetone	ND	*	50		ug/L			04/19/18 18:30	1
Benzene	ND		1.0		ug/L			04/19/18 18:30	1
Bromobenzene	ND		1.0		ug/L			04/19/18 18:30	1
Bromoform	ND		1.0		ug/L			04/19/18 18:30	1
Bromomethane	ND		2.0		ug/L			04/19/18 18:30	1
Carbon disulfide	ND		10		ug/L			04/19/18 18:30	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 18:30	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 18:30	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 18:30	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 18:30	1
Chloroethane	ND		2.0		ug/L			04/19/18 18:30	1
Chloroform	ND		1.0		ug/L			04/19/18 18:30	1
Chloromethane	ND		2.0		ug/L			04/19/18 18:30	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 18:30	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 18:30	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 18:30	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 18:30	1
Ethyl ether	ND		1.0		ug/L			04/19/18 18:30	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 18:30	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 18:30	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 18:30	1
Isopropyl ether	ND		10		ug/L			04/19/18 18:30	1
Isopropylbenzene	ND		1.0		ug/L			04/19/18 18:30	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 18:30	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 18:30	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 18:30	1
Naphthalene	ND		5.0		ug/L			04/19/18 18:30	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 18:30	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 18:30	1
o-Xylene	ND		1.0		ug/L			04/19/18 18:30	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 18:30	1
Styrene	ND		1.0		ug/L			04/19/18 18:30	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 18:30	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 18:30	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 18:30	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 18:30	1
Tetrahydrofuran	ND	*	10		ug/L			04/19/18 18:30	1
Toluene	ND		1.0		ug/L			04/19/18 18:30	1

TestAmerica Buffalo



# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1023-20180411-01**

**Lab Sample ID: 480-134267-17**

Date Collected: 04/11/18 10:49

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/19/18 18:30	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 18:30	1
Trichloroethene	ND		1.0		ug/L			04/19/18 18:30	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 18:30	1
Vinyl chloride	ND		1.0		ug/L			04/19/18 18:30	1
Dibromomethane	ND		1.0		ug/L			04/19/18 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130					04/19/18 18:30	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130					04/19/18 18:30	1
4-Bromofluorobenzene (Surr)	97		70 - 130					04/19/18 18:30	1

**Client Sample ID: MW-1024D-20180411-01**

**Lab Sample ID: 480-134267-18**

Date Collected: 04/11/18 11:49

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 00:25	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 00:25	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 00:25	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 00:25	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 00:25	1
1,1-Dichloroethene	ND		1.0		ug/L			04/20/18 00:25	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 00:25	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 00:25	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 00:25	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 00:25	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 00:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 00:25	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 00:25	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 00:25	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 00:25	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 00:25	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/20/18 00:25	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 00:25	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 00:25	1
1,4-Dioxane	ND	*	50		ug/L			04/20/18 00:25	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 00:25	1
2-Butanone (MEK)	ND	*	10		ug/L			04/20/18 00:25	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 00:25	1
2-Hexanone	ND		10		ug/L			04/20/18 00:25	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 00:25	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 00:25	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 00:25	1
Acetone	74	*	50		ug/L			04/20/18 00:25	1
Benzene	ND		1.0		ug/L			04/20/18 00:25	1
Bromobenzene	ND		1.0		ug/L			04/20/18 00:25	1
Bromoform	ND		1.0		ug/L			04/20/18 00:25	1
Bromomethane	ND		2.0		ug/L			04/20/18 00:25	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1024D-20180411-01**

**Lab Sample ID: 480-134267-18**

Date Collected: 04/11/18 11:49

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 00:25	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 00:25	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 00:25	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 00:25	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 00:25	1
Chloroethane	ND		2.0		ug/L			04/20/18 00:25	1
Chloroform	ND		1.0		ug/L			04/20/18 00:25	1
Chloromethane	ND		2.0		ug/L			04/20/18 00:25	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 00:25	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 00:25	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 00:25	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 00:25	1
Ethyl ether	ND		1.0		ug/L			04/20/18 00:25	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 00:25	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 00:25	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 00:25	1
Isopropyl ether	ND		10		ug/L			04/20/18 00:25	1
Isopropylbenzene	ND		1.0		ug/L			04/20/18 00:25	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/20/18 00:25	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 00:25	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 00:25	1
Naphthalene	ND		5.0		ug/L			04/20/18 00:25	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 00:25	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 00:25	1
o-Xylene	ND		1.0		ug/L			04/20/18 00:25	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 00:25	1
Styrene	ND		1.0		ug/L			04/20/18 00:25	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 00:25	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 00:25	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 00:25	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 00:25	1
Tetrahydrofuran	ND *		10		ug/L			04/20/18 00:25	1
Toluene	ND		1.0		ug/L			04/20/18 00:25	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 00:25	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 00:25	1
Trichloroethene	ND		1.0		ug/L			04/20/18 00:25	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 00:25	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 00:25	1
Dibromomethane	ND		1.0		ug/L			04/20/18 00:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/20/18 00:25	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/20/18 00:25	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/20/18 00:25	1

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1025M-20180411-01**

**Lab Sample ID: 480-134267-19**

**Date Collected: 04/11/18 12:08**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 00:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 00:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 00:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 00:49	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 00:49	1
1,1-Dichloroethene	ND		1.0		ug/L			04/20/18 00:49	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 00:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 00:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 00:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 00:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 00:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 00:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 00:49	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 00:49	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 00:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 00:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/20/18 00:49	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 00:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 00:49	1
1,4-Dioxane	ND *		50		ug/L			04/20/18 00:49	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 00:49	1
2-Butanone (MEK)	ND *		10		ug/L			04/20/18 00:49	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 00:49	1
2-Hexanone	ND		10		ug/L			04/20/18 00:49	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 00:49	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 00:49	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 00:49	1
Acetone	ND *		50		ug/L			04/20/18 00:49	1
Benzene	ND		1.0		ug/L			04/20/18 00:49	1
Bromobenzene	ND		1.0		ug/L			04/20/18 00:49	1
Bromoform	ND		1.0		ug/L			04/20/18 00:49	1
Bromomethane	ND		2.0		ug/L			04/20/18 00:49	1
Carbon disulfide	ND		10		ug/L			04/20/18 00:49	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 00:49	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 00:49	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 00:49	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 00:49	1
Chloroethane	ND		2.0		ug/L			04/20/18 00:49	1
Chloroform	ND		1.0		ug/L			04/20/18 00:49	1
Chloromethane	ND		2.0		ug/L			04/20/18 00:49	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 00:49	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 00:49	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 00:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 00:49	1
Ethyl ether	ND		1.0		ug/L			04/20/18 00:49	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 00:49	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 00:49	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 00:49	1
Isopropyl ether	ND		10		ug/L			04/20/18 00:49	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1025M-20180411-01**

**Lab Sample ID: 480-134267-19**

**Date Collected: 04/11/18 12:08**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 00:49	1
<b>Methyl tert-butyl ether</b>	<b>2.4</b>		1.0		ug/L			04/20/18 00:49	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 00:49	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 00:49	1
Naphthalene	ND		5.0		ug/L			04/20/18 00:49	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 00:49	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 00:49	1
o-Xylene	ND		1.0		ug/L			04/20/18 00:49	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 00:49	1
Styrene	ND		1.0		ug/L			04/20/18 00:49	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 00:49	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 00:49	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 00:49	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 00:49	1
Tetrahydrofuran	ND *		10		ug/L			04/20/18 00:49	1
Toluene	ND		1.0		ug/L			04/20/18 00:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 00:49	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 00:49	1
<b>Trichloroethene</b>	<b>18</b>		1.0		ug/L			04/20/18 00:49	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 00:49	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 00:49	1
Dibromomethane	ND		1.0		ug/L			04/20/18 00:49	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>	93		70 - 130					04/20/18 00:49	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	113		70 - 130					04/20/18 00:49	1
<i>4-Bromofluorobenzene (Surr)</i>	95		70 - 130					04/20/18 00:49	1

**Client Sample ID: DUP-003-20180411-01**

**Lab Sample ID: 480-134267-20**

**Date Collected: 04/11/18 00:03**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 12:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 12:26	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 12:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 12:26	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 12:26	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 12:26	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 12:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 12:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 12:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 12:26	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 12:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 12:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 12:26	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 12:26	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 12:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 12:26	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: DUP-003-20180411-01**

**Lab Sample ID: 480-134267-20**

**Date Collected: 04/11/18 00:03**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 12:26	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 12:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 12:26	1
1,4-Dioxane	ND	*	50		ug/L			04/20/18 12:26	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 12:26	1
2-Butanone (MEK)	ND	*	10		ug/L			04/20/18 12:26	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 12:26	1
2-Hexanone	ND		10		ug/L			04/20/18 12:26	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 12:26	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 12:26	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 12:26	1
Acetone	ND		50		ug/L			04/20/18 12:26	1
Benzene	ND		1.0		ug/L			04/20/18 12:26	1
Bromobenzene	ND		1.0		ug/L			04/20/18 12:26	1
Bromoform	ND		1.0		ug/L			04/20/18 12:26	1
Bromomethane	ND		2.0		ug/L			04/20/18 12:26	1
Carbon disulfide	ND		10		ug/L			04/20/18 12:26	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 12:26	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 12:26	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 12:26	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 12:26	1
Chloroethane	ND		2.0		ug/L			04/20/18 12:26	1
Chloroform	ND		1.0		ug/L			04/20/18 12:26	1
Chloromethane	ND		2.0		ug/L			04/20/18 12:26	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 12:26	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 12:26	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 12:26	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 12:26	1
Ethyl ether	ND		1.0		ug/L			04/20/18 12:26	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 12:26	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 12:26	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 12:26	1
Isopropyl ether	ND		10		ug/L			04/20/18 12:26	1
Isopropylbenzene	ND		1.0		ug/L			04/20/18 12:26	1
<b>Methyl tert-butyl ether</b>	<b>2.4</b>		1.0		ug/L			04/20/18 12:26	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 12:26	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 12:26	1
Naphthalene	ND		5.0		ug/L			04/20/18 12:26	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 12:26	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 12:26	1
o-Xylene	ND		1.0		ug/L			04/20/18 12:26	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 12:26	1
Styrene	ND		1.0		ug/L			04/20/18 12:26	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 12:26	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 12:26	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 12:26	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 12:26	1
Tetrahydrofuran	ND		10		ug/L			04/20/18 12:26	1
Toluene	ND		1.0		ug/L			04/20/18 12:26	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: DUP-003-20180411-01**

**Lab Sample ID: 480-134267-20**

Date Collected: 04/11/18 00:03

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 12:26	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 12:26	1
<b>Trichloroethene</b>	<b>18</b>		1.0		ug/L			04/20/18 12:26	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 12:26	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 12:26	1
Dibromomethane	ND		1.0		ug/L			04/20/18 12:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130					04/20/18 12:26	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 130					04/20/18 12:26	1
4-Bromofluorobenzene (Surr)	101		70 - 130					04/20/18 12:26	1

**Client Sample ID: MW-1025D-20180411-01**

**Lab Sample ID: 480-134267-21**

Date Collected: 04/11/18 12:19

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 01:37	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 01:37	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 01:37	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 01:37	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 01:37	1
1,1-Dichloroethene	ND		1.0		ug/L			04/20/18 01:37	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 01:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 01:37	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 01:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 01:37	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 01:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 01:37	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 01:37	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 01:37	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 01:37	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 01:37	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/20/18 01:37	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 01:37	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 01:37	1
1,4-Dioxane	ND	*	50		ug/L			04/20/18 01:37	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 01:37	1
2-Butanone (MEK)	ND	*	10		ug/L			04/20/18 01:37	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 01:37	1
2-Hexanone	ND		10		ug/L			04/20/18 01:37	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 01:37	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 01:37	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 01:37	1
Acetone	ND	*	50		ug/L			04/20/18 01:37	1
Benzene	ND		1.0		ug/L			04/20/18 01:37	1
Bromobenzene	ND		1.0		ug/L			04/20/18 01:37	1
Bromoform	ND		1.0		ug/L			04/20/18 01:37	1
Bromomethane	ND		2.0		ug/L			04/20/18 01:37	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1025D-20180411-01**

**Lab Sample ID: 480-134267-21**

**Date Collected: 04/11/18 12:19**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 01:37	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 01:37	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 01:37	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 01:37	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 01:37	1
Chloroethane	ND		2.0		ug/L			04/20/18 01:37	1
Chloroform	ND		1.0		ug/L			04/20/18 01:37	1
Chloromethane	ND		2.0		ug/L			04/20/18 01:37	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 01:37	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 01:37	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 01:37	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 01:37	1
Ethyl ether	ND		1.0		ug/L			04/20/18 01:37	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 01:37	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 01:37	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 01:37	1
Isopropyl ether	ND		10		ug/L			04/20/18 01:37	1
Isopropylbenzene	ND		1.0		ug/L			04/20/18 01:37	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/20/18 01:37	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 01:37	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 01:37	1
Naphthalene	ND		5.0		ug/L			04/20/18 01:37	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 01:37	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 01:37	1
o-Xylene	ND		1.0		ug/L			04/20/18 01:37	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 01:37	1
Styrene	ND		1.0		ug/L			04/20/18 01:37	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 01:37	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 01:37	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 01:37	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 01:37	1
Tetrahydrofuran	ND *		10		ug/L			04/20/18 01:37	1
Toluene	ND		1.0		ug/L			04/20/18 01:37	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 01:37	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 01:37	1
Trichloroethene	ND		1.0		ug/L			04/20/18 01:37	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 01:37	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 01:37	1
Dibromomethane	ND		1.0		ug/L			04/20/18 01:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/20/18 01:37	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/20/18 01:37	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/20/18 01:37	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1014-20180411-01**

**Lab Sample ID: 480-134267-22**

Date Collected: 04/11/18 08:30

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 02:01	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 02:01	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 02:01	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 02:01	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 02:01	1
1,1-Dichloroethene	ND		1.0		ug/L			04/20/18 02:01	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 02:01	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 02:01	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 02:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 02:01	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 02:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 02:01	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 02:01	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 02:01	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 02:01	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 02:01	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/20/18 02:01	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 02:01	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 02:01	1
1,4-Dioxane	ND *		50		ug/L			04/20/18 02:01	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 02:01	1
2-Butanone (MEK)	ND *		10		ug/L			04/20/18 02:01	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 02:01	1
2-Hexanone	ND		10		ug/L			04/20/18 02:01	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 02:01	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 02:01	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 02:01	1
<b>Acetone</b>	<b>130 *</b>		50		ug/L			04/20/18 02:01	1
Benzene	ND		1.0		ug/L			04/20/18 02:01	1
Bromobenzene	ND		1.0		ug/L			04/20/18 02:01	1
Bromoform	ND		1.0		ug/L			04/20/18 02:01	1
Bromomethane	ND		2.0		ug/L			04/20/18 02:01	1
Carbon disulfide	ND		10		ug/L			04/20/18 02:01	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 02:01	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 02:01	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 02:01	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 02:01	1
Chloroethane	ND		2.0		ug/L			04/20/18 02:01	1
Chloroform	ND		1.0		ug/L			04/20/18 02:01	1
Chloromethane	ND		2.0		ug/L			04/20/18 02:01	1
<b>cis-1,2-Dichloroethene</b>	<b>4.4</b>		1.0		ug/L			04/20/18 02:01	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 02:01	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 02:01	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 02:01	1
Ethyl ether	ND		1.0		ug/L			04/20/18 02:01	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 02:01	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 02:01	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 02:01	1
Isopropyl ether	ND		10		ug/L			04/20/18 02:01	1

TestAmerica Buffalo



# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1014-20180411-01**

**Lab Sample ID: 480-134267-22**

**Date Collected: 04/11/18 08:30**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 02:01	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/20/18 02:01	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 02:01	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 02:01	1
Naphthalene	ND		5.0		ug/L			04/20/18 02:01	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 02:01	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 02:01	1
o-Xylene	ND		1.0		ug/L			04/20/18 02:01	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 02:01	1
Styrene	ND		1.0		ug/L			04/20/18 02:01	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 02:01	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 02:01	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 02:01	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 02:01	1
Tetrahydrofuran	ND	*	10		ug/L			04/20/18 02:01	1
Toluene	ND		1.0		ug/L			04/20/18 02:01	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 02:01	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 02:01	1
<b>Trichloroethene</b>	<b>10</b>		1.0		ug/L			04/20/18 02:01	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 02:01	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 02:01	1
Dibromomethane	ND		1.0		ug/L			04/20/18 02:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130		04/20/18 02:01	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/20/18 02:01	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/20/18 02:01	1

**Client Sample ID: MW-1015D-20180411-01**

**Lab Sample ID: 480-134267-23**

**Date Collected: 04/11/18 08:51**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 02:24	1
1,1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 02:24	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 02:24	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 02:24	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 02:24	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 02:24	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 02:24	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 02:24	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 02:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 02:24	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 02:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 02:24	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 02:24	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 02:24	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 02:24	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 02:24	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1015D-20180411-01**

**Lab Sample ID: 480-134267-23**

Date Collected: 04/11/18 08:51

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 02:24	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 02:24	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 02:24	1
1,4-Dioxane	ND	*	50		ug/L			04/20/18 02:24	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 02:24	1
2-Butanone (MEK)	ND	*	10		ug/L			04/20/18 02:24	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 02:24	1
2-Hexanone	ND		10		ug/L			04/20/18 02:24	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 02:24	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 02:24	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 02:24	1
Acetone	ND	*	50		ug/L			04/20/18 02:24	1
Benzene	ND		1.0		ug/L			04/20/18 02:24	1
Bromobenzene	ND		1.0		ug/L			04/20/18 02:24	1
Bromoform	ND		1.0		ug/L			04/20/18 02:24	1
Bromomethane	ND		2.0		ug/L			04/20/18 02:24	1
Carbon disulfide	ND		10		ug/L			04/20/18 02:24	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 02:24	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 02:24	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 02:24	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 02:24	1
Chloroethane	ND		2.0		ug/L			04/20/18 02:24	1
Chloroform	ND		1.0		ug/L			04/20/18 02:24	1
Chloromethane	ND		2.0		ug/L			04/20/18 02:24	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 02:24	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 02:24	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 02:24	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 02:24	1
Ethyl ether	ND		1.0		ug/L			04/20/18 02:24	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 02:24	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 02:24	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 02:24	1
Isopropyl ether	ND		10		ug/L			04/20/18 02:24	1
Isopropylbenzene	ND		1.0		ug/L			04/20/18 02:24	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/20/18 02:24	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 02:24	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 02:24	1
Naphthalene	ND		5.0		ug/L			04/20/18 02:24	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 02:24	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 02:24	1
o-Xylene	ND		1.0		ug/L			04/20/18 02:24	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 02:24	1
Styrene	ND		1.0		ug/L			04/20/18 02:24	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 02:24	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 02:24	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 02:24	1
<b>Tetrachloroethene</b>	<b>1.7</b>		1.0		ug/L			04/20/18 02:24	1
Tetrahydrofuran	ND	*	10		ug/L			04/20/18 02:24	1
Toluene	ND		1.0		ug/L			04/20/18 02:24	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1015D-20180411-01**

**Lab Sample ID: 480-134267-23**

Date Collected: 04/11/18 08:51

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 02:24	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 02:24	1
<b>Trichloroethene</b>	<b>14</b>		1.0		ug/L			04/20/18 02:24	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 02:24	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 02:24	1
Dibromomethane	ND		1.0		ug/L			04/20/18 02:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130					04/20/18 02:24	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130					04/20/18 02:24	1
4-Bromofluorobenzene (Surr)	98		70 - 130					04/20/18 02:24	1

**Client Sample ID: MW-1027-20180411-01**

**Lab Sample ID: 480-134267-24**

Date Collected: 04/11/18 13:26

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 02:48	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 02:48	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 02:48	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 02:48	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 02:48	1
1,1-Dichloroethene	ND		1.0		ug/L			04/20/18 02:48	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 02:48	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 02:48	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 02:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 02:48	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 02:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 02:48	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 02:48	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 02:48	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 02:48	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 02:48	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/20/18 02:48	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 02:48	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 02:48	1
1,4-Dioxane	ND	*	50		ug/L			04/20/18 02:48	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 02:48	1
2-Butanone (MEK)	ND	*	10		ug/L			04/20/18 02:48	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 02:48	1
2-Hexanone	ND		10		ug/L			04/20/18 02:48	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 02:48	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 02:48	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 02:48	1
Acetone	ND	*	50		ug/L			04/20/18 02:48	1
Benzene	ND		1.0		ug/L			04/20/18 02:48	1
Bromobenzene	ND		1.0		ug/L			04/20/18 02:48	1
Bromoform	ND		1.0		ug/L			04/20/18 02:48	1
Bromomethane	ND		2.0		ug/L			04/20/18 02:48	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1027-20180411-01**

**Lab Sample ID: 480-134267-24**

Date Collected: 04/11/18 13:26

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 02:48	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 02:48	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 02:48	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 02:48	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 02:48	1
Chloroethane	ND		2.0		ug/L			04/20/18 02:48	1
Chloroform	ND		1.0		ug/L			04/20/18 02:48	1
Chloromethane	ND		2.0		ug/L			04/20/18 02:48	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 02:48	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 02:48	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 02:48	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 02:48	1
Ethyl ether	ND		1.0		ug/L			04/20/18 02:48	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 02:48	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 02:48	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 02:48	1
Isopropyl ether	ND		10		ug/L			04/20/18 02:48	1
Isopropylbenzene	ND		1.0		ug/L			04/20/18 02:48	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/20/18 02:48	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 02:48	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 02:48	1
Naphthalene	ND		5.0		ug/L			04/20/18 02:48	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 02:48	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 02:48	1
o-Xylene	ND		1.0		ug/L			04/20/18 02:48	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 02:48	1
Styrene	ND		1.0		ug/L			04/20/18 02:48	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 02:48	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 02:48	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 02:48	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 02:48	1
Tetrahydrofuran	ND *		10		ug/L			04/20/18 02:48	1
Toluene	ND		1.0		ug/L			04/20/18 02:48	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 02:48	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 02:48	1
Trichloroethene	ND		1.0		ug/L			04/20/18 02:48	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 02:48	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 02:48	1
Dibromomethane	ND		1.0		ug/L			04/20/18 02:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130		04/20/18 02:48	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/20/18 02:48	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/20/18 02:48	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1028-20180411-01**

**Lab Sample ID: 480-134267-25**

Date Collected: 04/11/18 13:42

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 03:12	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 03:12	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 03:12	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 03:12	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 03:12	1
1,1-Dichloroethene	ND		1.0		ug/L			04/20/18 03:12	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 03:12	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 03:12	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 03:12	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 03:12	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 03:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 03:12	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 03:12	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 03:12	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 03:12	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 03:12	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/20/18 03:12	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 03:12	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 03:12	1
1,4-Dioxane	ND *		50		ug/L			04/20/18 03:12	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 03:12	1
2-Butanone (MEK)	ND *		10		ug/L			04/20/18 03:12	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 03:12	1
2-Hexanone	ND		10		ug/L			04/20/18 03:12	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 03:12	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 03:12	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 03:12	1
Acetone	ND *		50		ug/L			04/20/18 03:12	1
Benzene	ND		1.0		ug/L			04/20/18 03:12	1
Bromobenzene	ND		1.0		ug/L			04/20/18 03:12	1
Bromoform	ND		1.0		ug/L			04/20/18 03:12	1
Bromomethane	ND		2.0		ug/L			04/20/18 03:12	1
Carbon disulfide	ND		10		ug/L			04/20/18 03:12	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 03:12	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 03:12	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 03:12	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 03:12	1
Chloroethane	ND		2.0		ug/L			04/20/18 03:12	1
Chloroform	ND		1.0		ug/L			04/20/18 03:12	1
Chloromethane	ND		2.0		ug/L			04/20/18 03:12	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 03:12	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 03:12	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 03:12	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 03:12	1
Ethyl ether	ND		1.0		ug/L			04/20/18 03:12	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 03:12	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 03:12	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 03:12	1
Isopropyl ether	ND		10		ug/L			04/20/18 03:12	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1028-20180411-01**

**Lab Sample ID: 480-134267-25**

**Date Collected: 04/11/18 13:42**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 03:12	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/20/18 03:12	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 03:12	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 03:12	1
Naphthalene	ND		5.0		ug/L			04/20/18 03:12	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 03:12	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 03:12	1
o-Xylene	ND		1.0		ug/L			04/20/18 03:12	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 03:12	1
Styrene	ND		1.0		ug/L			04/20/18 03:12	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 03:12	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 03:12	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 03:12	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 03:12	1
Tetrahydrofuran	ND	*	10		ug/L			04/20/18 03:12	1
Toluene	ND		1.0		ug/L			04/20/18 03:12	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 03:12	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 03:12	1
<b>Trichloroethene</b>	<b>4.6</b>		1.0		ug/L			04/20/18 03:12	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 03:12	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 03:12	1
Dibromomethane	ND		1.0		ug/L			04/20/18 03:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130		04/20/18 03:12	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 130		04/20/18 03:12	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/20/18 03:12	1

**Client Sample ID: MW-1034-20180411-01**

**Lab Sample ID: 480-134267-26**

**Date Collected: 04/11/18 14:07**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 03:36	1
1,1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 03:36	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 03:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 03:36	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 03:36	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 03:36	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 03:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 03:36	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 03:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 03:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 03:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 03:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 03:36	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 03:36	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 03:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 03:36	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1034-20180411-01**

**Lab Sample ID: 480-134267-26**

Date Collected: 04/11/18 14:07

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 03:36	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 03:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 03:36	1
1,4-Dioxane	ND	*	50		ug/L			04/20/18 03:36	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 03:36	1
<b>2-Butanone (MEK)</b>	<b>18</b>	*	10		ug/L			04/20/18 03:36	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 03:36	1
2-Hexanone	ND		10		ug/L			04/20/18 03:36	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 03:36	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 03:36	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 03:36	1
Acetone	ND	*	50		ug/L			04/20/18 03:36	1
Benzene	ND		1.0		ug/L			04/20/18 03:36	1
Bromobenzene	ND		1.0		ug/L			04/20/18 03:36	1
Bromoform	ND		1.0		ug/L			04/20/18 03:36	1
Bromomethane	ND		2.0		ug/L			04/20/18 03:36	1
Carbon disulfide	ND		10		ug/L			04/20/18 03:36	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 03:36	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 03:36	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 03:36	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 03:36	1
Chloroethane	ND		2.0		ug/L			04/20/18 03:36	1
Chloroform	ND		1.0		ug/L			04/20/18 03:36	1
Chloromethane	ND		2.0		ug/L			04/20/18 03:36	1
<b>cis-1,2-Dichloroethene</b>	<b>14</b>		1.0		ug/L			04/20/18 03:36	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 03:36	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 03:36	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 03:36	1
Ethyl ether	ND		1.0		ug/L			04/20/18 03:36	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 03:36	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 03:36	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 03:36	1
Isopropyl ether	ND		10		ug/L			04/20/18 03:36	1
Isopropylbenzene	ND		1.0		ug/L			04/20/18 03:36	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/20/18 03:36	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 03:36	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 03:36	1
Naphthalene	ND		5.0		ug/L			04/20/18 03:36	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 03:36	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 03:36	1
o-Xylene	ND		1.0		ug/L			04/20/18 03:36	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 03:36	1
Styrene	ND		1.0		ug/L			04/20/18 03:36	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 03:36	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 03:36	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 03:36	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 03:36	1
Tetrahydrofuran	ND	*	10		ug/L			04/20/18 03:36	1
Toluene	ND		1.0		ug/L			04/20/18 03:36	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1034-20180411-01**

**Lab Sample ID: 480-134267-26**

Date Collected: 04/11/18 14:07

Matrix: Water

Date Received: 04/13/18 01:15

**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>1.6</b>		1.0		ug/L			04/20/18 03:36	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 03:36	1
<b>Trichloroethene</b>	<b>44</b>		1.0		ug/L			04/20/18 03:36	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 03:36	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 03:36	1
Dibromomethane	ND		1.0		ug/L			04/20/18 03:36	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>	93		70 - 130					04/20/18 03:36	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	111		70 - 130					04/20/18 03:36	1
<i>4-Bromofluorobenzene (Surr)</i>	96		70 - 130					04/20/18 03:36	1

**Client Sample ID: MW-1033-20180411-01**

**Lab Sample ID: 480-134267-27**

Date Collected: 04/11/18 13:55

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 03:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 03:59	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 03:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 03:59	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 03:59	1
1,1-Dichloroethene	ND		1.0		ug/L			04/20/18 03:59	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 03:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 03:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 03:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 03:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 03:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 03:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 03:59	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 03:59	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 03:59	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 03:59	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/20/18 03:59	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 03:59	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 03:59	1
1,4-Dioxane	ND	*	50		ug/L			04/20/18 03:59	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 03:59	1
2-Butanone (MEK)	ND	*	10		ug/L			04/20/18 03:59	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 03:59	1
2-Hexanone	ND		10		ug/L			04/20/18 03:59	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 03:59	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 03:59	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 03:59	1
Acetone	ND	*	50		ug/L			04/20/18 03:59	1
Benzene	ND		1.0		ug/L			04/20/18 03:59	1
Bromobenzene	ND		1.0		ug/L			04/20/18 03:59	1
Bromoform	ND		1.0		ug/L			04/20/18 03:59	1
Bromomethane	ND		2.0		ug/L			04/20/18 03:59	1

TestAmerica Buffalo



# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1033-20180411-01**

**Lab Sample ID: 480-134267-27**

**Date Collected: 04/11/18 13:55**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 03:59	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 03:59	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 03:59	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 03:59	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 03:59	1
Chloroethane	ND		2.0		ug/L			04/20/18 03:59	1
Chloroform	ND		1.0		ug/L			04/20/18 03:59	1
Chloromethane	ND		2.0		ug/L			04/20/18 03:59	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 03:59	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 03:59	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 03:59	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 03:59	1
Ethyl ether	ND		1.0		ug/L			04/20/18 03:59	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 03:59	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 03:59	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 03:59	1
Isopropyl ether	ND		10		ug/L			04/20/18 03:59	1
Isopropylbenzene	ND		1.0		ug/L			04/20/18 03:59	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/20/18 03:59	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 03:59	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 03:59	1
Naphthalene	ND		5.0		ug/L			04/20/18 03:59	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 03:59	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 03:59	1
o-Xylene	ND		1.0		ug/L			04/20/18 03:59	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 03:59	1
Styrene	ND		1.0		ug/L			04/20/18 03:59	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 03:59	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 03:59	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 03:59	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 03:59	1
Tetrahydrofuran	ND *		10		ug/L			04/20/18 03:59	1
Toluene	ND		1.0		ug/L			04/20/18 03:59	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 03:59	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 03:59	1
Trichloroethene	ND		1.0		ug/L			04/20/18 03:59	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 03:59	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 03:59	1
Dibromomethane	ND		1.0		ug/L			04/20/18 03:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/20/18 03:59	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/20/18 03:59	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/20/18 03:59	1

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1018-20180411-01**

**Lab Sample ID: 480-134267-28**

**Date Collected: 04/11/18 15:40**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 04:23	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 04:23	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 04:23	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 04:23	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 04:23	1
1,1-Dichloroethene	ND		1.0		ug/L			04/20/18 04:23	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 04:23	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 04:23	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 04:23	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 04:23	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 04:23	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 04:23	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 04:23	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 04:23	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 04:23	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 04:23	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/20/18 04:23	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 04:23	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 04:23	1
1,4-Dioxane	ND *		50		ug/L			04/20/18 04:23	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 04:23	1
2-Butanone (MEK)	ND *		10		ug/L			04/20/18 04:23	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 04:23	1
2-Hexanone	ND		10		ug/L			04/20/18 04:23	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 04:23	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 04:23	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 04:23	1
Acetone	ND *		50		ug/L			04/20/18 04:23	1
Benzene	ND		1.0		ug/L			04/20/18 04:23	1
Bromobenzene	ND		1.0		ug/L			04/20/18 04:23	1
Bromoform	ND		1.0		ug/L			04/20/18 04:23	1
Bromomethane	ND		2.0		ug/L			04/20/18 04:23	1
Carbon disulfide	ND		10		ug/L			04/20/18 04:23	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 04:23	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 04:23	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 04:23	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 04:23	1
Chloroethane	ND		2.0		ug/L			04/20/18 04:23	1
Chloroform	ND		1.0		ug/L			04/20/18 04:23	1
Chloromethane	ND		2.0		ug/L			04/20/18 04:23	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 04:23	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 04:23	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 04:23	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 04:23	1
Ethyl ether	ND		1.0		ug/L			04/20/18 04:23	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 04:23	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 04:23	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 04:23	1
Isopropyl ether	ND		10		ug/L			04/20/18 04:23	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1018-20180411-01**

**Lab Sample ID: 480-134267-28**

**Date Collected: 04/11/18 15:40**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 04:23	1
<b>Methyl tert-butyl ether</b>	<b>5.7</b>		1.0		ug/L			04/20/18 04:23	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 04:23	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 04:23	1
Naphthalene	ND		5.0		ug/L			04/20/18 04:23	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 04:23	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 04:23	1
o-Xylene	ND		1.0		ug/L			04/20/18 04:23	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 04:23	1
Styrene	ND		1.0		ug/L			04/20/18 04:23	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 04:23	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 04:23	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 04:23	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 04:23	1
Tetrahydrofuran	ND *		10		ug/L			04/20/18 04:23	1
Toluene	ND		1.0		ug/L			04/20/18 04:23	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 04:23	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 04:23	1
Trichloroethene	ND		1.0		ug/L			04/20/18 04:23	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 04:23	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 04:23	1
Dibromomethane	ND		1.0		ug/L			04/20/18 04:23	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>	93		70 - 130					04/20/18 04:23	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	114		70 - 130					04/20/18 04:23	1
<i>4-Bromofluorobenzene (Surr)</i>	98		70 - 130					04/20/18 04:23	1

**Client Sample ID: MW-1035-20180411-01**

**Lab Sample ID: 480-134267-29**

**Date Collected: 04/11/18 15:52**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 04:47	1
<b>1,1,1-Trichloroethane</b>	<b>6.9</b>		1.0		ug/L			04/20/18 04:47	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 04:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 04:47	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 04:47	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 04:47	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 04:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 04:47	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 04:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 04:47	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 04:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 04:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 04:47	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 04:47	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 04:47	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 04:47	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1035-20180411-01**

**Lab Sample ID: 480-134267-29**

**Date Collected: 04/11/18 15:52**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 04:47	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 04:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 04:47	1
1,4-Dioxane	ND	*	50		ug/L			04/20/18 04:47	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 04:47	1
2-Butanone (MEK)	ND	*	10		ug/L			04/20/18 04:47	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 04:47	1
2-Hexanone	ND		10		ug/L			04/20/18 04:47	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 04:47	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 04:47	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 04:47	1
Acetone	ND	*	50		ug/L			04/20/18 04:47	1
Benzene	ND		1.0		ug/L			04/20/18 04:47	1
Bromobenzene	ND		1.0		ug/L			04/20/18 04:47	1
Bromoform	ND		1.0		ug/L			04/20/18 04:47	1
Bromomethane	ND		2.0		ug/L			04/20/18 04:47	1
Carbon disulfide	ND		10		ug/L			04/20/18 04:47	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 04:47	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 04:47	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 04:47	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 04:47	1
Chloroethane	ND		2.0		ug/L			04/20/18 04:47	1
Chloroform	ND		1.0		ug/L			04/20/18 04:47	1
Chloromethane	ND		2.0		ug/L			04/20/18 04:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 04:47	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 04:47	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 04:47	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 04:47	1
Ethyl ether	ND		1.0		ug/L			04/20/18 04:47	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 04:47	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 04:47	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 04:47	1
Isopropyl ether	ND		10		ug/L			04/20/18 04:47	1
Isopropylbenzene	ND		1.0		ug/L			04/20/18 04:47	1
<b>Methyl tert-butyl ether</b>	<b>8.9</b>		1.0		ug/L			04/20/18 04:47	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 04:47	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 04:47	1
Naphthalene	ND		5.0		ug/L			04/20/18 04:47	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 04:47	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 04:47	1
o-Xylene	ND		1.0		ug/L			04/20/18 04:47	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 04:47	1
Styrene	ND		1.0		ug/L			04/20/18 04:47	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 04:47	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 04:47	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 04:47	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 04:47	1
Tetrahydrofuran	ND	*	10		ug/L			04/20/18 04:47	1
Toluene	ND		1.0		ug/L			04/20/18 04:47	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1035-20180411-01**

**Lab Sample ID: 480-134267-29**

Date Collected: 04/11/18 15:52

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 04:47	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 04:47	1
<b>Trichloroethene</b>	<b>38</b>		1.0		ug/L			04/20/18 04:47	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 04:47	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 04:47	1
Dibromomethane	ND		1.0		ug/L			04/20/18 04:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130					04/20/18 04:47	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130					04/20/18 04:47	1
4-Bromofluorobenzene (Surr)	97		70 - 130					04/20/18 04:47	1

**Client Sample ID: MW-1037-20180411-01**

**Lab Sample ID: 480-134267-30**

Date Collected: 04/11/18 15:50

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 18:20	2
<b>1,1,1-Trichloroethane</b>	<b>68</b>		2.0		ug/L			04/20/18 18:20	2
1,1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/20/18 18:20	2
1,1,2-Trichloroethane	ND		2.0		ug/L			04/20/18 18:20	2
1,1-Dichloroethane	ND		2.0		ug/L			04/20/18 18:20	2
<b>1,1-Dichloroethene</b>	<b>3.6</b>		2.0		ug/L			04/20/18 18:20	2
1,1-Dichloropropene	ND		2.0		ug/L			04/20/18 18:20	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			04/20/18 18:20	2
1,2,3-Trichloropropane	ND		2.0		ug/L			04/20/18 18:20	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			04/20/18 18:20	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			04/20/18 18:20	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			04/20/18 18:20	2
1,2-Dichlorobenzene	ND		2.0		ug/L			04/20/18 18:20	2
1,2-Dichloroethane	ND		2.0		ug/L			04/20/18 18:20	2
1,2-Dichloropropane	ND		2.0		ug/L			04/20/18 18:20	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			04/20/18 18:20	2
1,3-Dichlorobenzene	ND		2.0		ug/L			04/20/18 18:20	2
1,3-Dichloropropane	ND		2.0		ug/L			04/20/18 18:20	2
1,4-Dichlorobenzene	ND		2.0		ug/L			04/20/18 18:20	2
1,4-Dioxane	ND *		100		ug/L			04/20/18 18:20	2
2,2-Dichloropropane	ND		2.0		ug/L			04/20/18 18:20	2
2-Butanone (MEK)	ND *		20		ug/L			04/20/18 18:20	2
2-Chlorotoluene	ND		2.0		ug/L			04/20/18 18:20	2
2-Hexanone	ND		20		ug/L			04/20/18 18:20	2
4-Chlorotoluene	ND		2.0		ug/L			04/20/18 18:20	2
4-Isopropyltoluene	ND		2.0		ug/L			04/20/18 18:20	2
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			04/20/18 18:20	2
Acetone	ND		100		ug/L			04/20/18 18:20	2
Benzene	ND		2.0		ug/L			04/20/18 18:20	2
Bromobenzene	ND		2.0		ug/L			04/20/18 18:20	2
Bromoform	ND		2.0		ug/L			04/20/18 18:20	2
Bromomethane	ND		4.0		ug/L			04/20/18 18:20	2

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1037-20180411-01**

**Lab Sample ID: 480-134267-30**

Date Collected: 04/11/18 15:50

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 18:20	2
Carbon tetrachloride	ND		2.0		ug/L			04/20/18 18:20	2
Chlorobenzene	ND		2.0		ug/L			04/20/18 18:20	2
Chlorobromomethane	ND		2.0		ug/L			04/20/18 18:20	2
Chlorodibromomethane	ND		1.0		ug/L			04/20/18 18:20	2
Chloroethane	ND		4.0		ug/L			04/20/18 18:20	2
Chloroform	ND		2.0		ug/L			04/20/18 18:20	2
Chloromethane	ND		4.0		ug/L			04/20/18 18:20	2
cis-1,2-Dichloroethene	ND		2.0		ug/L			04/20/18 18:20	2
cis-1,3-Dichloropropene	ND		0.80		ug/L			04/20/18 18:20	2
Dichlorobromomethane	ND		1.0		ug/L			04/20/18 18:20	2
Dichlorodifluoromethane	ND		2.0		ug/L			04/20/18 18:20	2
Ethyl ether	ND		2.0		ug/L			04/20/18 18:20	2
Ethylbenzene	ND		2.0		ug/L			04/20/18 18:20	2
Ethylene Dibromide	ND		2.0		ug/L			04/20/18 18:20	2
Hexachlorobutadiene	ND		0.80		ug/L			04/20/18 18:20	2
Isopropyl ether	ND		20		ug/L			04/20/18 18:20	2
Isopropylbenzene	ND		2.0		ug/L			04/20/18 18:20	2
Methyl tert-butyl ether	ND		2.0		ug/L			04/20/18 18:20	2
Methylene Chloride	ND		2.0		ug/L			04/20/18 18:20	2
m-Xylene & p-Xylene	ND		4.0		ug/L			04/20/18 18:20	2
Naphthalene	ND		10		ug/L			04/20/18 18:20	2
n-Butylbenzene	ND		2.0		ug/L			04/20/18 18:20	2
N-Propylbenzene	ND		2.0		ug/L			04/20/18 18:20	2
o-Xylene	ND		2.0		ug/L			04/20/18 18:20	2
sec-Butylbenzene	ND		2.0		ug/L			04/20/18 18:20	2
Styrene	ND		2.0		ug/L			04/20/18 18:20	2
Tert-amyl methyl ether	ND		10		ug/L			04/20/18 18:20	2
Tert-butyl ethyl ether	ND		10		ug/L			04/20/18 18:20	2
tert-Butylbenzene	ND		2.0		ug/L			04/20/18 18:20	2
Tetrachloroethene	ND		2.0		ug/L			04/20/18 18:20	2
Tetrahydrofuran	ND		20		ug/L			04/20/18 18:20	2
Toluene	ND		2.0		ug/L			04/20/18 18:20	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			04/20/18 18:20	2
trans-1,3-Dichloropropene	ND		0.80		ug/L			04/20/18 18:20	2
Trichlorofluoromethane	ND		2.0		ug/L			04/20/18 18:20	2
Vinyl chloride	ND		2.0		ug/L			04/20/18 18:20	2
Dibromomethane	ND		2.0		ug/L			04/20/18 18:20	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/20/18 18:20	2
1,2-Dichloroethane-d4 (Surr)	117		70 - 130		04/20/18 18:20	2
4-Bromofluorobenzene (Surr)	95		70 - 130		04/20/18 18:20	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	280		10		ug/L			04/20/18 05:10	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/20/18 05:10	10

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1037-20180411-01**

**Lab Sample ID: 480-134267-30**

Date Collected: 04/11/18 15:50

Matrix: Water

Date Received: 04/13/18 01:15

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		04/20/18 05:10	10
4-Bromofluorobenzene (Surr)	101		70 - 130		04/20/18 05:10	10

**Client Sample ID: MW-1036-20180411-01**

**Lab Sample ID: 480-134267-31**

Date Collected: 04/11/18 16:12

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 05:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 05:34	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 05:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 05:34	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 05:34	1
1,1-Dichloroethene	ND		1.0		ug/L			04/20/18 05:34	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 05:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 05:34	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 05:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 05:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 05:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 05:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 05:34	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 05:34	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 05:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 05:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/20/18 05:34	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 05:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 05:34	1
1,4-Dioxane	ND *		50		ug/L			04/20/18 05:34	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 05:34	1
2-Butanone (MEK)	ND *		10		ug/L			04/20/18 05:34	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 05:34	1
2-Hexanone	ND		10		ug/L			04/20/18 05:34	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 05:34	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 05:34	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 05:34	1
Acetone	ND *		50		ug/L			04/20/18 05:34	1
Benzene	ND		1.0		ug/L			04/20/18 05:34	1
Bromobenzene	ND		1.0		ug/L			04/20/18 05:34	1
Bromoform	ND		1.0		ug/L			04/20/18 05:34	1
Bromomethane	ND		2.0		ug/L			04/20/18 05:34	1
Carbon disulfide	ND		10		ug/L			04/20/18 05:34	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 05:34	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 05:34	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 05:34	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 05:34	1
Chloroethane	ND		2.0		ug/L			04/20/18 05:34	1
Chloroform	ND		1.0		ug/L			04/20/18 05:34	1
Chloromethane	ND		2.0		ug/L			04/20/18 05:34	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1036-20180411-01**

**Lab Sample ID: 480-134267-31**

Date Collected: 04/11/18 16:12

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 05:34	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 05:34	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 05:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 05:34	1
Ethyl ether	ND		1.0		ug/L			04/20/18 05:34	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 05:34	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 05:34	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 05:34	1
Isopropyl ether	ND		10		ug/L			04/20/18 05:34	1
Isopropylbenzene	ND		1.0		ug/L			04/20/18 05:34	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/20/18 05:34	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 05:34	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 05:34	1
Naphthalene	ND		5.0		ug/L			04/20/18 05:34	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 05:34	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 05:34	1
o-Xylene	ND		1.0		ug/L			04/20/18 05:34	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 05:34	1
Styrene	ND		1.0		ug/L			04/20/18 05:34	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 05:34	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 05:34	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 05:34	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 05:34	1
Tetrahydrofuran	ND *		10		ug/L			04/20/18 05:34	1
Toluene	ND		1.0		ug/L			04/20/18 05:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 05:34	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 05:34	1
Trichloroethene	ND		1.0		ug/L			04/20/18 05:34	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 05:34	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 05:34	1
Dibromomethane	ND		1.0		ug/L			04/20/18 05:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		70 - 130		04/20/18 05:34	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		04/20/18 05:34	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/20/18 05:34	1

**Client Sample ID: DUP-002-20180411-01**

**Lab Sample ID: 480-134267-32**

Date Collected: 04/11/18 00:02

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 12:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 12:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 12:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 12:49	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 12:49	1
1,1-Dichloroethene	ND		1.0		ug/L			04/20/18 12:49	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 12:49	1

TestAmerica Buffalo



# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: DUP-002-20180411-01**

**Lab Sample ID: 480-134267-32**

**Date Collected: 04/11/18 00:02**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 12:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 12:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 12:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 12:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 12:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 12:49	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 12:49	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 12:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 12:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/20/18 12:49	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 12:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 12:49	1
1,4-Dioxane	ND	*	50		ug/L			04/20/18 12:49	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 12:49	1
2-Butanone (MEK)	ND	*	10		ug/L			04/20/18 12:49	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 12:49	1
2-Hexanone	ND		10		ug/L			04/20/18 12:49	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 12:49	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 12:49	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 12:49	1
Acetone	ND		50		ug/L			04/20/18 12:49	1
Benzene	ND		1.0		ug/L			04/20/18 12:49	1
Bromobenzene	ND		1.0		ug/L			04/20/18 12:49	1
Bromoform	ND		1.0		ug/L			04/20/18 12:49	1
Bromomethane	ND		2.0		ug/L			04/20/18 12:49	1
Carbon disulfide	ND		10		ug/L			04/20/18 12:49	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 12:49	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 12:49	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 12:49	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 12:49	1
Chloroethane	ND		2.0		ug/L			04/20/18 12:49	1
Chloroform	ND		1.0		ug/L			04/20/18 12:49	1
Chloromethane	ND		2.0		ug/L			04/20/18 12:49	1
<b>cis-1,2-Dichloroethene</b>	<b>3.7</b>		1.0		ug/L			04/20/18 12:49	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 12:49	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 12:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 12:49	1
Ethyl ether	ND		1.0		ug/L			04/20/18 12:49	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 12:49	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 12:49	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 12:49	1
Isopropyl ether	ND		10		ug/L			04/20/18 12:49	1
Isopropylbenzene	ND		1.0		ug/L			04/20/18 12:49	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/20/18 12:49	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 12:49	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 12:49	1
Naphthalene	ND		5.0		ug/L			04/20/18 12:49	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 12:49	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 12:49	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: DUP-002-20180411-01**

**Lab Sample ID: 480-134267-32**

Date Collected: 04/11/18 00:02

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 12:49	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 12:49	1
Styrene	ND		1.0		ug/L			04/20/18 12:49	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 12:49	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 12:49	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 12:49	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 12:49	1
Tetrahydrofuran	ND		10		ug/L			04/20/18 12:49	1
Toluene	ND		1.0		ug/L			04/20/18 12:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 12:49	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 12:49	1
<b>Trichloroethene</b>	<b>38</b>		1.0		ug/L			04/20/18 12:49	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 12:49	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 12:49	1
Dibromomethane	ND		1.0		ug/L			04/20/18 12:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130					04/20/18 12:49	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 130					04/20/18 12:49	1
4-Bromofluorobenzene (Surr)	100		70 - 130					04/20/18 12:49	1

**Client Sample ID: DUP-004-20180411-01**

**Lab Sample ID: 480-134267-33**

Date Collected: 04/11/18 00:04

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 13:13	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 13:13	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 13:13	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 13:13	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 13:13	1
1,1-Dichloroethene	ND		1.0		ug/L			04/20/18 13:13	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 13:13	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 13:13	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 13:13	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 13:13	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 13:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 13:13	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 13:13	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 13:13	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 13:13	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 13:13	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/20/18 13:13	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 13:13	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 13:13	1
1,4-Dioxane	ND *		50		ug/L			04/20/18 13:13	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 13:13	1
<b>2-Butanone (MEK)</b>	<b>16 *</b>		10		ug/L			04/20/18 13:13	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 13:13	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: DUP-004-20180411-01**

**Lab Sample ID: 480-134267-33**

**Date Collected: 04/11/18 00:04**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 13:13	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 13:13	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 13:13	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 13:13	1
Acetone	ND		50		ug/L			04/20/18 13:13	1
Benzene	ND		1.0		ug/L			04/20/18 13:13	1
Bromobenzene	ND		1.0		ug/L			04/20/18 13:13	1
Bromoform	ND		1.0		ug/L			04/20/18 13:13	1
Bromomethane	ND		2.0		ug/L			04/20/18 13:13	1
Carbon disulfide	ND		10		ug/L			04/20/18 13:13	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 13:13	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 13:13	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 13:13	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 13:13	1
Chloroethane	ND		2.0		ug/L			04/20/18 13:13	1
Chloroform	ND		1.0		ug/L			04/20/18 13:13	1
Chloromethane	ND		2.0		ug/L			04/20/18 13:13	1
<b>cis-1,2-Dichloroethene</b>	<b>15</b>		1.0		ug/L			04/20/18 13:13	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 13:13	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 13:13	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 13:13	1
Ethyl ether	ND		1.0		ug/L			04/20/18 13:13	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 13:13	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 13:13	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 13:13	1
Isopropyl ether	ND		10		ug/L			04/20/18 13:13	1
Isopropylbenzene	ND		1.0		ug/L			04/20/18 13:13	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/20/18 13:13	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 13:13	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 13:13	1
Naphthalene	ND		5.0		ug/L			04/20/18 13:13	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 13:13	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 13:13	1
o-Xylene	ND		1.0		ug/L			04/20/18 13:13	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 13:13	1
Styrene	ND		1.0		ug/L			04/20/18 13:13	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 13:13	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 13:13	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 13:13	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 13:13	1
Tetrahydrofuran	ND		10		ug/L			04/20/18 13:13	1
Toluene	ND		1.0		ug/L			04/20/18 13:13	1
<b>trans-1,2-Dichloroethene</b>	<b>1.7</b>		1.0		ug/L			04/20/18 13:13	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 13:13	1
<b>Trichloroethene</b>	<b>43</b>		1.0		ug/L			04/20/18 13:13	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 13:13	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 13:13	1
Dibromomethane	ND		1.0		ug/L			04/20/18 13:13	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: DUP-004-20180411-01**

**Lab Sample ID: 480-134267-33**

**Date Collected: 04/11/18 00:04**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/20/18 13:13	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/20/18 13:13	1
4-Bromofluorobenzene (Surr)	103		70 - 130		04/20/18 13:13	1

**Client Sample ID: DUP-005-20180411-01**

**Lab Sample ID: 480-134267-34**

**Date Collected: 04/11/18 00:05**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 13:37	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 13:37	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 13:37	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 13:37	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 13:37	1
1,1-Dichloroethene	ND		1.0		ug/L			04/20/18 13:37	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 13:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 13:37	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 13:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 13:37	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 13:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 13:37	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 13:37	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 13:37	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 13:37	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 13:37	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/20/18 13:37	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 13:37	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 13:37	1
1,4-Dioxane	ND *		50		ug/L			04/20/18 13:37	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 13:37	1
2-Butanone (MEK)	ND *		10		ug/L			04/20/18 13:37	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 13:37	1
2-Hexanone	ND		10		ug/L			04/20/18 13:37	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 13:37	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 13:37	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 13:37	1
Acetone	ND		50		ug/L			04/20/18 13:37	1
Benzene	ND		1.0		ug/L			04/20/18 13:37	1
Bromobenzene	ND		1.0		ug/L			04/20/18 13:37	1
Bromoform	ND		1.0		ug/L			04/20/18 13:37	1
Bromomethane	ND		2.0		ug/L			04/20/18 13:37	1
Carbon disulfide	ND		10		ug/L			04/20/18 13:37	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 13:37	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 13:37	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 13:37	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 13:37	1
Chloroethane	ND		2.0		ug/L			04/20/18 13:37	1
Chloroform	ND		1.0		ug/L			04/20/18 13:37	1
Chloromethane	ND		2.0		ug/L			04/20/18 13:37	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: DUP-005-20180411-01**

**Lab Sample ID: 480-134267-34**

Date Collected: 04/11/18 00:05

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 13:37	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 13:37	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 13:37	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 13:37	1
Ethyl ether	ND		1.0		ug/L			04/20/18 13:37	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 13:37	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 13:37	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 13:37	1
Isopropyl ether	ND		10		ug/L			04/20/18 13:37	1
Isopropylbenzene	ND		1.0		ug/L			04/20/18 13:37	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/20/18 13:37	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 13:37	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 13:37	1
Naphthalene	ND		5.0		ug/L			04/20/18 13:37	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 13:37	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 13:37	1
o-Xylene	ND		1.0		ug/L			04/20/18 13:37	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 13:37	1
Styrene	ND		1.0		ug/L			04/20/18 13:37	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 13:37	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 13:37	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 13:37	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 13:37	1
Tetrahydrofuran	ND		10		ug/L			04/20/18 13:37	1
Toluene	ND		1.0		ug/L			04/20/18 13:37	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 13:37	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 13:37	1
Trichloroethene	ND		1.0		ug/L			04/20/18 13:37	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 13:37	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 13:37	1
Dibromomethane	ND		1.0		ug/L			04/20/18 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/20/18 13:37	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		04/20/18 13:37	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/20/18 13:37	1

**Client Sample ID: MW-1038-20180411-01**

**Lab Sample ID: 480-134267-35**

Date Collected: 04/11/18 15:27

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 18:44	2
<b>1,1,1-Trichloroethane</b>	<b>150</b>		2.0		ug/L			04/20/18 18:44	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/20/18 18:44	2
1,1,2-Trichloroethane	ND		2.0		ug/L			04/20/18 18:44	2
<b>1,1-Dichloroethane</b>	<b>2.7</b>		2.0		ug/L			04/20/18 18:44	2
<b>1,1-Dichloroethene</b>	<b>6.3</b>		2.0		ug/L			04/20/18 18:44	2
1,1-Dichloropropene	ND		2.0		ug/L			04/20/18 18:44	2

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1038-20180411-01**

**Lab Sample ID: 480-134267-35**

Date Collected: 04/11/18 15:27

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 18:44	2
1,2,3-Trichloropropane	ND		2.0		ug/L			04/20/18 18:44	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			04/20/18 18:44	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			04/20/18 18:44	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			04/20/18 18:44	2
1,2-Dichlorobenzene	ND		2.0		ug/L			04/20/18 18:44	2
1,2-Dichloroethane	ND		2.0		ug/L			04/20/18 18:44	2
1,2-Dichloropropane	ND		2.0		ug/L			04/20/18 18:44	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			04/20/18 18:44	2
1,3-Dichlorobenzene	ND		2.0		ug/L			04/20/18 18:44	2
1,3-Dichloropropane	ND		2.0		ug/L			04/20/18 18:44	2
1,4-Dichlorobenzene	ND		2.0		ug/L			04/20/18 18:44	2
1,4-Dioxane	ND	*	100		ug/L			04/20/18 18:44	2
2,2-Dichloropropane	ND		2.0		ug/L			04/20/18 18:44	2
2-Butanone (MEK)	ND	*	20		ug/L			04/20/18 18:44	2
2-Chlorotoluene	ND		2.0		ug/L			04/20/18 18:44	2
2-Hexanone	ND		20		ug/L			04/20/18 18:44	2
4-Chlorotoluene	ND		2.0		ug/L			04/20/18 18:44	2
4-Isopropyltoluene	ND		2.0		ug/L			04/20/18 18:44	2
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			04/20/18 18:44	2
Acetone	ND		100		ug/L			04/20/18 18:44	2
Benzene	ND		2.0		ug/L			04/20/18 18:44	2
Bromobenzene	ND		2.0		ug/L			04/20/18 18:44	2
Bromoform	ND		2.0		ug/L			04/20/18 18:44	2
Bromomethane	ND		4.0		ug/L			04/20/18 18:44	2
Carbon disulfide	ND		20		ug/L			04/20/18 18:44	2
Carbon tetrachloride	ND		2.0		ug/L			04/20/18 18:44	2
Chlorobenzene	ND		2.0		ug/L			04/20/18 18:44	2
Chlorobromomethane	ND		2.0		ug/L			04/20/18 18:44	2
Chlorodibromomethane	ND		1.0		ug/L			04/20/18 18:44	2
Chloroethane	ND		4.0		ug/L			04/20/18 18:44	2
Chloroform	ND		2.0		ug/L			04/20/18 18:44	2
Chloromethane	ND		4.0		ug/L			04/20/18 18:44	2
<b>cis-1,2-Dichloroethene</b>	<b>2.4</b>		2.0		ug/L			04/20/18 18:44	2
cis-1,3-Dichloropropene	ND		0.80		ug/L			04/20/18 18:44	2
Dichlorobromomethane	ND		1.0		ug/L			04/20/18 18:44	2
Dichlorodifluoromethane	ND		2.0		ug/L			04/20/18 18:44	2
Ethyl ether	ND		2.0		ug/L			04/20/18 18:44	2
Ethylbenzene	ND		2.0		ug/L			04/20/18 18:44	2
Ethylene Dibromide	ND		2.0		ug/L			04/20/18 18:44	2
Hexachlorobutadiene	ND		0.80		ug/L			04/20/18 18:44	2
Isopropyl ether	ND		20		ug/L			04/20/18 18:44	2
Isopropylbenzene	ND		2.0		ug/L			04/20/18 18:44	2
Methyl tert-butyl ether	ND		2.0		ug/L			04/20/18 18:44	2
Methylene Chloride	ND		2.0		ug/L			04/20/18 18:44	2
m-Xylene & p-Xylene	ND		4.0		ug/L			04/20/18 18:44	2
Naphthalene	ND		10		ug/L			04/20/18 18:44	2
n-Butylbenzene	ND		2.0		ug/L			04/20/18 18:44	2
N-Propylbenzene	ND		2.0		ug/L			04/20/18 18:44	2

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1038-20180411-01**

**Lab Sample ID: 480-134267-35**

Date Collected: 04/11/18 15:27

Matrix: Water

Date Received: 04/13/18 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		2.0		ug/L			04/20/18 18:44	2
sec-Butylbenzene	ND		2.0		ug/L			04/20/18 18:44	2
Styrene	ND		2.0		ug/L			04/20/18 18:44	2
Tert-amyl methyl ether	ND		10		ug/L			04/20/18 18:44	2
Tert-butyl ethyl ether	ND		10		ug/L			04/20/18 18:44	2
tert-Butylbenzene	ND		2.0		ug/L			04/20/18 18:44	2
Tetrachloroethene	ND		2.0		ug/L			04/20/18 18:44	2
Tetrahydrofuran	ND		20		ug/L			04/20/18 18:44	2
Toluene	ND		2.0		ug/L			04/20/18 18:44	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			04/20/18 18:44	2
trans-1,3-Dichloropropene	ND		0.80		ug/L			04/20/18 18:44	2
Trichlorofluoromethane	ND		2.0		ug/L			04/20/18 18:44	2
Vinyl chloride	ND		2.0		ug/L			04/20/18 18:44	2
Dibromomethane	ND		2.0		ug/L			04/20/18 18:44	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130		04/20/18 18:44	2
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		04/20/18 18:44	2
4-Bromofluorobenzene (Surr)	95		70 - 130		04/20/18 18:44	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	590		40		ug/L			04/20/18 07:09	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130		04/20/18 07:09	40
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		04/20/18 07:09	40
4-Bromofluorobenzene (Surr)	99		70 - 130		04/20/18 07:09	40

**Client Sample ID: MW-1011-20180411-01**

**Lab Sample ID: 480-134267-36**

Date Collected: 04/11/18 15:08

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 14:01	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 14:01	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 14:01	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 14:01	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 14:01	1
1,1-Dichloroethene	ND		1.0		ug/L			04/20/18 14:01	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 14:01	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 14:01	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 14:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 14:01	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 14:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 14:01	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 14:01	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 14:01	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 14:01	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1011-20180411-01**

**Lab Sample ID: 480-134267-36**

Date Collected: 04/11/18 15:08

Matrix: Water

Date Received: 04/13/18 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 14:01	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/20/18 14:01	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 14:01	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 14:01	1
1,4-Dioxane	ND	*	50		ug/L			04/20/18 14:01	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 14:01	1
2-Butanone (MEK)	ND	*	10		ug/L			04/20/18 14:01	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 14:01	1
2-Hexanone	ND		10		ug/L			04/20/18 14:01	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 14:01	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 14:01	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 14:01	1
Acetone	ND		50		ug/L			04/20/18 14:01	1
Benzene	ND		1.0		ug/L			04/20/18 14:01	1
Bromobenzene	ND		1.0		ug/L			04/20/18 14:01	1
Bromoform	ND		1.0		ug/L			04/20/18 14:01	1
Bromomethane	ND		2.0		ug/L			04/20/18 14:01	1
Carbon disulfide	ND		10		ug/L			04/20/18 14:01	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 14:01	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 14:01	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 14:01	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 14:01	1
Chloroethane	ND		2.0		ug/L			04/20/18 14:01	1
Chloroform	ND		1.0		ug/L			04/20/18 14:01	1
Chloromethane	ND		2.0		ug/L			04/20/18 14:01	1
<b>cis-1,2-Dichloroethene</b>	<b>7.0</b>		1.0		ug/L			04/20/18 14:01	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 14:01	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 14:01	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 14:01	1
Ethyl ether	ND		1.0		ug/L			04/20/18 14:01	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 14:01	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 14:01	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 14:01	1
Isopropyl ether	ND		10		ug/L			04/20/18 14:01	1
Isopropylbenzene	ND		1.0		ug/L			04/20/18 14:01	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/20/18 14:01	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 14:01	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 14:01	1
Naphthalene	ND		5.0		ug/L			04/20/18 14:01	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 14:01	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 14:01	1
o-Xylene	ND		1.0		ug/L			04/20/18 14:01	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 14:01	1
Styrene	ND		1.0		ug/L			04/20/18 14:01	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 14:01	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 14:01	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 14:01	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 14:01	1
Tetrahydrofuran	ND		10		ug/L			04/20/18 14:01	1

TestAmerica Buffalo



# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1011-20180411-01**

**Lab Sample ID: 480-134267-36**

Date Collected: 04/11/18 15:08

Matrix: Water

Date Received: 04/13/18 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0		ug/L			04/20/18 14:01	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 14:01	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 14:01	1
<b>Trichloroethene</b>	<b>11</b>		1.0		ug/L			04/20/18 14:01	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 14:01	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 14:01	1
Dibromomethane	ND		1.0		ug/L			04/20/18 14:01	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>	94		70 - 130					04/20/18 14:01	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	115		70 - 130					04/20/18 14:01	1
<i>4-Bromofluorobenzene (Surr)</i>	95		70 - 130					04/20/18 14:01	1

**Client Sample ID: MW-1039-20180411-01**

**Lab Sample ID: 480-134267-37**

Date Collected: 04/11/18 14:47

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 14:24	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 14:24	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 14:24	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 14:24	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 14:24	1
1,1-Dichloroethene	ND		1.0		ug/L			04/20/18 14:24	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 14:24	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 14:24	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 14:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 14:24	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 14:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 14:24	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 14:24	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 14:24	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 14:24	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 14:24	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/20/18 14:24	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 14:24	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 14:24	1
1,4-Dioxane	ND *		50		ug/L			04/20/18 14:24	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 14:24	1
2-Butanone (MEK)	ND *		10		ug/L			04/20/18 14:24	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 14:24	1
2-Hexanone	ND		10		ug/L			04/20/18 14:24	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 14:24	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 14:24	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 14:24	1
Acetone	ND		50		ug/L			04/20/18 14:24	1
Benzene	ND		1.0		ug/L			04/20/18 14:24	1
Bromobenzene	ND		1.0		ug/L			04/20/18 14:24	1
Bromoform	ND		1.0		ug/L			04/20/18 14:24	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1039-20180411-01**

**Lab Sample ID: 480-134267-37**

Date Collected: 04/11/18 14:47

Matrix: Water

Date Received: 04/13/18 01:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		2.0		ug/L			04/20/18 14:24	1
Carbon disulfide	ND		10		ug/L			04/20/18 14:24	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 14:24	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 14:24	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 14:24	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 14:24	1
Chloroethane	ND		2.0		ug/L			04/20/18 14:24	1
Chloroform	ND		1.0		ug/L			04/20/18 14:24	1
Chloromethane	ND		2.0		ug/L			04/20/18 14:24	1
<b>cis-1,2-Dichloroethene</b>	<b>32</b>		1.0		ug/L			04/20/18 14:24	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 14:24	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 14:24	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 14:24	1
Ethyl ether	ND		1.0		ug/L			04/20/18 14:24	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 14:24	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 14:24	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 14:24	1
Isopropyl ether	ND		10		ug/L			04/20/18 14:24	1
Isopropylbenzene	ND		1.0		ug/L			04/20/18 14:24	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/20/18 14:24	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 14:24	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 14:24	1
Naphthalene	ND		5.0		ug/L			04/20/18 14:24	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 14:24	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 14:24	1
o-Xylene	ND		1.0		ug/L			04/20/18 14:24	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 14:24	1
Styrene	ND		1.0		ug/L			04/20/18 14:24	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 14:24	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 14:24	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 14:24	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 14:24	1
Tetrahydrofuran	ND		10		ug/L			04/20/18 14:24	1
Toluene	ND		1.0		ug/L			04/20/18 14:24	1
<b>trans-1,2-Dichloroethene</b>	<b>2.1</b>		1.0		ug/L			04/20/18 14:24	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 14:24	1
<b>Trichloroethene</b>	<b>57</b>		1.0		ug/L			04/20/18 14:24	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 14:24	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 14:24	1
Dibromomethane	ND		1.0		ug/L			04/20/18 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130		04/20/18 14:24	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/20/18 14:24	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/20/18 14:24	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: PDB-001-20180411-01**

**Lab Sample ID: 480-134267-38**

**Date Collected: 04/11/18 15:45**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 14:48	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 14:48	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 14:48	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 14:48	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 14:48	1
1,1-Dichloroethene	ND		1.0		ug/L			04/20/18 14:48	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 14:48	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 14:48	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 14:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 14:48	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 14:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 14:48	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 14:48	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 14:48	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 14:48	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 14:48	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/20/18 14:48	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 14:48	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 14:48	1
1,4-Dioxane	ND *		50		ug/L			04/20/18 14:48	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 14:48	1
2-Butanone (MEK)	ND *		10		ug/L			04/20/18 14:48	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 14:48	1
2-Hexanone	ND		10		ug/L			04/20/18 14:48	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 14:48	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 14:48	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 14:48	1
Acetone	ND		50		ug/L			04/20/18 14:48	1
Benzene	ND		1.0		ug/L			04/20/18 14:48	1
Bromobenzene	ND		1.0		ug/L			04/20/18 14:48	1
Bromoform	ND		1.0		ug/L			04/20/18 14:48	1
Bromomethane	ND		2.0		ug/L			04/20/18 14:48	1
Carbon disulfide	ND		10		ug/L			04/20/18 14:48	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 14:48	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 14:48	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 14:48	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 14:48	1
Chloroethane	ND		2.0		ug/L			04/20/18 14:48	1
Chloroform	ND		1.0		ug/L			04/20/18 14:48	1
Chloromethane	ND		2.0		ug/L			04/20/18 14:48	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 14:48	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 14:48	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 14:48	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 14:48	1
Ethyl ether	ND		1.0		ug/L			04/20/18 14:48	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 14:48	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 14:48	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 14:48	1
Isopropyl ether	ND		10		ug/L			04/20/18 14:48	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: PDB-001-20180411-01**

**Lab Sample ID: 480-134267-38**

**Date Collected: 04/11/18 15:45**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 14:48	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/20/18 14:48	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 14:48	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 14:48	1
Naphthalene	ND		5.0		ug/L			04/20/18 14:48	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 14:48	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 14:48	1
o-Xylene	ND		1.0		ug/L			04/20/18 14:48	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 14:48	1
Styrene	ND		1.0		ug/L			04/20/18 14:48	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 14:48	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 14:48	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 14:48	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 14:48	1
Tetrahydrofuran	ND		10		ug/L			04/20/18 14:48	1
Toluene	ND		1.0		ug/L			04/20/18 14:48	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 14:48	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 14:48	1
Trichloroethene	ND		1.0		ug/L			04/20/18 14:48	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 14:48	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 14:48	1
Dibromomethane	ND		1.0		ug/L			04/20/18 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130					04/20/18 14:48	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 130					04/20/18 14:48	1
4-Bromofluorobenzene (Surr)	97		70 - 130					04/20/18 14:48	1

**Client Sample ID: TB-001-20180411-01**

**Lab Sample ID: 480-134267-39**

**Date Collected: 04/11/18 00:00**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 15:12	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 15:12	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 15:12	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 15:12	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 15:12	1
1,1-Dichloroethene	ND		1.0		ug/L			04/20/18 15:12	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 15:12	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 15:12	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 15:12	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 15:12	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 15:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 15:12	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 15:12	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 15:12	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 15:12	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 15:12	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: TB-001-20180411-01**

**Lab Sample ID: 480-134267-39**

**Date Collected: 04/11/18 00:00**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 15:12	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 15:12	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 15:12	1
1,4-Dioxane	ND	*	50		ug/L			04/20/18 15:12	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 15:12	1
2-Butanone (MEK)	ND	*	10		ug/L			04/20/18 15:12	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 15:12	1
2-Hexanone	ND		10		ug/L			04/20/18 15:12	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 15:12	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 15:12	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 15:12	1
Acetone	ND		50		ug/L			04/20/18 15:12	1
Benzene	ND		1.0		ug/L			04/20/18 15:12	1
Bromobenzene	ND		1.0		ug/L			04/20/18 15:12	1
Bromoform	ND		1.0		ug/L			04/20/18 15:12	1
Bromomethane	ND		2.0		ug/L			04/20/18 15:12	1
Carbon disulfide	ND		10		ug/L			04/20/18 15:12	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 15:12	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 15:12	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 15:12	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 15:12	1
Chloroethane	ND		2.0		ug/L			04/20/18 15:12	1
Chloroform	ND		1.0		ug/L			04/20/18 15:12	1
Chloromethane	ND		2.0		ug/L			04/20/18 15:12	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 15:12	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 15:12	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 15:12	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 15:12	1
Ethyl ether	ND		1.0		ug/L			04/20/18 15:12	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 15:12	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 15:12	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 15:12	1
Isopropyl ether	ND		10		ug/L			04/20/18 15:12	1
Isopropylbenzene	ND		1.0		ug/L			04/20/18 15:12	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/20/18 15:12	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 15:12	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 15:12	1
Naphthalene	ND		5.0		ug/L			04/20/18 15:12	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 15:12	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 15:12	1
o-Xylene	ND		1.0		ug/L			04/20/18 15:12	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 15:12	1
Styrene	ND		1.0		ug/L			04/20/18 15:12	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 15:12	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 15:12	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 15:12	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 15:12	1
Tetrahydrofuran	ND		10		ug/L			04/20/18 15:12	1
Toluene	ND		1.0		ug/L			04/20/18 15:12	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: TB-001-20180411-01**

**Lab Sample ID: 480-134267-39**

**Date Collected: 04/11/18 00:00**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 15:12	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 15:12	1
Trichloroethene	ND		1.0		ug/L			04/20/18 15:12	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 15:12	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 15:12	1
Dibromomethane	ND		1.0		ug/L			04/20/18 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130		04/20/18 15:12	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/20/18 15:12	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/20/18 15:12	1

**Client Sample ID: MW-1010D-20180411-01**

**Lab Sample ID: 480-134267-40**

**Date Collected: 04/11/18 12:02**

**Matrix: Water**

**Date Received: 04/13/18 01:15**

**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			04/20/18 15:35	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 15:35	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 15:35	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 15:35	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 15:35	1
1,1-Dichloroethene	ND		1.0		ug/L			04/20/18 15:35	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 15:35	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 15:35	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 15:35	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 15:35	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 15:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 15:35	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 15:35	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 15:35	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 15:35	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 15:35	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/20/18 15:35	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 15:35	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 15:35	1
1,4-Dioxane	ND	*	50		ug/L			04/20/18 15:35	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 15:35	1
2-Butanone (MEK)	ND	*	10		ug/L			04/20/18 15:35	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 15:35	1
2-Hexanone	ND		10		ug/L			04/20/18 15:35	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 15:35	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 15:35	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 15:35	1
Acetone	ND		50		ug/L			04/20/18 15:35	1
Benzene	ND		1.0		ug/L			04/20/18 15:35	1
Bromobenzene	ND		1.0		ug/L			04/20/18 15:35	1
Bromoform	ND		1.0		ug/L			04/20/18 15:35	1
Bromomethane	ND		2.0		ug/L			04/20/18 15:35	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1010D-20180411-01**

**Lab Sample ID: 480-134267-40**

Date Collected: 04/11/18 12:02

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 15:35	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 15:35	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 15:35	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 15:35	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 15:35	1
Chloroethane	ND		2.0		ug/L			04/20/18 15:35	1
Chloroform	ND		1.0		ug/L			04/20/18 15:35	1
Chloromethane	ND		2.0		ug/L			04/20/18 15:35	1
<b>cis-1,2-Dichloroethene</b>	<b>2.8</b>		1.0		ug/L			04/20/18 15:35	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 15:35	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 15:35	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 15:35	1
Ethyl ether	ND		1.0		ug/L			04/20/18 15:35	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 15:35	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 15:35	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 15:35	1
Isopropyl ether	ND		10		ug/L			04/20/18 15:35	1
Isopropylbenzene	ND		1.0		ug/L			04/20/18 15:35	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/20/18 15:35	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 15:35	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 15:35	1
Naphthalene	ND		5.0		ug/L			04/20/18 15:35	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 15:35	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 15:35	1
o-Xylene	ND		1.0		ug/L			04/20/18 15:35	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 15:35	1
Styrene	ND		1.0		ug/L			04/20/18 15:35	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 15:35	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 15:35	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 15:35	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 15:35	1
Tetrahydrofuran	ND		10		ug/L			04/20/18 15:35	1
Toluene	ND		1.0		ug/L			04/20/18 15:35	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 15:35	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 15:35	1
<b>Trichloroethene</b>	<b>8.9</b>		1.0		ug/L			04/20/18 15:35	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 15:35	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 15:35	1
Dibromomethane	ND		1.0		ug/L			04/20/18 15:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130		04/20/18 15:35	1
1,2-Dichloroethane-d4 (Surr)	117		70 - 130		04/20/18 15:35	1
4-Bromofluorobenzene (Surr)	95		70 - 130		04/20/18 15:35	1

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1010M-20180411-01**

**Lab Sample ID: 480-134267-41**

Date Collected: 04/11/18 11:47

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 15:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 15:59	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 15:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 15:59	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 15:59	1
1,1-Dichloroethene	ND		1.0		ug/L			04/20/18 15:59	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 15:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 15:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 15:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 15:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 15:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 15:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 15:59	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 15:59	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 15:59	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 15:59	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/20/18 15:59	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 15:59	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 15:59	1
1,4-Dioxane	ND *		50		ug/L			04/20/18 15:59	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 15:59	1
2-Butanone (MEK)	ND *		10		ug/L			04/20/18 15:59	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 15:59	1
2-Hexanone	ND		10		ug/L			04/20/18 15:59	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 15:59	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 15:59	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 15:59	1
<b>Acetone</b>	<b>84</b>		50		ug/L			04/20/18 15:59	1
Benzene	ND		1.0		ug/L			04/20/18 15:59	1
Bromobenzene	ND		1.0		ug/L			04/20/18 15:59	1
Bromoform	ND		1.0		ug/L			04/20/18 15:59	1
Bromomethane	ND		2.0		ug/L			04/20/18 15:59	1
Carbon disulfide	ND		10		ug/L			04/20/18 15:59	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 15:59	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 15:59	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 15:59	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 15:59	1
Chloroethane	ND		2.0		ug/L			04/20/18 15:59	1
Chloroform	ND		1.0		ug/L			04/20/18 15:59	1
Chloromethane	ND		2.0		ug/L			04/20/18 15:59	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 15:59	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 15:59	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 15:59	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 15:59	1
Ethyl ether	ND		1.0		ug/L			04/20/18 15:59	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 15:59	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 15:59	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 15:59	1
Isopropyl ether	ND		10		ug/L			04/20/18 15:59	1

TestAmerica Buffalo



# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1010M-20180411-01**

**Lab Sample ID: 480-134267-41**

Date Collected: 04/11/18 11:47

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 15:59	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/20/18 15:59	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 15:59	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 15:59	1
Naphthalene	ND		5.0		ug/L			04/20/18 15:59	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 15:59	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 15:59	1
o-Xylene	ND		1.0		ug/L			04/20/18 15:59	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 15:59	1
Styrene	ND		1.0		ug/L			04/20/18 15:59	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 15:59	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 15:59	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 15:59	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 15:59	1
Tetrahydrofuran	ND		10		ug/L			04/20/18 15:59	1
Toluene	ND		1.0		ug/L			04/20/18 15:59	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 15:59	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 15:59	1
<b>Trichloroethene</b>	<b>13</b>		1.0		ug/L			04/20/18 15:59	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 15:59	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 15:59	1
Dibromomethane	ND		1.0		ug/L			04/20/18 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130		04/20/18 15:59	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		04/20/18 15:59	1
4-Bromofluorobenzene (Surr)	95		70 - 130		04/20/18 15:59	1

**Client Sample ID: MW-1019B-20180411-01**

**Lab Sample ID: 480-134267-42**

Date Collected: 04/11/18 16:20

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 16:22	1
1,1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 16:22	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 16:22	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 16:22	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 16:22	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 16:22	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 16:22	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 16:22	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 16:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 16:22	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 16:22	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 16:22	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 16:22	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 16:22	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 16:22	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 16:22	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1019B-20180411-01**

**Lab Sample ID: 480-134267-42**

Date Collected: 04/11/18 16:20

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 16:22	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 16:22	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 16:22	1
1,4-Dioxane	ND	*	50		ug/L			04/20/18 16:22	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 16:22	1
2-Butanone (MEK)	ND	*	10		ug/L			04/20/18 16:22	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 16:22	1
2-Hexanone	ND		10		ug/L			04/20/18 16:22	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 16:22	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 16:22	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 16:22	1
<b>Acetone</b>	<b>230</b>		50		ug/L			04/20/18 16:22	1
Benzene	ND		1.0		ug/L			04/20/18 16:22	1
Bromobenzene	ND		1.0		ug/L			04/20/18 16:22	1
Bromoform	ND		1.0		ug/L			04/20/18 16:22	1
Bromomethane	ND		2.0		ug/L			04/20/18 16:22	1
Carbon disulfide	ND		10		ug/L			04/20/18 16:22	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 16:22	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 16:22	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 16:22	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 16:22	1
Chloroethane	ND		2.0		ug/L			04/20/18 16:22	1
Chloroform	ND		1.0		ug/L			04/20/18 16:22	1
Chloromethane	ND		2.0		ug/L			04/20/18 16:22	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 16:22	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 16:22	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 16:22	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 16:22	1
Ethyl ether	ND		1.0		ug/L			04/20/18 16:22	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 16:22	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 16:22	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 16:22	1
Isopropyl ether	ND		10		ug/L			04/20/18 16:22	1
Isopropylbenzene	ND		1.0		ug/L			04/20/18 16:22	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/20/18 16:22	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 16:22	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 16:22	1
Naphthalene	ND		5.0		ug/L			04/20/18 16:22	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 16:22	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 16:22	1
o-Xylene	ND		1.0		ug/L			04/20/18 16:22	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 16:22	1
Styrene	ND		1.0		ug/L			04/20/18 16:22	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 16:22	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 16:22	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 16:22	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 16:22	1
Tetrahydrofuran	ND		10		ug/L			04/20/18 16:22	1
Toluene	ND		1.0		ug/L			04/20/18 16:22	1

TestAmerica Buffalo

# Client Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1019B-20180411-01**

**Lab Sample ID: 480-134267-42**

Date Collected: 04/11/18 16:20

Matrix: Water

Date Received: 04/13/18 01:15

**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			04/20/18 16:22	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 16:22	1
<b>Trichloroethene</b>	<b>1.0</b>		1.0		ug/L			04/20/18 16:22	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 16:22	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 16:22	1
Dibromomethane	ND		1.0		ug/L			04/20/18 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		04/20/18 16:22	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		04/20/18 16:22	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/20/18 16:22	1

# Surrogate Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

## 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)	DCA (70-130)	BFB (70-130)
480-134267-1	MW-1020-20180411-01	99	111	98
480-134267-2	MW-1013-20180411-01	95	110	99
480-134267-3	MW-1009-20180411-01	96	105	99
480-134267-4	MW-1008-20180411-01	93	111	97
480-134267-5	MW-1005-20180411-01	92	113	99
480-134267-6	MW-1004-20180411-01	93	110	97
480-134267-7	MW-1003-20180411-01	94	111	97
480-134267-8	MW-1006-20180411-01	95	113	97
480-134267-9	DUP-001-20180411-01	97	109	98
480-134267-10	MW-1017D-20180411-01	94	112	98
480-134267-11	MW-1016D-20180411-01	95	108	100
480-134267-12	MW-1032-20180411-01	97	107	99
480-134267-13	MW-1026D-20180411-01	93	111	98
480-134267-14	MW-1022-20180411-01	93	110	100
480-134267-15	MW-1030-20180411-01	94	113	99
480-134267-16	MW-1031-20180411-01	97	111	99
480-134267-17	MW-1023-20180411-01	94	108	97
480-134267-18	MW-1024D-20180411-01	96	111	98
480-134267-19	MW-1025M-20180411-01	93	113	95
480-134267-20	DUP-003-20180411-01	96	113	101
480-134267-21	MW-1025D-20180411-01	96	110	99
480-134267-22	MW-1014-20180411-01	92	111	96
480-134267-23	MW-1015D-20180411-01	92	109	98
480-134267-24	MW-1027-20180411-01	94	111	99
480-134267-25	MW-1028-20180411-01	94	117	98
480-134267-26	MW-1034-20180411-01	93	111	96
480-134267-27	MW-1033-20180411-01	95	110	97
480-134267-28	MW-1018-20180411-01	93	114	98
480-134267-29	MW-1035-20180411-01	94	110	97
480-134267-30 - DL	MW-1037-20180411-01	95	112	101
480-134267-30	MW-1037-20180411-01	96	117	95
480-134267-31	MW-1036-20180411-01	90	112	96
480-134267-32	DUP-002-20180411-01	94	106	100
480-134267-33	DUP-004-20180411-01	95	111	103
480-134267-34	DUP-005-20180411-01	95	107	97
480-134267-35 - DL	MW-1038-20180411-01	94	112	99
480-134267-35	MW-1038-20180411-01	93	109	95
480-134267-36	MW-1011-20180411-01	94	115	95
480-134267-37	MW-1039-20180411-01	93	111	97
480-134267-38	PDB-001-20180411-01	92	113	97
480-134267-39	TB-001-20180411-01	94	110	96
480-134267-40	MW-1010D-20180411-01	93	117	95
480-134267-41	MW-1010M-20180411-01	94	112	95
480-134267-42	MW-1019B-20180411-01	91	113	97
LCS 480-409598/5	Lab Control Sample	97	121	103
LCS 480-409631/5	Lab Control Sample	96	109	100
LCS 480-409831/5	Lab Control Sample	99	119	102
LCS 480-409865/5	Lab Control Sample	96	109	97
LCSD 480-409598/6	Lab Control Sample Dup	97	111	101

TestAmerica Buffalo

# Surrogate Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TOL	DCA	BFB
		(70-130)	(70-130)	(70-130)
LCSD 480-409631/6	Lab Control Sample Dup	96	111	100
LCSD 480-409831/6	Lab Control Sample Dup	98	110	100
LCSD 480-409865/6	Lab Control Sample Dup	96	111	100
MB 480-409598/8	Method Blank	96	108	103
MB 480-409631/8	Method Blank	95	110	97
MB 480-409831/8	Method Blank	96	108	98
MB 480-409865/8	Method Blank	98	112	99

### Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

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

**Lab Sample ID: MB 480-409598/8**

**Matrix: Water**

**Analysis Batch: 409598**

**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			04/18/18 23:02	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/18/18 23:02	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/18/18 23:02	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/18/18 23:02	1
1,1-Dichloroethane	ND		1.0		ug/L			04/18/18 23:02	1
1,1-Dichloroethene	ND		1.0		ug/L			04/18/18 23:02	1
1,1-Dichloropropene	ND		1.0		ug/L			04/18/18 23:02	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/18/18 23:02	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/18/18 23:02	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/18/18 23:02	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/18/18 23:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/18/18 23:02	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/18/18 23:02	1
1,2-Dichloroethane	ND		1.0		ug/L			04/18/18 23:02	1
1,2-Dichloropropane	ND		1.0		ug/L			04/18/18 23:02	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/18/18 23:02	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/18/18 23:02	1
1,3-Dichloropropane	ND		1.0		ug/L			04/18/18 23:02	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/18/18 23:02	1
1,4-Dioxane	ND		50		ug/L			04/18/18 23:02	1
2,2-Dichloropropane	ND		1.0		ug/L			04/18/18 23:02	1
2-Butanone (MEK)	ND		10		ug/L			04/18/18 23:02	1
2-Chlorotoluene	ND		1.0		ug/L			04/18/18 23:02	1
2-Hexanone	ND		10		ug/L			04/18/18 23:02	1
4-Chlorotoluene	ND		1.0		ug/L			04/18/18 23:02	1
4-Isopropyltoluene	ND		1.0		ug/L			04/18/18 23:02	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/18/18 23:02	1
Acetone	ND		50		ug/L			04/18/18 23:02	1
Benzene	ND		1.0		ug/L			04/18/18 23:02	1
Bromobenzene	ND		1.0		ug/L			04/18/18 23:02	1
Bromoform	ND		1.0		ug/L			04/18/18 23:02	1
Bromomethane	ND		2.0		ug/L			04/18/18 23:02	1
Carbon disulfide	ND		10		ug/L			04/18/18 23:02	1
Carbon tetrachloride	ND		1.0		ug/L			04/18/18 23:02	1
Chlorobenzene	ND		1.0		ug/L			04/18/18 23:02	1
Chlorobromomethane	ND		1.0		ug/L			04/18/18 23:02	1
Chlorodibromomethane	ND		0.50		ug/L			04/18/18 23:02	1
Chloroethane	ND		2.0		ug/L			04/18/18 23:02	1
Chloroform	ND		1.0		ug/L			04/18/18 23:02	1
Chloromethane	ND		2.0		ug/L			04/18/18 23:02	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 23:02	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 23:02	1
Dichlorobromomethane	ND		0.50		ug/L			04/18/18 23:02	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/18/18 23:02	1
Ethyl ether	ND		1.0		ug/L			04/18/18 23:02	1
Ethylbenzene	ND		1.0		ug/L			04/18/18 23:02	1
Ethylene Dibromide	ND		1.0		ug/L			04/18/18 23:02	1
Hexachlorobutadiene	ND		0.40		ug/L			04/18/18 23:02	1

TestAmerica Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

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

**Lab Sample ID: MB 480-409598/8**

**Matrix: Water**

**Analysis Batch: 409598**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Isopropyl ether	ND		10		ug/L			04/18/18 23:02	1
Isopropylbenzene	ND		1.0		ug/L			04/18/18 23:02	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/18/18 23:02	1
Methylene Chloride	ND		1.0		ug/L			04/18/18 23:02	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/18/18 23:02	1
Naphthalene	ND		5.0		ug/L			04/18/18 23:02	1
n-Butylbenzene	ND		1.0		ug/L			04/18/18 23:02	1
N-Propylbenzene	ND		1.0		ug/L			04/18/18 23:02	1
o-Xylene	ND		1.0		ug/L			04/18/18 23:02	1
sec-Butylbenzene	ND		1.0		ug/L			04/18/18 23:02	1
Styrene	ND		1.0		ug/L			04/18/18 23:02	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/18/18 23:02	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/18/18 23:02	1
tert-Butylbenzene	ND		1.0		ug/L			04/18/18 23:02	1
Tetrachloroethene	ND		1.0		ug/L			04/18/18 23:02	1
Tetrahydrofuran	ND		10		ug/L			04/18/18 23:02	1
Toluene	ND		1.0		ug/L			04/18/18 23:02	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 23:02	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 23:02	1
Trichloroethene	ND		1.0		ug/L			04/18/18 23:02	1
Trichlorofluoromethane	ND		1.0		ug/L			04/18/18 23:02	1
Vinyl chloride	ND		1.0		ug/L			04/18/18 23:02	1
Dibromomethane	ND		1.0		ug/L			04/18/18 23:02	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	96		70 - 130		04/18/18 23:02	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		04/18/18 23:02	1
4-Bromofluorobenzene (Surr)	103		70 - 130		04/18/18 23:02	1

**Lab Sample ID: LCS 480-409598/5**

**Matrix: Water**

**Analysis Batch: 409598**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	25.0	27.7		ug/L		111	70 - 130
1,1,1-Trichloroethane	25.0	28.8		ug/L		115	70 - 130
1,1,1,2-Tetrachloroethane	25.0	27.1		ug/L		108	70 - 130
1,1,2-Trichloroethane	25.0	25.9		ug/L		104	70 - 130
1,1-Dichloroethane	25.0	28.1		ug/L		113	70 - 130
1,1-Dichloroethane	25.0	28.4		ug/L		114	70 - 130
1,1-Dichloropropene	25.0	28.1		ug/L		112	70 - 130
1,2,3-Trichlorobenzene	25.0	25.3		ug/L		101	70 - 130
1,2,3-Trichloropropane	25.0	28.4		ug/L		113	70 - 130
1,2,4-Trichlorobenzene	25.0	25.1		ug/L		100	70 - 130
1,2,4-Trimethylbenzene	25.0	25.0		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	28.8		ug/L		115	70 - 130
1,2-Dichlorobenzene	25.0	25.8		ug/L		103	70 - 130
1,2-Dichloroethane	25.0	29.0		ug/L		116	70 - 130

TestAmerica Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

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

**Lab Sample ID: LCS 480-409598/5**

**Matrix: Water**

**Analysis Batch: 409598**

**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	26.8		ug/L		107	70 - 130
1,3,5-Trimethylbenzene	25.0	25.0		ug/L		100	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	25.8		ug/L		103	70 - 130
1,4-Dioxane	500	432		ug/L		86	70 - 130
2,2-Dichloropropane	25.0	27.1		ug/L		108	70 - 130
2-Butanone (MEK)	125	272	*	ug/L		218	70 - 130
2-Chlorotoluene	25.0	24.8		ug/L		99	70 - 130
2-Hexanone	125	142		ug/L		113	70 - 130
4-Chlorotoluene	25.0	25.3		ug/L		101	70 - 130
4-Isopropyltoluene	25.0	26.6		ug/L		106	70 - 130
4-Methyl-2-pentanone (MIBK)	125	134		ug/L		107	70 - 130
Acetone	125	179	*	ug/L		143	70 - 130
Benzene	25.0	27.4		ug/L		110	70 - 130
Bromobenzene	25.0	25.6		ug/L		102	70 - 130
Bromoform	25.0	26.6		ug/L		106	70 - 130
Bromomethane	25.0	30.6		ug/L		122	70 - 130
Carbon disulfide	25.0	28.3		ug/L		113	70 - 130
Carbon tetrachloride	25.0	29.4		ug/L		118	70 - 130
Chlorobenzene	25.0	25.2		ug/L		101	70 - 130
Chlorobromomethane	25.0	30.4		ug/L		122	70 - 130
Chlorodibromomethane	25.0	26.4		ug/L		106	70 - 130
Chloroethane	25.0	29.6		ug/L		118	70 - 130
Chloroform	25.0	27.4		ug/L		110	70 - 130
Chloromethane	25.0	23.5		ug/L		94	70 - 130
cis-1,2-Dichloroethene	25.0	28.4		ug/L		114	70 - 130
cis-1,3-Dichloropropene	25.0	27.3		ug/L		109	70 - 130
Dichlorobromomethane	25.0	28.5		ug/L		114	70 - 130
Dichlorodifluoromethane	25.0	26.9		ug/L		108	70 - 130
Ethyl ether	25.0	28.2		ug/L		113	70 - 130
Ethylbenzene	25.0	25.5		ug/L		102	70 - 130
Ethylene Dibromide	25.0	26.4		ug/L		106	70 - 130
Hexachlorobutadiene	25.0	27.5		ug/L		110	70 - 130
Isopropyl ether	25.0	24.9		ug/L		100	70 - 130
Isopropylbenzene	25.0	24.8		ug/L		99	70 - 130
Methyl tert-butyl ether	25.0	27.9		ug/L		112	70 - 130
Methylene Chloride	25.0	28.2		ug/L		113	70 - 130
m-Xylene & p-Xylene	25.0	25.5		ug/L		102	70 - 130
Naphthalene	25.0	26.7		ug/L		107	70 - 130
n-Butylbenzene	25.0	26.1		ug/L		104	70 - 130
N-Propylbenzene	25.0	24.9		ug/L		100	70 - 130
o-Xylene	25.0	24.8		ug/L		99	70 - 130
sec-Butylbenzene	25.0	25.6		ug/L		102	70 - 130
Styrene	25.0	25.7		ug/L		103	70 - 130
Tert-amyl methyl ether	25.0	28.6		ug/L		114	70 - 130
Tert-butyl ethyl ether	25.0	27.0		ug/L		108	70 - 130
tert-Butylbenzene	25.0	27.0		ug/L		108	70 - 130

TestAmerica Buffalo



# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

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

**Lab Sample ID: LCS 480-409598/5**

**Matrix: Water**

**Analysis Batch: 409598**

**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	30.0		ug/L		120	70 - 130	
Tetrahydrofuran	50.0	73.4	*	ug/L		147	70 - 130	
Toluene	25.0	25.2		ug/L		101	70 - 130	
trans-1,2-Dichloroethene	25.0	27.5		ug/L		110	70 - 130	
trans-1,3-Dichloropropene	25.0	25.3		ug/L		101	70 - 130	
Trichloroethene	25.0	28.9		ug/L		116	70 - 130	
Trichlorofluoromethane	25.0	30.6		ug/L		122	70 - 130	
Vinyl chloride	25.0	26.4		ug/L		105	70 - 130	
Dibromomethane	25.0	29.0		ug/L		116	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	121		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130

**Lab Sample ID: LCSD 480-409598/6**

**Matrix: Water**

**Analysis Batch: 409598**

**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	26.9		ug/L		108	70 - 130	3	20	
1,1,1-Trichloroethane	25.0	27.8		ug/L		111	70 - 130	4	20	
1,1,1,2,2-Tetrachloroethane	25.0	26.1		ug/L		104	70 - 130	4	20	
1,1,1,2-Trichloroethane	25.0	27.4		ug/L		110	70 - 130	6	20	
1,1-Dichloroethane	25.0	27.3		ug/L		109	70 - 130	3	20	
1,1-Dichloroethene	25.0	27.1		ug/L		108	70 - 130	5	20	
1,1-Dichloropropene	25.0	26.7		ug/L		107	70 - 130	5	20	
1,2,3-Trichlorobenzene	25.0	25.4		ug/L		101	70 - 130	0	20	
1,2,3-Trichloropropane	25.0	28.5		ug/L		114	70 - 130	1	20	
1,2,4-Trichlorobenzene	25.0	25.0		ug/L		100	70 - 130	0	20	
1,2,4-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 130	1	20	
1,2-Dibromo-3-Chloropropane	25.0	26.9		ug/L		108	70 - 130	7	20	
1,2-Dichlorobenzene	25.0	26.1		ug/L		104	70 - 130	1	20	
1,2-Dichloroethane	25.0	27.5		ug/L		110	70 - 130	5	20	
1,2-Dichloropropane	25.0	26.3		ug/L		105	70 - 130	2	20	
1,3,5-Trimethylbenzene	25.0	24.9		ug/L		100	70 - 130	1	20	
1,3-Dichlorobenzene	25.0	26.6		ug/L		106	70 - 130	1	20	
1,3-Dichloropropane	25.0	26.4		ug/L		106	70 - 130	2	20	
1,4-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130	1	20	
1,4-Dioxane	500	659	*	ug/L		132	70 - 130	42	20	
2,2-Dichloropropane	25.0	25.9		ug/L		104	70 - 130	4	20	
2-Butanone (MEK)	125	258	*	ug/L		206	70 - 130	5	20	
2-Chlorotoluene	25.0	24.1		ug/L		97	70 - 130	3	20	
2-Hexanone	125	141		ug/L		113	70 - 130	1	20	
4-Chlorotoluene	25.0	24.6		ug/L		98	70 - 130	3	20	
4-Isopropyltoluene	25.0	26.3		ug/L		105	70 - 130	1	20	
4-Methyl-2-pentanone (MIBK)	125	137		ug/L		109	70 - 130	2	20	
Acetone	125	165	*	ug/L		132	70 - 130	8	20	

TestAmerica Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

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

Lab Sample ID: LCSD 480-409598/6

Matrix: Water

Analysis Batch: 409598

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD	RPD	Limit
Benzene	25.0	26.5		ug/L		106	70 - 130	4	20	
Bromobenzene	25.0	25.7		ug/L		103	70 - 130	0	20	
Bromoform	25.0	25.4		ug/L		102	70 - 130	5	20	
Bromomethane	25.0	28.4		ug/L		114	70 - 130	7	20	
Carbon disulfide	25.0	26.0		ug/L		104	70 - 130	8	20	
Carbon tetrachloride	25.0	28.1		ug/L		112	70 - 130	5	20	
Chlorobenzene	25.0	25.5		ug/L		102	70 - 130	1	20	
Chlorobromomethane	25.0	29.0		ug/L		116	70 - 130	5	20	
Chlorodibromomethane	25.0	26.9		ug/L		107	70 - 130	2	20	
Chloroethane	25.0	28.7		ug/L		115	70 - 130	3	20	
Chloroform	25.0	26.2		ug/L		105	70 - 130	5	20	
Chloromethane	25.0	22.8		ug/L		91	70 - 130	3	20	
cis-1,2-Dichloroethene	25.0	26.9		ug/L		107	70 - 130	5	20	
cis-1,3-Dichloropropene	25.0	27.1		ug/L		109	70 - 130	0	20	
Dichlorobromomethane	25.0	26.7		ug/L		107	70 - 130	7	20	
Dichlorodifluoromethane	25.0	24.5		ug/L		98	70 - 130	9	20	
Ethyl ether	25.0	26.1		ug/L		104	70 - 130	8	20	
Ethylbenzene	25.0	25.4		ug/L		102	70 - 130	0	20	
Ethylene Dibromide	25.0	27.0		ug/L		108	70 - 130	2	20	
Hexachlorobutadiene	25.0	27.8		ug/L		111	70 - 130	1	20	
Isopropyl ether	25.0	24.1		ug/L		96	70 - 130	3	20	
Isopropylbenzene	25.0	24.9		ug/L		99	70 - 130	0	20	
Methyl tert-butyl ether	25.0	26.6		ug/L		106	70 - 130	5	20	
Methylene Chloride	25.0	26.3		ug/L		105	70 - 130	7	20	
m-Xylene & p-Xylene	25.0	25.9		ug/L		104	70 - 130	2	20	
Naphthalene	25.0	26.6		ug/L		106	70 - 130	0	20	
n-Butylbenzene	25.0	26.0		ug/L		104	70 - 130	0	20	
N-Propylbenzene	25.0	24.6		ug/L		98	70 - 130	1	20	
o-Xylene	25.0	25.8		ug/L		103	70 - 130	4	20	
sec-Butylbenzene	25.0	25.0		ug/L		100	70 - 130	2	20	
Styrene	25.0	26.4		ug/L		106	70 - 130	3	20	
Tert-amyl methyl ether	25.0	27.6		ug/L		110	70 - 130	4	20	
Tert-butyl ethyl ether	25.0	26.1		ug/L		104	70 - 130	3	20	
tert-Butylbenzene	25.0	26.3		ug/L		105	70 - 130	3	20	
Tetrachloroethene	25.0	30.4		ug/L		122	70 - 130	1	20	
Tetrahydrofuran	50.0	70.0 *		ug/L		140	70 - 130	5	20	
Toluene	25.0	25.3		ug/L		101	70 - 130	0	20	
trans-1,2-Dichloroethene	25.0	25.9		ug/L		104	70 - 130	6	20	
trans-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 130	2	20	
Trichloroethene	25.0	27.5		ug/L		110	70 - 130	5	20	
Trichlorofluoromethane	25.0	28.6		ug/L		114	70 - 130	7	20	
Vinyl chloride	25.0	23.4		ug/L		94	70 - 130	12	20	
Dibromomethane	25.0	28.4		ug/L		113	70 - 130	2	20	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	111		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130

TestAmerica Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Lab Sample ID: MB 480-409631/8**

**Matrix: Water**

**Analysis Batch: 409631**

**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			04/19/18 10:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 10:50	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 10:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 10:50	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 10:50	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 10:50	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 10:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 10:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 10:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 10:50	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 10:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 10:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 10:50	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 10:50	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 10:50	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 10:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/19/18 10:50	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 10:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 10:50	1
1,4-Dioxane	ND		50		ug/L			04/19/18 10:50	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 10:50	1
2-Butanone (MEK)	ND		10		ug/L			04/19/18 10:50	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 10:50	1
2-Hexanone	ND		10		ug/L			04/19/18 10:50	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 10:50	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 10:50	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 10:50	1
Acetone	ND		50		ug/L			04/19/18 10:50	1
Benzene	ND		1.0		ug/L			04/19/18 10:50	1
Bromobenzene	ND		1.0		ug/L			04/19/18 10:50	1
Bromoform	ND		1.0		ug/L			04/19/18 10:50	1
Bromomethane	ND		2.0		ug/L			04/19/18 10:50	1
Carbon disulfide	ND		10		ug/L			04/19/18 10:50	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 10:50	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 10:50	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 10:50	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 10:50	1
Chloroethane	ND		2.0		ug/L			04/19/18 10:50	1
Chloroform	ND		1.0		ug/L			04/19/18 10:50	1
Chloromethane	ND		2.0		ug/L			04/19/18 10:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 10:50	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 10:50	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 10:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 10:50	1
Ethyl ether	ND		1.0		ug/L			04/19/18 10:50	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 10:50	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 10:50	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 10:50	1
Isopropyl ether	ND		10		ug/L			04/19/18 10:50	1
Isopropylbenzene	ND		1.0		ug/L			04/19/18 10:50	1

TestAmerica Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

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

**Lab Sample ID: MB 480-409631/8**

**Matrix: Water**

**Analysis Batch: 409631**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 10:50	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 10:50	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 10:50	1
Naphthalene	ND		5.0		ug/L			04/19/18 10:50	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 10:50	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 10:50	1
o-Xylene	ND		1.0		ug/L			04/19/18 10:50	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 10:50	1
Styrene	ND		1.0		ug/L			04/19/18 10:50	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 10:50	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 10:50	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 10:50	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 10:50	1
Tetrahydrofuran	ND		10		ug/L			04/19/18 10:50	1
Toluene	ND		1.0		ug/L			04/19/18 10:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 10:50	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 10:50	1
Trichloroethene	ND		1.0		ug/L			04/19/18 10:50	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 10:50	1
Vinyl chloride	ND		1.0		ug/L			04/19/18 10:50	1
Dibromomethane	ND		1.0		ug/L			04/19/18 10:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/19/18 10:50	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/19/18 10:50	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/19/18 10:50	1

**Lab Sample ID: LCS 480-409631/5**

**Matrix: Water**

**Analysis Batch: 409631**

**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	25.1		ug/L		101	70 - 130
1,1,1-Trichloroethane	25.0	26.1		ug/L		104	70 - 130
1,1,1,2,2-Tetrachloroethane	25.0	24.1		ug/L		96	70 - 130
1,1,2-Trichloroethane	25.0	23.3		ug/L		93	70 - 130
1,1-Dichloroethane	25.0	25.2		ug/L		101	70 - 130
1,1-Dichloroethene	25.0	25.2		ug/L		101	70 - 130
1,1-Dichloropropene	25.0	25.4		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	25.0	23.5		ug/L		94	70 - 130
1,2,3-Trichloropropane	25.0	26.5		ug/L		106	70 - 130
1,2,4-Trichlorobenzene	25.0	23.0		ug/L		92	70 - 130
1,2,4-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.9		ug/L		100	70 - 130
1,2-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,2-Dichloroethane	25.0	26.1		ug/L		105	70 - 130
1,2-Dichloropropane	25.0	25.2		ug/L		101	70 - 130
1,3,5-Trimethylbenzene	25.0	23.0		ug/L		92	70 - 130

TestAmerica Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

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

**Lab Sample ID: LCS 480-409631/5**

**Matrix: Water**

**Analysis Batch: 409631**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	25.0	24.4		ug/L		97	70 - 130
1,3-Dichloropropane	25.0	23.9		ug/L		96	70 - 130
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,4-Dioxane	500	389		ug/L		78	70 - 130
2,2-Dichloropropane	25.0	25.1		ug/L		100	70 - 130
2-Butanone (MEK)	125	242	*	ug/L		194	70 - 130
2-Chlorotoluene	25.0	23.0		ug/L		92	70 - 130
2-Hexanone	125	126		ug/L		101	70 - 130
4-Chlorotoluene	25.0	23.2		ug/L		93	70 - 130
4-Isopropyltoluene	25.0	24.2		ug/L		97	70 - 130
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		98	70 - 130
Acetone	125	159		ug/L		127	70 - 130
Benzene	25.0	24.7		ug/L		99	70 - 130
Bromobenzene	25.0	23.9		ug/L		96	70 - 130
Bromoform	25.0	22.8		ug/L		91	70 - 130
Bromomethane	25.0	29.2		ug/L		117	70 - 130
Carbon disulfide	25.0	23.5		ug/L		94	70 - 130
Carbon tetrachloride	25.0	26.5		ug/L		106	70 - 130
Chlorobenzene	25.0	24.4		ug/L		97	70 - 130
Chlorobromomethane	25.0	27.4		ug/L		110	70 - 130
Chlorodibromomethane	25.0	24.9		ug/L		100	70 - 130
Chloroethane	25.0	28.2		ug/L		113	70 - 130
Chloroform	25.0	24.9		ug/L		100	70 - 130
Chloromethane	25.0	22.0		ug/L		88	70 - 130
cis-1,2-Dichloroethene	25.0	25.6		ug/L		103	70 - 130
cis-1,3-Dichloropropene	25.0	25.2		ug/L		101	70 - 130
Dichlorobromomethane	25.0	25.6		ug/L		102	70 - 130
Dichlorodifluoromethane	25.0	25.4		ug/L		102	70 - 130
Ethyl ether	25.0	25.4		ug/L		102	70 - 130
Ethylbenzene	25.0	23.6		ug/L		94	70 - 130
Ethylene Dibromide	25.0	24.5		ug/L		98	70 - 130
Hexachlorobutadiene	25.0	24.7		ug/L		99	70 - 130
Isopropyl ether	25.0	23.9		ug/L		96	70 - 130
Isopropylbenzene	25.0	22.7		ug/L		91	70 - 130
Methyl tert-butyl ether	25.0	24.9		ug/L		100	70 - 130
Methylene Chloride	25.0	23.4		ug/L		94	70 - 130
m-Xylene & p-Xylene	25.0	23.7		ug/L		95	70 - 130
Naphthalene	25.0	24.4		ug/L		98	70 - 130
n-Butylbenzene	25.0	24.0		ug/L		96	70 - 130
N-Propylbenzene	25.0	22.9		ug/L		92	70 - 130
o-Xylene	25.0	23.7		ug/L		95	70 - 130
sec-Butylbenzene	25.0	23.6		ug/L		95	70 - 130
Styrene	25.0	24.6		ug/L		98	70 - 130
Tert-amyl methyl ether	25.0	27.1		ug/L		108	70 - 130
Tert-butyl ethyl ether	25.0	25.0		ug/L		100	70 - 130
tert-Butylbenzene	25.0	23.9		ug/L		96	70 - 130
Tetrachloroethene	25.0	26.4		ug/L		106	70 - 130
Tetrahydrofuran	50.0	65.5	*	ug/L		131	70 - 130

TestAmerica Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

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

**Lab Sample ID: LCS 480-409631/5**

**Matrix: Water**

**Analysis Batch: 409631**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	25.0	23.6		ug/L		94	70 - 130
trans-1,2-Dichloroethene	25.0	24.0		ug/L		96	70 - 130
trans-1,3-Dichloropropene	25.0	23.3		ug/L		93	70 - 130
Trichloroethene	25.0	25.9		ug/L		104	70 - 130
Trichlorofluoromethane	25.0	28.4		ug/L		114	70 - 130
Vinyl chloride	25.0	23.8		ug/L		95	70 - 130
Dibromomethane	25.0	26.5		ug/L		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

**Lab Sample ID: LCSD 480-409631/6**

**Matrix: Water**

**Analysis Batch: 409631**

**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	3	20
1,1,1-Trichloroethane	25.0	26.9		ug/L		107	70 - 130	3	20
1,1,1,2,2-Tetrachloroethane	25.0	24.4		ug/L		98	70 - 130	1	20
1,1,2-Trichloroethane	25.0	23.9		ug/L		96	70 - 130	3	20
1,1-Dichloroethane	25.0	26.1		ug/L		105	70 - 130	4	20
1,1-Dichloroethene	25.0	26.9		ug/L		108	70 - 130	7	20
1,1-Dichloropropene	25.0	26.5		ug/L		106	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	23.2		ug/L		93	70 - 130	1	20
1,2,3-Trichloropropane	25.0	25.6		ug/L		102	70 - 130	3	20
1,2,4-Trichlorobenzene	25.0	24.1		ug/L		96	70 - 130	5	20
1,2,4-Trimethylbenzene	25.0	24.3		ug/L		97	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	24.8		ug/L		99	70 - 130	0	20
1,2-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	4	20
1,2-Dichloroethane	25.0	26.5		ug/L		106	70 - 130	1	20
1,2-Dichloropropane	25.0	25.4		ug/L		101	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	24.3		ug/L		97	70 - 130	6	20
1,3-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	3	20
1,3-Dichloropropane	25.0	24.7		ug/L		99	70 - 130	3	20
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	4	20
1,4-Dioxane	500	614	*	ug/L		123	70 - 130	45	20
2,2-Dichloropropane	25.0	26.2		ug/L		105	70 - 130	4	20
2-Butanone (MEK)	125	249	*	ug/L		199	70 - 130	3	20
2-Chlorotoluene	25.0	23.6		ug/L		94	70 - 130	3	20
2-Hexanone	125	130		ug/L		104	70 - 130	3	20
4-Chlorotoluene	25.0	24.1		ug/L		96	70 - 130	4	20
4-Isopropyltoluene	25.0	25.9		ug/L		104	70 - 130	7	20
4-Methyl-2-pentanone (MIBK)	125	126		ug/L		101	70 - 130	3	20
Acetone	125	166	*	ug/L		132	70 - 130	4	20
Benzene	25.0	25.3		ug/L		101	70 - 130	2	20
Bromobenzene	25.0	24.5		ug/L		98	70 - 130	2	20

TestAmerica Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

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

Lab Sample ID: LCSD 480-409631/6

Matrix: Water

Analysis Batch: 409631

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	25.0	24.6		ug/L		98	70 - 130	8	20
Bromomethane	25.0	30.8		ug/L		123	70 - 130	6	20
Carbon disulfide	25.0	24.3		ug/L		97	70 - 130	4	20
Carbon tetrachloride	25.0	27.6		ug/L		110	70 - 130	4	20
Chlorobenzene	25.0	24.9		ug/L		100	70 - 130	2	20
Chlorobromomethane	25.0	26.9		ug/L		108	70 - 130	2	20
Chlorodibromomethane	25.0	25.3		ug/L		101	70 - 130	2	20
Chloroethane	25.0	29.8		ug/L		119	70 - 130	5	20
Chloroform	25.0	25.6		ug/L		102	70 - 130	2	20
Chloromethane	25.0	22.8		ug/L		91	70 - 130	4	20
cis-1,2-Dichloroethene	25.0	26.2		ug/L		105	70 - 130	2	20
cis-1,3-Dichloropropene	25.0	26.2		ug/L		105	70 - 130	4	20
Dichlorobromomethane	25.0	26.5		ug/L		106	70 - 130	4	20
Dichlorodifluoromethane	25.0	25.9		ug/L		103	70 - 130	2	20
Ethyl ether	25.0	25.5		ug/L		102	70 - 130	1	20
Ethylbenzene	25.0	24.6		ug/L		98	70 - 130	4	20
Ethylene Dibromide	25.0	25.2		ug/L		101	70 - 130	3	20
Hexachlorobutadiene	25.0	27.3		ug/L		109	70 - 130	10	20
Isopropyl ether	25.0	24.4		ug/L		98	70 - 130	2	20
Isopropylbenzene	25.0	24.3		ug/L		97	70 - 130	7	20
Methyl tert-butyl ether	25.0	25.1		ug/L		100	70 - 130	1	20
Methylene Chloride	25.0	23.3		ug/L		93	70 - 130	0	20
m-Xylene & p-Xylene	25.0	24.3		ug/L		97	70 - 130	2	20
Naphthalene	25.0	24.9		ug/L		100	70 - 130	2	20
n-Butylbenzene	25.0	25.4		ug/L		102	70 - 130	6	20
N-Propylbenzene	25.0	24.1		ug/L		96	70 - 130	5	20
o-Xylene	25.0	24.3		ug/L		97	70 - 130	3	20
sec-Butylbenzene	25.0	24.4		ug/L		98	70 - 130	3	20
Styrene	25.0	24.6		ug/L		99	70 - 130	0	20
Tert-amyl methyl ether	25.0	27.1		ug/L		108	70 - 130	0	20
Tert-butyl ethyl ether	25.0	25.9		ug/L		104	70 - 130	3	20
tert-Butylbenzene	25.0	25.1		ug/L		100	70 - 130	5	20
Tetrachloroethene	25.0	28.2		ug/L		113	70 - 130	7	20
Tetrahydrofuran	50.0	68.4 *		ug/L		137	70 - 130	4	20
Toluene	25.0	24.6		ug/L		98	70 - 130	4	20
trans-1,2-Dichloroethene	25.0	26.0		ug/L		104	70 - 130	8	20
trans-1,3-Dichloropropene	25.0	24.2		ug/L		97	70 - 130	3	20
Trichloroethene	25.0	26.3		ug/L		105	70 - 130	1	20
Trichlorofluoromethane	25.0	30.0		ug/L		120	70 - 130	6	20
Vinyl chloride	25.0	25.3		ug/L		101	70 - 130	6	20
Dibromomethane	25.0	26.9		ug/L		108	70 - 130	2	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	111		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

TestAmerica Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

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

**Lab Sample ID: MB 480-409831/8**

**Matrix: Water**

**Analysis Batch: 409831**

**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			04/19/18 23:03	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 23:03	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 23:03	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 23:03	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 23:03	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 23:03	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 23:03	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 23:03	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 23:03	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 23:03	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 23:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 23:03	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 23:03	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 23:03	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 23:03	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 23:03	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/19/18 23:03	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 23:03	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 23:03	1
1,4-Dioxane	ND		50		ug/L			04/19/18 23:03	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 23:03	1
2-Butanone (MEK)	ND		10		ug/L			04/19/18 23:03	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 23:03	1
2-Hexanone	ND		10		ug/L			04/19/18 23:03	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 23:03	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 23:03	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 23:03	1
Acetone	ND		50		ug/L			04/19/18 23:03	1
Benzene	ND		1.0		ug/L			04/19/18 23:03	1
Bromobenzene	ND		1.0		ug/L			04/19/18 23:03	1
Bromoform	ND		1.0		ug/L			04/19/18 23:03	1
Bromomethane	ND		2.0		ug/L			04/19/18 23:03	1
Carbon disulfide	ND		10		ug/L			04/19/18 23:03	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 23:03	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 23:03	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 23:03	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 23:03	1
Chloroethane	ND		2.0		ug/L			04/19/18 23:03	1
Chloroform	ND		1.0		ug/L			04/19/18 23:03	1
Chloromethane	ND		2.0		ug/L			04/19/18 23:03	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 23:03	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 23:03	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 23:03	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 23:03	1
Ethyl ether	ND		1.0		ug/L			04/19/18 23:03	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 23:03	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 23:03	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 23:03	1

TestAmerica Buffalo



# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

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

**Lab Sample ID: MB 480-409831/8**

**Matrix: Water**

**Analysis Batch: 409831**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Isopropyl ether	ND		10		ug/L			04/19/18 23:03	1
Isopropylbenzene	ND		1.0		ug/L			04/19/18 23:03	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 23:03	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 23:03	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 23:03	1
Naphthalene	ND		5.0		ug/L			04/19/18 23:03	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 23:03	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 23:03	1
o-Xylene	ND		1.0		ug/L			04/19/18 23:03	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 23:03	1
Styrene	ND		1.0		ug/L			04/19/18 23:03	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 23:03	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 23:03	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 23:03	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 23:03	1
Tetrahydrofuran	ND		10		ug/L			04/19/18 23:03	1
Toluene	ND		1.0		ug/L			04/19/18 23:03	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 23:03	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 23:03	1
Trichloroethene	ND		1.0		ug/L			04/19/18 23:03	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 23:03	1
Vinyl chloride	ND		1.0		ug/L			04/19/18 23:03	1
Dibromomethane	ND		1.0		ug/L			04/19/18 23:03	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	96		70 - 130		04/19/18 23:03	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		04/19/18 23:03	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/19/18 23:03	1

**Lab Sample ID: LCS 480-409831/5**

**Matrix: Water**

**Analysis Batch: 409831**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	25.0	27.4		ug/L		110	70 - 130
1,1,1,1-Trichloroethane	25.0	28.5		ug/L		114	70 - 130
1,1,1,2-Tetrachloroethane	25.0	26.8		ug/L		107	70 - 130
1,1,2-Trichloroethane	25.0	26.0		ug/L		104	70 - 130
1,1-Dichloroethane	25.0	27.9		ug/L		112	70 - 130
1,1-Dichloroethane	25.0	29.0		ug/L		116	70 - 130
1,1-Dichloropropene	25.0	27.3		ug/L		109	70 - 130
1,2,3-Trichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,2,3-Trichloropropane	25.0	28.8		ug/L		115	70 - 130
1,2,4-Trichlorobenzene	25.0	25.6		ug/L		102	70 - 130
1,2,4-Trimethylbenzene	25.0	24.9		ug/L		99	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	27.7		ug/L		111	70 - 130
1,2-Dichlorobenzene	25.0	26.1		ug/L		104	70 - 130
1,2-Dichloroethane	25.0	28.4		ug/L		113	70 - 130

TestAmerica Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

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

**Lab Sample ID: LCS 480-409831/5**

**Matrix: Water**

**Analysis Batch: 409831**

**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	28.1		ug/L		112	70 - 130
1,3,5-Trimethylbenzene	25.0	25.2		ug/L		101	70 - 130
1,3-Dichlorobenzene	25.0	26.5		ug/L		106	70 - 130
1,3-Dichloropropane	25.0	25.6		ug/L		103	70 - 130
1,4-Dichlorobenzene	25.0	25.6		ug/L		103	70 - 130
1,4-Dioxane	500	568		ug/L		114	70 - 130
2,2-Dichloropropane	25.0	26.8		ug/L		107	70 - 130
2-Butanone (MEK)	125	269	*	ug/L		215	70 - 130
2-Chlorotoluene	25.0	24.6		ug/L		98	70 - 130
2-Hexanone	125	144		ug/L		115	70 - 130
4-Chlorotoluene	25.0	24.8		ug/L		99	70 - 130
4-Isopropyltoluene	25.0	26.2		ug/L		105	70 - 130
4-Methyl-2-pentanone (MIBK)	125	140		ug/L		112	70 - 130
Acetone	125	179	*	ug/L		143	70 - 130
Benzene	25.0	27.2		ug/L		109	70 - 130
Bromobenzene	25.0	25.1		ug/L		100	70 - 130
Bromoform	25.0	25.3		ug/L		101	70 - 130
Bromomethane	25.0	31.3		ug/L		125	70 - 130
Carbon disulfide	25.0	26.9		ug/L		107	70 - 130
Carbon tetrachloride	25.0	29.0		ug/L		116	70 - 130
Chlorobenzene	25.0	25.7		ug/L		103	70 - 130
Chlorobromomethane	25.0	29.9		ug/L		120	70 - 130
Chlorodibromomethane	25.0	26.4		ug/L		106	70 - 130
Chloroethane	25.0	30.9		ug/L		123	70 - 130
Chloroform	25.0	27.6		ug/L		110	70 - 130
Chloromethane	25.0	23.3		ug/L		93	70 - 130
cis-1,2-Dichloroethene	25.0	28.2		ug/L		113	70 - 130
cis-1,3-Dichloropropene	25.0	27.8		ug/L		111	70 - 130
Dichlorobromomethane	25.0	28.2		ug/L		113	70 - 130
Dichlorodifluoromethane	25.0	26.5		ug/L		106	70 - 130
Ethyl ether	25.0	27.7		ug/L		111	70 - 130
Ethylbenzene	25.0	25.6		ug/L		103	70 - 130
Ethylene Dibromide	25.0	27.3		ug/L		109	70 - 130
Hexachlorobutadiene	25.0	28.1		ug/L		113	70 - 130
Isopropyl ether	25.0	23.7		ug/L		95	70 - 130
Isopropylbenzene	25.0	25.1		ug/L		100	70 - 130
Methyl tert-butyl ether	25.0	27.6		ug/L		111	70 - 130
Methylene Chloride	25.0	26.0		ug/L		104	70 - 130
m-Xylene & p-Xylene	25.0	25.4		ug/L		102	70 - 130
Naphthalene	25.0	26.7		ug/L		107	70 - 130
n-Butylbenzene	25.0	26.2		ug/L		105	70 - 130
N-Propylbenzene	25.0	25.0		ug/L		100	70 - 130
o-Xylene	25.0	25.0		ug/L		100	70 - 130
sec-Butylbenzene	25.0	25.0		ug/L		100	70 - 130
Styrene	25.0	25.8		ug/L		103	70 - 130
Tert-amyl methyl ether	25.0	27.7		ug/L		111	70 - 130
Tert-butyl ethyl ether	25.0	25.3		ug/L		101	70 - 130
tert-Butylbenzene	25.0	26.2		ug/L		105	70 - 130

TestAmerica Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

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

**Lab Sample ID: LCS 480-409831/5**

**Matrix: Water**

**Analysis Batch: 409831**

**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	29.8		ug/L		119	70 - 130
Tetrahydrofuran	50.0	71.6	*	ug/L		143	70 - 130
Toluene	25.0	25.4		ug/L		102	70 - 130
trans-1,2-Dichloroethene	25.0	26.3		ug/L		105	70 - 130
trans-1,3-Dichloropropene	25.0	25.3		ug/L		101	70 - 130
Trichloroethene	25.0	28.2		ug/L		113	70 - 130
Trichlorofluoromethane	25.0	30.9		ug/L		124	70 - 130
Vinyl chloride	25.0	26.2		ug/L		105	70 - 130
Dibromomethane	25.0	29.6		ug/L		119	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	119		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130

**Lab Sample ID: LCSD 480-409831/6**

**Matrix: Water**

**Analysis Batch: 409831**

**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	29.0		ug/L		116	70 - 130	5	20
1,1,1-Trichloroethane	25.0	28.2		ug/L		113	70 - 130	1	20
1,1,1,2,2-Tetrachloroethane	25.0	26.0		ug/L		104	70 - 130	3	20
1,1,1,2-Trichloroethane	25.0	26.9		ug/L		108	70 - 130	4	20
1,1-Dichloroethane	25.0	27.5		ug/L		110	70 - 130	2	20
1,1-Dichloroethene	25.0	26.6		ug/L		106	70 - 130	9	20
1,1-Dichloropropene	25.0	27.3		ug/L		109	70 - 130	0	20
1,2,3-Trichlorobenzene	25.0	25.5		ug/L		102	70 - 130	2	20
1,2,3-Trichloropropane	25.0	28.7		ug/L		115	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	25.5		ug/L		102	70 - 130	0	20
1,2,4-Trimethylbenzene	25.0	25.4		ug/L		102	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	27.9		ug/L		112	70 - 130	1	20
1,2-Dichlorobenzene	25.0	26.5		ug/L		106	70 - 130	2	20
1,2-Dichloroethane	25.0	28.6		ug/L		114	70 - 130	1	20
1,2-Dichloropropane	25.0	27.3		ug/L		109	70 - 130	3	20
1,3,5-Trimethylbenzene	25.0	25.4		ug/L		102	70 - 130	1	20
1,3-Dichlorobenzene	25.0	26.7		ug/L		107	70 - 130	1	20
1,3-Dichloropropane	25.0	27.1		ug/L		108	70 - 130	5	20
1,4-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130	2	20
1,4-Dioxane	500	667	*	ug/L		133	70 - 130	16	20
2,2-Dichloropropane	25.0	26.9		ug/L		108	70 - 130	0	20
2-Butanone (MEK)	125	260	*	ug/L		208	70 - 130	4	20
2-Chlorotoluene	25.0	24.4		ug/L		98	70 - 130	0	20
2-Hexanone	125	149		ug/L		119	70 - 130	3	20
4-Chlorotoluene	25.0	25.0		ug/L		100	70 - 130	1	20
4-Isopropyltoluene	25.0	26.4		ug/L		105	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	142		ug/L		114	70 - 130	2	20
Acetone	125	176	*	ug/L		141	70 - 130	2	20

TestAmerica Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

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

Lab Sample ID: LCSD 480-409831/6

Matrix: Water

Analysis Batch: 409831

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Benzene	25.0	26.5		ug/L		106	70 - 130	2	20	
Bromobenzene	25.0	26.0		ug/L		104	70 - 130	4	20	
Bromoform	25.0	27.3		ug/L		109	70 - 130	7	20	
Bromomethane	25.0	31.1		ug/L		124	70 - 130	1	20	
Carbon disulfide	25.0	26.7		ug/L		107	70 - 130	1	20	
Carbon tetrachloride	25.0	30.0		ug/L		120	70 - 130	3	20	
Chlorobenzene	25.0	26.7		ug/L		107	70 - 130	4	20	
Chlorobromomethane	25.0	29.6		ug/L		119	70 - 130	1	20	
Chlorodibromomethane	25.0	27.6		ug/L		111	70 - 130	5	20	
Chloroethane	25.0	30.0		ug/L		120	70 - 130	3	20	
Chloroform	25.0	27.1		ug/L		108	70 - 130	2	20	
Chloromethane	25.0	23.7		ug/L		95	70 - 130	1	20	
cis-1,2-Dichloroethene	25.0	28.5		ug/L		114	70 - 130	1	20	
cis-1,3-Dichloropropene	25.0	27.7		ug/L		111	70 - 130	0	20	
Dichlorobromomethane	25.0	28.2		ug/L		113	70 - 130	0	20	
Dichlorodifluoromethane	25.0	25.8		ug/L		103	70 - 130	3	20	
Ethyl ether	25.0	27.2		ug/L		109	70 - 130	2	20	
Ethylbenzene	25.0	26.4		ug/L		106	70 - 130	3	20	
Ethylene Dibromide	25.0	27.2		ug/L		109	70 - 130	0	20	
Hexachlorobutadiene	25.0	28.0		ug/L		112	70 - 130	0	20	
Isopropyl ether	25.0	23.7		ug/L		95	70 - 130	0	20	
Isopropylbenzene	25.0	24.9		ug/L		100	70 - 130	0	20	
Methyl tert-butyl ether	25.0	27.1		ug/L		109	70 - 130	2	20	
Methylene Chloride	25.0	25.2		ug/L		101	70 - 130	3	20	
m-Xylene & p-Xylene	25.0	26.2		ug/L		105	70 - 130	3	20	
Naphthalene	25.0	26.4		ug/L		106	70 - 130	1	20	
n-Butylbenzene	25.0	26.1		ug/L		105	70 - 130	0	20	
N-Propylbenzene	25.0	24.9		ug/L		99	70 - 130	1	20	
o-Xylene	25.0	26.8		ug/L		107	70 - 130	7	20	
sec-Butylbenzene	25.0	25.5		ug/L		102	70 - 130	2	20	
Styrene	25.0	27.2		ug/L		109	70 - 130	5	20	
Tert-amyl methyl ether	25.0	26.7		ug/L		107	70 - 130	4	20	
Tert-butyl ethyl ether	25.0	25.5		ug/L		102	70 - 130	1	20	
tert-Butylbenzene	25.0	26.4		ug/L		106	70 - 130	1	20	
Tetrachloroethene	25.0	31.4		ug/L		126	70 - 130	5	20	
Tetrahydrofuran	50.0	67.7	*	ug/L		135	70 - 130	6	20	
Toluene	25.0	26.4		ug/L		106	70 - 130	4	20	
trans-1,2-Dichloroethene	25.0	26.5		ug/L		106	70 - 130	0	20	
trans-1,3-Dichloropropene	25.0	26.8		ug/L		107	70 - 130	6	20	
Trichloroethene	25.0	28.0		ug/L		112	70 - 130	1	20	
Trichlorofluoromethane	25.0	30.0		ug/L		120	70 - 130	3	20	
Vinyl chloride	25.0	24.8		ug/L		99	70 - 130	5	20	
Dibromomethane	25.0	28.8		ug/L		115	70 - 130	3	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	110		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

TestAmerica Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Lab Sample ID: MB 480-409865/8**

**Matrix: Water**

**Analysis Batch: 409865**

**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			04/20/18 10:43	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/20/18 10:43	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/20/18 10:43	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/20/18 10:43	1
1,1-Dichloroethane	ND		1.0		ug/L			04/20/18 10:43	1
1,1-Dichloroethene	ND		1.0		ug/L			04/20/18 10:43	1
1,1-Dichloropropene	ND		1.0		ug/L			04/20/18 10:43	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/20/18 10:43	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/20/18 10:43	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/20/18 10:43	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/20/18 10:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/20/18 10:43	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/20/18 10:43	1
1,2-Dichloroethane	ND		1.0		ug/L			04/20/18 10:43	1
1,2-Dichloropropane	ND		1.0		ug/L			04/20/18 10:43	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/20/18 10:43	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/20/18 10:43	1
1,3-Dichloropropane	ND		1.0		ug/L			04/20/18 10:43	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/20/18 10:43	1
1,4-Dioxane	ND		50		ug/L			04/20/18 10:43	1
2,2-Dichloropropane	ND		1.0		ug/L			04/20/18 10:43	1
2-Butanone (MEK)	ND		10		ug/L			04/20/18 10:43	1
2-Chlorotoluene	ND		1.0		ug/L			04/20/18 10:43	1
2-Hexanone	ND		10		ug/L			04/20/18 10:43	1
4-Chlorotoluene	ND		1.0		ug/L			04/20/18 10:43	1
4-Isopropyltoluene	ND		1.0		ug/L			04/20/18 10:43	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/20/18 10:43	1
Acetone	ND		50		ug/L			04/20/18 10:43	1
Benzene	ND		1.0		ug/L			04/20/18 10:43	1
Bromobenzene	ND		1.0		ug/L			04/20/18 10:43	1
Bromoform	ND		1.0		ug/L			04/20/18 10:43	1
Bromomethane	ND		2.0		ug/L			04/20/18 10:43	1
Carbon disulfide	ND		10		ug/L			04/20/18 10:43	1
Carbon tetrachloride	ND		1.0		ug/L			04/20/18 10:43	1
Chlorobenzene	ND		1.0		ug/L			04/20/18 10:43	1
Chlorobromomethane	ND		1.0		ug/L			04/20/18 10:43	1
Chlorodibromomethane	ND		0.50		ug/L			04/20/18 10:43	1
Chloroethane	ND		2.0		ug/L			04/20/18 10:43	1
Chloroform	ND		1.0		ug/L			04/20/18 10:43	1
Chloromethane	ND		2.0		ug/L			04/20/18 10:43	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 10:43	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 10:43	1
Dichlorobromomethane	ND		0.50		ug/L			04/20/18 10:43	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/20/18 10:43	1
Ethyl ether	ND		1.0		ug/L			04/20/18 10:43	1
Ethylbenzene	ND		1.0		ug/L			04/20/18 10:43	1
Ethylene Dibromide	ND		1.0		ug/L			04/20/18 10:43	1
Hexachlorobutadiene	ND		0.40		ug/L			04/20/18 10:43	1
Isopropyl ether	ND		10		ug/L			04/20/18 10:43	1
Isopropylbenzene	ND		1.0		ug/L			04/20/18 10:43	1

TestAmerica Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

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

**Lab Sample ID: MB 480-409865/8**

**Matrix: Water**

**Analysis Batch: 409865**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			04/20/18 10:43	1
Methylene Chloride	ND		1.0		ug/L			04/20/18 10:43	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/20/18 10:43	1
Naphthalene	ND		5.0		ug/L			04/20/18 10:43	1
n-Butylbenzene	ND		1.0		ug/L			04/20/18 10:43	1
N-Propylbenzene	ND		1.0		ug/L			04/20/18 10:43	1
o-Xylene	ND		1.0		ug/L			04/20/18 10:43	1
sec-Butylbenzene	ND		1.0		ug/L			04/20/18 10:43	1
Styrene	ND		1.0		ug/L			04/20/18 10:43	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/20/18 10:43	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/20/18 10:43	1
tert-Butylbenzene	ND		1.0		ug/L			04/20/18 10:43	1
Tetrachloroethene	ND		1.0		ug/L			04/20/18 10:43	1
Tetrahydrofuran	ND		10		ug/L			04/20/18 10:43	1
Toluene	ND		1.0		ug/L			04/20/18 10:43	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/20/18 10:43	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/20/18 10:43	1
Trichloroethene	ND		1.0		ug/L			04/20/18 10:43	1
Trichlorofluoromethane	ND		1.0		ug/L			04/20/18 10:43	1
Vinyl chloride	ND		1.0		ug/L			04/20/18 10:43	1
Dibromomethane	ND		1.0		ug/L			04/20/18 10:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/20/18 10:43	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		04/20/18 10:43	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/20/18 10:43	1

**Lab Sample ID: LCS 480-409865/5**

**Matrix: Water**

**Analysis Batch: 409865**

**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	25.4		ug/L		101	70 - 130
1,1,1,1-Trichloroethane	25.0	25.4		ug/L		102	70 - 130
1,1,1,2-Tetrachloroethane	25.0	23.6		ug/L		94	70 - 130
1,1,2-Trichloroethane	25.0	23.1		ug/L		92	70 - 130
1,1-Dichloroethane	25.0	24.6		ug/L		98	70 - 130
1,1-Dichloroethane	25.0	23.8		ug/L		95	70 - 130
1,1-Dichloropropene	25.0	24.6		ug/L		98	70 - 130
1,2,3-Trichlorobenzene	25.0	22.9		ug/L		92	70 - 130
1,2,3-Trichloropropane	25.0	24.2		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	25.0	22.8		ug/L		91	70 - 130
1,2,4-Trimethylbenzene	25.0	23.3		ug/L		93	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	22.6		ug/L		90	70 - 130
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,2-Dichloroethane	25.0	25.3		ug/L		101	70 - 130
1,2-Dichloropropane	25.0	25.0		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	25.0	22.4		ug/L		89	70 - 130

TestAmerica Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

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

**Lab Sample ID: LCS 480-409865/5**

**Matrix: Water**

**Analysis Batch: 409865**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,3-Dichloropropane	25.0	23.6		ug/L		94	70 - 130
1,4-Dichlorobenzene	25.0	23.8		ug/L		95	70 - 130
1,4-Dioxane	500	318	*	ug/L		64	70 - 130
2,2-Dichloropropane	25.0	24.3		ug/L		97	70 - 130
2-Butanone (MEK)	125	226	*	ug/L		180	70 - 130
2-Chlorotoluene	25.0	22.1		ug/L		88	70 - 130
2-Hexanone	125	125		ug/L		100	70 - 130
4-Chlorotoluene	25.0	22.5		ug/L		90	70 - 130
4-Isopropyltoluene	25.0	23.8		ug/L		95	70 - 130
4-Methyl-2-pentanone (MIBK)	125	120		ug/L		96	70 - 130
Acetone	125	160		ug/L		128	70 - 130
Benzene	25.0	24.4		ug/L		98	70 - 130
Bromobenzene	25.0	23.2		ug/L		93	70 - 130
Bromoform	25.0	22.4		ug/L		90	70 - 130
Bromomethane	25.0	29.6		ug/L		118	70 - 130
Carbon disulfide	25.0	22.4		ug/L		90	70 - 130
Carbon tetrachloride	25.0	26.2		ug/L		105	70 - 130
Chlorobenzene	25.0	23.6		ug/L		95	70 - 130
Chlorobromomethane	25.0	26.5		ug/L		106	70 - 130
Chlorodibromomethane	25.0	23.9		ug/L		95	70 - 130
Chloroethane	25.0	28.3		ug/L		113	70 - 130
Chloroform	25.0	24.1		ug/L		96	70 - 130
Chloromethane	25.0	21.1		ug/L		84	70 - 130
cis-1,2-Dichloroethene	25.0	24.5		ug/L		98	70 - 130
cis-1,3-Dichloropropene	25.0	24.2		ug/L		97	70 - 130
Dichlorobromomethane	25.0	24.8		ug/L		99	70 - 130
Dichlorodifluoromethane	25.0	23.3		ug/L		93	70 - 130
Ethyl ether	25.0	24.8		ug/L		99	70 - 130
Ethylbenzene	25.0	23.6		ug/L		94	70 - 130
Ethylene Dibromide	25.0	24.6		ug/L		98	70 - 130
Hexachlorobutadiene	25.0	25.0		ug/L		100	70 - 130
Isopropyl ether	25.0	21.5		ug/L		86	70 - 130
Isopropylbenzene	25.0	22.8		ug/L		91	70 - 130
Methyl tert-butyl ether	25.0	23.9		ug/L		96	70 - 130
Methylene Chloride	25.0	22.0		ug/L		88	70 - 130
m-Xylene & p-Xylene	25.0	23.8		ug/L		95	70 - 130
Naphthalene	25.0	23.8		ug/L		95	70 - 130
n-Butylbenzene	25.0	23.4		ug/L		94	70 - 130
N-Propylbenzene	25.0	22.4		ug/L		90	70 - 130
o-Xylene	25.0	23.6		ug/L		94	70 - 130
sec-Butylbenzene	25.0	23.2		ug/L		93	70 - 130
Styrene	25.0	24.6		ug/L		98	70 - 130
Tert-amyl methyl ether	25.0	23.8		ug/L		95	70 - 130
Tert-butyl ethyl ether	25.0	22.9		ug/L		92	70 - 130
tert-Butylbenzene	25.0	24.8		ug/L		99	70 - 130
Tetrachloroethene	25.0	26.3		ug/L		105	70 - 130
Tetrahydrofuran	50.0	62.0		ug/L		124	70 - 130

TestAmerica Buffalo

# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

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

**Lab Sample ID: LCS 480-409865/5**

**Matrix: Water**

**Analysis Batch: 409865**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	25.0	23.4		ug/L		93	70 - 130
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	70 - 130
trans-1,3-Dichloropropene	25.0	22.7		ug/L		91	70 - 130
Trichloroethene	25.0	24.8		ug/L		99	70 - 130
Trichlorofluoromethane	25.0	28.6		ug/L		114	70 - 130
Vinyl chloride	25.0	23.7		ug/L		95	70 - 130
Dibromomethane	25.0	25.6		ug/L		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130

**Lab Sample ID: LCSD 480-409865/6**

**Matrix: Water**

**Analysis Batch: 409865**

**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	26.4		ug/L		106	70 - 130	4	20
1,1,1-Trichloroethane	25.0	26.7		ug/L		107	70 - 130	5	20
1,1,1,2,2-Tetrachloroethane	25.0	24.6		ug/L		98	70 - 130	4	20
1,1,2-Trichloroethane	25.0	24.5		ug/L		98	70 - 130	6	20
1,1-Dichloroethane	25.0	25.9		ug/L		104	70 - 130	5	20
1,1-Dichloroethene	25.0	24.9		ug/L		99	70 - 130	4	20
1,1-Dichloropropene	25.0	26.0		ug/L		104	70 - 130	6	20
1,2,3-Trichlorobenzene	25.0	24.4		ug/L		98	70 - 130	6	20
1,2,3-Trichloropropane	25.0	25.9		ug/L		104	70 - 130	7	20
1,2,4-Trichlorobenzene	25.0	24.4		ug/L		98	70 - 130	7	20
1,2,4-Trimethylbenzene	25.0	25.0		ug/L		100	70 - 130	7	20
1,2-Dibromo-3-Chloropropane	25.0	24.6		ug/L		98	70 - 130	9	20
1,2-Dichlorobenzene	25.0	25.1		ug/L		100	70 - 130	2	20
1,2-Dichloroethane	25.0	26.8		ug/L		107	70 - 130	6	20
1,2-Dichloropropane	25.0	25.7		ug/L		103	70 - 130	3	20
1,3,5-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130	9	20
1,3-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130	7	20
1,3-Dichloropropane	25.0	24.9		ug/L		99	70 - 130	5	20
1,4-Dichlorobenzene	25.0	25.0		ug/L		100	70 - 130	5	20
1,4-Dioxane	500	573	*	ug/L		115	70 - 130	57	20
2,2-Dichloropropane	25.0	26.1		ug/L		104	70 - 130	7	20
2-Butanone (MEK)	125	238	*	ug/L		190	70 - 130	5	20
2-Chlorotoluene	25.0	23.7		ug/L		95	70 - 130	7	20
2-Hexanone	125	127		ug/L		102	70 - 130	2	20
4-Chlorotoluene	25.0	24.0		ug/L		96	70 - 130	6	20
4-Isopropyltoluene	25.0	26.0		ug/L		104	70 - 130	9	20
4-Methyl-2-pentanone (MIBK)	125	124		ug/L		99	70 - 130	3	20
Acetone	125	162		ug/L		130	70 - 130	2	20
Benzene	25.0	25.4		ug/L		102	70 - 130	4	20
Bromobenzene	25.0	25.1		ug/L		100	70 - 130	8	20

TestAmerica Buffalo



# QC Sample Results

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

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

**Lab Sample ID: LCSD 480-409865/6**

**Matrix: Water**

**Analysis Batch: 409865**

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

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Bromoform	25.0	23.2		ug/L		93	70 - 130	3	20
Bromomethane	25.0	31.7		ug/L		127	70 - 130	7	20
Carbon disulfide	25.0	23.6		ug/L		94	70 - 130	5	20
Carbon tetrachloride	25.0	27.6		ug/L		110	70 - 130	5	20
Chlorobenzene	25.0	24.9		ug/L		100	70 - 130	5	20
Chlorobromomethane	25.0	25.7		ug/L		103	70 - 130	3	20
Chlorodibromomethane	25.0	25.8		ug/L		103	70 - 130	8	20
Chloroethane	25.0	30.3		ug/L		121	70 - 130	7	20
Chloroform	25.0	25.0		ug/L		100	70 - 130	4	20
Chloromethane	25.0	23.8		ug/L		95	70 - 130	12	20
cis-1,2-Dichloroethene	25.0	26.5		ug/L		106	70 - 130	8	20
cis-1,3-Dichloropropene	25.0	24.4		ug/L		98	70 - 130	1	20
Dichlorobromomethane	25.0	25.6		ug/L		102	70 - 130	3	20
Dichlorodifluoromethane	25.0	26.5		ug/L		106	70 - 130	13	20
Ethyl ether	25.0	25.3		ug/L		101	70 - 130	2	20
Ethylbenzene	25.0	24.9		ug/L		100	70 - 130	6	20
Ethylene Dibromide	25.0	25.2		ug/L		101	70 - 130	3	20
Hexachlorobutadiene	25.0	27.7		ug/L		111	70 - 130	10	20
Isopropyl ether	25.0	22.0		ug/L		88	70 - 130	2	20
Isopropylbenzene	25.0	24.4		ug/L		97	70 - 130	7	20
Methyl tert-butyl ether	25.0	24.5		ug/L		98	70 - 130	3	20
Methylene Chloride	25.0	23.1		ug/L		92	70 - 130	5	20
m-Xylene & p-Xylene	25.0	24.6		ug/L		98	70 - 130	3	20
Naphthalene	25.0	24.8		ug/L		99	70 - 130	4	20
n-Butylbenzene	25.0	26.0		ug/L		104	70 - 130	10	20
N-Propylbenzene	25.0	24.5		ug/L		98	70 - 130	9	20
o-Xylene	25.0	24.6		ug/L		98	70 - 130	4	20
sec-Butylbenzene	25.0	25.5		ug/L		102	70 - 130	9	20
Styrene	25.0	25.1		ug/L		100	70 - 130	2	20
Tert-amyl methyl ether	25.0	24.8		ug/L		99	70 - 130	4	20
Tert-butyl ethyl ether	25.0	23.9		ug/L		95	70 - 130	4	20
tert-Butylbenzene	25.0	26.1		ug/L		104	70 - 130	5	20
Tetrachloroethene	25.0	27.9		ug/L		111	70 - 130	6	20
Tetrahydrofuran	50.0	62.6		ug/L		125	70 - 130	1	20
Toluene	25.0	24.8		ug/L		99	70 - 130	6	20
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	70 - 130	5	20
trans-1,3-Dichloropropene	25.0	24.3		ug/L		97	70 - 130	7	20
Trichloroethene	25.0	25.8		ug/L		103	70 - 130	4	20
Trichlorofluoromethane	25.0	30.7		ug/L		123	70 - 130	7	20
Vinyl chloride	25.0	24.8		ug/L		99	70 - 130	5	20
Dibromomethane	25.0	26.3		ug/L		105	70 - 130	3	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	111		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

TestAmerica Buffalo

# QC Association Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

## GC/MS VOA

### Analysis Batch: 409598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-134267-1	MW-1020-20180411-01	Total/NA	Water	8260C	
480-134267-2	MW-1013-20180411-01	Total/NA	Water	8260C	
480-134267-3	MW-1009-20180411-01	Total/NA	Water	8260C	
480-134267-4	MW-1008-20180411-01	Total/NA	Water	8260C	
MB 480-409598/8	Method Blank	Total/NA	Water	8260C	
LCS 480-409598/5	Lab Control Sample	Total/NA	Water	8260C	
LCS 480-409598/6	Lab Control Sample Dup	Total/NA	Water	8260C	

### Analysis Batch: 409631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-134267-5	MW-1005-20180411-01	Total/NA	Water	8260C	
480-134267-6	MW-1004-20180411-01	Total/NA	Water	8260C	
480-134267-7	MW-1003-20180411-01	Total/NA	Water	8260C	
480-134267-8	MW-1006-20180411-01	Total/NA	Water	8260C	
480-134267-10	MW-1017D-20180411-01	Total/NA	Water	8260C	
480-134267-11	MW-1016D-20180411-01	Total/NA	Water	8260C	
480-134267-12	MW-1032-20180411-01	Total/NA	Water	8260C	
480-134267-13	MW-1026D-20180411-01	Total/NA	Water	8260C	
480-134267-14	MW-1022-20180411-01	Total/NA	Water	8260C	
480-134267-15	MW-1030-20180411-01	Total/NA	Water	8260C	
480-134267-16	MW-1031-20180411-01	Total/NA	Water	8260C	
480-134267-17	MW-1023-20180411-01	Total/NA	Water	8260C	
MB 480-409631/8	Method Blank	Total/NA	Water	8260C	
LCS 480-409631/5	Lab Control Sample	Total/NA	Water	8260C	
LCS 480-409631/6	Lab Control Sample Dup	Total/NA	Water	8260C	

### Analysis Batch: 409831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-134267-9	DUP-001-20180411-01	Total/NA	Water	8260C	
480-134267-18	MW-1024D-20180411-01	Total/NA	Water	8260C	
480-134267-19	MW-1025M-20180411-01	Total/NA	Water	8260C	
480-134267-21	MW-1025D-20180411-01	Total/NA	Water	8260C	
480-134267-22	MW-1014-20180411-01	Total/NA	Water	8260C	
480-134267-23	MW-1015D-20180411-01	Total/NA	Water	8260C	
480-134267-24	MW-1027-20180411-01	Total/NA	Water	8260C	
480-134267-25	MW-1028-20180411-01	Total/NA	Water	8260C	
480-134267-26	MW-1034-20180411-01	Total/NA	Water	8260C	
480-134267-27	MW-1033-20180411-01	Total/NA	Water	8260C	
480-134267-28	MW-1018-20180411-01	Total/NA	Water	8260C	
480-134267-29	MW-1035-20180411-01	Total/NA	Water	8260C	
480-134267-30 - DL	MW-1037-20180411-01	Total/NA	Water	8260C	
480-134267-31	MW-1036-20180411-01	Total/NA	Water	8260C	
480-134267-35 - DL	MW-1038-20180411-01	Total/NA	Water	8260C	
MB 480-409831/8	Method Blank	Total/NA	Water	8260C	
LCS 480-409831/5	Lab Control Sample	Total/NA	Water	8260C	
LCS 480-409831/6	Lab Control Sample Dup	Total/NA	Water	8260C	

### Analysis Batch: 409865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-134267-20	DUP-003-20180411-01	Total/NA	Water	8260C	
480-134267-30	MW-1037-20180411-01	Total/NA	Water	8260C	

TestAmerica Buffalo

# QC Association Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

## GC/MS VOA (Continued)

### Analysis Batch: 409865 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-134267-32	DUP-002-20180411-01	Total/NA	Water	8260C	
480-134267-33	DUP-004-20180411-01	Total/NA	Water	8260C	
480-134267-34	DUP-005-20180411-01	Total/NA	Water	8260C	
480-134267-35	MW-1038-20180411-01	Total/NA	Water	8260C	
480-134267-36	MW-1011-20180411-01	Total/NA	Water	8260C	
480-134267-37	MW-1039-20180411-01	Total/NA	Water	8260C	
480-134267-38	PDB-001-20180411-01	Total/NA	Water	8260C	
480-134267-39	TB-001-20180411-01	Total/NA	Water	8260C	
480-134267-40	MW-1010D-20180411-01	Total/NA	Water	8260C	
480-134267-41	MW-1010M-20180411-01	Total/NA	Water	8260C	
480-134267-42	MW-1019B-20180411-01	Total/NA	Water	8260C	
MB 480-409865/8	Method Blank	Total/NA	Water	8260C	
LCS 480-409865/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-409865/6	Lab Control Sample Dup	Total/NA	Water	8260C	

# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1020-20180411-01**

**Lab Sample ID: 480-134267-1**

Date Collected: 04/11/18 08:10

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409598	04/19/18 05:10	RRS	TAL BUF

**Client Sample ID: MW-1013-20180411-01**

**Lab Sample ID: 480-134267-2**

Date Collected: 04/11/18 08:33

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409598	04/19/18 05:33	RRS	TAL BUF

**Client Sample ID: MW-1009-20180411-01**

**Lab Sample ID: 480-134267-3**

Date Collected: 04/11/18 08:52

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409598	04/19/18 05:57	RRS	TAL BUF

**Client Sample ID: MW-1008-20180411-01**

**Lab Sample ID: 480-134267-4**

Date Collected: 04/11/18 09:08

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409598	04/19/18 06:21	RRS	TAL BUF

**Client Sample ID: MW-1005-20180411-01**

**Lab Sample ID: 480-134267-5**

Date Collected: 04/11/18 09:22

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409631	04/19/18 13:48	AEM	TAL BUF

**Client Sample ID: MW-1004-20180411-01**

**Lab Sample ID: 480-134267-6**

Date Collected: 04/11/18 09:42

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409631	04/19/18 14:11	AEM	TAL BUF

# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1003-20180411-01**

**Lab Sample ID: 480-134267-7**

Date Collected: 04/11/18 09:57

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409631	04/19/18 14:35	AEM	TAL BUF

**Client Sample ID: MW-1006-20180411-01**

**Lab Sample ID: 480-134267-8**

Date Collected: 04/11/18 10:20

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409631	04/19/18 14:58	AEM	TAL BUF

**Client Sample ID: DUP-001-20180411-01**

**Lab Sample ID: 480-134267-9**

Date Collected: 04/11/18 00:01

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409831	04/19/18 23:38	RRS	TAL BUF

**Client Sample ID: MW-1017D-20180411-01**

**Lab Sample ID: 480-134267-10**

Date Collected: 04/11/18 14:11

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409631	04/19/18 15:45	AEM	TAL BUF

**Client Sample ID: MW-1016D-20180411-01**

**Lab Sample ID: 480-134267-11**

Date Collected: 04/11/18 13:45

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409631	04/19/18 16:09	AEM	TAL BUF

**Client Sample ID: MW-1032-20180411-01**

**Lab Sample ID: 480-134267-12**

Date Collected: 04/11/18 10:13

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409631	04/19/18 16:32	AEM	TAL BUF

# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1026D-20180411-01**

**Lab Sample ID: 480-134267-13**

Date Collected: 04/11/18 10:35

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409631	04/19/18 16:56	AEM	TAL BUF

**Client Sample ID: MW-1022-20180411-01**

**Lab Sample ID: 480-134267-14**

Date Collected: 04/11/18 09:25

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409631	04/19/18 17:19	AEM	TAL BUF

**Client Sample ID: MW-1030-20180411-01**

**Lab Sample ID: 480-134267-15**

Date Collected: 04/11/18 09:36

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409631	04/19/18 17:43	AEM	TAL BUF

**Client Sample ID: MW-1031-20180411-01**

**Lab Sample ID: 480-134267-16**

Date Collected: 04/11/18 09:53

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409631	04/19/18 18:06	AEM	TAL BUF

**Client Sample ID: MW-1023-20180411-01**

**Lab Sample ID: 480-134267-17**

Date Collected: 04/11/18 10:49

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409631	04/19/18 18:30	AEM	TAL BUF

**Client Sample ID: MW-1024D-20180411-01**

**Lab Sample ID: 480-134267-18**

Date Collected: 04/11/18 11:49

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409831	04/20/18 00:25	RRS	TAL BUF

# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1025M-20180411-01**

**Lab Sample ID: 480-134267-19**

Date Collected: 04/11/18 12:08

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409831	04/20/18 00:49	RRS	TAL BUF

**Client Sample ID: DUP-003-20180411-01**

**Lab Sample ID: 480-134267-20**

Date Collected: 04/11/18 00:03

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409865	04/20/18 12:26	AEM	TAL BUF

**Client Sample ID: MW-1025D-20180411-01**

**Lab Sample ID: 480-134267-21**

Date Collected: 04/11/18 12:19

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409831	04/20/18 01:37	RRS	TAL BUF

**Client Sample ID: MW-1014-20180411-01**

**Lab Sample ID: 480-134267-22**

Date Collected: 04/11/18 08:30

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409831	04/20/18 02:01	RRS	TAL BUF

**Client Sample ID: MW-1015D-20180411-01**

**Lab Sample ID: 480-134267-23**

Date Collected: 04/11/18 08:51

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409831	04/20/18 02:24	RRS	TAL BUF

**Client Sample ID: MW-1027-20180411-01**

**Lab Sample ID: 480-134267-24**

Date Collected: 04/11/18 13:26

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409831	04/20/18 02:48	RRS	TAL BUF

# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1028-20180411-01**

**Lab Sample ID: 480-134267-25**

Date Collected: 04/11/18 13:42

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409831	04/20/18 03:12	RRS	TAL BUF

**Client Sample ID: MW-1034-20180411-01**

**Lab Sample ID: 480-134267-26**

Date Collected: 04/11/18 14:07

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409831	04/20/18 03:36	RRS	TAL BUF

**Client Sample ID: MW-1033-20180411-01**

**Lab Sample ID: 480-134267-27**

Date Collected: 04/11/18 13:55

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409831	04/20/18 03:59	RRS	TAL BUF

**Client Sample ID: MW-1018-20180411-01**

**Lab Sample ID: 480-134267-28**

Date Collected: 04/11/18 15:40

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409831	04/20/18 04:23	RRS	TAL BUF

**Client Sample ID: MW-1035-20180411-01**

**Lab Sample ID: 480-134267-29**

Date Collected: 04/11/18 15:52

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409831	04/20/18 04:47	RRS	TAL BUF

**Client Sample ID: MW-1037-20180411-01**

**Lab Sample ID: 480-134267-30**

Date Collected: 04/11/18 15:50

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C	DL	10	409831	04/20/18 05:10	RRS	TAL BUF
Total/NA	Analysis	8260C		2	409865	04/20/18 18:20	AEM	TAL BUF



# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1036-20180411-01**

**Lab Sample ID: 480-134267-31**

Date Collected: 04/11/18 16:12

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409831	04/20/18 05:34	RRS	TAL BUF

**Client Sample ID: DUP-002-20180411-01**

**Lab Sample ID: 480-134267-32**

Date Collected: 04/11/18 00:02

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409865	04/20/18 12:49	AEM	TAL BUF

**Client Sample ID: DUP-004-20180411-01**

**Lab Sample ID: 480-134267-33**

Date Collected: 04/11/18 00:04

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409865	04/20/18 13:13	AEM	TAL BUF

**Client Sample ID: DUP-005-20180411-01**

**Lab Sample ID: 480-134267-34**

Date Collected: 04/11/18 00:05

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409865	04/20/18 13:37	AEM	TAL BUF

**Client Sample ID: MW-1038-20180411-01**

**Lab Sample ID: 480-134267-35**

Date Collected: 04/11/18 15:27

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C	DL	40	409831	04/20/18 07:09	RRS	TAL BUF
Total/NA	Analysis	8260C		2	409865	04/20/18 18:44	AEM	TAL BUF

**Client Sample ID: MW-1011-20180411-01**

**Lab Sample ID: 480-134267-36**

Date Collected: 04/11/18 15:08

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409865	04/20/18 14:01	AEM	TAL BUF

# Lab Chronicle

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

**Client Sample ID: MW-1039-20180411-01**

**Lab Sample ID: 480-134267-37**

Date Collected: 04/11/18 14:47

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409865	04/20/18 14:24	AEM	TAL BUF

**Client Sample ID: PDB-001-20180411-01**

**Lab Sample ID: 480-134267-38**

Date Collected: 04/11/18 15:45

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409865	04/20/18 14:48	AEM	TAL BUF

**Client Sample ID: TB-001-20180411-01**

**Lab Sample ID: 480-134267-39**

Date Collected: 04/11/18 00:00

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409865	04/20/18 15:12	AEM	TAL BUF

**Client Sample ID: MW-1010D-20180411-01**

**Lab Sample ID: 480-134267-40**

Date Collected: 04/11/18 12:02

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409865	04/20/18 15:35	AEM	TAL BUF

**Client Sample ID: MW-1010M-20180411-01**

**Lab Sample ID: 480-134267-41**

Date Collected: 04/11/18 11:47

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409865	04/20/18 15:59	AEM	TAL BUF

**Client Sample ID: MW-1019B-20180411-01**

**Lab Sample ID: 480-134267-42**

Date Collected: 04/11/18 16:20

Matrix: Water

Date Received: 04/13/18 01:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409865	04/20/18 16:22	AEM	TAL BUF

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

## Accreditation/Certification Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

### Laboratory: TestAmerica Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-18
California	State Program	9	2931	04-01-19
Connecticut	State Program	1	PH-0568	09-30-18
Florida	NELAP	4	E87672	06-30-18
Georgia	State Program	4	956	03-31-18 *
Illinois	NELAP	5	200003	09-30-18
Iowa	State Program	7	374	03-01-19
Kansas	NELAP	7	E-10187	01-31-19
Kentucky (DW)	State Program	4	90029	12-31-18
Kentucky (UST)	State Program	4	30	03-31-19
Kentucky (WW)	State Program	4	90029	12-31-18
Louisiana	NELAP	6	02031	06-30-18
Maine	State Program	1	NY00044	12-04-18
Maryland	State Program	3	294	03-31-19
Massachusetts	State Program	1	M-NY044	06-30-18
Michigan	State Program	5	9937	03-31-19
Minnesota	NELAP	5	036-999-337	12-31-18
New Hampshire	NELAP	1	2337	11-17-18
New Jersey	NELAP	2	NY455	06-30-18
New York	NELAP	2	10026	03-31-18 *
North Dakota	State Program	8	R-176	03-31-18 *
Oklahoma	State Program	6	9421	08-31-18
Oregon	NELAP	10	NY200003	06-09-18
Pennsylvania	NELAP	3	68-00281	07-31-18
Rhode Island	State Program	1	LAO00328	12-30-18
Tennessee	State Program	4	TN02970	03-31-19
Texas	NELAP	6	T104704412-15-6	07-31-18
USDA	Federal		P330-11-00386	02-06-21
Virginia	NELAP	3	460185	09-14-18
Washington	State Program	10	C784	02-10-19
Wisconsin	State Program	5	998310390	08-31-18

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
5030C	Purge and Trap	SW846	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



# Sample Summary

Client: ERM-Northeast  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-134267-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-134267-1	MW-1020-20180411-01	Water	04/11/18 08:10	04/13/18 01:15
480-134267-2	MW-1013-20180411-01	Water	04/11/18 08:33	04/13/18 01:15
480-134267-3	MW-1009-20180411-01	Water	04/11/18 08:52	04/13/18 01:15
480-134267-4	MW-1008-20180411-01	Water	04/11/18 09:08	04/13/18 01:15
480-134267-5	MW-1005-20180411-01	Water	04/11/18 09:22	04/13/18 01:15
480-134267-6	MW-1004-20180411-01	Water	04/11/18 09:42	04/13/18 01:15
480-134267-7	MW-1003-20180411-01	Water	04/11/18 09:57	04/13/18 01:15
480-134267-8	MW-1006-20180411-01	Water	04/11/18 10:20	04/13/18 01:15
480-134267-9	DUP-001-20180411-01	Water	04/11/18 00:01	04/13/18 01:15
480-134267-10	MW-1017D-20180411-01	Water	04/11/18 14:11	04/13/18 01:15
480-134267-11	MW-1016D-20180411-01	Water	04/11/18 13:45	04/13/18 01:15
480-134267-12	MW-1032-20180411-01	Water	04/11/18 10:13	04/13/18 01:15
480-134267-13	MW-1026D-20180411-01	Water	04/11/18 10:35	04/13/18 01:15
480-134267-14	MW-1022-20180411-01	Water	04/11/18 09:25	04/13/18 01:15
480-134267-15	MW-1030-20180411-01	Water	04/11/18 09:36	04/13/18 01:15
480-134267-16	MW-1031-20180411-01	Water	04/11/18 09:53	04/13/18 01:15
480-134267-17	MW-1023-20180411-01	Water	04/11/18 10:49	04/13/18 01:15
480-134267-18	MW-1024D-20180411-01	Water	04/11/18 11:49	04/13/18 01:15
480-134267-19	MW-1025M-20180411-01	Water	04/11/18 12:08	04/13/18 01:15
480-134267-20	DUP-003-20180411-01	Water	04/11/18 00:03	04/13/18 01:15
480-134267-21	MW-1025D-20180411-01	Water	04/11/18 12:19	04/13/18 01:15
480-134267-22	MW-1014-20180411-01	Water	04/11/18 08:30	04/13/18 01:15
480-134267-23	MW-1015D-20180411-01	Water	04/11/18 08:51	04/13/18 01:15
480-134267-24	MW-1027-20180411-01	Water	04/11/18 13:26	04/13/18 01:15
480-134267-25	MW-1028-20180411-01	Water	04/11/18 13:42	04/13/18 01:15
480-134267-26	MW-1034-20180411-01	Water	04/11/18 14:07	04/13/18 01:15
480-134267-27	MW-1033-20180411-01	Water	04/11/18 13:55	04/13/18 01:15
480-134267-28	MW-1018-20180411-01	Water	04/11/18 15:40	04/13/18 01:15
480-134267-29	MW-1035-20180411-01	Water	04/11/18 15:52	04/13/18 01:15
480-134267-30	MW-1037-20180411-01	Water	04/11/18 15:50	04/13/18 01:15
480-134267-31	MW-1036-20180411-01	Water	04/11/18 16:12	04/13/18 01:15
480-134267-32	DUP-002-20180411-01	Water	04/11/18 00:02	04/13/18 01:15
480-134267-33	DUP-004-20180411-01	Water	04/11/18 00:04	04/13/18 01:15
480-134267-34	DUP-005-20180411-01	Water	04/11/18 00:05	04/13/18 01:15
480-134267-35	MW-1038-20180411-01	Water	04/11/18 15:27	04/13/18 01:15
480-134267-36	MW-1011-20180411-01	Water	04/11/18 15:08	04/13/18 01:15
480-134267-37	MW-1039-20180411-01	Water	04/11/18 14:47	04/13/18 01:15
480-134267-38	PDB-001-20180411-01	Water	04/11/18 15:45	04/13/18 01:15
480-134267-39	TB-001-20180411-01	Water	04/11/18 00:00	04/13/18 01:15
480-134267-40	MW-1010D-20180411-01	Water	04/11/18 12:02	04/13/18 01:15
480-134267-41	MW-1010M-20180411-01	Water	04/11/18 11:47	04/13/18 01:15
480-134267-42	MW-1019B-20180411-01	Water	04/11/18 16:20	04/13/18 01:15

## Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-134267-1

**Login Number: 134267**


**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Williams, Christopher S**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ERM
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

<b>Client Information</b> Client Contact: <b>Lary Mastura</b> Mr. Ethan Oyles Company: ERM-Northeast Address: One Beacon Street 5th Floor City: Boston State, Zip: MA, 02108 Phone: Email: <b>lary.mastura@erm.com</b> erhan.oyles@erm.com Project Name: <b>cleanwater sampler@211.com</b> IDS Wayland Site: <b>Wayland</b>		Sampler: <b>Jha Redder</b> Lab PM: Mason, Becky C Phone: <b>508-498-5311</b> E-Mail: becky.mason@testamericainc.com		COC No: 480-111802-10762.1 Page: <b>Page 1 of 2 Pg. 2/4</b> Job #: <b>0437996</b>		Camer Tracking No(s): 480-134267 COC 		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - H2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDTA Z - other (specify) Other:									
Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #: Project #: 48007117 SSOW#:		Analysis Requi 522 - 1,4 Dioxane 522 8260MCP - 8260 Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) 522 - 1,4 Dioxane 522		Total Number of Containers X 3 3 3 3 3 3 3 3 3 3 3		Special Instructions/Note: X A A		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:									
Sample Identification MW-1020-20180411-01 MW-1013-20180411-01 MW-1009-20180411-01 MW-1008-20180411-01 MW-1005-20180411-01 MW-1004-20180411-01 MW-1003-20180411-01 MW-1000-20180411-01 DUP-001-20180411-01 MW-1017D-20180411-01 MW-1016D-20180411-01		Sample Date 04/11/18 08:10 08:33 08:52 09:08 09:22 09:42 09:57 10:20 00:01 14:11 13:45		Sample Time 08:10 08:33 08:52 09:08 09:22 09:42 09:57 10:20 00:01 14:11 13:45		Sample Type (C=Comp, G=grab) G G G G G G G G G G G		Matrix (W=water, S=solid, O=waste/oil, B= tissue, A=air) Water Water Water Water Water Water Water Water Water Water Water		Preservation Code: A A A A A A A A A A A		Field Filtered Sample (Yes or No) X X X X X X X X X X X		Perform MS/MSD (Yes or No) X X X X X X X X X X X		522 - 1,4 Dioxane 522 8260MCP - 8260 Perform MS/MSD (Yes or No) Field Filtered Sample (Yes or No) 522 - 1,4 Dioxane 522	
Possible Hazard Identification <input 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		Deliverable Requested: I, II, III, V, Other (specify)		Empty Kit Relinquished by:		Date:		Method of Shipment:									
Relinquished by: <b>Matt Stember</b>		Date/Time: <b>4/11/18 17:20</b>		Company: <b>ERM</b>		Received by: <b>[Signature]</b>		Date/Time: <b>4-11-18 17:20</b>		Company: <b>ERM</b>							
Relinquished by: <b>[Signature]</b>		Date/Time: <b>4-11-18 17:20</b>		Company: <b>A</b>		Received by: <b>[Signature]</b>		Date/Time: <b>4/13/18 01:15</b>		Company: <b>[Signature]</b>							
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:							
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <b>1.4°C</b>		1.4°C		4		Ver: 08/04/2016							



**Chain of Custody Record**

<b>Client Information</b>		Lab PM: Mason, Becky C		Carrier Tracking No(s):		COC No: 480-111802-10762.8	
Client Contact: <b>Larry Mastera</b>		Phone: 508-498-5311		E-Mail: becky.mason@testamericainc.com		Page: 8 of 8	
Company: ERM-Northeast		Address: One Beacon Steet 5th Floor		City: Boston		Job #: 0437996	
State, Zip: MA, 02108		Phone:		PO #: Purchase Order not required		Preservation Codes:	
Email: <b>larry.mastera@erm.com</b>		Project #: 48007117		WO #: [Redacted]		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Archlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Site: <b>Weyland, MA</b>		Due Date Requested:		TAT Requested (days):		Other:	
<b>Sample Identification</b>		Sample Date		Sample Time		Sample Type (C=comp, G=grab)	
MW-1032-20180411-01		4/11/18		10:13		G	
MW-1026D-20180411-01				10:35		G	
MW-1022-20180411-01				09:25		G	
MW-1030-20180411-01				09:36		G	
MW-1031-20180411-01				09:53		G	
MW-1023-20180411-01				10:49		G	
MW-1024D-20180411-01				11:49		G	
MW-1025M-20180411-01				12:08		G	
DUP-003-20180411-01				00:03		G	
MW-1025D-20180411-01				12:19		G	
MW-1041-20180411-01				08:30		G	
<b>Possible Hazard Identification</b>		Date:		Time:		Method of Shipment:	
<input 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		Date: 4/11/18 17:20		Company: ERM		Received by: [Signature]	
Deliverable Requested: I, II, III, IV, Other (specify)		Date: 4/11/18 17:20		Company: ERM		Received by: [Signature]	
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: [Signature]		Date: 4/11/18 17:20		Company: ERM		Received by: [Signature]	
Relinquished by: [Signature]		Date: 4/11/18 17:20		Company: ERM		Received by: [Signature]	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.4°C		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:	
						Total Number of containers: 3	
						Special Instructions/Note:	





**Client Information**  
 Client Contact: **LARRY MASTERA**  
 Company: ERM-Northeast  
 Address: One Beacon Street 5th Floor  
 City: Boston  
 State, Zip: MA, 02108  
 Phone:  
 Email: **larry.mastera@erm.com**  
 Project Name: **IDS Wayland**  
 Site: **WAYLAND**

**Sampler:** **JULIA REDDEN**  
 Lab PM: Mason, Becky C  
 E-Mail: becky.mason@testamericainc.com  
 Phone: **508-498-5311**

**Carrier Tracking No(s):**  
 COC No: 480-111802-10762.7  
 Page: **3/4**  
 Job #: **0437996**

**Analysis Requested**

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	522 - 1,4 Dioxane 522	Total Number of Containers	Special Instructions/Note:
MW-1015D-20180411-01	04/11/18	08:51	G	Water	X	X	A	3	
MW-1027-20180411-01		13:26		Water			A	3	
MW-1028-20180411-01		13:42		Water			A	3	
MW-1034-20180411-01		14:07		Water			A	3	
MW-1023-20180411-01		13:55		Water			A	3	
MW-1018-20180411-01		15:40		Water			A	3	
MW-1035-20180411-01		15:52		Water			A	3	
MW-1037-20180411-01		15:50		Water			A	3	
MW-1036-20180411-01		10:12		Water			A	3	
DUP-002-20180411-01		00:02		Water			A	3	
DUP-004-20180411-01		00:04		Water			A	3	

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, IV, Other (specify)

**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:**

**Empty Kit Relinquished by:**  
 Relinquished by: **Melissa Hendon**  
 Relinquished by: **[Signature]**  
 Relinquished by: **[Signature]**

**Date:**  
 Date/Time: 4/11/18 17:00  
 Date/Time: 4/12/18 17:00  
 Date/Time: 4/13/18 01:15

**Company:**  
 Company: ERM  
 Company: X  
 Company: VAB

**Custody Seal No.:**  
 Custody Seal No.: **14**

**Cooler Temperature(s) °C and Other Remarks:**  
 Cooler Temperature(s) °C and Other Remarks: **1.4 °C**

### Chain of Custody Record

<b>Client Information</b> Client Contact: <b>LARRY MASTERA</b> MR. ERIK GYKES Company: ERM-Northeast Address: One Beacon Street 5th Floor City: Boston State, Zip: MA, 02108 Phone: Email: <b>larry.mastera@erm.com</b> erik.gykes@erm.com Project Name: <b>identif.m.dublin@erm.com</b> Project #: 48007117 Site: <b>WAYLAND</b>		Lab PM: <b>Mason, Becky C</b> E-Mail: <b>becky.mason@testamericainc.com</b> Carrier Tracking No(s): Lab No: <b>480-111802-10762.6</b> Page: <b>Page 6 of 6 Pg. 4/4</b> Job #: <b>0437996</b>	
Due Date Requested: TAT Requested (days): PO #: Purchase Order not required WO #: Project #: 48007117 SOW#:		<b>Analysis Requested</b> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> A Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/> A 522 - 1,4 Dioxane 522 Total Number of Containers: <input checked="" type="checkbox"/> X	
<b>Sample Identification</b> Sample ID: DUP-005-20180411-01 MW-1038-20180411-01 MW-1011-20180411-01 MW-1029-20180411-01 PDB-001-20180411-01 TB-001-20180411-01 MW-1010D-20180411-01 MW-1010M-20180411-01 MW-1019B-20180411-01		Sample Date: 04/11/18 Sample Time: 00:05 15:27 15:08 14:47 15:45 — 04/11/18 12:02 11:47 16:20	
Sample Type (C=Comp, G=grab) Matrix (W=water, S=solid, O=wastefoil, BT=Tissue, A=Air) Preservation Code: G Water Water Water Water Water Water Water Water Water Water		Special Instructions/Note: Lab provided.	
<b>Possible Hazard Identification</b> <input 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 Deliverable Requested: I, II, III, IV, Other (specify)			
<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b> <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
<b>Empty Kit Relinquished by:</b>			
Relinquished by: <b>Yvette Henderson</b> Relinquished by: <b>[Signature]</b> Relinquished by: <b>[Signature]</b>		Date: 4/11/18 17:20 Date/Time: 4/11/18 17:20 Date/Time: 4/11/18 01:15 Date/Time: 4/11/18 01:15	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: <b>1.4°C</b>	



# 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: 480-133886-1

Client Project/Site: IDS Wayland

For:

Innovative Engineering Solutions, Inc

25 Spring Street

Walpole, Massachusetts 02081

Attn: Vicki Pariyar



Authorized for release by:

4/19/2018 12:46:07 PM

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

TestAmerica Job ID: 480-133886-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

### GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

### General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
F1	MS and/or MSD Recovery is outside acceptance limits.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: 480-133886-1

**Job ID: 480-133886-1**

**Laboratory: TestAmerica Buffalo**

## Narrative

### Job Narrative 480-133886-1

#### Receipt

The samples were received on 4/11/2018 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 1.3° C, 1.7° C and 2.3° C.

#### GC/MS VOA

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

Method 8260C: The following samples were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-267S-20180410 (480-133886-2), REW-6-20180410 (480-133886-12), REW-11-20180410 (480-133886-14) and DUP2-20180410 (480-133886-16).  
The samples were analyzed within 7 days per EPA recommendation.

Method 8260C: The continuing calibration verification (CCV) for Vinyl chloride, Acetone, Dichlorodifluoromethane, Chloromethane and 1,4-Dioxane associated with batch 480-409097 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following samples were affected : MW-261S-20180410 (480-133886-1), MW-267S-20180410 (480-133886-2), MW-267M-20180410 (480-133886-3), MW-268S-20180410 (480-133886-4), MW-268M-20180410 (480-133886-5), MW-268D-20180410 (480-133886-6), MW-551-20180410 (480-133886-7), MW-552-20180410 (480-133886-8), MW-553-20180410 (480-133886-9), MW-560-20180410 (480-133886-10), MW-562-20180410 (480-133886-11), REW-6-20180410 (480-133886-12), REW-7-20180410 (480-133886-13), REW-11-20180410 (480-133886-14), DUP2-20180410 (480-133886-16) and TRIP BLANKS (480-133886-17).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-409097 exceeded control limits for the following analytes: Acetone and 1,4-Dioxane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples were affected : MW-261S-20180410 (480-133886-1), MW-267S-20180410 (480-133886-2), MW-267M-20180410 (480-133886-3), MW-268S-20180410 (480-133886-4), MW-268M-20180410 (480-133886-5), MW-268D-20180410 (480-133886-6), MW-551-20180410 (480-133886-7), MW-552-20180410 (480-133886-8), MW-553-20180410 (480-133886-9), MW-560-20180410 (480-133886-10), MW-562-20180410 (480-133886-11), REW-6-20180410 (480-133886-12), REW-7-20180410 (480-133886-13), REW-11-20180410 (480-133886-14), DUP2-20180410 (480-133886-16) and TRIP BLANKS (480-133886-17).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-409097 exceeded control limits for the following analytes: 2-Butanone and Tetrahydrofuran. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate and Methacrylonitrile in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample. The following samples were affected : MW-261S-20180410 (480-133886-1), MW-267S-20180410 (480-133886-2), MW-267M-20180410 (480-133886-3), MW-268S-20180410 (480-133886-4), MW-268M-20180410 (480-133886-5), MW-268D-20180410 (480-133886-6), MW-551-20180410 (480-133886-7), MW-552-20180410 (480-133886-8), MW-553-20180410 (480-133886-9), MW-560-20180410 (480-133886-10), MW-562-20180410 (480-133886-11), REW-6-20180410 (480-133886-12), REW-7-20180410 (480-133886-13), REW-11-20180410 (480-133886-14), DUP2-20180410 (480-133886-16) and TRIP BLANKS (480-133886-17).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-268S-20180410 (480-133886-4) and MW-268M-20180410 (480-133886-5). Elevated reporting limits (RLs) are provided.

# Case Narrative

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

TestAmerica Job ID: 480-133886-1

## Job ID: 480-133886-1 (Continued)

### Laboratory: TestAmerica Buffalo (Continued)

Method 8260C: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-267S-20180410 (480-133886-2), MW-267M-20180410 (480-133886-3), MW-268D-20180410 (480-133886-6) and MW-562-20180410 (480-133886-11). Elevated reporting limits (RLs) are provided.

Method 8260C: The following samples were diluted due to the abundance of non-target analytes: REW-6-20180410 (480-133886-12), REW-11-20180410 (480-133886-14) and DUP2-20180410 (480-133886-16). Elevated reporting limits (RLs) are provided.

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch 480-409097 recovered outside control limits for the following analyte: 1,4-Dioxane.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-409160 recovered outside the MCP control limit criteria for the following analytes: 1,4-Dioxane, Acetone and Chloromethane. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following sample was affected : DUP1-20180410 (480-133886-15).

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 480-409160 exceeded control limits for the following analyte: 2-Butanone and Tetrahydrofuran. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate and Methacrylonitrile in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample. The following sample was affected : DUP1-20180410 (480-133886-15).

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 480-409160 exceeded control limits for the following analytes: Acetone. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following sample was affected : DUP1-20180410 (480-133886-15).

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch 480-409160 recovered outside control limits for the following analytes: 1,4-Dioxane.

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

### GC/MS Semi VOA

Method 522: Surrogate recovery for the following sample was outside control limits: MW-267S-20180410 (480-133886-2). Evidence of matrix interference due to non-target analytes is present. Re-extraction and re-analysis was performed to confirm, only 1 set of data is being provided.

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

### HPLC/IC

Method 300.0: The following samples were reported with elevated reporting limits for all analytes: MW-261S-20180410 (480-133886-1), MW-267S-20180410 (480-133886-2), MW-268M-20180410 (480-133886-5) and MW-552-20180410 (480-133886-8), MW-553-20180410 (480-133886-9), MW-560-20180410 (480-133886-10), MW-562-20180410 (480-133886-11), REW-6-20180410 (480-133886-12) and REW-11-20180410 (480-133886-14). The sample was analyzed at a dilution based on screening results.

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

### Metals

Method 6010: At the request of the client, an abbreviated MCP analyte list was reported for this job.

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

### General Chemistry

Method 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute

# Case Narrative

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

TestAmerica Job ID: 480-133886-1

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## Job ID: 480-133886-1 (Continued)

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### Laboratory: TestAmerica Buffalo (Continued)

timeframe: MW-261S-20180410 (480-133886-1), MW-267S-20180410 (480-133886-2), MW-268S-20180410 (480-133886-4), MW-268M-20180410 (480-133886-5), MW-552-20180410 (480-133886-8), MW-553-20180410 (480-133886-9), MW-560-20180410 (480-133886-10), MW-562-20180410 (480-133886-11), REW-6-20180410 (480-133886-12), REW-7-20180410 (480-133886-13) and REW-11-20180410 (480-133886-14).

Method 350.1: The method blank for preparation batch 480-408606 and analytical batch 480-409125 contained < Ammonia> above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. MW-562-20180410 (480-133886-11), REW-6-20180410 (480-133886-12) and REW-7-20180410 (480-133886-13)

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

### Organic Prep

Method 3535A: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of 3 MW-267S-20180410 (480-133886-2). The sample was preserved to the appropriate pH in the laboratory.

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





## MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-133886-1**

Project Location: **Wayland MA** RTN:

**This form provides certifications for the data set for the following Laboratory Sample ID Number(s):**  
**480-133886-1[1-17]**

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 checked="" 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

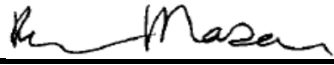
<b>G</b>	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <sup>1</sup>
----------	---	--

**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 type="checkbox"/> Yes <input checked="" 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: Project Manager  
 Printed Name: Becky Mason Date: 4/19/18 12:44

This form has been electronically signed and approved

# Detection Summary

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

TestAmerica Job ID: 480-133886-1

## Client Sample ID: MW-261S-20180410

## Lab Sample ID: 480-133886-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1.7		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	4.5		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.7		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	1.5		0.20		ug/L	1		522	Total/NA
Iron	32		0.050		mg/L	1		6010	Total/NA
Chloride	18		1.0		mg/L	2		300.0	Total/NA
Ammonia	0.24		0.20		mg/L	1		350.1	Total/NA
Nitrate as N	0.056		0.050		mg/L	1		353.2	Total/NA
TOC Result 1	1.8		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	1.8		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	1.8		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	380		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.028		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.9	HF	0.1		SU	1		9040C	Total/NA
Temperature	21.5	HF	0.001		Degrees C	1		9040C	Total/NA

## Client Sample ID: MW-267S-20180410

## Lab Sample ID: 480-133886-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	550	*	200		ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	61		20		ug/L	20		8260C	Total/NA
Toluene	61		20		ug/L	20		8260C	Total/NA
Iron	410		0.050		mg/L	1		6010	Total/NA
Chloride	81		2.5		mg/L	5		300.0	Total/NA
Sulfate	15		10		mg/L	5		300.0	Total/NA
Ammonia	0.41		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	1300		40		mg/L	40		9060A	Total/NA
TOC Result 2	1300		40		mg/L	40		9060A	Total/NA
Total Organic Carbon - Duplicates	1300		40		mg/L	40		9060A	Total/NA
Alkalinity, Total	740		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.16		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	5.3	HF	0.1		SU	1		9040C	Total/NA
Temperature	21.4	HF	0.001		Degrees C	1		9040C	Total/NA

## Client Sample ID: MW-267M-20180410

## Lab Sample ID: 480-133886-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	3.4		0.20		ug/L	1		522	Total/NA

## Client Sample ID: MW-268S-20180410

## Lab Sample ID: 480-133886-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	97		4.0		ug/L	4		8260C	Total/NA
Trichloroethene	250		4.0		ug/L	4		8260C	Total/NA
1,4-Dioxane	19		0.40		ug/L	2		522	Total/NA
Iron	0.38		0.050		mg/L	1		6010	Total/NA
Chloride	17		0.50		mg/L	1		300.0	Total/NA
Sulfate	24		2.0		mg/L	1		300.0	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: 480-133886-1

## Client Sample ID: MW-268S-20180410 (Continued)

Lab Sample ID: 480-133886-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
TOC Result 1	27		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	28		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	28		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	93		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.080		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	8.9	HF	0.1		SU	1		9040C	Total/NA
Temperature	21.4	HF	0.001		Degrees C	1		9040C	Total/NA

## Client Sample ID: MW-268M-20180410

Lab Sample ID: 480-133886-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.6		2.0		ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	22		2.0		ug/L	2		8260C	Total/NA
Toluene	3.9		2.0		ug/L	2		8260C	Total/NA
Vinyl chloride	70		2.0		ug/L	2		8260C	Total/NA
1,4-Dioxane	8.9		0.20		ug/L	1		522	Total/NA
Iron	41		0.050		mg/L	1		6010	Total/NA
Chloride	37		1.0		mg/L	2		300.0	Total/NA
Ammonia	0.28		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	3.1		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	2.9		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	3.0		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	360		5.0		mg/L	1		SM 2320B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.0	HF	0.1		SU	1		9040C	Total/NA
Temperature	21.5	HF	0.001		Degrees C	1		9040C	Total/NA

## Client Sample ID: MW-268D-20180410

Lab Sample ID: 480-133886-6

No Detections.

## Client Sample ID: MW-551-20180410

Lab Sample ID: 480-133886-7

No Detections.

## Client Sample ID: MW-552-20180410

Lab Sample ID: 480-133886-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.0		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	0.69		0.20		ug/L	1		522	Total/NA
Iron	16		0.050		mg/L	1		6010	Total/NA
Chloride	10		1.0		mg/L	2		300.0	Total/NA
Ammonia	0.28		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	1.5		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	1.4		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	1.4		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	280		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.057		0.020		mg/L	1		SM 4500 P E	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: 480-133886-1

### Client Sample ID: MW-552-20180410 (Continued)

Lab Sample ID: 480-133886-8

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.9	HF	0.1		SU	1		9040C	Total/NA
Temperature	21.6	HF	0.001		Degrees C	1		9040C	Total/NA

### Client Sample ID: MW-553-20180410

Lab Sample ID: 480-133886-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	9.5		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	3.7		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	13		2.0		ug/L	1		8260C	Total/NA
o-Xylene	3.4		1.0		ug/L	1		8260C	Total/NA
Toluene	7.6		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	9.1		1.0		ug/L	1		8260C	Total/NA
Iron	42		0.050		mg/L	1		6010	Total/NA
Chloride	16		2.5		mg/L	5		300.0	Total/NA
Ammonia	0.36	F1	0.20		mg/L	1		350.1	Total/NA
Nitrate as N	0.079		0.050		mg/L	1		353.2	Total/NA
TOC Result 1	2.5		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	2.3		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	2.4		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	730		5.0		mg/L	1		SM 2320B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.9	HF	0.1		SU	1		9040C	Total/NA
Temperature	21.6	HF	0.001		Degrees C	1		9040C	Total/NA

### Client Sample ID: MW-560-20180410

Lab Sample ID: 480-133886-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	4.9		0.050		mg/L	1		6010	Total/NA
Chloride	27		1.0		mg/L	2		300.0	Total/NA
Ammonia	1.4		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	2.0		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	2.0		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	2.0		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	410		5.0		mg/L	1		SM 2320B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.0	HF	0.1		SU	1		9040C	Total/NA
Temperature	21.7	HF	0.001		Degrees C	1		9040C	Total/NA

### Client Sample ID: MW-562-20180410

Lab Sample ID: 480-133886-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	4.1		4.0		ug/L	2		8260C	Total/NA
Toluene	5.1		2.0		ug/L	2		8260C	Total/NA
Iron	110		0.050		mg/L	1		6010	Total/NA
Chloride	11		1.0		mg/L	2		300.0	Total/NA
Ammonia	2.5		0.40		mg/L	2		350.1	Total/NA
TOC Result 1	17		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	16		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	17		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	320		5.0		mg/L	1		SM 2320B	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: 480-133886-1

## Client Sample ID: MW-562-20180410 (Continued)

Lab Sample ID: 480-133886-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ortho-Phosphate	0.22		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.2	HF	0.1		SU	1		9040C	Total/NA
Temperature	21.5	HF	0.001		Degrees C	1		9040C	Total/NA

## Client Sample ID: REW-6-20180410

Lab Sample ID: 480-133886-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	470	*	200		ug/L	20		8260C	Total/NA
Iron	140		0.050		mg/L	1		6010	Total/NA
Chloride	13		5.0		mg/L	10		300.0	Total/NA
Ammonia	0.61		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	2400		80		mg/L	80		9060A	Total/NA
TOC Result 2	2500		80		mg/L	80		9060A	Total/NA
Total Organic Carbon - Duplicates	2400		80		mg/L	80		9060A	Total/NA
Alkalinity, Total	970		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.31		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	5.7	HF	0.1		SU	1		9040C	Total/NA
Temperature	21.5	HF	0.001		Degrees C	1		9040C	Total/NA

## Client Sample ID: REW-7-20180410

Lab Sample ID: 480-133886-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	4.9		0.050		mg/L	1		6010	Total/NA
Chloride	7.6		0.50		mg/L	1		300.0	Total/NA
Sulfate	37		2.0		mg/L	1		300.0	Total/NA
Ammonia	0.71		0.20		mg/L	1		350.1	Total/NA
Alkalinity, Total	47		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.061		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.8	HF	0.1		SU	1		9040C	Total/NA
Temperature	21.4	HF	0.001		Degrees C	1		9040C	Total/NA

## Client Sample ID: REW-11-20180410

Lab Sample ID: 480-133886-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	440	*	200		ug/L	20		8260C	Total/NA
Toluene	23		20		ug/L	20		8260C	Total/NA
Iron	200		0.050		mg/L	1		6010	Total/NA
Chloride	19		5.0		mg/L	10		300.0	Total/NA
Ammonia	0.64		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	4000		50		mg/L	50		9060A	Total/NA
TOC Result 2	4100		50		mg/L	50		9060A	Total/NA
Total Organic Carbon - Duplicates	4000		50		mg/L	50		9060A	Total/NA
Alkalinity, Total	1100		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.86		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	5.8	HF	0.1		SU	1		9040C	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: 480-133886-1

## Client Sample ID: REW-11-20180410 (Continued)

Lab Sample ID: 480-133886-14

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Temperature	21.5	HF	0.001		Degrees C	1		9040C	Total/NA

## Client Sample ID: DUP1-20180410

Lab Sample ID: 480-133886-15

No Detections.

## Client Sample ID: DUP2-20180410

Lab Sample ID: 480-133886-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	450	*	200		ug/L	20		8260C	Total/NA
Toluene	20		20		ug/L	20		8260C	Total/NA

## Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-133886-17

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: 480-133886-1

**Client Sample ID: MW-261S-20180410**

**Lab Sample ID: 480-133886-1**

**Date Collected: 04/10/18 09:20**

**Matrix: Water**

**Date Received: 04/11/18 01:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/16/18 23:12	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/16/18 23:12	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/16/18 23:12	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/16/18 23:12	1
1,1-Dichloroethane	ND		1.0		ug/L			04/16/18 23:12	1
1,1-Dichloroethene	ND		1.0		ug/L			04/16/18 23:12	1
1,1-Dichloropropene	ND		1.0		ug/L			04/16/18 23:12	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/16/18 23:12	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/16/18 23:12	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/16/18 23:12	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/16/18 23:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/16/18 23:12	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/16/18 23:12	1
1,2-Dichloroethane	ND		1.0		ug/L			04/16/18 23:12	1
1,2-Dichloropropane	ND		1.0		ug/L			04/16/18 23:12	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/16/18 23:12	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/16/18 23:12	1
1,3-Dichloropropane	ND		1.0		ug/L			04/16/18 23:12	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/16/18 23:12	1
1,4-Dioxane	ND	*	50		ug/L			04/16/18 23:12	1
2,2-Dichloropropane	ND		1.0		ug/L			04/16/18 23:12	1
2-Butanone (MEK)	ND	*	10		ug/L			04/16/18 23:12	1
2-Chlorotoluene	ND		1.0		ug/L			04/16/18 23:12	1
2-Hexanone	ND		10		ug/L			04/16/18 23:12	1
4-Chlorotoluene	ND		1.0		ug/L			04/16/18 23:12	1
4-Isopropyltoluene	ND		1.0		ug/L			04/16/18 23:12	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/16/18 23:12	1
Acetone	ND	*	50		ug/L			04/16/18 23:12	1
Benzene	ND		1.0		ug/L			04/16/18 23:12	1
Bromobenzene	ND		1.0		ug/L			04/16/18 23:12	1
Bromoform	ND		1.0		ug/L			04/16/18 23:12	1
Bromomethane	ND		2.0		ug/L			04/16/18 23:12	1
Carbon disulfide	ND		10		ug/L			04/16/18 23:12	1
Carbon tetrachloride	ND		1.0		ug/L			04/16/18 23:12	1
Chlorobenzene	ND		1.0		ug/L			04/16/18 23:12	1
Chlorobromomethane	ND		1.0		ug/L			04/16/18 23:12	1
Chlorodibromomethane	ND		0.50		ug/L			04/16/18 23:12	1
Chloroethane	ND		2.0		ug/L			04/16/18 23:12	1
Chloroform	ND		1.0		ug/L			04/16/18 23:12	1
Chloromethane	ND		2.0		ug/L			04/16/18 23:12	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/16/18 23:12	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/16/18 23:12	1
Dichlorobromomethane	ND		0.50		ug/L			04/16/18 23:12	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/16/18 23:12	1
Ethyl ether	ND		1.0		ug/L			04/16/18 23:12	1
<b>Ethylbenzene</b>	<b>1.7</b>		1.0		ug/L			04/16/18 23:12	1
Ethylene Dibromide	ND		1.0		ug/L			04/16/18 23:12	1
Hexachlorobutadiene	ND		0.40		ug/L			04/16/18 23:12	1
Isopropyl ether	ND		10		ug/L			04/16/18 23:12	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-261S-20180410**

**Lab Sample ID: 480-133886-1**

**Date Collected: 04/10/18 09:20**

**Matrix: Water**

**Date Received: 04/11/18 01:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/16/18 23:12	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/16/18 23:12	1
Methylene Chloride	ND		1.0		ug/L			04/16/18 23:12	1
<b>m-Xylene &amp; p-Xylene</b>	<b>4.5</b>		2.0		ug/L			04/16/18 23:12	1
Naphthalene	ND		5.0		ug/L			04/16/18 23:12	1
n-Butylbenzene	ND		1.0		ug/L			04/16/18 23:12	1
N-Propylbenzene	ND		1.0		ug/L			04/16/18 23:12	1
<b>o-Xylene</b>	<b>1.7</b>		1.0		ug/L			04/16/18 23:12	1
sec-Butylbenzene	ND		1.0		ug/L			04/16/18 23:12	1
Styrene	ND		1.0		ug/L			04/16/18 23:12	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/16/18 23:12	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/16/18 23:12	1
tert-Butylbenzene	ND		1.0		ug/L			04/16/18 23:12	1
Tetrachloroethene	ND		1.0		ug/L			04/16/18 23:12	1
Tetrahydrofuran	ND *		10		ug/L			04/16/18 23:12	1
Toluene	ND		1.0		ug/L			04/16/18 23:12	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/16/18 23:12	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/16/18 23:12	1
Trichloroethene	ND		1.0		ug/L			04/16/18 23:12	1
Trichlorofluoromethane	ND		1.0		ug/L			04/16/18 23:12	1
Vinyl chloride	ND		1.0		ug/L			04/16/18 23:12	1
Dibromomethane	ND		1.0		ug/L			04/16/18 23:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/16/18 23:12	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		04/16/18 23:12	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/16/18 23:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dioxane</b>	<b>1.5</b>		0.20		ug/L		04/12/18 09:38	04/12/18 19:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	108		46 - 130	04/12/18 09:38	04/12/18 19:19	1

## Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Iron</b>	<b>32</b>		0.050		mg/L		04/12/18 10:42	04/12/18 20:15	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>18</b>		1.0		mg/L			04/12/18 22:09	2
Sulfate	ND		4.0		mg/L			04/12/18 22:09	2
<b>Ammonia</b>	<b>0.24</b>		0.20		mg/L		04/12/18 20:14	04/13/18 16:13	1
<b>Nitrate as N</b>	<b>0.056</b>		0.050		mg/L			04/11/18 17:39	1
<b>TOC Result 1</b>	<b>1.8</b>		1.0		mg/L			04/14/18 11:14	1
<b>TOC Result 2</b>	<b>1.8</b>		1.0		mg/L			04/14/18 11:14	1
<b>Total Organic Carbon - Duplicates</b>	<b>1.8</b>		1.0		mg/L			04/14/18 11:14	1
<b>Alkalinity, Total</b>	<b>380</b>		5.0		mg/L			04/13/18 22:42	1
<b>ortho-Phosphate</b>	<b>0.028</b>		0.020		mg/L			04/11/18 12:43	1

TestAmerica Buffalo



# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-261S-20180410**

**Lab Sample ID: 480-133886-1**

Date Collected: 04/10/18 09:20

Matrix: Water

Date Received: 04/11/18 01:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.9	HF	0.1		SU			04/12/18 10:31	1
Temperature	21.5	HF	0.001		Degrees C			04/12/18 10:31	1

**Client Sample ID: MW-267S-20180410**

**Lab Sample ID: 480-133886-2**

Date Collected: 04/10/18 11:15

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20		ug/L			04/16/18 23:36	20
1,1,1-Trichloroethane	ND		20		ug/L			04/16/18 23:36	20
1,1,2,2-Tetrachloroethane	ND		10		ug/L			04/16/18 23:36	20
1,1,2-Trichloroethane	ND		20		ug/L			04/16/18 23:36	20
1,1-Dichloroethane	ND		20		ug/L			04/16/18 23:36	20
1,1-Dichloroethene	ND		20		ug/L			04/16/18 23:36	20
1,1-Dichloropropene	ND		20		ug/L			04/16/18 23:36	20
1,2,3-Trichlorobenzene	ND		20		ug/L			04/16/18 23:36	20
1,2,3-Trichloropropane	ND		20		ug/L			04/16/18 23:36	20
1,2,4-Trichlorobenzene	ND		20		ug/L			04/16/18 23:36	20
1,2,4-Trimethylbenzene	ND		20		ug/L			04/16/18 23:36	20
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			04/16/18 23:36	20
1,2-Dichlorobenzene	ND		20		ug/L			04/16/18 23:36	20
1,2-Dichloroethane	ND		20		ug/L			04/16/18 23:36	20
1,2-Dichloropropane	ND		20		ug/L			04/16/18 23:36	20
1,3,5-Trimethylbenzene	ND		20		ug/L			04/16/18 23:36	20
1,3-Dichlorobenzene	ND		20		ug/L			04/16/18 23:36	20
1,3-Dichloropropane	ND		20		ug/L			04/16/18 23:36	20
1,4-Dichlorobenzene	ND		20		ug/L			04/16/18 23:36	20
1,4-Dioxane	ND *		1000		ug/L			04/16/18 23:36	20
2,2-Dichloropropane	ND		20		ug/L			04/16/18 23:36	20
<b>2-Butanone (MEK)</b>	<b>550 *</b>		200		ug/L			04/16/18 23:36	20
2-Chlorotoluene	ND		20		ug/L			04/16/18 23:36	20
2-Hexanone	ND		200		ug/L			04/16/18 23:36	20
4-Chlorotoluene	ND		20		ug/L			04/16/18 23:36	20
4-Isopropyltoluene	ND		20		ug/L			04/16/18 23:36	20
4-Methyl-2-pentanone (MIBK)	ND		200		ug/L			04/16/18 23:36	20
Acetone	ND *		1000		ug/L			04/16/18 23:36	20
Benzene	ND		20		ug/L			04/16/18 23:36	20
Bromobenzene	ND		20		ug/L			04/16/18 23:36	20
Bromoform	ND		20		ug/L			04/16/18 23:36	20
Bromomethane	ND		40		ug/L			04/16/18 23:36	20
Carbon disulfide	ND		200		ug/L			04/16/18 23:36	20
Carbon tetrachloride	ND		20		ug/L			04/16/18 23:36	20
Chlorobenzene	ND		20		ug/L			04/16/18 23:36	20
Chlorobromomethane	ND		20		ug/L			04/16/18 23:36	20
Chlorodibromomethane	ND		10		ug/L			04/16/18 23:36	20
Chloroethane	ND		40		ug/L			04/16/18 23:36	20
Chloroform	ND		20		ug/L			04/16/18 23:36	20
Chloromethane	ND		40		ug/L			04/16/18 23:36	20
<b>cis-1,2-Dichloroethene</b>	<b>61</b>		20		ug/L			04/16/18 23:36	20
cis-1,3-Dichloropropene	ND		8.0		ug/L			04/16/18 23:36	20

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-267S-20180410**

**Lab Sample ID: 480-133886-2**

Date Collected: 04/10/18 11:15

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		10		ug/L			04/16/18 23:36	20
Dichlorodifluoromethane	ND		20		ug/L			04/16/18 23:36	20
Ethyl ether	ND		20		ug/L			04/16/18 23:36	20
Ethylbenzene	ND		20		ug/L			04/16/18 23:36	20
Ethylene Dibromide	ND		20		ug/L			04/16/18 23:36	20
Hexachlorobutadiene	ND		8.0		ug/L			04/16/18 23:36	20
Isopropyl ether	ND		200		ug/L			04/16/18 23:36	20
Isopropylbenzene	ND		20		ug/L			04/16/18 23:36	20
Methyl tert-butyl ether	ND		20		ug/L			04/16/18 23:36	20
Methylene Chloride	ND		20		ug/L			04/16/18 23:36	20
m-Xylene & p-Xylene	ND		40		ug/L			04/16/18 23:36	20
Naphthalene	ND		100		ug/L			04/16/18 23:36	20
n-Butylbenzene	ND		20		ug/L			04/16/18 23:36	20
N-Propylbenzene	ND		20		ug/L			04/16/18 23:36	20
o-Xylene	ND		20		ug/L			04/16/18 23:36	20
sec-Butylbenzene	ND		20		ug/L			04/16/18 23:36	20
Styrene	ND		20		ug/L			04/16/18 23:36	20
Tert-amyl methyl ether	ND		100		ug/L			04/16/18 23:36	20
Tert-butyl ethyl ether	ND		100		ug/L			04/16/18 23:36	20
tert-Butylbenzene	ND		20		ug/L			04/16/18 23:36	20
Tetrachloroethene	ND		20		ug/L			04/16/18 23:36	20
Tetrahydrofuran	ND	*	200		ug/L			04/16/18 23:36	20
<b>Toluene</b>	<b>61</b>		20		ug/L			04/16/18 23:36	20
trans-1,2-Dichloroethene	ND		20		ug/L			04/16/18 23:36	20
trans-1,3-Dichloropropene	ND		8.0		ug/L			04/16/18 23:36	20
Trichloroethene	ND		20		ug/L			04/16/18 23:36	20
Trichlorofluoromethane	ND		20		ug/L			04/16/18 23:36	20
Vinyl chloride	ND		20		ug/L			04/16/18 23:36	20
Dibromomethane	ND		20		ug/L			04/16/18 23:36	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/16/18 23:36	20
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		04/16/18 23:36	20
4-Bromofluorobenzene (Surr)	99		70 - 130		04/16/18 23:36	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/16/18 09:53	04/16/18 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	0	X	46 - 130	04/16/18 09:53	04/16/18 13:56	1

**Method: 6010 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Iron</b>	<b>410</b>		0.050		mg/L		04/12/18 10:42	04/12/18 20:44	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>81</b>		2.5		mg/L			04/13/18 03:20	5
<b>Sulfate</b>	<b>15</b>		10		mg/L			04/13/18 03:20	5
<b>Ammonia</b>	<b>0.41</b>		0.20		mg/L		04/12/18 20:14	04/13/18 16:14	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-267S-20180410**

**Lab Sample ID: 480-133886-2**

Date Collected: 04/10/18 11:15

Matrix: Water

Date Received: 04/11/18 01:00

**General Chemistry (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.050		mg/L			04/11/18 17:40	1
<b>TOC Result 1</b>	<b>1300</b>		40		mg/L			04/14/18 12:09	40
<b>TOC Result 2</b>	<b>1300</b>		40		mg/L			04/14/18 12:09	40
<b>Total Organic Carbon - Duplicates</b>	<b>1300</b>		40		mg/L			04/14/18 12:09	40
<b>Alkalinity, Total</b>	<b>740</b>		5.0		mg/L			04/13/18 22:54	1
<b>ortho-Phosphate</b>	<b>0.16</b>		0.020		mg/L			04/11/18 12:43	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>5.3</b>	<b>HF</b>	0.1		SU			04/12/18 10:37	1
<b>Temperature</b>	<b>21.4</b>	<b>HF</b>	0.001		Degrees C			04/12/18 10:37	1

**Client Sample ID: MW-267M-20180410**

**Lab Sample ID: 480-133886-3**

Date Collected: 04/10/18 12:00

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0		ug/L			04/17/18 00:00	4
1,1,1-Trichloroethane	ND		4.0		ug/L			04/17/18 00:00	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			04/17/18 00:00	4
1,1,2-Trichloroethane	ND		4.0		ug/L			04/17/18 00:00	4
1,1-Dichloroethane	ND		4.0		ug/L			04/17/18 00:00	4
1,1-Dichloroethene	ND		4.0		ug/L			04/17/18 00:00	4
1,1-Dichloropropene	ND		4.0		ug/L			04/17/18 00:00	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			04/17/18 00:00	4
1,2,3-Trichloropropane	ND		4.0		ug/L			04/17/18 00:00	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			04/17/18 00:00	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			04/17/18 00:00	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			04/17/18 00:00	4
1,2-Dichlorobenzene	ND		4.0		ug/L			04/17/18 00:00	4
1,2-Dichloroethane	ND		4.0		ug/L			04/17/18 00:00	4
1,2-Dichloropropane	ND		4.0		ug/L			04/17/18 00:00	4
1,3,5-Trimethylbenzene	ND		4.0		ug/L			04/17/18 00:00	4
1,3-Dichlorobenzene	ND		4.0		ug/L			04/17/18 00:00	4
1,3-Dichloropropane	ND		4.0		ug/L			04/17/18 00:00	4
1,4-Dichlorobenzene	ND		4.0		ug/L			04/17/18 00:00	4
1,4-Dioxane	ND	*	200		ug/L			04/17/18 00:00	4
2,2-Dichloropropane	ND		4.0		ug/L			04/17/18 00:00	4
2-Butanone (MEK)	ND	*	40		ug/L			04/17/18 00:00	4
2-Chlorotoluene	ND		4.0		ug/L			04/17/18 00:00	4
2-Hexanone	ND		40		ug/L			04/17/18 00:00	4
4-Chlorotoluene	ND		4.0		ug/L			04/17/18 00:00	4
4-Isopropyltoluene	ND		4.0		ug/L			04/17/18 00:00	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			04/17/18 00:00	4
Acetone	ND	*	200		ug/L			04/17/18 00:00	4
Benzene	ND		4.0		ug/L			04/17/18 00:00	4
Bromobenzene	ND		4.0		ug/L			04/17/18 00:00	4
Bromoform	ND		4.0		ug/L			04/17/18 00:00	4
Bromomethane	ND		8.0		ug/L			04/17/18 00:00	4
Carbon disulfide	ND		40		ug/L			04/17/18 00:00	4

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-267M-20180410**

**Lab Sample ID: 480-133886-3**

Date Collected: 04/10/18 12:00

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		4.0		ug/L			04/17/18 00:00	4
Chlorobenzene	ND		4.0		ug/L			04/17/18 00:00	4
Chlorobromomethane	ND		4.0		ug/L			04/17/18 00:00	4
Chlorodibromomethane	ND		2.0		ug/L			04/17/18 00:00	4
Chloroethane	ND		8.0		ug/L			04/17/18 00:00	4
Chloroform	ND		4.0		ug/L			04/17/18 00:00	4
Chloromethane	ND		8.0		ug/L			04/17/18 00:00	4
cis-1,2-Dichloroethene	ND		4.0		ug/L			04/17/18 00:00	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			04/17/18 00:00	4
Dichlorobromomethane	ND		2.0		ug/L			04/17/18 00:00	4
Dichlorodifluoromethane	ND		4.0		ug/L			04/17/18 00:00	4
Ethyl ether	ND		4.0		ug/L			04/17/18 00:00	4
Ethylbenzene	ND		4.0		ug/L			04/17/18 00:00	4
Ethylene Dibromide	ND		4.0		ug/L			04/17/18 00:00	4
Hexachlorobutadiene	ND		1.6		ug/L			04/17/18 00:00	4
Isopropyl ether	ND		40		ug/L			04/17/18 00:00	4
Isopropylbenzene	ND		4.0		ug/L			04/17/18 00:00	4
Methyl tert-butyl ether	ND		4.0		ug/L			04/17/18 00:00	4
Methylene Chloride	ND		4.0		ug/L			04/17/18 00:00	4
m-Xylene & p-Xylene	ND		8.0		ug/L			04/17/18 00:00	4
Naphthalene	ND		20		ug/L			04/17/18 00:00	4
n-Butylbenzene	ND		4.0		ug/L			04/17/18 00:00	4
N-Propylbenzene	ND		4.0		ug/L			04/17/18 00:00	4
o-Xylene	ND		4.0		ug/L			04/17/18 00:00	4
sec-Butylbenzene	ND		4.0		ug/L			04/17/18 00:00	4
Styrene	ND		4.0		ug/L			04/17/18 00:00	4
Tert-amyl methyl ether	ND		20		ug/L			04/17/18 00:00	4
Tert-butyl ethyl ether	ND		20		ug/L			04/17/18 00:00	4
tert-Butylbenzene	ND		4.0		ug/L			04/17/18 00:00	4
Tetrachloroethene	ND		4.0		ug/L			04/17/18 00:00	4
Tetrahydrofuran	ND	*	40		ug/L			04/17/18 00:00	4
Toluene	ND		4.0		ug/L			04/17/18 00:00	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			04/17/18 00:00	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			04/17/18 00:00	4
Trichloroethene	ND		4.0		ug/L			04/17/18 00:00	4
Trichlorofluoromethane	ND		4.0		ug/L			04/17/18 00:00	4
Vinyl chloride	ND		4.0		ug/L			04/17/18 00:00	4
Dibromomethane	ND		4.0		ug/L			04/17/18 00:00	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/17/18 00:00	4
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/17/18 00:00	4
4-Bromofluorobenzene (Surr)	103		70 - 130		04/17/18 00:00	4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.4		0.20		ug/L		04/12/18 09:38	04/13/18 10:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	86		46 - 130	04/12/18 09:38	04/13/18 10:45	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-268S-20180410**

**Lab Sample ID: 480-133886-4**

Date Collected: 04/10/18 07:15

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0		ug/L			04/17/18 00:24	4
1,1,1-Trichloroethane	ND		4.0		ug/L			04/17/18 00:24	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			04/17/18 00:24	4
1,1,2-Trichloroethane	ND		4.0		ug/L			04/17/18 00:24	4
1,1-Dichloroethane	ND		4.0		ug/L			04/17/18 00:24	4
1,1-Dichloroethene	ND		4.0		ug/L			04/17/18 00:24	4
1,1-Dichloropropene	ND		4.0		ug/L			04/17/18 00:24	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			04/17/18 00:24	4
1,2,3-Trichloropropane	ND		4.0		ug/L			04/17/18 00:24	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			04/17/18 00:24	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			04/17/18 00:24	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			04/17/18 00:24	4
1,2-Dichlorobenzene	ND		4.0		ug/L			04/17/18 00:24	4
1,2-Dichloroethane	ND		4.0		ug/L			04/17/18 00:24	4
1,2-Dichloropropane	ND		4.0		ug/L			04/17/18 00:24	4
1,3,5-Trimethylbenzene	ND		4.0		ug/L			04/17/18 00:24	4
1,3-Dichlorobenzene	ND		4.0		ug/L			04/17/18 00:24	4
1,3-Dichloropropane	ND		4.0		ug/L			04/17/18 00:24	4
1,4-Dichlorobenzene	ND		4.0		ug/L			04/17/18 00:24	4
1,4-Dioxane	ND *		200		ug/L			04/17/18 00:24	4
2,2-Dichloropropane	ND		4.0		ug/L			04/17/18 00:24	4
2-Butanone (MEK)	ND *		40		ug/L			04/17/18 00:24	4
2-Chlorotoluene	ND		4.0		ug/L			04/17/18 00:24	4
2-Hexanone	ND		40		ug/L			04/17/18 00:24	4
4-Chlorotoluene	ND		4.0		ug/L			04/17/18 00:24	4
4-Isopropyltoluene	ND		4.0		ug/L			04/17/18 00:24	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			04/17/18 00:24	4
Acetone	ND *		200		ug/L			04/17/18 00:24	4
Benzene	ND		4.0		ug/L			04/17/18 00:24	4
Bromobenzene	ND		4.0		ug/L			04/17/18 00:24	4
Bromoform	ND		4.0		ug/L			04/17/18 00:24	4
Bromomethane	ND		8.0		ug/L			04/17/18 00:24	4
Carbon disulfide	ND		40		ug/L			04/17/18 00:24	4
Carbon tetrachloride	ND		4.0		ug/L			04/17/18 00:24	4
Chlorobenzene	ND		4.0		ug/L			04/17/18 00:24	4
Chlorobromomethane	ND		4.0		ug/L			04/17/18 00:24	4
Chlorodibromomethane	ND		2.0		ug/L			04/17/18 00:24	4
Chloroethane	ND		8.0		ug/L			04/17/18 00:24	4
Chloroform	ND		4.0		ug/L			04/17/18 00:24	4
Chloromethane	ND		8.0		ug/L			04/17/18 00:24	4
<b>cis-1,2-Dichloroethene</b>	<b>97</b>		4.0		ug/L			04/17/18 00:24	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			04/17/18 00:24	4
Dichlorobromomethane	ND		2.0		ug/L			04/17/18 00:24	4
Dichlorodifluoromethane	ND		4.0		ug/L			04/17/18 00:24	4
Ethyl ether	ND		4.0		ug/L			04/17/18 00:24	4
Ethylbenzene	ND		4.0		ug/L			04/17/18 00:24	4
Ethylene Dibromide	ND		4.0		ug/L			04/17/18 00:24	4
Hexachlorobutadiene	ND		1.6		ug/L			04/17/18 00:24	4
Isopropyl ether	ND		40		ug/L			04/17/18 00:24	4

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-268S-20180410**

**Lab Sample ID: 480-133886-4**

Date Collected: 04/10/18 07:15

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		4.0		ug/L			04/17/18 00:24	4
Methyl tert-butyl ether	ND		4.0		ug/L			04/17/18 00:24	4
Methylene Chloride	ND		4.0		ug/L			04/17/18 00:24	4
m-Xylene & p-Xylene	ND		8.0		ug/L			04/17/18 00:24	4
Naphthalene	ND		20		ug/L			04/17/18 00:24	4
n-Butylbenzene	ND		4.0		ug/L			04/17/18 00:24	4
N-Propylbenzene	ND		4.0		ug/L			04/17/18 00:24	4
o-Xylene	ND		4.0		ug/L			04/17/18 00:24	4
sec-Butylbenzene	ND		4.0		ug/L			04/17/18 00:24	4
Styrene	ND		4.0		ug/L			04/17/18 00:24	4
Tert-amyl methyl ether	ND		20		ug/L			04/17/18 00:24	4
Tert-butyl ethyl ether	ND		20		ug/L			04/17/18 00:24	4
tert-Butylbenzene	ND		4.0		ug/L			04/17/18 00:24	4
Tetrachloroethene	ND		4.0		ug/L			04/17/18 00:24	4
Tetrahydrofuran	ND	*	40		ug/L			04/17/18 00:24	4
Toluene	ND		4.0		ug/L			04/17/18 00:24	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			04/17/18 00:24	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			04/17/18 00:24	4
<b>Trichloroethene</b>	<b>250</b>		4.0		ug/L			04/17/18 00:24	4
Trichlorofluoromethane	ND		4.0		ug/L			04/17/18 00:24	4
Vinyl chloride	ND		4.0		ug/L			04/17/18 00:24	4
Dibromomethane	ND		4.0		ug/L			04/17/18 00:24	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130		04/17/18 00:24	4
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		04/17/18 00:24	4
4-Bromofluorobenzene (Surr)	98		70 - 130		04/17/18 00:24	4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dioxane</b>	<b>19</b>		0.40		ug/L		04/12/18 09:38	04/13/18 11:00	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	118		46 - 130	04/12/18 09:38	04/13/18 11:00	2

**Method: 6010 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Iron</b>	<b>0.38</b>		0.050		mg/L		04/12/18 10:42	04/12/18 20:51	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>17</b>		0.50		mg/L			04/13/18 03:34	1
<b>Sulfate</b>	<b>24</b>		2.0		mg/L			04/13/18 03:34	1
Ammonia	ND		0.20		mg/L		04/12/18 20:14	04/13/18 16:15	1
Nitrate as N	ND		0.050		mg/L			04/11/18 12:42	1
<b>TOC Result 1</b>	<b>27</b>		1.0		mg/L			04/14/18 13:05	1
<b>TOC Result 2</b>	<b>28</b>		1.0		mg/L			04/14/18 13:05	1
<b>Total Organic Carbon - Duplicates</b>	<b>28</b>		1.0		mg/L			04/14/18 13:05	1
<b>Alkalinity, Total</b>	<b>93</b>		5.0		mg/L			04/13/18 23:01	1
<b>ortho-Phosphate</b>	<b>0.080</b>		0.020		mg/L			04/11/18 12:43	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-268S-20180410**

**Lab Sample ID: 480-133886-4**

Date Collected: 04/10/18 07:15

Matrix: Water

Date Received: 04/11/18 01:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.9	HF	0.1		SU			04/12/18 10:39	1
Temperature	21.4	HF	0.001		Degrees C			04/12/18 10:39	1

**Client Sample ID: MW-268M-20180410**

**Lab Sample ID: 480-133886-5**

Date Collected: 04/10/18 08:00

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			04/17/18 00:48	2
1,1,1-Trichloroethane	ND		2.0		ug/L			04/17/18 00:48	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/17/18 00:48	2
1,1,2-Trichloroethane	ND		2.0		ug/L			04/17/18 00:48	2
<b>1,1-Dichloroethane</b>	<b>2.6</b>		2.0		ug/L			04/17/18 00:48	2
1,1-Dichloroethene	ND		2.0		ug/L			04/17/18 00:48	2
1,1-Dichloropropene	ND		2.0		ug/L			04/17/18 00:48	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			04/17/18 00:48	2
1,2,3-Trichloropropane	ND		2.0		ug/L			04/17/18 00:48	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			04/17/18 00:48	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			04/17/18 00:48	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			04/17/18 00:48	2
1,2-Dichlorobenzene	ND		2.0		ug/L			04/17/18 00:48	2
1,2-Dichloroethane	ND		2.0		ug/L			04/17/18 00:48	2
1,2-Dichloropropane	ND		2.0		ug/L			04/17/18 00:48	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			04/17/18 00:48	2
1,3-Dichlorobenzene	ND		2.0		ug/L			04/17/18 00:48	2
1,3-Dichloropropane	ND		2.0		ug/L			04/17/18 00:48	2
1,4-Dichlorobenzene	ND		2.0		ug/L			04/17/18 00:48	2
1,4-Dioxane	ND *		100		ug/L			04/17/18 00:48	2
2,2-Dichloropropane	ND		2.0		ug/L			04/17/18 00:48	2
2-Butanone (MEK)	ND *		20		ug/L			04/17/18 00:48	2
2-Chlorotoluene	ND		2.0		ug/L			04/17/18 00:48	2
2-Hexanone	ND		20		ug/L			04/17/18 00:48	2
4-Chlorotoluene	ND		2.0		ug/L			04/17/18 00:48	2
4-Isopropyltoluene	ND		2.0		ug/L			04/17/18 00:48	2
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			04/17/18 00:48	2
Acetone	ND *		100		ug/L			04/17/18 00:48	2
Benzene	ND		2.0		ug/L			04/17/18 00:48	2
Bromobenzene	ND		2.0		ug/L			04/17/18 00:48	2
Bromoform	ND		2.0		ug/L			04/17/18 00:48	2
Bromomethane	ND		4.0		ug/L			04/17/18 00:48	2
Carbon disulfide	ND		20		ug/L			04/17/18 00:48	2
Carbon tetrachloride	ND		2.0		ug/L			04/17/18 00:48	2
Chlorobenzene	ND		2.0		ug/L			04/17/18 00:48	2
Chlorobromomethane	ND		2.0		ug/L			04/17/18 00:48	2
Chlorodibromomethane	ND		1.0		ug/L			04/17/18 00:48	2
Chloroethane	ND		4.0		ug/L			04/17/18 00:48	2
Chloroform	ND		2.0		ug/L			04/17/18 00:48	2
Chloromethane	ND		4.0		ug/L			04/17/18 00:48	2
<b>cis-1,2-Dichloroethene</b>	<b>22</b>		2.0		ug/L			04/17/18 00:48	2
cis-1,3-Dichloropropene	ND		0.80		ug/L			04/17/18 00:48	2

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-268M-20180410**

**Lab Sample ID: 480-133886-5**

Date Collected: 04/10/18 08:00

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		1.0		ug/L			04/17/18 00:48	2
Dichlorodifluoromethane	ND		2.0		ug/L			04/17/18 00:48	2
Ethyl ether	ND		2.0		ug/L			04/17/18 00:48	2
Ethylbenzene	ND		2.0		ug/L			04/17/18 00:48	2
Ethylene Dibromide	ND		2.0		ug/L			04/17/18 00:48	2
Hexachlorobutadiene	ND		0.80		ug/L			04/17/18 00:48	2
Isopropyl ether	ND		20		ug/L			04/17/18 00:48	2
Isopropylbenzene	ND		2.0		ug/L			04/17/18 00:48	2
Methyl tert-butyl ether	ND		2.0		ug/L			04/17/18 00:48	2
Methylene Chloride	ND		2.0		ug/L			04/17/18 00:48	2
m-Xylene & p-Xylene	ND		4.0		ug/L			04/17/18 00:48	2
Naphthalene	ND		10		ug/L			04/17/18 00:48	2
n-Butylbenzene	ND		2.0		ug/L			04/17/18 00:48	2
N-Propylbenzene	ND		2.0		ug/L			04/17/18 00:48	2
o-Xylene	ND		2.0		ug/L			04/17/18 00:48	2
sec-Butylbenzene	ND		2.0		ug/L			04/17/18 00:48	2
Styrene	ND		2.0		ug/L			04/17/18 00:48	2
Tert-amyl methyl ether	ND		10		ug/L			04/17/18 00:48	2
Tert-butyl ethyl ether	ND		10		ug/L			04/17/18 00:48	2
tert-Butylbenzene	ND		2.0		ug/L			04/17/18 00:48	2
Tetrachloroethene	ND		2.0		ug/L			04/17/18 00:48	2
Tetrahydrofuran	ND *		20		ug/L			04/17/18 00:48	2
<b>Toluene</b>	<b>3.9</b>		2.0		ug/L			04/17/18 00:48	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			04/17/18 00:48	2
trans-1,3-Dichloropropene	ND		0.80		ug/L			04/17/18 00:48	2
Trichloroethene	ND		2.0		ug/L			04/17/18 00:48	2
Trichlorofluoromethane	ND		2.0		ug/L			04/17/18 00:48	2
<b>Vinyl chloride</b>	<b>70</b>		2.0		ug/L			04/17/18 00:48	2
Dibromomethane	ND		2.0		ug/L			04/17/18 00:48	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/17/18 00:48	2
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/17/18 00:48	2
4-Bromofluorobenzene (Surr)	99		70 - 130		04/17/18 00:48	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dioxane</b>	<b>8.9</b>		0.20		ug/L		04/12/18 09:38	04/12/18 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	113		46 - 130	04/12/18 09:38	04/12/18 20:20	1

**Method: 6010 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Iron</b>	<b>41</b>		0.050		mg/L		04/12/18 10:42	04/12/18 20:55	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>37</b>		1.0		mg/L			04/13/18 03:49	2
Sulfate	ND		4.0		mg/L			04/13/18 03:49	2
<b>Ammonia</b>	<b>0.28</b>		0.20		mg/L		04/12/18 20:14	04/13/18 16:16	1

TestAmerica Buffalo



# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-268M-20180410**

**Lab Sample ID: 480-133886-5**

Date Collected: 04/10/18 08:00

Matrix: Water

Date Received: 04/11/18 01:00

**General Chemistry (Continued)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.050		mg/L			04/11/18 17:41	1
<b>TOC Result 1</b>	<b>3.1</b>		1.0		mg/L			04/14/18 13:33	1
<b>TOC Result 2</b>	<b>2.9</b>		1.0		mg/L			04/14/18 13:33	1
<b>Total Organic Carbon - Duplicates</b>	<b>3.0</b>		1.0		mg/L			04/14/18 13:33	1
<b>Alkalinity, Total</b>	<b>360</b>		5.0		mg/L			04/13/18 23:08	1
ortho-Phosphate	ND		0.020		mg/L			04/11/18 12:43	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>7.0</b>	<b>HF</b>	0.1		SU			04/12/18 10:42	1
<b>Temperature</b>	<b>21.5</b>	<b>HF</b>	0.001		Degrees C			04/12/18 10:42	1

**Client Sample ID: MW-268D-20180410**

**Lab Sample ID: 480-133886-6**

Date Collected: 04/10/18 08:45

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			04/17/18 01:11	2
1,1,1-Trichloroethane	ND		2.0		ug/L			04/17/18 01:11	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/17/18 01:11	2
1,1,2-Trichloroethane	ND		2.0		ug/L			04/17/18 01:11	2
1,1-Dichloroethane	ND		2.0		ug/L			04/17/18 01:11	2
1,1-Dichloroethene	ND		2.0		ug/L			04/17/18 01:11	2
1,1-Dichloropropene	ND		2.0		ug/L			04/17/18 01:11	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			04/17/18 01:11	2
1,2,3-Trichloropropane	ND		2.0		ug/L			04/17/18 01:11	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			04/17/18 01:11	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			04/17/18 01:11	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			04/17/18 01:11	2
1,2-Dichlorobenzene	ND		2.0		ug/L			04/17/18 01:11	2
1,2-Dichloroethane	ND		2.0		ug/L			04/17/18 01:11	2
1,2-Dichloropropane	ND		2.0		ug/L			04/17/18 01:11	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			04/17/18 01:11	2
1,3-Dichlorobenzene	ND		2.0		ug/L			04/17/18 01:11	2
1,3-Dichloropropane	ND		2.0		ug/L			04/17/18 01:11	2
1,4-Dichlorobenzene	ND		2.0		ug/L			04/17/18 01:11	2
1,4-Dioxane	ND	*	100		ug/L			04/17/18 01:11	2
2,2-Dichloropropane	ND		2.0		ug/L			04/17/18 01:11	2
2-Butanone (MEK)	ND	*	20		ug/L			04/17/18 01:11	2
2-Chlorotoluene	ND		2.0		ug/L			04/17/18 01:11	2
2-Hexanone	ND		20		ug/L			04/17/18 01:11	2
4-Chlorotoluene	ND		2.0		ug/L			04/17/18 01:11	2
4-Isopropyltoluene	ND		2.0		ug/L			04/17/18 01:11	2
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			04/17/18 01:11	2
Acetone	ND	*	100		ug/L			04/17/18 01:11	2
Benzene	ND		2.0		ug/L			04/17/18 01:11	2
Bromobenzene	ND		2.0		ug/L			04/17/18 01:11	2
Bromoform	ND		2.0		ug/L			04/17/18 01:11	2
Bromomethane	ND		4.0		ug/L			04/17/18 01:11	2
Carbon disulfide	ND		20		ug/L			04/17/18 01:11	2

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-268D-20180410**

**Lab Sample ID: 480-133886-6**

Date Collected: 04/10/18 08:45

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		2.0		ug/L			04/17/18 01:11	2
Chlorobenzene	ND		2.0		ug/L			04/17/18 01:11	2
Chlorobromomethane	ND		2.0		ug/L			04/17/18 01:11	2
Chlorodibromomethane	ND		1.0		ug/L			04/17/18 01:11	2
Chloroethane	ND		4.0		ug/L			04/17/18 01:11	2
Chloroform	ND		2.0		ug/L			04/17/18 01:11	2
Chloromethane	ND		4.0		ug/L			04/17/18 01:11	2
cis-1,2-Dichloroethene	ND		2.0		ug/L			04/17/18 01:11	2
cis-1,3-Dichloropropene	ND		0.80		ug/L			04/17/18 01:11	2
Dichlorobromomethane	ND		1.0		ug/L			04/17/18 01:11	2
Dichlorodifluoromethane	ND		2.0		ug/L			04/17/18 01:11	2
Ethyl ether	ND		2.0		ug/L			04/17/18 01:11	2
Ethylbenzene	ND		2.0		ug/L			04/17/18 01:11	2
Ethylene Dibromide	ND		2.0		ug/L			04/17/18 01:11	2
Hexachlorobutadiene	ND		0.80		ug/L			04/17/18 01:11	2
Isopropyl ether	ND		20		ug/L			04/17/18 01:11	2
Isopropylbenzene	ND		2.0		ug/L			04/17/18 01:11	2
Methyl tert-butyl ether	ND		2.0		ug/L			04/17/18 01:11	2
Methylene Chloride	ND		2.0		ug/L			04/17/18 01:11	2
m-Xylene & p-Xylene	ND		4.0		ug/L			04/17/18 01:11	2
Naphthalene	ND		10		ug/L			04/17/18 01:11	2
n-Butylbenzene	ND		2.0		ug/L			04/17/18 01:11	2
N-Propylbenzene	ND		2.0		ug/L			04/17/18 01:11	2
o-Xylene	ND		2.0		ug/L			04/17/18 01:11	2
sec-Butylbenzene	ND		2.0		ug/L			04/17/18 01:11	2
Styrene	ND		2.0		ug/L			04/17/18 01:11	2
Tert-amyl methyl ether	ND		10		ug/L			04/17/18 01:11	2
Tert-butyl ethyl ether	ND		10		ug/L			04/17/18 01:11	2
tert-Butylbenzene	ND		2.0		ug/L			04/17/18 01:11	2
Tetrachloroethene	ND		2.0		ug/L			04/17/18 01:11	2
Tetrahydrofuran	ND	*	20		ug/L			04/17/18 01:11	2
Toluene	ND		2.0		ug/L			04/17/18 01:11	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			04/17/18 01:11	2
trans-1,3-Dichloropropene	ND		0.80		ug/L			04/17/18 01:11	2
Trichloroethene	ND		2.0		ug/L			04/17/18 01:11	2
Trichlorofluoromethane	ND		2.0		ug/L			04/17/18 01:11	2
Vinyl chloride	ND		2.0		ug/L			04/17/18 01:11	2
Dibromomethane	ND		2.0		ug/L			04/17/18 01:11	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130		04/17/18 01:11	2
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/17/18 01:11	2
4-Bromofluorobenzene (Surr)	97		70 - 130		04/17/18 01:11	2

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-551-20180410**

**Lab Sample ID: 480-133886-7**

Date Collected: 04/10/18 11:10

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/17/18 01:35	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/17/18 01:35	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/17/18 01:35	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/17/18 01:35	1
1,1-Dichloroethane	ND		1.0		ug/L			04/17/18 01:35	1
1,1-Dichloroethene	ND		1.0		ug/L			04/17/18 01:35	1
1,1-Dichloropropene	ND		1.0		ug/L			04/17/18 01:35	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/17/18 01:35	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/17/18 01:35	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/17/18 01:35	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/17/18 01:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/17/18 01:35	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/17/18 01:35	1
1,2-Dichloroethane	ND		1.0		ug/L			04/17/18 01:35	1
1,2-Dichloropropane	ND		1.0		ug/L			04/17/18 01:35	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/17/18 01:35	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/17/18 01:35	1
1,3-Dichloropropane	ND		1.0		ug/L			04/17/18 01:35	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/17/18 01:35	1
1,4-Dioxane	ND *		50		ug/L			04/17/18 01:35	1
2,2-Dichloropropane	ND		1.0		ug/L			04/17/18 01:35	1
2-Butanone (MEK)	ND *		10		ug/L			04/17/18 01:35	1
2-Chlorotoluene	ND		1.0		ug/L			04/17/18 01:35	1
2-Hexanone	ND		10		ug/L			04/17/18 01:35	1
4-Chlorotoluene	ND		1.0		ug/L			04/17/18 01:35	1
4-Isopropyltoluene	ND		1.0		ug/L			04/17/18 01:35	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/17/18 01:35	1
Acetone	ND *		50		ug/L			04/17/18 01:35	1
Benzene	ND		1.0		ug/L			04/17/18 01:35	1
Bromobenzene	ND		1.0		ug/L			04/17/18 01:35	1
Bromoform	ND		1.0		ug/L			04/17/18 01:35	1
Bromomethane	ND		2.0		ug/L			04/17/18 01:35	1
Carbon disulfide	ND		10		ug/L			04/17/18 01:35	1
Carbon tetrachloride	ND		1.0		ug/L			04/17/18 01:35	1
Chlorobenzene	ND		1.0		ug/L			04/17/18 01:35	1
Chlorobromomethane	ND		1.0		ug/L			04/17/18 01:35	1
Chlorodibromomethane	ND		0.50		ug/L			04/17/18 01:35	1
Chloroethane	ND		2.0		ug/L			04/17/18 01:35	1
Chloroform	ND		1.0		ug/L			04/17/18 01:35	1
Chloromethane	ND		2.0		ug/L			04/17/18 01:35	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/17/18 01:35	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/17/18 01:35	1
Dichlorobromomethane	ND		0.50		ug/L			04/17/18 01:35	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/17/18 01:35	1
Ethyl ether	ND		1.0		ug/L			04/17/18 01:35	1
Ethylbenzene	ND		1.0		ug/L			04/17/18 01:35	1
Ethylene Dibromide	ND		1.0		ug/L			04/17/18 01:35	1
Hexachlorobutadiene	ND		0.40		ug/L			04/17/18 01:35	1
Isopropyl ether	ND		10		ug/L			04/17/18 01:35	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-551-20180410**

**Lab Sample ID: 480-133886-7**

Date Collected: 04/10/18 11:10

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/17/18 01:35	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/17/18 01:35	1
Methylene Chloride	ND		1.0		ug/L			04/17/18 01:35	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/17/18 01:35	1
Naphthalene	ND		5.0		ug/L			04/17/18 01:35	1
n-Butylbenzene	ND		1.0		ug/L			04/17/18 01:35	1
N-Propylbenzene	ND		1.0		ug/L			04/17/18 01:35	1
o-Xylene	ND		1.0		ug/L			04/17/18 01:35	1
sec-Butylbenzene	ND		1.0		ug/L			04/17/18 01:35	1
Styrene	ND		1.0		ug/L			04/17/18 01:35	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/17/18 01:35	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/17/18 01:35	1
tert-Butylbenzene	ND		1.0		ug/L			04/17/18 01:35	1
Tetrachloroethene	ND		1.0		ug/L			04/17/18 01:35	1
Tetrahydrofuran	ND	*	10		ug/L			04/17/18 01:35	1
Toluene	ND		1.0		ug/L			04/17/18 01:35	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/17/18 01:35	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/17/18 01:35	1
Trichloroethene	ND		1.0		ug/L			04/17/18 01:35	1
Trichlorofluoromethane	ND		1.0		ug/L			04/17/18 01:35	1
Vinyl chloride	ND		1.0		ug/L			04/17/18 01:35	1
Dibromomethane	ND		1.0		ug/L			04/17/18 01:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130		04/17/18 01:35	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		04/17/18 01:35	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/17/18 01:35	1

**Client Sample ID: MW-552-20180410**

**Lab Sample ID: 480-133886-8**

Date Collected: 04/10/18 10:20

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/17/18 01:59	1
1,1,1,1-Trichloroethane	ND		1.0		ug/L			04/17/18 01:59	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/17/18 01:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/17/18 01:59	1
1,1-Dichloroethane	ND		1.0		ug/L			04/17/18 01:59	1
1,1-Dichloroethene	ND		1.0		ug/L			04/17/18 01:59	1
1,1-Dichloropropene	ND		1.0		ug/L			04/17/18 01:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/17/18 01:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/17/18 01:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/17/18 01:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/17/18 01:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/17/18 01:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/17/18 01:59	1
1,2-Dichloroethane	ND		1.0		ug/L			04/17/18 01:59	1
1,2-Dichloropropane	ND		1.0		ug/L			04/17/18 01:59	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/17/18 01:59	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-552-20180410**

**Lab Sample ID: 480-133886-8**

Date Collected: 04/10/18 10:20

Matrix: Water

Date Received: 04/11/18 01:00

**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			04/17/18 01:59	1
1,3-Dichloropropane	ND		1.0		ug/L			04/17/18 01:59	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/17/18 01:59	1
1,4-Dioxane	ND	*	50		ug/L			04/17/18 01:59	1
2,2-Dichloropropane	ND		1.0		ug/L			04/17/18 01:59	1
2-Butanone (MEK)	ND	*	10		ug/L			04/17/18 01:59	1
2-Chlorotoluene	ND		1.0		ug/L			04/17/18 01:59	1
2-Hexanone	ND		10		ug/L			04/17/18 01:59	1
4-Chlorotoluene	ND		1.0		ug/L			04/17/18 01:59	1
4-Isopropyltoluene	ND		1.0		ug/L			04/17/18 01:59	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/17/18 01:59	1
Acetone	ND	*	50		ug/L			04/17/18 01:59	1
Benzene	ND		1.0		ug/L			04/17/18 01:59	1
Bromobenzene	ND		1.0		ug/L			04/17/18 01:59	1
Bromoform	ND		1.0		ug/L			04/17/18 01:59	1
Bromomethane	ND		2.0		ug/L			04/17/18 01:59	1
Carbon disulfide	ND		10		ug/L			04/17/18 01:59	1
Carbon tetrachloride	ND		1.0		ug/L			04/17/18 01:59	1
Chlorobenzene	ND		1.0		ug/L			04/17/18 01:59	1
Chlorobromomethane	ND		1.0		ug/L			04/17/18 01:59	1
Chlorodibromomethane	ND		0.50		ug/L			04/17/18 01:59	1
Chloroethane	ND		2.0		ug/L			04/17/18 01:59	1
Chloroform	ND		1.0		ug/L			04/17/18 01:59	1
Chloromethane	ND		2.0		ug/L			04/17/18 01:59	1
<b>cis-1,2-Dichloroethene</b>	<b>1.0</b>		1.0		ug/L			04/17/18 01:59	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/17/18 01:59	1
Dichlorobromomethane	ND		0.50		ug/L			04/17/18 01:59	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/17/18 01:59	1
Ethyl ether	ND		1.0		ug/L			04/17/18 01:59	1
Ethylbenzene	ND		1.0		ug/L			04/17/18 01:59	1
Ethylene Dibromide	ND		1.0		ug/L			04/17/18 01:59	1
Hexachlorobutadiene	ND		0.40		ug/L			04/17/18 01:59	1
Isopropyl ether	ND		10		ug/L			04/17/18 01:59	1
Isopropylbenzene	ND		1.0		ug/L			04/17/18 01:59	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/17/18 01:59	1
Methylene Chloride	ND		1.0		ug/L			04/17/18 01:59	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/17/18 01:59	1
Naphthalene	ND		5.0		ug/L			04/17/18 01:59	1
n-Butylbenzene	ND		1.0		ug/L			04/17/18 01:59	1
N-Propylbenzene	ND		1.0		ug/L			04/17/18 01:59	1
o-Xylene	ND		1.0		ug/L			04/17/18 01:59	1
sec-Butylbenzene	ND		1.0		ug/L			04/17/18 01:59	1
Styrene	ND		1.0		ug/L			04/17/18 01:59	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/17/18 01:59	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/17/18 01:59	1
tert-Butylbenzene	ND		1.0		ug/L			04/17/18 01:59	1
Tetrachloroethene	ND		1.0		ug/L			04/17/18 01:59	1
Tetrahydrofuran	ND	*	10		ug/L			04/17/18 01:59	1
Toluene	ND		1.0		ug/L			04/17/18 01:59	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-552-20180410**

**Lab Sample ID: 480-133886-8**

Date Collected: 04/10/18 10:20

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/17/18 01:59	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/17/18 01:59	1
Trichloroethene	ND		1.0		ug/L			04/17/18 01:59	1
Trichlorofluoromethane	ND		1.0		ug/L			04/17/18 01:59	1
Vinyl chloride	ND		1.0		ug/L			04/17/18 01:59	1
Dibromomethane	ND		1.0		ug/L			04/17/18 01:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/17/18 01:59	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		04/17/18 01:59	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/17/18 01:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.69		0.20		ug/L		04/12/18 09:38	04/13/18 11:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	113		46 - 130	04/12/18 09:38	04/13/18 11:16	1

**Method: 6010 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	16		0.050		mg/L		04/12/18 10:42	04/12/18 20:59	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10		1.0		mg/L			04/13/18 04:03	2
Sulfate	ND		4.0		mg/L			04/13/18 04:03	2
Ammonia	0.28		0.20		mg/L		04/12/18 20:14	04/13/18 16:16	1
Nitrate as N	ND		0.050		mg/L			04/11/18 12:47	1
TOC Result 1	1.5		1.0		mg/L			04/14/18 14:01	1
TOC Result 2	1.4		1.0		mg/L			04/14/18 14:01	1
Total Organic Carbon - Duplicates	1.4		1.0		mg/L			04/14/18 14:01	1
Alkalinity, Total	280		5.0		mg/L			04/13/18 23:15	1
ortho-Phosphate	0.057		0.020		mg/L			04/11/18 12:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.9	HF	0.1		SU			04/12/18 10:44	1
Temperature	21.6	HF	0.001		Degrees C			04/12/18 10:44	1

**Client Sample ID: MW-553-20180410**

**Lab Sample ID: 480-133886-9**

Date Collected: 04/10/18 11:50

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/17/18 02:23	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/17/18 02:23	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/17/18 02:23	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/17/18 02:23	1
1,1-Dichloroethane	ND		1.0		ug/L			04/17/18 02:23	1
1,1-Dichloroethene	ND		1.0		ug/L			04/17/18 02:23	1
1,1-Dichloropropene	ND		1.0		ug/L			04/17/18 02:23	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-553-20180410**

**Lab Sample ID: 480-133886-9**

Date Collected: 04/10/18 11:50

Matrix: Water

Date Received: 04/11/18 01:00

**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			04/17/18 02:23	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/17/18 02:23	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/17/18 02:23	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/17/18 02:23	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/17/18 02:23	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/17/18 02:23	1
1,2-Dichloroethane	ND		1.0		ug/L			04/17/18 02:23	1
1,2-Dichloropropane	ND		1.0		ug/L			04/17/18 02:23	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/17/18 02:23	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/17/18 02:23	1
1,3-Dichloropropane	ND		1.0		ug/L			04/17/18 02:23	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/17/18 02:23	1
1,4-Dioxane	ND	*	50		ug/L			04/17/18 02:23	1
2,2-Dichloropropane	ND		1.0		ug/L			04/17/18 02:23	1
2-Butanone (MEK)	ND	*	10		ug/L			04/17/18 02:23	1
2-Chlorotoluene	ND		1.0		ug/L			04/17/18 02:23	1
2-Hexanone	ND		10		ug/L			04/17/18 02:23	1
4-Chlorotoluene	ND		1.0		ug/L			04/17/18 02:23	1
4-Isopropyltoluene	ND		1.0		ug/L			04/17/18 02:23	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/17/18 02:23	1
Acetone	ND	*	50		ug/L			04/17/18 02:23	1
Benzene	ND		1.0		ug/L			04/17/18 02:23	1
Bromobenzene	ND		1.0		ug/L			04/17/18 02:23	1
Bromoform	ND		1.0		ug/L			04/17/18 02:23	1
Bromomethane	ND		2.0		ug/L			04/17/18 02:23	1
Carbon disulfide	ND		10		ug/L			04/17/18 02:23	1
Carbon tetrachloride	ND		1.0		ug/L			04/17/18 02:23	1
Chlorobenzene	ND		1.0		ug/L			04/17/18 02:23	1
Chlorobromomethane	ND		1.0		ug/L			04/17/18 02:23	1
Chlorodibromomethane	ND		0.50		ug/L			04/17/18 02:23	1
Chloroethane	ND		2.0		ug/L			04/17/18 02:23	1
Chloroform	ND		1.0		ug/L			04/17/18 02:23	1
Chloromethane	ND		2.0		ug/L			04/17/18 02:23	1
<b>cis-1,2-Dichloroethene</b>	<b>9.5</b>		1.0		ug/L			04/17/18 02:23	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/17/18 02:23	1
Dichlorobromomethane	ND		0.50		ug/L			04/17/18 02:23	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/17/18 02:23	1
Ethyl ether	ND		1.0		ug/L			04/17/18 02:23	1
<b>Ethylbenzene</b>	<b>3.7</b>		1.0		ug/L			04/17/18 02:23	1
Ethylene Dibromide	ND		1.0		ug/L			04/17/18 02:23	1
Hexachlorobutadiene	ND		0.40		ug/L			04/17/18 02:23	1
Isopropyl ether	ND		10		ug/L			04/17/18 02:23	1
Isopropylbenzene	ND		1.0		ug/L			04/17/18 02:23	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/17/18 02:23	1
Methylene Chloride	ND		1.0		ug/L			04/17/18 02:23	1
<b>m-Xylene &amp; p-Xylene</b>	<b>13</b>		2.0		ug/L			04/17/18 02:23	1
Naphthalene	ND		5.0		ug/L			04/17/18 02:23	1
n-Butylbenzene	ND		1.0		ug/L			04/17/18 02:23	1
N-Propylbenzene	ND		1.0		ug/L			04/17/18 02:23	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-553-20180410**

**Lab Sample ID: 480-133886-9**

Date Collected: 04/10/18 11:50

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>o-Xylene</b>	<b>3.4</b>		1.0		ug/L			04/17/18 02:23	1
sec-Butylbenzene	ND		1.0		ug/L			04/17/18 02:23	1
Styrene	ND		1.0		ug/L			04/17/18 02:23	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/17/18 02:23	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/17/18 02:23	1
tert-Butylbenzene	ND		1.0		ug/L			04/17/18 02:23	1
Tetrachloroethene	ND		1.0		ug/L			04/17/18 02:23	1
Tetrahydrofuran	ND	*	10		ug/L			04/17/18 02:23	1
<b>Toluene</b>	<b>7.6</b>		1.0		ug/L			04/17/18 02:23	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/17/18 02:23	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/17/18 02:23	1
Trichloroethene	ND		1.0		ug/L			04/17/18 02:23	1
Trichlorofluoromethane	ND		1.0		ug/L			04/17/18 02:23	1
<b>Vinyl chloride</b>	<b>9.1</b>		1.0		ug/L			04/17/18 02:23	1
Dibromomethane	ND		1.0		ug/L			04/17/18 02:23	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)	94		70 - 130					04/17/18 02:23	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130					04/17/18 02:23	1
4-Bromofluorobenzene (Surr)	99		70 - 130					04/17/18 02:23	1

**Method: 6010 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Iron</b>	<b>42</b>		0.050		mg/L		04/12/18 10:42	04/12/18 21:02	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>16</b>		2.5		mg/L			04/13/18 01:08	5
Sulfate	ND		10		mg/L			04/13/18 01:08	5
<b>Ammonia</b>	<b>0.36</b>	<b>F1</b>	0.20		mg/L		04/12/18 20:14	04/13/18 16:18	1
<b>Nitrate as N</b>	<b>0.079</b>		0.050		mg/L			04/11/18 17:42	1
<b>TOC Result 1</b>	<b>2.5</b>		1.0		mg/L			04/14/18 14:29	1
<b>TOC Result 2</b>	<b>2.3</b>		1.0		mg/L			04/14/18 14:29	1
<b>Total Organic Carbon - Duplicates</b>	<b>2.4</b>		1.0		mg/L			04/14/18 14:29	1
<b>Alkalinity, Total</b>	<b>730</b>		5.0		mg/L			04/13/18 23:26	1
ortho-Phosphate	ND		0.020		mg/L			04/11/18 12:43	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>6.9</b>	<b>HF</b>	0.1		SU			04/12/18 10:47	1
<b>Temperature</b>	<b>21.6</b>	<b>HF</b>	0.001		Degrees C			04/12/18 10:47	1

**Client Sample ID: MW-560-20180410**

**Lab Sample ID: 480-133886-10**

Date Collected: 04/10/18 13:35

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/17/18 02:47	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/17/18 02:47	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/17/18 02:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/17/18 02:47	1

TestAmerica Buffalo



# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-560-20180410**

**Lab Sample ID: 480-133886-10**

**Date Collected: 04/10/18 13:35**

**Matrix: Water**

**Date Received: 04/11/18 01:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		1.0		ug/L			04/17/18 02:47	1
1,1-Dichloroethene	ND		1.0		ug/L			04/17/18 02:47	1
1,1-Dichloropropene	ND		1.0		ug/L			04/17/18 02:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/17/18 02:47	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/17/18 02:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/17/18 02:47	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/17/18 02:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/17/18 02:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/17/18 02:47	1
1,2-Dichloroethane	ND		1.0		ug/L			04/17/18 02:47	1
1,2-Dichloropropane	ND		1.0		ug/L			04/17/18 02:47	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/17/18 02:47	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/17/18 02:47	1
1,3-Dichloropropane	ND		1.0		ug/L			04/17/18 02:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/17/18 02:47	1
1,4-Dioxane	ND *		50		ug/L			04/17/18 02:47	1
2,2-Dichloropropane	ND		1.0		ug/L			04/17/18 02:47	1
2-Butanone (MEK)	ND *		10		ug/L			04/17/18 02:47	1
2-Chlorotoluene	ND		1.0		ug/L			04/17/18 02:47	1
2-Hexanone	ND		10		ug/L			04/17/18 02:47	1
4-Chlorotoluene	ND		1.0		ug/L			04/17/18 02:47	1
4-Isopropyltoluene	ND		1.0		ug/L			04/17/18 02:47	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/17/18 02:47	1
Acetone	ND *		50		ug/L			04/17/18 02:47	1
Benzene	ND		1.0		ug/L			04/17/18 02:47	1
Bromobenzene	ND		1.0		ug/L			04/17/18 02:47	1
Bromoform	ND		1.0		ug/L			04/17/18 02:47	1
Bromomethane	ND		2.0		ug/L			04/17/18 02:47	1
Carbon disulfide	ND		10		ug/L			04/17/18 02:47	1
Carbon tetrachloride	ND		1.0		ug/L			04/17/18 02:47	1
Chlorobenzene	ND		1.0		ug/L			04/17/18 02:47	1
Chlorobromomethane	ND		1.0		ug/L			04/17/18 02:47	1
Chlorodibromomethane	ND		0.50		ug/L			04/17/18 02:47	1
Chloroethane	ND		2.0		ug/L			04/17/18 02:47	1
Chloroform	ND		1.0		ug/L			04/17/18 02:47	1
Chloromethane	ND		2.0		ug/L			04/17/18 02:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/17/18 02:47	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/17/18 02:47	1
Dichlorobromomethane	ND		0.50		ug/L			04/17/18 02:47	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/17/18 02:47	1
Ethyl ether	ND		1.0		ug/L			04/17/18 02:47	1
Ethylbenzene	ND		1.0		ug/L			04/17/18 02:47	1
Ethylene Dibromide	ND		1.0		ug/L			04/17/18 02:47	1
Hexachlorobutadiene	ND		0.40		ug/L			04/17/18 02:47	1
Isopropyl ether	ND		10		ug/L			04/17/18 02:47	1
Isopropylbenzene	ND		1.0		ug/L			04/17/18 02:47	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/17/18 02:47	1
Methylene Chloride	ND		1.0		ug/L			04/17/18 02:47	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/17/18 02:47	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-560-20180410**

**Lab Sample ID: 480-133886-10**

Date Collected: 04/10/18 13:35

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		5.0		ug/L			04/17/18 02:47	1
n-Butylbenzene	ND		1.0		ug/L			04/17/18 02:47	1
N-Propylbenzene	ND		1.0		ug/L			04/17/18 02:47	1
o-Xylene	ND		1.0		ug/L			04/17/18 02:47	1
sec-Butylbenzene	ND		1.0		ug/L			04/17/18 02:47	1
Styrene	ND		1.0		ug/L			04/17/18 02:47	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/17/18 02:47	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/17/18 02:47	1
tert-Butylbenzene	ND		1.0		ug/L			04/17/18 02:47	1
Tetrachloroethene	ND		1.0		ug/L			04/17/18 02:47	1
Tetrahydrofuran	ND	*	10		ug/L			04/17/18 02:47	1
Toluene	ND		1.0		ug/L			04/17/18 02:47	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/17/18 02:47	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/17/18 02:47	1
Trichloroethene	ND		1.0		ug/L			04/17/18 02:47	1
Trichlorofluoromethane	ND		1.0		ug/L			04/17/18 02:47	1
Vinyl chloride	ND		1.0		ug/L			04/17/18 02:47	1
Dibromomethane	ND		1.0		ug/L			04/17/18 02:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130					04/17/18 02:47	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130					04/17/18 02:47	1
4-Bromofluorobenzene (Surr)	101		70 - 130					04/17/18 02:47	1

**Method: 6010 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4.9		0.050		mg/L		04/12/18 10:42	04/12/18 21:06	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27		1.0		mg/L			04/13/18 01:16	2
Sulfate	ND		4.0		mg/L			04/13/18 01:16	2
Ammonia	1.4		0.20		mg/L		04/12/18 20:14	04/16/18 20:55	1
Nitrate as N	ND		0.050		mg/L			04/11/18 12:51	1
TOC Result 1	2.0		1.0		mg/L			04/14/18 15:52	1
TOC Result 2	2.0		1.0		mg/L			04/14/18 15:52	1
Total Organic Carbon - Duplicates	2.0		1.0		mg/L			04/14/18 15:52	1
Alkalinity, Total	410		5.0		mg/L			04/13/18 23:34	1
ortho-Phosphate	ND		0.020		mg/L			04/11/18 12:43	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.0	HF	0.1		SU			04/12/18 10:49	1
Temperature	21.7	HF	0.001		Degrees C			04/12/18 10:49	1

**Client Sample ID: MW-562-20180410**

**Lab Sample ID: 480-133886-11**

Date Collected: 04/10/18 12:45

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			04/17/18 03:11	2

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-562-20180410**

**Lab Sample ID: 480-133886-11**

Date Collected: 04/10/18 12:45

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0		ug/L			04/17/18 03:11	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/17/18 03:11	2
1,1,2-Trichloroethane	ND		2.0		ug/L			04/17/18 03:11	2
1,1-Dichloroethane	ND		2.0		ug/L			04/17/18 03:11	2
1,1-Dichloroethene	ND		2.0		ug/L			04/17/18 03:11	2
1,1-Dichloropropene	ND		2.0		ug/L			04/17/18 03:11	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			04/17/18 03:11	2
1,2,3-Trichloropropane	ND		2.0		ug/L			04/17/18 03:11	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			04/17/18 03:11	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			04/17/18 03:11	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			04/17/18 03:11	2
1,2-Dichlorobenzene	ND		2.0		ug/L			04/17/18 03:11	2
1,2-Dichloroethane	ND		2.0		ug/L			04/17/18 03:11	2
1,2-Dichloropropane	ND		2.0		ug/L			04/17/18 03:11	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			04/17/18 03:11	2
1,3-Dichlorobenzene	ND		2.0		ug/L			04/17/18 03:11	2
1,3-Dichloropropane	ND		2.0		ug/L			04/17/18 03:11	2
1,4-Dichlorobenzene	ND		2.0		ug/L			04/17/18 03:11	2
1,4-Dioxane	ND *		100		ug/L			04/17/18 03:11	2
2,2-Dichloropropane	ND		2.0		ug/L			04/17/18 03:11	2
2-Butanone (MEK)	ND *		20		ug/L			04/17/18 03:11	2
2-Chlorotoluene	ND		2.0		ug/L			04/17/18 03:11	2
2-Hexanone	ND		20		ug/L			04/17/18 03:11	2
4-Chlorotoluene	ND		2.0		ug/L			04/17/18 03:11	2
4-Isopropyltoluene	ND		2.0		ug/L			04/17/18 03:11	2
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			04/17/18 03:11	2
Acetone	ND *		100		ug/L			04/17/18 03:11	2
Benzene	ND		2.0		ug/L			04/17/18 03:11	2
Bromobenzene	ND		2.0		ug/L			04/17/18 03:11	2
Bromoform	ND		2.0		ug/L			04/17/18 03:11	2
Bromomethane	ND		4.0		ug/L			04/17/18 03:11	2
Carbon disulfide	ND		20		ug/L			04/17/18 03:11	2
Carbon tetrachloride	ND		2.0		ug/L			04/17/18 03:11	2
Chlorobenzene	ND		2.0		ug/L			04/17/18 03:11	2
Chlorobromomethane	ND		2.0		ug/L			04/17/18 03:11	2
Chlorodibromomethane	ND		1.0		ug/L			04/17/18 03:11	2
Chloroethane	ND		4.0		ug/L			04/17/18 03:11	2
Chloroform	ND		2.0		ug/L			04/17/18 03:11	2
Chloromethane	ND		4.0		ug/L			04/17/18 03:11	2
cis-1,2-Dichloroethene	ND		2.0		ug/L			04/17/18 03:11	2
cis-1,3-Dichloropropene	ND		0.80		ug/L			04/17/18 03:11	2
Dichlorobromomethane	ND		1.0		ug/L			04/17/18 03:11	2
Dichlorodifluoromethane	ND		2.0		ug/L			04/17/18 03:11	2
Ethyl ether	ND		2.0		ug/L			04/17/18 03:11	2
Ethylbenzene	ND		2.0		ug/L			04/17/18 03:11	2
Ethylene Dibromide	ND		2.0		ug/L			04/17/18 03:11	2
Hexachlorobutadiene	ND		0.80		ug/L			04/17/18 03:11	2
Isopropyl ether	ND		20		ug/L			04/17/18 03:11	2
Isopropylbenzene	ND		2.0		ug/L			04/17/18 03:11	2

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-562-20180410**

**Lab Sample ID: 480-133886-11**

Date Collected: 04/10/18 12:45

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		2.0		ug/L			04/17/18 03:11	2
Methylene Chloride	ND		2.0		ug/L			04/17/18 03:11	2
<b>m-Xylene &amp; p-Xylene</b>	<b>4.1</b>		4.0		ug/L			04/17/18 03:11	2
Naphthalene	ND		10		ug/L			04/17/18 03:11	2
n-Butylbenzene	ND		2.0		ug/L			04/17/18 03:11	2
N-Propylbenzene	ND		2.0		ug/L			04/17/18 03:11	2
o-Xylene	ND		2.0		ug/L			04/17/18 03:11	2
sec-Butylbenzene	ND		2.0		ug/L			04/17/18 03:11	2
Styrene	ND		2.0		ug/L			04/17/18 03:11	2
Tert-amyl methyl ether	ND		10		ug/L			04/17/18 03:11	2
Tert-butyl ethyl ether	ND		10		ug/L			04/17/18 03:11	2
tert-Butylbenzene	ND		2.0		ug/L			04/17/18 03:11	2
Tetrachloroethene	ND		2.0		ug/L			04/17/18 03:11	2
Tetrahydrofuran	ND *		20		ug/L			04/17/18 03:11	2
<b>Toluene</b>	<b>5.1</b>		2.0		ug/L			04/17/18 03:11	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			04/17/18 03:11	2
trans-1,3-Dichloropropene	ND		0.80		ug/L			04/17/18 03:11	2
Trichloroethene	ND		2.0		ug/L			04/17/18 03:11	2
Trichlorofluoromethane	ND		2.0		ug/L			04/17/18 03:11	2
Vinyl chloride	ND		2.0		ug/L			04/17/18 03:11	2
Dibromomethane	ND		2.0		ug/L			04/17/18 03:11	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/17/18 03:11	2
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/17/18 03:11	2
4-Bromofluorobenzene (Surr)	100		70 - 130		04/17/18 03:11	2

**Method: 6010 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Iron</b>	<b>110</b>		0.050		mg/L		04/12/18 10:42	04/12/18 21:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>11</b>		1.0		mg/L			04/13/18 01:24	2
Sulfate	ND		4.0		mg/L			04/13/18 01:24	2
<b>Ammonia</b>	<b>2.5</b>		0.40		mg/L		04/12/18 20:14	04/16/18 21:54	2
Nitrate as N	ND		0.050		mg/L			04/11/18 17:44	1
<b>TOC Result 1</b>	<b>17</b>		1.0		mg/L			04/14/18 16:48	1
<b>TOC Result 2</b>	<b>16</b>		1.0		mg/L			04/14/18 16:48	1
<b>Total Organic Carbon - Duplicates</b>	<b>17</b>		1.0		mg/L			04/14/18 16:48	1
<b>Alkalinity, Total</b>	<b>320</b>		5.0		mg/L			04/13/18 23:42	1
<b>ortho-Phosphate</b>	<b>0.22</b>		0.020		mg/L			04/11/18 12:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>6.2</b>	<b>HF</b>	0.1		SU			04/12/18 10:52	1
<b>Temperature</b>	<b>21.5</b>	<b>HF</b>	0.001		Degrees C			04/12/18 10:52	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: REW-6-20180410**

**Lab Sample ID: 480-133886-12**

Date Collected: 04/10/18 10:25

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20		ug/L			04/17/18 03:35	20
1,1,1-Trichloroethane	ND		20		ug/L			04/17/18 03:35	20
1,1,2,2-Tetrachloroethane	ND		10		ug/L			04/17/18 03:35	20
1,1,2-Trichloroethane	ND		20		ug/L			04/17/18 03:35	20
1,1-Dichloroethane	ND		20		ug/L			04/17/18 03:35	20
1,1-Dichloroethene	ND		20		ug/L			04/17/18 03:35	20
1,1-Dichloropropene	ND		20		ug/L			04/17/18 03:35	20
1,2,3-Trichlorobenzene	ND		20		ug/L			04/17/18 03:35	20
1,2,3-Trichloropropane	ND		20		ug/L			04/17/18 03:35	20
1,2,4-Trichlorobenzene	ND		20		ug/L			04/17/18 03:35	20
1,2,4-Trimethylbenzene	ND		20		ug/L			04/17/18 03:35	20
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			04/17/18 03:35	20
1,2-Dichlorobenzene	ND		20		ug/L			04/17/18 03:35	20
1,2-Dichloroethane	ND		20		ug/L			04/17/18 03:35	20
1,2-Dichloropropane	ND		20		ug/L			04/17/18 03:35	20
1,3,5-Trimethylbenzene	ND		20		ug/L			04/17/18 03:35	20
1,3-Dichlorobenzene	ND		20		ug/L			04/17/18 03:35	20
1,3-Dichloropropane	ND		20		ug/L			04/17/18 03:35	20
1,4-Dichlorobenzene	ND		20		ug/L			04/17/18 03:35	20
1,4-Dioxane	ND *		1000		ug/L			04/17/18 03:35	20
2,2-Dichloropropane	ND		20		ug/L			04/17/18 03:35	20
<b>2-Butanone (MEK)</b>	<b>470 *</b>		200		ug/L			04/17/18 03:35	20
2-Chlorotoluene	ND		20		ug/L			04/17/18 03:35	20
2-Hexanone	ND		200		ug/L			04/17/18 03:35	20
4-Chlorotoluene	ND		20		ug/L			04/17/18 03:35	20
4-Isopropyltoluene	ND		20		ug/L			04/17/18 03:35	20
4-Methyl-2-pentanone (MIBK)	ND		200		ug/L			04/17/18 03:35	20
Acetone	ND *		1000		ug/L			04/17/18 03:35	20
Benzene	ND		20		ug/L			04/17/18 03:35	20
Bromobenzene	ND		20		ug/L			04/17/18 03:35	20
Bromoform	ND		20		ug/L			04/17/18 03:35	20
Bromomethane	ND		40		ug/L			04/17/18 03:35	20
Carbon disulfide	ND		200		ug/L			04/17/18 03:35	20
Carbon tetrachloride	ND		20		ug/L			04/17/18 03:35	20
Chlorobenzene	ND		20		ug/L			04/17/18 03:35	20
Chlorobromomethane	ND		20		ug/L			04/17/18 03:35	20
Chlorodibromomethane	ND		10		ug/L			04/17/18 03:35	20
Chloroethane	ND		40		ug/L			04/17/18 03:35	20
Chloroform	ND		20		ug/L			04/17/18 03:35	20
Chloromethane	ND		40		ug/L			04/17/18 03:35	20
cis-1,2-Dichloroethene	ND		20		ug/L			04/17/18 03:35	20
cis-1,3-Dichloropropene	ND		8.0		ug/L			04/17/18 03:35	20
Dichlorobromomethane	ND		10		ug/L			04/17/18 03:35	20
Dichlorodifluoromethane	ND		20		ug/L			04/17/18 03:35	20
Ethyl ether	ND		20		ug/L			04/17/18 03:35	20
Ethylbenzene	ND		20		ug/L			04/17/18 03:35	20
Ethylene Dibromide	ND		20		ug/L			04/17/18 03:35	20
Hexachlorobutadiene	ND		8.0		ug/L			04/17/18 03:35	20
Isopropyl ether	ND		200		ug/L			04/17/18 03:35	20

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: REW-6-20180410**

**Lab Sample ID: 480-133886-12**

Date Collected: 04/10/18 10:25

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		20		ug/L			04/17/18 03:35	20
Methyl tert-butyl ether	ND		20		ug/L			04/17/18 03:35	20
Methylene Chloride	ND		20		ug/L			04/17/18 03:35	20
m-Xylene & p-Xylene	ND		40		ug/L			04/17/18 03:35	20
Naphthalene	ND		100		ug/L			04/17/18 03:35	20
n-Butylbenzene	ND		20		ug/L			04/17/18 03:35	20
N-Propylbenzene	ND		20		ug/L			04/17/18 03:35	20
o-Xylene	ND		20		ug/L			04/17/18 03:35	20
sec-Butylbenzene	ND		20		ug/L			04/17/18 03:35	20
Styrene	ND		20		ug/L			04/17/18 03:35	20
Tert-amyl methyl ether	ND		100		ug/L			04/17/18 03:35	20
Tert-butyl ethyl ether	ND		100		ug/L			04/17/18 03:35	20
tert-Butylbenzene	ND		20		ug/L			04/17/18 03:35	20
Tetrachloroethene	ND		20		ug/L			04/17/18 03:35	20
Tetrahydrofuran	ND	*	200		ug/L			04/17/18 03:35	20
Toluene	ND		20		ug/L			04/17/18 03:35	20
trans-1,2-Dichloroethene	ND		20		ug/L			04/17/18 03:35	20
trans-1,3-Dichloropropene	ND		8.0		ug/L			04/17/18 03:35	20
Trichloroethene	ND		20		ug/L			04/17/18 03:35	20
Trichlorofluoromethane	ND		20		ug/L			04/17/18 03:35	20
Vinyl chloride	ND		20		ug/L			04/17/18 03:35	20
Dibromomethane	ND		20		ug/L			04/17/18 03:35	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/17/18 03:35	20
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/17/18 03:35	20
4-Bromofluorobenzene (Surr)	94		70 - 130		04/17/18 03:35	20

## Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	140		0.050		mg/L		04/12/18 10:42	04/12/18 21:24	1

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		5.0		mg/L			04/13/18 01:32	10
Sulfate	ND		20		mg/L			04/13/18 01:32	10
Ammonia	0.61		0.20		mg/L		04/12/18 20:14	04/16/18 21:55	1
Nitrate as N	ND		0.050		mg/L			04/11/18 17:45	1
TOC Result 1	2400		80		mg/L			04/14/18 17:44	80
TOC Result 2	2500		80		mg/L			04/14/18 17:44	80
Total Organic Carbon - Duplicates	2400		80		mg/L			04/14/18 17:44	80
Alkalinity, Total	970		5.0		mg/L			04/14/18 00:21	1
ortho-Phosphate	0.31		0.020		mg/L			04/11/18 12:43	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.7	HF	0.1		SU			04/12/18 10:55	1
Temperature	21.5	HF	0.001		Degrees C			04/12/18 10:55	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: REW-7-20180410**

**Lab Sample ID: 480-133886-13**

**Date Collected: 04/10/18 12:45**

**Matrix: Water**

**Date Received: 04/11/18 01:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/17/18 03:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/17/18 03:59	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/17/18 03:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/17/18 03:59	1
1,1-Dichloroethane	ND		1.0		ug/L			04/17/18 03:59	1
1,1-Dichloroethene	ND		1.0		ug/L			04/17/18 03:59	1
1,1-Dichloropropene	ND		1.0		ug/L			04/17/18 03:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/17/18 03:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/17/18 03:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/17/18 03:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/17/18 03:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/17/18 03:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/17/18 03:59	1
1,2-Dichloroethane	ND		1.0		ug/L			04/17/18 03:59	1
1,2-Dichloropropane	ND		1.0		ug/L			04/17/18 03:59	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/17/18 03:59	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/17/18 03:59	1
1,3-Dichloropropane	ND		1.0		ug/L			04/17/18 03:59	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/17/18 03:59	1
1,4-Dioxane	ND *		50		ug/L			04/17/18 03:59	1
2,2-Dichloropropane	ND		1.0		ug/L			04/17/18 03:59	1
2-Butanone (MEK)	ND *		10		ug/L			04/17/18 03:59	1
2-Chlorotoluene	ND		1.0		ug/L			04/17/18 03:59	1
2-Hexanone	ND		10		ug/L			04/17/18 03:59	1
4-Chlorotoluene	ND		1.0		ug/L			04/17/18 03:59	1
4-Isopropyltoluene	ND		1.0		ug/L			04/17/18 03:59	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/17/18 03:59	1
Acetone	ND *		50		ug/L			04/17/18 03:59	1
Benzene	ND		1.0		ug/L			04/17/18 03:59	1
Bromobenzene	ND		1.0		ug/L			04/17/18 03:59	1
Bromoform	ND		1.0		ug/L			04/17/18 03:59	1
Bromomethane	ND		2.0		ug/L			04/17/18 03:59	1
Carbon disulfide	ND		10		ug/L			04/17/18 03:59	1
Carbon tetrachloride	ND		1.0		ug/L			04/17/18 03:59	1
Chlorobenzene	ND		1.0		ug/L			04/17/18 03:59	1
Chlorobromomethane	ND		1.0		ug/L			04/17/18 03:59	1
Chlorodibromomethane	ND		0.50		ug/L			04/17/18 03:59	1
Chloroethane	ND		2.0		ug/L			04/17/18 03:59	1
Chloroform	ND		1.0		ug/L			04/17/18 03:59	1
Chloromethane	ND		2.0		ug/L			04/17/18 03:59	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/17/18 03:59	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/17/18 03:59	1
Dichlorobromomethane	ND		0.50		ug/L			04/17/18 03:59	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/17/18 03:59	1
Ethyl ether	ND		1.0		ug/L			04/17/18 03:59	1
Ethylbenzene	ND		1.0		ug/L			04/17/18 03:59	1
Ethylene Dibromide	ND		1.0		ug/L			04/17/18 03:59	1
Hexachlorobutadiene	ND		0.40		ug/L			04/17/18 03:59	1
Isopropyl ether	ND		10		ug/L			04/17/18 03:59	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: REW-7-20180410**

**Lab Sample ID: 480-133886-13**

Date Collected: 04/10/18 12:45

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/17/18 03:59	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/17/18 03:59	1
Methylene Chloride	ND		1.0		ug/L			04/17/18 03:59	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/17/18 03:59	1
Naphthalene	ND		5.0		ug/L			04/17/18 03:59	1
n-Butylbenzene	ND		1.0		ug/L			04/17/18 03:59	1
N-Propylbenzene	ND		1.0		ug/L			04/17/18 03:59	1
o-Xylene	ND		1.0		ug/L			04/17/18 03:59	1
sec-Butylbenzene	ND		1.0		ug/L			04/17/18 03:59	1
Styrene	ND		1.0		ug/L			04/17/18 03:59	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/17/18 03:59	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/17/18 03:59	1
tert-Butylbenzene	ND		1.0		ug/L			04/17/18 03:59	1
Tetrachloroethene	ND		1.0		ug/L			04/17/18 03:59	1
Tetrahydrofuran	ND	*	10		ug/L			04/17/18 03:59	1
Toluene	ND		1.0		ug/L			04/17/18 03:59	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/17/18 03:59	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/17/18 03:59	1
Trichloroethene	ND		1.0		ug/L			04/17/18 03:59	1
Trichlorofluoromethane	ND		1.0		ug/L			04/17/18 03:59	1
Vinyl chloride	ND		1.0		ug/L			04/17/18 03:59	1
Dibromomethane	ND		1.0		ug/L			04/17/18 03:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130		04/17/18 03:59	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		04/17/18 03:59	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/17/18 03:59	1

**Method: 6010 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4.9		0.050		mg/L		04/12/18 10:42	04/12/18 21:32	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.6		0.50		mg/L			04/13/18 01:41	1
Sulfate	37		2.0		mg/L			04/13/18 01:41	1
Ammonia	0.71		0.20		mg/L		04/12/18 20:14	04/16/18 21:56	1
Nitrate as N	ND		0.050		mg/L			04/11/18 12:55	1
TOC Result 1	ND		1.0		mg/L			04/14/18 18:12	1
TOC Result 2	ND		1.0		mg/L			04/14/18 18:12	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/14/18 18:12	1
Alkalinity, Total	47		5.0		mg/L			04/14/18 00:28	1
ortho-Phosphate	0.061		0.020		mg/L			04/11/18 12:43	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.8	HF	0.1		SU			04/12/18 11:00	1
Temperature	21.4	HF	0.001		Degrees C			04/12/18 11:00	1

TestAmerica Buffalo



# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: REW-11-20180410**

**Lab Sample ID: 480-133886-14**

Date Collected: 04/10/18 09:20

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20		ug/L			04/17/18 04:23	20
1,1,1-Trichloroethane	ND		20		ug/L			04/17/18 04:23	20
1,1,2,2-Tetrachloroethane	ND		10		ug/L			04/17/18 04:23	20
1,1,2-Trichloroethane	ND		20		ug/L			04/17/18 04:23	20
1,1-Dichloroethane	ND		20		ug/L			04/17/18 04:23	20
1,1-Dichloroethene	ND		20		ug/L			04/17/18 04:23	20
1,1-Dichloropropene	ND		20		ug/L			04/17/18 04:23	20
1,2,3-Trichlorobenzene	ND		20		ug/L			04/17/18 04:23	20
1,2,3-Trichloropropane	ND		20		ug/L			04/17/18 04:23	20
1,2,4-Trichlorobenzene	ND		20		ug/L			04/17/18 04:23	20
1,2,4-Trimethylbenzene	ND		20		ug/L			04/17/18 04:23	20
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			04/17/18 04:23	20
1,2-Dichlorobenzene	ND		20		ug/L			04/17/18 04:23	20
1,2-Dichloroethane	ND		20		ug/L			04/17/18 04:23	20
1,2-Dichloropropane	ND		20		ug/L			04/17/18 04:23	20
1,3,5-Trimethylbenzene	ND		20		ug/L			04/17/18 04:23	20
1,3-Dichlorobenzene	ND		20		ug/L			04/17/18 04:23	20
1,3-Dichloropropane	ND		20		ug/L			04/17/18 04:23	20
1,4-Dichlorobenzene	ND		20		ug/L			04/17/18 04:23	20
1,4-Dioxane	ND *		1000		ug/L			04/17/18 04:23	20
2,2-Dichloropropane	ND		20		ug/L			04/17/18 04:23	20
<b>2-Butanone (MEK)</b>	<b>440 *</b>		200		ug/L			04/17/18 04:23	20
2-Chlorotoluene	ND		20		ug/L			04/17/18 04:23	20
2-Hexanone	ND		200		ug/L			04/17/18 04:23	20
4-Chlorotoluene	ND		20		ug/L			04/17/18 04:23	20
4-Isopropyltoluene	ND		20		ug/L			04/17/18 04:23	20
4-Methyl-2-pentanone (MIBK)	ND		200		ug/L			04/17/18 04:23	20
Acetone	ND *		1000		ug/L			04/17/18 04:23	20
Benzene	ND		20		ug/L			04/17/18 04:23	20
Bromobenzene	ND		20		ug/L			04/17/18 04:23	20
Bromoform	ND		20		ug/L			04/17/18 04:23	20
Bromomethane	ND		40		ug/L			04/17/18 04:23	20
Carbon disulfide	ND		200		ug/L			04/17/18 04:23	20
Carbon tetrachloride	ND		20		ug/L			04/17/18 04:23	20
Chlorobenzene	ND		20		ug/L			04/17/18 04:23	20
Chlorobromomethane	ND		20		ug/L			04/17/18 04:23	20
Chlorodibromomethane	ND		10		ug/L			04/17/18 04:23	20
Chloroethane	ND		40		ug/L			04/17/18 04:23	20
Chloroform	ND		20		ug/L			04/17/18 04:23	20
Chloromethane	ND		40		ug/L			04/17/18 04:23	20
cis-1,2-Dichloroethene	ND		20		ug/L			04/17/18 04:23	20
cis-1,3-Dichloropropene	ND		8.0		ug/L			04/17/18 04:23	20
Dichlorobromomethane	ND		10		ug/L			04/17/18 04:23	20
Dichlorodifluoromethane	ND		20		ug/L			04/17/18 04:23	20
Ethyl ether	ND		20		ug/L			04/17/18 04:23	20
Ethylbenzene	ND		20		ug/L			04/17/18 04:23	20
Ethylene Dibromide	ND		20		ug/L			04/17/18 04:23	20
Hexachlorobutadiene	ND		8.0		ug/L			04/17/18 04:23	20
Isopropyl ether	ND		200		ug/L			04/17/18 04:23	20

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: REW-11-20180410**

**Lab Sample ID: 480-133886-14**

Date Collected: 04/10/18 09:20

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		20		ug/L			04/17/18 04:23	20
Methyl tert-butyl ether	ND		20		ug/L			04/17/18 04:23	20
Methylene Chloride	ND		20		ug/L			04/17/18 04:23	20
m-Xylene & p-Xylene	ND		40		ug/L			04/17/18 04:23	20
Naphthalene	ND		100		ug/L			04/17/18 04:23	20
n-Butylbenzene	ND		20		ug/L			04/17/18 04:23	20
N-Propylbenzene	ND		20		ug/L			04/17/18 04:23	20
o-Xylene	ND		20		ug/L			04/17/18 04:23	20
sec-Butylbenzene	ND		20		ug/L			04/17/18 04:23	20
Styrene	ND		20		ug/L			04/17/18 04:23	20
Tert-amyl methyl ether	ND		100		ug/L			04/17/18 04:23	20
Tert-butyl ethyl ether	ND		100		ug/L			04/17/18 04:23	20
tert-Butylbenzene	ND		20		ug/L			04/17/18 04:23	20
Tetrachloroethene	ND		20		ug/L			04/17/18 04:23	20
Tetrahydrofuran	ND	*	200		ug/L			04/17/18 04:23	20
<b>Toluene</b>	<b>23</b>		20		ug/L			04/17/18 04:23	20
trans-1,2-Dichloroethene	ND		20		ug/L			04/17/18 04:23	20
trans-1,3-Dichloropropene	ND		8.0		ug/L			04/17/18 04:23	20
Trichloroethene	ND		20		ug/L			04/17/18 04:23	20
Trichlorofluoromethane	ND		20		ug/L			04/17/18 04:23	20
Vinyl chloride	ND		20		ug/L			04/17/18 04:23	20
Dibromomethane	ND		20		ug/L			04/17/18 04:23	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/17/18 04:23	20
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		04/17/18 04:23	20
4-Bromofluorobenzene (Surr)	98		70 - 130		04/17/18 04:23	20

**Method: 6010 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Iron</b>	<b>200</b>		0.050		mg/L		04/12/18 10:42	04/12/18 21:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>19</b>		5.0		mg/L			04/13/18 02:29	10
Sulfate	ND		20		mg/L			04/13/18 02:29	10
<b>Ammonia</b>	<b>0.64</b>		0.20		mg/L		04/12/18 20:14	04/16/18 20:58	1
Nitrate as N	ND		0.050		mg/L			04/11/18 17:50	1
<b>TOC Result 1</b>	<b>4000</b>		50		mg/L			04/14/18 18:39	50
<b>TOC Result 2</b>	<b>4100</b>		50		mg/L			04/14/18 18:39	50
<b>Total Organic Carbon - Duplicates</b>	<b>4000</b>		50		mg/L			04/14/18 18:39	50
<b>Alkalinity, Total</b>	<b>1100</b>		5.0		mg/L			04/14/18 00:49	1
<b>ortho-Phosphate</b>	<b>0.86</b>		0.020		mg/L			04/11/18 12:43	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>pH</b>	<b>5.8</b>	<b>HF</b>	0.1		SU			04/12/18 11:03	1
<b>Temperature</b>	<b>21.5</b>	<b>HF</b>	0.001		Degrees C			04/12/18 11:03	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: DUP1-20180410**

**Lab Sample ID: 480-133886-15**

**Date Collected: 04/10/18 00:00**

**Matrix: Water**

**Date Received: 04/11/18 01:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/17/18 14:45	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/17/18 14:45	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/17/18 14:45	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/17/18 14:45	1
1,1-Dichloroethane	ND		1.0		ug/L			04/17/18 14:45	1
1,1-Dichloroethene	ND		1.0		ug/L			04/17/18 14:45	1
1,1-Dichloropropene	ND		1.0		ug/L			04/17/18 14:45	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/17/18 14:45	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/17/18 14:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/17/18 14:45	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/17/18 14:45	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/17/18 14:45	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/17/18 14:45	1
1,2-Dichloroethane	ND		1.0		ug/L			04/17/18 14:45	1
1,2-Dichloropropane	ND		1.0		ug/L			04/17/18 14:45	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/17/18 14:45	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/17/18 14:45	1
1,3-Dichloropropane	ND		1.0		ug/L			04/17/18 14:45	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/17/18 14:45	1
1,4-Dioxane	ND *		50		ug/L			04/17/18 14:45	1
2,2-Dichloropropane	ND		1.0		ug/L			04/17/18 14:45	1
2-Butanone (MEK)	ND *		10		ug/L			04/17/18 14:45	1
2-Chlorotoluene	ND		1.0		ug/L			04/17/18 14:45	1
2-Hexanone	ND		10		ug/L			04/17/18 14:45	1
4-Chlorotoluene	ND		1.0		ug/L			04/17/18 14:45	1
4-Isopropyltoluene	ND		1.0		ug/L			04/17/18 14:45	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/17/18 14:45	1
Acetone	ND *		50		ug/L			04/17/18 14:45	1
Benzene	ND		1.0		ug/L			04/17/18 14:45	1
Bromobenzene	ND		1.0		ug/L			04/17/18 14:45	1
Bromoform	ND		1.0		ug/L			04/17/18 14:45	1
Bromomethane	ND		2.0		ug/L			04/17/18 14:45	1
Carbon disulfide	ND		10		ug/L			04/17/18 14:45	1
Carbon tetrachloride	ND		1.0		ug/L			04/17/18 14:45	1
Chlorobenzene	ND		1.0		ug/L			04/17/18 14:45	1
Chlorobromomethane	ND		1.0		ug/L			04/17/18 14:45	1
Chlorodibromomethane	ND		0.50		ug/L			04/17/18 14:45	1
Chloroethane	ND		2.0		ug/L			04/17/18 14:45	1
Chloroform	ND		1.0		ug/L			04/17/18 14:45	1
Chloromethane	ND		2.0		ug/L			04/17/18 14:45	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/17/18 14:45	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/17/18 14:45	1
Dichlorobromomethane	ND		0.50		ug/L			04/17/18 14:45	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/17/18 14:45	1
Ethyl ether	ND		1.0		ug/L			04/17/18 14:45	1
Ethylbenzene	ND		1.0		ug/L			04/17/18 14:45	1
Ethylene Dibromide	ND		1.0		ug/L			04/17/18 14:45	1
Hexachlorobutadiene	ND		0.40		ug/L			04/17/18 14:45	1
Isopropyl ether	ND		10		ug/L			04/17/18 14:45	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: DUP1-20180410**

**Lab Sample ID: 480-133886-15**

**Date Collected: 04/10/18 00:00**

**Matrix: Water**

**Date Received: 04/11/18 01:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/17/18 14:45	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/17/18 14:45	1
Methylene Chloride	ND		1.0		ug/L			04/17/18 14:45	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/17/18 14:45	1
Naphthalene	ND		5.0		ug/L			04/17/18 14:45	1
n-Butylbenzene	ND		1.0		ug/L			04/17/18 14:45	1
N-Propylbenzene	ND		1.0		ug/L			04/17/18 14:45	1
o-Xylene	ND		1.0		ug/L			04/17/18 14:45	1
sec-Butylbenzene	ND		1.0		ug/L			04/17/18 14:45	1
Styrene	ND		1.0		ug/L			04/17/18 14:45	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/17/18 14:45	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/17/18 14:45	1
tert-Butylbenzene	ND		1.0		ug/L			04/17/18 14:45	1
Tetrachloroethene	ND		1.0		ug/L			04/17/18 14:45	1
Tetrahydrofuran	ND	*	10		ug/L			04/17/18 14:45	1
Toluene	ND		1.0		ug/L			04/17/18 14:45	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/17/18 14:45	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/17/18 14:45	1
Trichloroethene	ND		1.0		ug/L			04/17/18 14:45	1
Trichlorofluoromethane	ND		1.0		ug/L			04/17/18 14:45	1
Vinyl chloride	ND		1.0		ug/L			04/17/18 14:45	1
Dibromomethane	ND		1.0		ug/L			04/17/18 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130		04/17/18 14:45	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/17/18 14:45	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/17/18 14:45	1

**Client Sample ID: DUP2-20180410**

**Lab Sample ID: 480-133886-16**

**Date Collected: 04/10/18 00:00**

**Matrix: Water**

**Date Received: 04/11/18 01:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20		ug/L			04/17/18 05:11	20
1,1,1-Trichloroethane	ND		20		ug/L			04/17/18 05:11	20
1,1,2,2-Tetrachloroethane	ND		10		ug/L			04/17/18 05:11	20
1,1,2-Trichloroethane	ND		20		ug/L			04/17/18 05:11	20
1,1-Dichloroethane	ND		20		ug/L			04/17/18 05:11	20
1,1-Dichloroethene	ND		20		ug/L			04/17/18 05:11	20
1,1-Dichloropropene	ND		20		ug/L			04/17/18 05:11	20
1,2,3-Trichlorobenzene	ND		20		ug/L			04/17/18 05:11	20
1,2,3-Trichloropropane	ND		20		ug/L			04/17/18 05:11	20
1,2,4-Trichlorobenzene	ND		20		ug/L			04/17/18 05:11	20
1,2,4-Trimethylbenzene	ND		20		ug/L			04/17/18 05:11	20
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			04/17/18 05:11	20
1,2-Dichlorobenzene	ND		20		ug/L			04/17/18 05:11	20
1,2-Dichloroethane	ND		20		ug/L			04/17/18 05:11	20
1,2-Dichloropropane	ND		20		ug/L			04/17/18 05:11	20
1,3,5-Trimethylbenzene	ND		20		ug/L			04/17/18 05:11	20

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: DUP2-20180410**

**Lab Sample ID: 480-133886-16**

Date Collected: 04/10/18 00:00

Matrix: Water

Date Received: 04/11/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		20		ug/L			04/17/18 05:11	20
1,3-Dichloropropane	ND		20		ug/L			04/17/18 05:11	20
1,4-Dichlorobenzene	ND		20		ug/L			04/17/18 05:11	20
1,4-Dioxane	ND	*	1000		ug/L			04/17/18 05:11	20
2,2-Dichloropropane	ND		20		ug/L			04/17/18 05:11	20
<b>2-Butanone (MEK)</b>	<b>450</b>	*	200		ug/L			04/17/18 05:11	20
2-Chlorotoluene	ND		20		ug/L			04/17/18 05:11	20
2-Hexanone	ND		200		ug/L			04/17/18 05:11	20
4-Chlorotoluene	ND		20		ug/L			04/17/18 05:11	20
4-Isopropyltoluene	ND		20		ug/L			04/17/18 05:11	20
4-Methyl-2-pentanone (MIBK)	ND		200		ug/L			04/17/18 05:11	20
Acetone	ND	*	1000		ug/L			04/17/18 05:11	20
Benzene	ND		20		ug/L			04/17/18 05:11	20
Bromobenzene	ND		20		ug/L			04/17/18 05:11	20
Bromoform	ND		20		ug/L			04/17/18 05:11	20
Bromomethane	ND		40		ug/L			04/17/18 05:11	20
Carbon disulfide	ND		200		ug/L			04/17/18 05:11	20
Carbon tetrachloride	ND		20		ug/L			04/17/18 05:11	20
Chlorobenzene	ND		20		ug/L			04/17/18 05:11	20
Chlorobromomethane	ND		20		ug/L			04/17/18 05:11	20
Chlorodibromomethane	ND		10		ug/L			04/17/18 05:11	20
Chloroethane	ND		40		ug/L			04/17/18 05:11	20
Chloroform	ND		20		ug/L			04/17/18 05:11	20
Chloromethane	ND		40		ug/L			04/17/18 05:11	20
cis-1,2-Dichloroethene	ND		20		ug/L			04/17/18 05:11	20
cis-1,3-Dichloropropene	ND		8.0		ug/L			04/17/18 05:11	20
Dichlorobromomethane	ND		10		ug/L			04/17/18 05:11	20
Dichlorodifluoromethane	ND		20		ug/L			04/17/18 05:11	20
Ethyl ether	ND		20		ug/L			04/17/18 05:11	20
Ethylbenzene	ND		20		ug/L			04/17/18 05:11	20
Ethylene Dibromide	ND		20		ug/L			04/17/18 05:11	20
Hexachlorobutadiene	ND		8.0		ug/L			04/17/18 05:11	20
Isopropyl ether	ND		200		ug/L			04/17/18 05:11	20
Isopropylbenzene	ND		20		ug/L			04/17/18 05:11	20
Methyl tert-butyl ether	ND		20		ug/L			04/17/18 05:11	20
Methylene Chloride	ND		20		ug/L			04/17/18 05:11	20
m-Xylene & p-Xylene	ND		40		ug/L			04/17/18 05:11	20
Naphthalene	ND		100		ug/L			04/17/18 05:11	20
n-Butylbenzene	ND		20		ug/L			04/17/18 05:11	20
N-Propylbenzene	ND		20		ug/L			04/17/18 05:11	20
o-Xylene	ND		20		ug/L			04/17/18 05:11	20
sec-Butylbenzene	ND		20		ug/L			04/17/18 05:11	20
Styrene	ND		20		ug/L			04/17/18 05:11	20
Tert-amyl methyl ether	ND		100		ug/L			04/17/18 05:11	20
Tert-butyl ethyl ether	ND		100		ug/L			04/17/18 05:11	20
tert-Butylbenzene	ND		20		ug/L			04/17/18 05:11	20
Tetrachloroethene	ND		20		ug/L			04/17/18 05:11	20
Tetrahydrofuran	ND	*	200		ug/L			04/17/18 05:11	20
<b>Toluene</b>	<b>20</b>		20		ug/L			04/17/18 05:11	20

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: DUP2-20180410**

**Lab Sample ID: 480-133886-16**

**Date Collected: 04/10/18 00:00**

**Matrix: Water**

**Date Received: 04/11/18 01:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		20		ug/L			04/17/18 05:11	20
trans-1,3-Dichloropropene	ND		8.0		ug/L			04/17/18 05:11	20
Trichloroethene	ND		20		ug/L			04/17/18 05:11	20
Trichlorofluoromethane	ND		20		ug/L			04/17/18 05:11	20
Vinyl chloride	ND		20		ug/L			04/17/18 05:11	20
Dibromomethane	ND		20		ug/L			04/17/18 05:11	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130		04/17/18 05:11	20
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/17/18 05:11	20
4-Bromofluorobenzene (Surr)	97		70 - 130		04/17/18 05:11	20

**Client Sample ID: TRIP BLANKS**

**Lab Sample ID: 480-133886-17**

**Date Collected: 04/10/18 00:00**

**Matrix: Water**

**Date Received: 04/11/18 01:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/17/18 05:35	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/17/18 05:35	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/17/18 05:35	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/17/18 05:35	1
1,1-Dichloroethane	ND		1.0		ug/L			04/17/18 05:35	1
1,1-Dichloroethene	ND		1.0		ug/L			04/17/18 05:35	1
1,1-Dichloropropene	ND		1.0		ug/L			04/17/18 05:35	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/17/18 05:35	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/17/18 05:35	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/17/18 05:35	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/17/18 05:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/17/18 05:35	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/17/18 05:35	1
1,2-Dichloroethane	ND		1.0		ug/L			04/17/18 05:35	1
1,2-Dichloropropane	ND		1.0		ug/L			04/17/18 05:35	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/17/18 05:35	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/17/18 05:35	1
1,3-Dichloropropane	ND		1.0		ug/L			04/17/18 05:35	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/17/18 05:35	1
1,4-Dioxane	ND	*	50		ug/L			04/17/18 05:35	1
2,2-Dichloropropane	ND		1.0		ug/L			04/17/18 05:35	1
2-Butanone (MEK)	ND	*	10		ug/L			04/17/18 05:35	1
2-Chlorotoluene	ND		1.0		ug/L			04/17/18 05:35	1
2-Hexanone	ND		10		ug/L			04/17/18 05:35	1
4-Chlorotoluene	ND		1.0		ug/L			04/17/18 05:35	1
4-Isopropyltoluene	ND		1.0		ug/L			04/17/18 05:35	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/17/18 05:35	1
Acetone	ND	*	50		ug/L			04/17/18 05:35	1
Benzene	ND		1.0		ug/L			04/17/18 05:35	1
Bromobenzene	ND		1.0		ug/L			04/17/18 05:35	1
Bromoform	ND		1.0		ug/L			04/17/18 05:35	1
Bromomethane	ND		2.0		ug/L			04/17/18 05:35	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: TRIP BLANKS**

**Lab Sample ID: 480-133886-17**

Date Collected: 04/10/18 00:00

Matrix: Water

Date Received: 04/11/18 01:00

**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			04/17/18 05:35	1
Carbon tetrachloride	ND		1.0		ug/L			04/17/18 05:35	1
Chlorobenzene	ND		1.0		ug/L			04/17/18 05:35	1
Chlorobromomethane	ND		1.0		ug/L			04/17/18 05:35	1
Chlorodibromomethane	ND		0.50		ug/L			04/17/18 05:35	1
Chloroethane	ND		2.0		ug/L			04/17/18 05:35	1
Chloroform	ND		1.0		ug/L			04/17/18 05:35	1
Chloromethane	ND		2.0		ug/L			04/17/18 05:35	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/17/18 05:35	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/17/18 05:35	1
Dichlorobromomethane	ND		0.50		ug/L			04/17/18 05:35	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/17/18 05:35	1
Ethyl ether	ND		1.0		ug/L			04/17/18 05:35	1
Ethylbenzene	ND		1.0		ug/L			04/17/18 05:35	1
Ethylene Dibromide	ND		1.0		ug/L			04/17/18 05:35	1
Hexachlorobutadiene	ND		0.40		ug/L			04/17/18 05:35	1
Isopropyl ether	ND		10		ug/L			04/17/18 05:35	1
Isopropylbenzene	ND		1.0		ug/L			04/17/18 05:35	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/17/18 05:35	1
Methylene Chloride	ND		1.0		ug/L			04/17/18 05:35	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/17/18 05:35	1
Naphthalene	ND		5.0		ug/L			04/17/18 05:35	1
n-Butylbenzene	ND		1.0		ug/L			04/17/18 05:35	1
N-Propylbenzene	ND		1.0		ug/L			04/17/18 05:35	1
o-Xylene	ND		1.0		ug/L			04/17/18 05:35	1
sec-Butylbenzene	ND		1.0		ug/L			04/17/18 05:35	1
Styrene	ND		1.0		ug/L			04/17/18 05:35	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/17/18 05:35	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/17/18 05:35	1
tert-Butylbenzene	ND		1.0		ug/L			04/17/18 05:35	1
Tetrachloroethene	ND		1.0		ug/L			04/17/18 05:35	1
Tetrahydrofuran	ND *		10		ug/L			04/17/18 05:35	1
Toluene	ND		1.0		ug/L			04/17/18 05:35	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/17/18 05:35	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/17/18 05:35	1
Trichloroethene	ND		1.0		ug/L			04/17/18 05:35	1
Trichlorofluoromethane	ND		1.0		ug/L			04/17/18 05:35	1
Vinyl chloride	ND		1.0		ug/L			04/17/18 05:35	1
Dibromomethane	ND		1.0		ug/L			04/17/18 05:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130		04/17/18 05:35	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/17/18 05:35	1
4-Bromofluorobenzene (Surr)	95		70 - 130		04/17/18 05:35	1

TestAmerica Buffalo

# Surrogate Summary

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

TestAmerica Job ID: 480-133886-1

## 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)	DCA (70-130)	BFB (70-130)
480-133886-1	MW-261S-20180410	98	106	97
480-133886-2	MW-267S-20180410	95	107	99
480-133886-3	MW-267M-20180410	96	104	103
480-133886-4	MW-268S-20180410	94	108	98
480-133886-5	MW-268M-20180410	95	105	99
480-133886-6	MW-268D-20180410	94	110	97
480-133886-7	MW-551-20180410	93	107	99
480-133886-8	MW-552-20180410	96	106	99
480-133886-9	MW-553-20180410	94	110	99
480-133886-10	MW-560-20180410	95	105	101
480-133886-11	MW-562-20180410	95	110	100
480-133886-12	REW-6-20180410	95	111	94
480-133886-13	REW-7-20180410	94	106	99
480-133886-14	REW-11-20180410	95	107	98
480-133886-15	DUP1-20180410	94	103	97
480-133886-16	DUP2-20180410	93	111	97
480-133886-17	TRIP BLANKS	93	110	95
LCS 480-409097/5	Lab Control Sample	101	108	103
LCS 480-409160/5	Lab Control Sample	93	109	97
LCSD 480-409097/6	Lab Control Sample Dup	99	110	103
LCSD 480-409160/6	Lab Control Sample Dup	95	109	101
MB 480-409097/8	Method Blank	96	107	97
MB 480-409160/8	Method Blank	95	109	99

### Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DXE (46-130)
480-133886-1	MW-261S-20180410	108
480-133886-2	MW-267S-20180410	0 X
480-133886-3	MW-267M-20180410	86
480-133886-4	MW-268S-20180410	118
480-133886-5	MW-268M-20180410	113
480-133886-8	MW-552-20180410	113
LCS 200-128482/2-A	Lab Control Sample	104
LLCS 200-128389/2-A	Lab Control Sample	112
MB 200-128389/1-A	Method Blank	117
MB 200-128482/1-A	Method Blank	118

### Surrogate Legend

DXE = 1,4-Dioxane-d8 (Surr)



# QC Sample Results

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

TestAmerica Job ID: 480-133886-1

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

**Lab Sample ID: MB 480-409097/8**

**Matrix: Water**

**Analysis Batch: 409097**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/16/18 22:39	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/16/18 22:39	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/16/18 22:39	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/16/18 22:39	1
1,1-Dichloroethane	ND		1.0		ug/L			04/16/18 22:39	1
1,1-Dichloroethene	ND		1.0		ug/L			04/16/18 22:39	1
1,1-Dichloropropene	ND		1.0		ug/L			04/16/18 22:39	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/16/18 22:39	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/16/18 22:39	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/16/18 22:39	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/16/18 22:39	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/16/18 22:39	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/16/18 22:39	1
1,2-Dichloroethane	ND		1.0		ug/L			04/16/18 22:39	1
1,2-Dichloropropane	ND		1.0		ug/L			04/16/18 22:39	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/16/18 22:39	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/16/18 22:39	1
1,3-Dichloropropane	ND		1.0		ug/L			04/16/18 22:39	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/16/18 22:39	1
1,4-Dioxane	ND		50		ug/L			04/16/18 22:39	1
2,2-Dichloropropane	ND		1.0		ug/L			04/16/18 22:39	1
2-Butanone (MEK)	ND		10		ug/L			04/16/18 22:39	1
2-Chlorotoluene	ND		1.0		ug/L			04/16/18 22:39	1
2-Hexanone	ND		10		ug/L			04/16/18 22:39	1
4-Chlorotoluene	ND		1.0		ug/L			04/16/18 22:39	1
4-Isopropyltoluene	ND		1.0		ug/L			04/16/18 22:39	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/16/18 22:39	1
Acetone	ND		50		ug/L			04/16/18 22:39	1
Benzene	ND		1.0		ug/L			04/16/18 22:39	1
Bromobenzene	ND		1.0		ug/L			04/16/18 22:39	1
Bromoform	ND		1.0		ug/L			04/16/18 22:39	1
Bromomethane	ND		2.0		ug/L			04/16/18 22:39	1
Carbon disulfide	ND		10		ug/L			04/16/18 22:39	1
Carbon tetrachloride	ND		1.0		ug/L			04/16/18 22:39	1
Chlorobenzene	ND		1.0		ug/L			04/16/18 22:39	1
Chlorobromomethane	ND		1.0		ug/L			04/16/18 22:39	1
Chlorodibromomethane	ND		0.50		ug/L			04/16/18 22:39	1
Chloroethane	ND		2.0		ug/L			04/16/18 22:39	1
Chloroform	ND		1.0		ug/L			04/16/18 22:39	1
Chloromethane	ND		2.0		ug/L			04/16/18 22:39	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/16/18 22:39	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/16/18 22:39	1
Dichlorobromomethane	ND		0.50		ug/L			04/16/18 22:39	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/16/18 22:39	1
Ethyl ether	ND		1.0		ug/L			04/16/18 22:39	1
Ethylbenzene	ND		1.0		ug/L			04/16/18 22:39	1
Ethylene Dibromide	ND		1.0		ug/L			04/16/18 22:39	1
Hexachlorobutadiene	ND		0.40		ug/L			04/16/18 22:39	1

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133886-1

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

**Lab Sample ID: MB 480-409097/8**

**Matrix: Water**

**Analysis Batch: 409097**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Isopropyl ether	ND		10		ug/L			04/16/18 22:39	1
Isopropylbenzene	ND		1.0		ug/L			04/16/18 22:39	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/16/18 22:39	1
Methylene Chloride	ND		1.0		ug/L			04/16/18 22:39	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/16/18 22:39	1
Naphthalene	ND		5.0		ug/L			04/16/18 22:39	1
n-Butylbenzene	ND		1.0		ug/L			04/16/18 22:39	1
N-Propylbenzene	ND		1.0		ug/L			04/16/18 22:39	1
o-Xylene	ND		1.0		ug/L			04/16/18 22:39	1
sec-Butylbenzene	ND		1.0		ug/L			04/16/18 22:39	1
Styrene	ND		1.0		ug/L			04/16/18 22:39	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/16/18 22:39	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/16/18 22:39	1
tert-Butylbenzene	ND		1.0		ug/L			04/16/18 22:39	1
Tetrachloroethene	ND		1.0		ug/L			04/16/18 22:39	1
Tetrahydrofuran	ND		10		ug/L			04/16/18 22:39	1
Toluene	ND		1.0		ug/L			04/16/18 22:39	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/16/18 22:39	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/16/18 22:39	1
Trichloroethene	ND		1.0		ug/L			04/16/18 22:39	1
Trichlorofluoromethane	ND		1.0		ug/L			04/16/18 22:39	1
Vinyl chloride	ND		1.0		ug/L			04/16/18 22:39	1
Dibromomethane	ND		1.0		ug/L			04/16/18 22:39	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	96		70 - 130		04/16/18 22:39	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		04/16/18 22:39	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/16/18 22:39	1

**Lab Sample ID: LCS 480-409097/5**

**Matrix: Water**

**Analysis Batch: 409097**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	25.0	29.2		ug/L		117	70 - 130
1,1,1-Trichloroethane	25.0	28.2		ug/L		113	70 - 130
1,1,2,2-Tetrachloroethane	25.0	28.6		ug/L		114	70 - 130
1,1,2-Trichloroethane	25.0	28.4		ug/L		114	70 - 130
1,1-Dichloroethane	25.0	26.9		ug/L		108	70 - 130
1,1-Dichloroethane	25.0	28.9		ug/L		116	70 - 130
1,1-Dichloropropene	25.0	27.1		ug/L		108	70 - 130
1,2,3-Trichlorobenzene	25.0	26.6		ug/L		106	70 - 130
1,2,3-Trichloropropane	25.0	31.3		ug/L		125	70 - 130
1,2,4-Trichlorobenzene	25.0	26.4		ug/L		106	70 - 130
1,2,4-Trimethylbenzene	25.0	26.4		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	28.7		ug/L		115	70 - 130
1,2-Dichlorobenzene	25.0	27.1		ug/L		108	70 - 130
1,2-Dichloroethane	25.0	27.4		ug/L		110	70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133886-1

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

**Lab Sample ID: LCS 480-409097/5**

**Matrix: Water**

**Analysis Batch: 409097**

**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	26.9		ug/L		108	70 - 130
1,3,5-Trimethylbenzene	25.0	25.9		ug/L		104	70 - 130
1,3-Dichlorobenzene	25.0	27.3		ug/L		109	70 - 130
1,3-Dichloropropane	25.0	28.0		ug/L		112	70 - 130
1,4-Dichlorobenzene	25.0	26.9		ug/L		107	70 - 130
1,4-Dioxane	500	387		ug/L		77	70 - 130
2,2-Dichloropropane	25.0	27.1		ug/L		108	70 - 130
2-Butanone (MEK)	125	260	*	ug/L		208	70 - 130
2-Chlorotoluene	25.0	25.8		ug/L		103	70 - 130
2-Hexanone	125	151		ug/L		120	70 - 130
4-Chlorotoluene	25.0	25.8		ug/L		103	70 - 130
4-Isopropyltoluene	25.0	27.2		ug/L		109	70 - 130
4-Methyl-2-pentanone (MIBK)	125	151		ug/L		121	70 - 130
Acetone	125	160		ug/L		128	70 - 130
Benzene	25.0	27.6		ug/L		111	70 - 130
Bromobenzene	25.0	26.6		ug/L		106	70 - 130
Bromoform	25.0	27.2		ug/L		109	70 - 130
Bromomethane	25.0	26.6		ug/L		106	70 - 130
Carbon disulfide	25.0	28.8		ug/L		115	70 - 130
Carbon tetrachloride	25.0	28.3		ug/L		113	70 - 130
Chlorobenzene	25.0	26.6		ug/L		107	70 - 130
Chlorobromomethane	25.0	29.1		ug/L		116	70 - 130
Chlorodibromomethane	25.0	28.3		ug/L		113	70 - 130
Chloroethane	25.0	25.2		ug/L		101	70 - 130
Chloroform	25.0	26.3		ug/L		105	70 - 130
Chloromethane	25.0	19.0		ug/L		76	70 - 130
cis-1,2-Dichloroethene	25.0	28.9		ug/L		116	70 - 130
cis-1,3-Dichloropropene	25.0	27.0		ug/L		108	70 - 130
Dichlorobromomethane	25.0	27.8		ug/L		111	70 - 130
Dichlorodifluoromethane	25.0	19.7		ug/L		79	70 - 130
Ethyl ether	25.0	29.0		ug/L		116	70 - 130
Ethylbenzene	25.0	26.8		ug/L		107	70 - 130
Ethylene Dibromide	25.0	29.7		ug/L		119	70 - 130
Hexachlorobutadiene	25.0	29.0		ug/L		116	70 - 130
Isopropyl ether	25.0	23.1		ug/L		93	70 - 130
Isopropylbenzene	25.0	26.0		ug/L		104	70 - 130
Methyl tert-butyl ether	25.0	28.8		ug/L		115	70 - 130
Methylene Chloride	25.0	27.1		ug/L		108	70 - 130
m-Xylene & p-Xylene	25.0	27.3		ug/L		109	70 - 130
Naphthalene	25.0	29.1		ug/L		117	70 - 130
n-Butylbenzene	25.0	27.1		ug/L		108	70 - 130
N-Propylbenzene	25.0	25.8		ug/L		103	70 - 130
o-Xylene	25.0	27.2		ug/L		109	70 - 130
sec-Butylbenzene	25.0	26.1		ug/L		105	70 - 130
Styrene	25.0	27.2		ug/L		109	70 - 130
Tert-amyl methyl ether	25.0	27.8		ug/L		111	70 - 130
Tert-butyl ethyl ether	25.0	25.6		ug/L		102	70 - 130
tert-Butylbenzene	25.0	28.6		ug/L		115	70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133886-1

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

**Lab Sample ID: LCS 480-409097/5**

**Matrix: Water**

**Analysis Batch: 409097**

**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	31.0		ug/L		124	70 - 130
Tetrahydrofuran	50.0	72.5	*	ug/L		145	70 - 130
Toluene	25.0	26.5		ug/L		106	70 - 130
trans-1,2-Dichloroethene	25.0	28.2		ug/L		113	70 - 130
trans-1,3-Dichloropropene	25.0	27.3		ug/L		109	70 - 130
Trichloroethene	25.0	27.6		ug/L		110	70 - 130
Trichlorofluoromethane	25.0	28.2		ug/L		113	70 - 130
Vinyl chloride	25.0	22.6		ug/L		90	70 - 130
Dibromomethane	25.0	29.5		ug/L		118	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130

**Lab Sample ID: LCSD 480-409097/6**

**Matrix: Water**

**Analysis Batch: 409097**

**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	29.5		ug/L		118	70 - 130	1	20
1,1,1-Trichloroethane	25.0	28.9		ug/L		116	70 - 130	2	20
1,1,1,2,2-Tetrachloroethane	25.0	29.6		ug/L		118	70 - 130	4	20
1,1,1,2-Trichloroethane	25.0	29.0		ug/L		116	70 - 130	2	20
1,1-Dichloroethane	25.0	28.2		ug/L		113	70 - 130	5	20
1,1-Dichloroethene	25.0	29.3		ug/L		117	70 - 130	1	20
1,1-Dichloropropene	25.0	28.3		ug/L		113	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	27.0		ug/L		108	70 - 130	2	20
1,2,3-Trichloropropane	25.0	30.9		ug/L		124	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	26.6		ug/L		106	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	26.4		ug/L		106	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	25.0	29.7		ug/L		119	70 - 130	4	20
1,2-Dichlorobenzene	25.0	27.2		ug/L		109	70 - 130	0	20
1,2-Dichloroethane	25.0	28.9		ug/L		116	70 - 130	5	20
1,2-Dichloropropane	25.0	27.2		ug/L		109	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	26.0		ug/L		104	70 - 130	0	20
1,3-Dichlorobenzene	25.0	27.4		ug/L		110	70 - 130	0	20
1,3-Dichloropropane	25.0	28.8		ug/L		115	70 - 130	3	20
1,4-Dichlorobenzene	25.0	27.0		ug/L		108	70 - 130	1	20
1,4-Dioxane	500	734	*	ug/L		147	70 - 130	62	20
2,2-Dichloropropane	25.0	27.9		ug/L		112	70 - 130	3	20
2-Butanone (MEK)	125	274	*	ug/L		219	70 - 130	5	20
2-Chlorotoluene	25.0	25.3		ug/L		101	70 - 130	2	20
2-Hexanone	125	159		ug/L		127	70 - 130	5	20
4-Chlorotoluene	25.0	25.3		ug/L		101	70 - 130	2	20
4-Isopropyltoluene	25.0	27.6		ug/L		111	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)	125	154		ug/L		123	70 - 130	2	20
Acetone	125	165	*	ug/L		132	70 - 130	3	20

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133886-1

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

Lab Sample ID: LCSD 480-409097/6

Matrix: Water

Analysis Batch: 409097

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		
Benzene	25.0	27.9		ug/L		111	70 - 130	1	20	
Bromobenzene	25.0	27.0		ug/L		108	70 - 130	2	20	
Bromoform	25.0	28.9		ug/L		116	70 - 130	6	20	
Bromomethane	25.0	25.9		ug/L		104	70 - 130	3	20	
Carbon disulfide	25.0	28.2		ug/L		113	70 - 130	2	20	
Carbon tetrachloride	25.0	29.5		ug/L		118	70 - 130	4	20	
Chlorobenzene	25.0	27.4		ug/L		110	70 - 130	3	20	
Chlorobromomethane	25.0	30.3		ug/L		121	70 - 130	4	20	
Chlorodibromomethane	25.0	28.4		ug/L		113	70 - 130	0	20	
Chloroethane	25.0	25.7		ug/L		103	70 - 130	2	20	
Chloroform	25.0	27.5		ug/L		110	70 - 130	5	20	
Chloromethane	25.0	19.5		ug/L		78	70 - 130	2	20	
cis-1,2-Dichloroethene	25.0	28.5		ug/L		114	70 - 130	1	20	
cis-1,3-Dichloropropene	25.0	28.0		ug/L		112	70 - 130	4	20	
Dichlorobromomethane	25.0	28.4		ug/L		114	70 - 130	2	20	
Dichlorodifluoromethane	25.0	19.7		ug/L		79	70 - 130	0	20	
Ethyl ether	25.0	29.8		ug/L		119	70 - 130	3	20	
Ethylbenzene	25.0	27.3		ug/L		109	70 - 130	2	20	
Ethylene Dibromide	25.0	30.0		ug/L		120	70 - 130	1	20	
Hexachlorobutadiene	25.0	28.5		ug/L		114	70 - 130	2	20	
Isopropyl ether	25.0	23.9		ug/L		96	70 - 130	3	20	
Isopropylbenzene	25.0	26.6		ug/L		107	70 - 130	2	20	
Methyl tert-butyl ether	25.0	29.5		ug/L		118	70 - 130	2	20	
Methylene Chloride	25.0	26.4		ug/L		106	70 - 130	3	20	
m-Xylene & p-Xylene	25.0	27.9		ug/L		112	70 - 130	2	20	
Naphthalene	25.0	30.3		ug/L		121	70 - 130	4	20	
n-Butylbenzene	25.0	27.1		ug/L		108	70 - 130	0	20	
N-Propylbenzene	25.0	25.8		ug/L		103	70 - 130	0	20	
o-Xylene	25.0	27.0		ug/L		108	70 - 130	1	20	
sec-Butylbenzene	25.0	26.9		ug/L		107	70 - 130	3	20	
Styrene	25.0	28.2		ug/L		113	70 - 130	4	20	
Tert-amyl methyl ether	25.0	28.5		ug/L		114	70 - 130	2	20	
Tert-butyl ethyl ether	25.0	26.6		ug/L		106	70 - 130	4	20	
tert-Butylbenzene	25.0	27.9		ug/L		112	70 - 130	2	20	
Tetrachloroethene	25.0	32.1		ug/L		129	70 - 130	4	20	
Tetrahydrofuran	50.0	74.7 *		ug/L		149	70 - 130	3	20	
Toluene	25.0	27.3		ug/L		109	70 - 130	3	20	
trans-1,2-Dichloroethene	25.0	27.9		ug/L		112	70 - 130	1	20	
trans-1,3-Dichloropropene	25.0	27.9		ug/L		112	70 - 130	2	20	
Trichloroethene	25.0	28.5		ug/L		114	70 - 130	3	20	
Trichlorofluoromethane	25.0	28.4		ug/L		114	70 - 130	1	20	
Vinyl chloride	25.0	22.3		ug/L		89	70 - 130	1	20	
Dibromomethane	25.0	31.5		ug/L		126	70 - 130	6	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	110		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133886-1

**Lab Sample ID: MB 480-409160/8**

**Matrix: Water**

**Analysis Batch: 409160**

**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			04/17/18 10:40	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/17/18 10:40	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/17/18 10:40	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/17/18 10:40	1
1,1-Dichloroethane	ND		1.0		ug/L			04/17/18 10:40	1
1,1-Dichloroethene	ND		1.0		ug/L			04/17/18 10:40	1
1,1-Dichloropropene	ND		1.0		ug/L			04/17/18 10:40	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/17/18 10:40	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/17/18 10:40	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/17/18 10:40	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/17/18 10:40	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/17/18 10:40	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/17/18 10:40	1
1,2-Dichloroethane	ND		1.0		ug/L			04/17/18 10:40	1
1,2-Dichloropropane	ND		1.0		ug/L			04/17/18 10:40	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/17/18 10:40	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/17/18 10:40	1
1,3-Dichloropropane	ND		1.0		ug/L			04/17/18 10:40	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/17/18 10:40	1
1,4-Dioxane	ND		50		ug/L			04/17/18 10:40	1
2,2-Dichloropropane	ND		1.0		ug/L			04/17/18 10:40	1
2-Butanone (MEK)	ND		10		ug/L			04/17/18 10:40	1
2-Chlorotoluene	ND		1.0		ug/L			04/17/18 10:40	1
2-Hexanone	ND		10		ug/L			04/17/18 10:40	1
4-Chlorotoluene	ND		1.0		ug/L			04/17/18 10:40	1
4-Isopropyltoluene	ND		1.0		ug/L			04/17/18 10:40	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/17/18 10:40	1
Acetone	ND		50		ug/L			04/17/18 10:40	1
Benzene	ND		1.0		ug/L			04/17/18 10:40	1
Bromobenzene	ND		1.0		ug/L			04/17/18 10:40	1
Bromoform	ND		1.0		ug/L			04/17/18 10:40	1
Bromomethane	ND		2.0		ug/L			04/17/18 10:40	1
Carbon disulfide	ND		10		ug/L			04/17/18 10:40	1
Carbon tetrachloride	ND		1.0		ug/L			04/17/18 10:40	1
Chlorobenzene	ND		1.0		ug/L			04/17/18 10:40	1
Chlorobromomethane	ND		1.0		ug/L			04/17/18 10:40	1
Chlorodibromomethane	ND		0.50		ug/L			04/17/18 10:40	1
Chloroethane	ND		2.0		ug/L			04/17/18 10:40	1
Chloroform	ND		1.0		ug/L			04/17/18 10:40	1
Chloromethane	ND		2.0		ug/L			04/17/18 10:40	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/17/18 10:40	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/17/18 10:40	1
Dichlorobromomethane	ND		0.50		ug/L			04/17/18 10:40	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/17/18 10:40	1
Ethyl ether	ND		1.0		ug/L			04/17/18 10:40	1
Ethylbenzene	ND		1.0		ug/L			04/17/18 10:40	1
Ethylene Dibromide	ND		1.0		ug/L			04/17/18 10:40	1
Hexachlorobutadiene	ND		0.40		ug/L			04/17/18 10:40	1
Isopropyl ether	ND		10		ug/L			04/17/18 10:40	1
Isopropylbenzene	ND		1.0		ug/L			04/17/18 10:40	1

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133886-1

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

**Lab Sample ID: MB 480-409160/8**

**Matrix: Water**

**Analysis Batch: 409160**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			04/17/18 10:40	1
Methylene Chloride	ND		1.0		ug/L			04/17/18 10:40	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/17/18 10:40	1
Naphthalene	ND		5.0		ug/L			04/17/18 10:40	1
n-Butylbenzene	ND		1.0		ug/L			04/17/18 10:40	1
N-Propylbenzene	ND		1.0		ug/L			04/17/18 10:40	1
o-Xylene	ND		1.0		ug/L			04/17/18 10:40	1
sec-Butylbenzene	ND		1.0		ug/L			04/17/18 10:40	1
Styrene	ND		1.0		ug/L			04/17/18 10:40	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/17/18 10:40	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/17/18 10:40	1
tert-Butylbenzene	ND		1.0		ug/L			04/17/18 10:40	1
Tetrachloroethene	ND		1.0		ug/L			04/17/18 10:40	1
Tetrahydrofuran	ND		10		ug/L			04/17/18 10:40	1
Toluene	ND		1.0		ug/L			04/17/18 10:40	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/17/18 10:40	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/17/18 10:40	1
Trichloroethene	ND		1.0		ug/L			04/17/18 10:40	1
Trichlorofluoromethane	ND		1.0		ug/L			04/17/18 10:40	1
Vinyl chloride	ND		1.0		ug/L			04/17/18 10:40	1
Dibromomethane	ND		1.0		ug/L			04/17/18 10:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/17/18 10:40	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		04/17/18 10:40	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/17/18 10:40	1

**Lab Sample ID: LCS 480-409160/5**

**Matrix: Water**

**Analysis Batch: 409160**

**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	26.1		ug/L		104	70 - 130
1,1,1-Trichloroethane	25.0	26.5		ug/L		106	70 - 130
1,1,2,2-Tetrachloroethane	25.0	26.7		ug/L		107	70 - 130
1,1,2-Trichloroethane	25.0	26.7		ug/L		107	70 - 130
1,1-Dichloroethane	25.0	27.0		ug/L		108	70 - 130
1,1-Dichloroethene	25.0	26.8		ug/L		107	70 - 130
1,1-Dichloropropene	25.0	26.3		ug/L		105	70 - 130
1,2,3-Trichlorobenzene	25.0	24.1		ug/L		96	70 - 130
1,2,3-Trichloropropane	25.0	28.5		ug/L		114	70 - 130
1,2,4-Trichlorobenzene	25.0	23.8		ug/L		95	70 - 130
1,2,4-Trimethylbenzene	25.0	24.3		ug/L		97	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.8		ug/L		103	70 - 130
1,2-Dichlorobenzene	25.0	25.0		ug/L		100	70 - 130
1,2-Dichloroethane	25.0	27.2		ug/L		109	70 - 130
1,2-Dichloropropane	25.0	26.2		ug/L		105	70 - 130
1,3,5-Trimethylbenzene	25.0	23.4		ug/L		94	70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133886-1

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

**Lab Sample ID: LCS 480-409160/5**

**Matrix: Water**

**Analysis Batch: 409160**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	25.0	24.9		ug/L		100	70 - 130
1,3-Dichloropropane	25.0	25.8		ug/L		103	70 - 130
1,4-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130
1,4-Dioxane	500	378		ug/L		76	70 - 130
2,2-Dichloropropane	25.0	26.7		ug/L		107	70 - 130
2-Butanone (MEK)	125	265	*	ug/L		212	70 - 130
2-Chlorotoluene	25.0	23.6		ug/L		95	70 - 130
2-Hexanone	125	140		ug/L		112	70 - 130
4-Chlorotoluene	25.0	23.7		ug/L		95	70 - 130
4-Isopropyltoluene	25.0	25.0		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	125	134		ug/L		107	70 - 130
Acetone	125	174	*	ug/L		140	70 - 130
Benzene	25.0	26.0		ug/L		104	70 - 130
Bromobenzene	25.0	24.8		ug/L		99	70 - 130
Bromoform	25.0	25.7		ug/L		103	70 - 130
Bromomethane	25.0	26.3		ug/L		105	70 - 130
Carbon disulfide	25.0	25.7		ug/L		103	70 - 130
Carbon tetrachloride	25.0	27.1		ug/L		108	70 - 130
Chlorobenzene	25.0	24.8		ug/L		99	70 - 130
Chlorobromomethane	25.0	28.9		ug/L		116	70 - 130
Chlorodibromomethane	25.0	25.7		ug/L		103	70 - 130
Chloroethane	25.0	25.6		ug/L		102	70 - 130
Chloroform	25.0	25.6		ug/L		103	70 - 130
Chloromethane	25.0	19.3		ug/L		77	70 - 130
cis-1,2-Dichloroethene	25.0	27.1		ug/L		109	70 - 130
cis-1,3-Dichloropropene	25.0	26.7		ug/L		107	70 - 130
Dichlorobromomethane	25.0	26.7		ug/L		107	70 - 130
Dichlorodifluoromethane	25.0	18.7		ug/L		75	70 - 130
Ethyl ether	25.0	28.0		ug/L		112	70 - 130
Ethylbenzene	25.0	24.7		ug/L		99	70 - 130
Ethylene Dibromide	25.0	27.0		ug/L		108	70 - 130
Hexachlorobutadiene	25.0	26.2		ug/L		105	70 - 130
Isopropyl ether	25.0	24.4		ug/L		98	70 - 130
Isopropylbenzene	25.0	23.5		ug/L		94	70 - 130
Methyl tert-butyl ether	25.0	28.0		ug/L		112	70 - 130
Methylene Chloride	25.0	25.4		ug/L		102	70 - 130
m-Xylene & p-Xylene	25.0	23.8		ug/L		95	70 - 130
Naphthalene	25.0	26.3		ug/L		105	70 - 130
n-Butylbenzene	25.0	24.6		ug/L		98	70 - 130
N-Propylbenzene	25.0	23.6		ug/L		94	70 - 130
o-Xylene	25.0	24.5		ug/L		98	70 - 130
sec-Butylbenzene	25.0	24.1		ug/L		96	70 - 130
Styrene	25.0	24.8		ug/L		99	70 - 130
Tert-amyl methyl ether	25.0	28.8		ug/L		115	70 - 130
Tert-butyl ethyl ether	25.0	26.0		ug/L		104	70 - 130
tert-Butylbenzene	25.0	25.2		ug/L		101	70 - 130
Tetrachloroethene	25.0	27.6		ug/L		110	70 - 130
Tetrahydrofuran	50.0	70.1	*	ug/L		140	70 - 130

TestAmerica Buffalo



# QC Sample Results

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

TestAmerica Job ID: 480-133886-1

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

**Lab Sample ID: LCS 480-409160/5**

**Matrix: Water**

**Analysis Batch: 409160**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	25.0	24.3		ug/L		97	70 - 130
trans-1,2-Dichloroethene	25.0	26.2		ug/L		105	70 - 130
trans-1,3-Dichloropropene	25.0	24.5		ug/L		98	70 - 130
Trichloroethene	25.0	26.1		ug/L		104	70 - 130
Trichlorofluoromethane	25.0	27.5		ug/L		110	70 - 130
Vinyl chloride	25.0	21.9		ug/L		87	70 - 130
Dibromomethane	25.0	28.6		ug/L		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	93		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130

**Lab Sample ID: LCSD 480-409160/6**

**Matrix: Water**

**Analysis Batch: 409160**

**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	27.6		ug/L		110	70 - 130	5	20
1,1,1-Trichloroethane	25.0	28.0		ug/L		112	70 - 130	6	20
1,1,1,2,2-Tetrachloroethane	25.0	26.6		ug/L		107	70 - 130	0	20
1,1,2-Trichloroethane	25.0	25.8		ug/L		103	70 - 130	3	20
1,1-Dichloroethane	25.0	26.8		ug/L		107	70 - 130	1	20
1,1-Dichloroethene	25.0	27.8		ug/L		111	70 - 130	4	20
1,1-Dichloropropene	25.0	28.0		ug/L		112	70 - 130	6	20
1,2,3-Trichlorobenzene	25.0	25.3		ug/L		101	70 - 130	5	20
1,2,3-Trichloropropane	25.0	28.0		ug/L		112	70 - 130	2	20
1,2,4-Trichlorobenzene	25.0	24.8		ug/L		99	70 - 130	4	20
1,2,4-Trimethylbenzene	25.0	25.3		ug/L		101	70 - 130	4	20
1,2-Dibromo-3-Chloropropane	25.0	26.4		ug/L		106	70 - 130	2	20
1,2-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130	1	20
1,2-Dichloroethane	25.0	27.3		ug/L		109	70 - 130	0	20
1,2-Dichloropropane	25.0	25.8		ug/L		103	70 - 130	2	20
1,3,5-Trimethylbenzene	25.0	24.8		ug/L		99	70 - 130	6	20
1,3-Dichlorobenzene	25.0	25.9		ug/L		104	70 - 130	4	20
1,3-Dichloropropane	25.0	26.3		ug/L		105	70 - 130	2	20
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	2	20
1,4-Dioxane	500	617	*	ug/L		123	70 - 130	48	20
2,2-Dichloropropane	25.0	27.4		ug/L		109	70 - 130	3	20
2-Butanone (MEK)	125	255	*	ug/L		204	70 - 130	4	20
2-Chlorotoluene	25.0	24.6		ug/L		99	70 - 130	4	20
2-Hexanone	125	138		ug/L		110	70 - 130	1	20
4-Chlorotoluene	25.0	24.6		ug/L		98	70 - 130	4	20
4-Isopropyltoluene	25.0	26.3		ug/L		105	70 - 130	5	20
4-Methyl-2-pentanone (MIBK)	125	135		ug/L		108	70 - 130	1	20
Acetone	125	168	*	ug/L		135	70 - 130	4	20
Benzene	25.0	26.9		ug/L		108	70 - 130	4	20
Bromobenzene	25.0	25.5		ug/L		102	70 - 130	3	20

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133886-1

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

Lab Sample ID: LCSD 480-409160/6

Matrix: Water

Analysis Batch: 409160

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Bromoform	25.0	25.7		ug/L		103	70 - 130	0	20
Bromomethane	25.0	27.7		ug/L		111	70 - 130	5	20
Carbon disulfide	25.0	26.6		ug/L		106	70 - 130	3	20
Carbon tetrachloride	25.0	28.7		ug/L		115	70 - 130	6	20
Chlorobenzene	25.0	25.4		ug/L		102	70 - 130	3	20
Chlorobromomethane	25.0	29.0		ug/L		116	70 - 130	1	20
Chlorodibromomethane	25.0	25.9		ug/L		104	70 - 130	1	20
Chloroethane	25.0	26.8		ug/L		107	70 - 130	5	20
Chloroform	25.0	26.6		ug/L		106	70 - 130	4	20
Chloromethane	25.0	19.8		ug/L		79	70 - 130	3	20
cis-1,2-Dichloroethene	25.0	27.5		ug/L		110	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	27.2		ug/L		109	70 - 130	2	20
Dichlorobromomethane	25.0	27.1		ug/L		108	70 - 130	1	20
Dichlorodifluoromethane	25.0	19.6		ug/L		78	70 - 130	4	20
Ethyl ether	25.0	27.5		ug/L		110	70 - 130	2	20
Ethylbenzene	25.0	25.7		ug/L		103	70 - 130	4	20
Ethylene Dibromide	25.0	26.9		ug/L		108	70 - 130	0	20
Hexachlorobutadiene	25.0	27.7		ug/L		111	70 - 130	6	20
Isopropyl ether	25.0	24.6		ug/L		98	70 - 130	1	20
Isopropylbenzene	25.0	24.9		ug/L		100	70 - 130	6	20
Methyl tert-butyl ether	25.0	27.4		ug/L		110	70 - 130	2	20
Methylene Chloride	25.0	24.8		ug/L		99	70 - 130	3	20
m-Xylene & p-Xylene	25.0	25.2		ug/L		101	70 - 130	6	20
Naphthalene	25.0	26.6		ug/L		107	70 - 130	1	20
n-Butylbenzene	25.0	25.9		ug/L		104	70 - 130	5	20
N-Propylbenzene	25.0	24.5		ug/L		98	70 - 130	4	20
o-Xylene	25.0	25.7		ug/L		103	70 - 130	5	20
sec-Butylbenzene	25.0	25.2		ug/L		101	70 - 130	4	20
Styrene	25.0	26.2		ug/L		105	70 - 130	6	20
Tert-amyl methyl ether	25.0	27.8		ug/L		111	70 - 130	3	20
Tert-butyl ethyl ether	25.0	26.1		ug/L		105	70 - 130	0	20
tert-Butylbenzene	25.0	27.3		ug/L		109	70 - 130	8	20
Tetrachloroethene	25.0	28.7		ug/L		115	70 - 130	4	20
Tetrahydrofuran	50.0	69.3	*	ug/L		139	70 - 130	1	20
Toluene	25.0	25.7		ug/L		103	70 - 130	5	20
trans-1,2-Dichloroethene	25.0	26.9		ug/L		107	70 - 130	2	20
trans-1,3-Dichloropropene	25.0	25.4		ug/L		101	70 - 130	4	20
Trichloroethene	25.0	27.7		ug/L		111	70 - 130	6	20
Trichlorofluoromethane	25.0	28.9		ug/L		115	70 - 130	5	20
Vinyl chloride	25.0	22.5		ug/L		90	70 - 130	3	20
Dibromomethane	25.0	28.4		ug/L		114	70 - 130	1	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	95		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133886-1

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

**Lab Sample ID:** MB 200-128389/1-A  
**Matrix:** Water  
**Analysis Batch:** 128413

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 128389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/12/18 09:38	04/12/18 15:46	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	117		46 - 130				04/12/18 09:38	04/12/18 15:46	1

**Lab Sample ID:** LLCS 200-128389/2-A  
**Matrix:** Water  
**Analysis Batch:** 128413

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 128389

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.200	0.289		ug/L		145	50 - 150
Surrogate	%Recovery	LLCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	112		46 - 130				

**Lab Sample ID:** MB 200-128482/1-A  
**Matrix:** Water  
**Analysis Batch:** 128503

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 128482

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/16/18 09:53	04/17/18 08:17	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	118		46 - 130				04/16/18 09:53	04/17/18 08:17	1

**Lab Sample ID:** LCS 200-128482/2-A  
**Matrix:** Water  
**Analysis Batch:** 128503

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 128482

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	8.00	8.87		ug/L		111	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	104		46 - 130				

## Method: 6010 - Metals (ICP)

**Lab Sample ID:** MB 480-408409/1-A  
**Matrix:** Water  
**Analysis Batch:** 408677

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 408409

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050		mg/L		04/12/18 10:42	04/12/18 20:05	1

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133886-1

## Method: 6010 - Metals (ICP) (Continued)

Lab Sample ID: LCS 480-408409/2-A  
Matrix: Water  
Analysis Batch: 408677

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 408409

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	10.3		mg/L		103	80 - 120

Lab Sample ID: LCSD 480-408409/3-A  
Matrix: Water  
Analysis Batch: 408677

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 408409

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	10.0	10.1		mg/L		101	80 - 120	2	20

Lab Sample ID: 480-133886-1 MS  
Matrix: Water  
Analysis Batch: 408677

Client Sample ID: MW-261S-20180410  
Prep Type: Total/NA  
Prep Batch: 408409

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	32		10.0	43.7		mg/L		113	75 - 125

Lab Sample ID: 480-133886-1 MSD  
Matrix: Water  
Analysis Batch: 408677

Client Sample ID: MW-261S-20180410  
Prep Type: Total/NA  
Prep Batch: 408409

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	32		10.0	42.0		mg/L		97	75 - 125	4	20

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-408565/29  
Matrix: Water  
Analysis Batch: 408565

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			04/12/18 19:32	1
Sulfate	ND		2.0		mg/L			04/12/18 19:32	1

Lab Sample ID: LCS 480-408565/28  
Matrix: Water  
Analysis Batch: 408565

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.5		mg/L		97	90 - 110
Sulfate	50.0	47.3		mg/L		95	90 - 110

Lab Sample ID: 480-133886-1 MS  
Matrix: Water  
Analysis Batch: 408565

Client Sample ID: MW-261S-20180410  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	18		100	123		mg/L		105	81 - 120
Sulfate	ND		100	102		mg/L		101	80 - 120

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133886-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: MB 480-408578/29**

**Matrix: Water**

**Analysis Batch: 408578**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			04/12/18 23:26	1
Sulfate	ND		2.0		mg/L			04/12/18 23:26	1

**Lab Sample ID: LCS 480-408578/28**

**Matrix: Water**

**Analysis Batch: 408578**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.7		mg/L		101	90 - 110
Sulfate	50.0	49.4		mg/L		99	90 - 110

**Lab Sample ID: 480-133886-8 MS**

**Matrix: Water**

**Analysis Batch: 408578**

**Client Sample ID: MW-552-20180410**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	10		100	119		mg/L		108	81 - 120
Sulfate	ND		100	107		mg/L		103	80 - 120

**Lab Sample ID: MB 480-408612/28**

**Matrix: Water**

**Analysis Batch: 408612**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			04/13/18 02:21	1
Sulfate	ND		2.0		mg/L			04/13/18 02:21	1

**Lab Sample ID: MB 480-408612/4**

**Matrix: Water**

**Analysis Batch: 408612**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			04/12/18 23:06	1
Sulfate	ND		2.0		mg/L			04/12/18 23:06	1

**Lab Sample ID: LCS 480-408612/27**

**Matrix: Water**

**Analysis Batch: 408612**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.0		mg/L		98	90 - 110
Sulfate	50.0	47.3		mg/L		95	90 - 110

**Lab Sample ID: LCS 480-408612/3**

**Matrix: Water**

**Analysis Batch: 408612**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.1		mg/L		100	90 - 110

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133886-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID:** LCS 480-408612/3  
**Matrix:** Water  
**Analysis Batch:** 408612

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	50.0	48.9		mg/L		98	90 - 110

**Lab Sample ID:** 480-133886-13 MS  
**Matrix:** Water  
**Analysis Batch:** 408612

**Client Sample ID:** REW-7-20180410  
**Prep Type:** Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	7.6		50.0	57.4		mg/L		100	81 - 120
Sulfate	37		50.0	82.2		mg/L		91	80 - 120

## Method: 350.1 - Nitrogen, Ammonia

**Lab Sample ID:** MB 480-408606/1-A  
**Matrix:** Water  
**Analysis Batch:** 408813

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 408606

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		04/12/18 20:14	04/13/18 16:11	1

**Lab Sample ID:** MB 480-408606/1-A  
**Matrix:** Water  
**Analysis Batch:** 409125

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 408606

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		04/12/18 20:14	04/16/18 20:53	1

**Lab Sample ID:** LCS 480-408606/2-A  
**Matrix:** Water  
**Analysis Batch:** 408813

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 408606

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.956		mg/L		96	90 - 110

**Lab Sample ID:** LCS 480-408606/2-A  
**Matrix:** Water  
**Analysis Batch:** 409125

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 408606

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.967		mg/L		97	90 - 110

**Lab Sample ID:** 480-133886-9 MS  
**Matrix:** Water  
**Analysis Batch:** 408813

**Client Sample ID:** MW-553-20180410  
**Prep Type:** Total/NA  
**Prep Batch:** 408606

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.36	F1	0.500	0.796	F1	mg/L		86	90 - 110

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133886-1

## Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 480-133886-10 MS

Matrix: Water

Analysis Batch: 409125

Client Sample ID: MW-560-20180410

Prep Type: Total/NA

Prep Batch: 408606

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Ammonia	1.4		0.500	1.84		mg/L		92	90 - 110

Lab Sample ID: 480-133886-8 DU

Matrix: Water

Analysis Batch: 408813

Client Sample ID: MW-552-20180410

Prep Type: Total/NA

Prep Batch: 408606

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Ammonia	0.28		ND		mg/L		NC	20

## Method: 9040C - pH

Lab Sample ID: 480-133886-1 DU

Matrix: Water

Analysis Batch: 408532

Client Sample ID: MW-261S-20180410

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
pH	6.9	HF	6.9		SU		0.3	5
Temperature	21.5	HF	21.4		Degrees C		0.4	10

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

Lab Sample ID: MB 480-408957/4

Matrix: Water

Analysis Batch: 408957

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			04/14/18 10:18	1
TOC Result 2	ND		1.0		mg/L			04/14/18 10:18	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/14/18 10:18	1

Lab Sample ID: MB 480-408957/52

Matrix: Water

Analysis Batch: 408957

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			04/15/18 08:35	1
TOC Result 2	ND		1.0		mg/L			04/15/18 08:35	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/15/18 08:35	1

Lab Sample ID: LCS 480-408957/5

Matrix: Water

Analysis Batch: 408957

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
TOC Result 1	60.0	58.4		mg/L		97	90 - 110
TOC Result 2	60.0	59.8		mg/L		100	90 - 110
Total Organic Carbon - Duplicates	60.0	59.1		mg/L		99	90 - 110

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133886-1

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

**Lab Sample ID: LCS 480-408957/53**

**Matrix: Water**

**Analysis Batch: 408957**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	59.6		mg/L		99	90 - 110
TOC Result 2	60.0	59.6		mg/L		99	90 - 110
Total Organic Carbon - Duplicates	60.0	59.6		mg/L		99	90 - 110

**Lab Sample ID: 480-133886-2 MS**

**Matrix: Water**

**Analysis Batch: 408957**

**Client Sample ID: MW-267S-20180410**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	1300		880	2240		mg/L		106	54 - 131
TOC Result 2	1300		880	2300		mg/L		110	54 - 131
Total Organic Carbon - Duplicates	1300		880	2270		mg/L		108	54 - 131

**Lab Sample ID: 480-133886-11 MS**

**Matrix: Water**

**Analysis Batch: 408957**

**Client Sample ID: MW-562-20180410**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	17		20.0	39.8		mg/L		115	54 - 131
TOC Result 2	16		20.0	40.1		mg/L		119	54 - 131
Total Organic Carbon - Duplicates	17		20.0	40.0		mg/L		117	54 - 131

**Lab Sample ID: 480-133886-1 DU**

**Matrix: Water**

**Analysis Batch: 408957**

**Client Sample ID: MW-261S-20180410**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
TOC Result 1	1.8		1.99		mg/L		9	20
TOC Result 2	1.8		1.89		mg/L		3	20
Total Organic Carbon - Duplicates	1.8		1.94		mg/L		6	20

**Lab Sample ID: 480-133886-10 DU**

**Matrix: Water**

**Analysis Batch: 408957**

**Client Sample ID: MW-560-20180410**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
TOC Result 1	2.0		2.00		mg/L		0.4	20
TOC Result 2	2.0		1.95		mg/L		3	20
Total Organic Carbon - Duplicates	2.0		1.97		mg/L		2	20



# QC Sample Results

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

TestAmerica Job ID: 480-133886-1

## Method: SM 2320B - Alkalinity

**Lab Sample ID: MB 480-408856/31**  
**Matrix: Water**  
**Analysis Batch: 408856**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			04/14/18 00:01	1

**Lab Sample ID: MB 480-408856/7**  
**Matrix: Water**  
**Analysis Batch: 408856**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			04/13/18 20:52	1

**Lab Sample ID: LCS 480-408856/32**  
**Matrix: Water**  
**Analysis Batch: 408856**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	97.8		mg/L		98	90 - 110

**Lab Sample ID: LCS 480-408856/8**  
**Matrix: Water**  
**Analysis Batch: 408856**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	97.6		mg/L		98	90 - 110

**Lab Sample ID: 480-133886-13 DU**  
**Matrix: Water**  
**Analysis Batch: 408856**

**Client Sample ID: REW-7-20180410**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity, Total	47		47.0		mg/L		0.9	20

## Method: SM 4500 P E - Orthophosphate

**Lab Sample ID: MB 480-408355/3**  
**Matrix: Water**  
**Analysis Batch: 408355**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ortho-Phosphate	ND		0.020		mg/L			04/11/18 12:43	1

**Lab Sample ID: LCS 480-408355/4**  
**Matrix: Water**  
**Analysis Batch: 408355**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.200	0.203		mg/L		102	90 - 110

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133886-1

## Method: SM 4500 P E - Orthophosphate (Continued)

**Lab Sample ID: 480-133886-4 MS**

**Matrix: Water**

**Analysis Batch: 408355**

**Client Sample ID: MW-268S-20180410**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.080		1.00	1.09		mg/L		101	49 - 138

**Lab Sample ID: 480-133886-4 MSD**

**Matrix: Water**

**Analysis Batch: 408355**

**Client Sample ID: MW-268S-20180410**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
ortho-Phosphate	0.080		1.00	1.09		mg/L		101	49 - 138	0	20



# QC Association Summary

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

TestAmerica Job ID: 480-133886-1

## GC/MS VOA

### Analysis Batch: 409097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133886-1	MW-261S-20180410	Total/NA	Water	8260C	
480-133886-2	MW-267S-20180410	Total/NA	Water	8260C	
480-133886-3	MW-267M-20180410	Total/NA	Water	8260C	
480-133886-4	MW-268S-20180410	Total/NA	Water	8260C	
480-133886-5	MW-268M-20180410	Total/NA	Water	8260C	
480-133886-6	MW-268D-20180410	Total/NA	Water	8260C	
480-133886-7	MW-551-20180410	Total/NA	Water	8260C	
480-133886-8	MW-552-20180410	Total/NA	Water	8260C	
480-133886-9	MW-553-20180410	Total/NA	Water	8260C	
480-133886-10	MW-560-20180410	Total/NA	Water	8260C	
480-133886-11	MW-562-20180410	Total/NA	Water	8260C	
480-133886-12	REW-6-20180410	Total/NA	Water	8260C	
480-133886-13	REW-7-20180410	Total/NA	Water	8260C	
480-133886-14	REW-11-20180410	Total/NA	Water	8260C	
480-133886-16	DUP2-20180410	Total/NA	Water	8260C	
480-133886-17	TRIP BLANKS	Total/NA	Water	8260C	
MB 480-409097/8	Method Blank	Total/NA	Water	8260C	
LCS 480-409097/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-409097/6	Lab Control Sample Dup	Total/NA	Water	8260C	

### Analysis Batch: 409160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133886-15	DUP1-20180410	Total/NA	Water	8260C	
MB 480-409160/8	Method Blank	Total/NA	Water	8260C	
LCS 480-409160/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-409160/6	Lab Control Sample Dup	Total/NA	Water	8260C	

## GC/MS Semi VOA

### Prep Batch: 128389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133886-1	MW-261S-20180410	Total/NA	Water	3535A	
480-133886-3	MW-267M-20180410	Total/NA	Water	3535A	
480-133886-4	MW-268S-20180410	Total/NA	Water	3535A	
480-133886-5	MW-268M-20180410	Total/NA	Water	3535A	
480-133886-8	MW-552-20180410	Total/NA	Water	3535A	
MB 200-128389/1-A	Method Blank	Total/NA	Water	3535A	
LLCS 200-128389/2-A	Lab Control Sample	Total/NA	Water	3535A	

### Analysis Batch: 128413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133886-1	MW-261S-20180410	Total/NA	Water	522	128389
480-133886-3	MW-267M-20180410	Total/NA	Water	522	128389
480-133886-4	MW-268S-20180410	Total/NA	Water	522	128389
480-133886-5	MW-268M-20180410	Total/NA	Water	522	128389
480-133886-8	MW-552-20180410	Total/NA	Water	522	128389
MB 200-128389/1-A	Method Blank	Total/NA	Water	522	128389
LLCS 200-128389/2-A	Lab Control Sample	Total/NA	Water	522	128389

TestAmerica Buffalo

# QC Association Summary

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

TestAmerica Job ID: 480-133886-1

## GC/MS Semi VOA (Continued)

### Prep Batch: 128482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133886-2	MW-267S-20180410	Total/NA	Water	3535A	
MB 200-128482/1-A	Method Blank	Total/NA	Water	3535A	
LCS 200-128482/2-A	Lab Control Sample	Total/NA	Water	3535A	

### Analysis Batch: 128503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133886-2	MW-267S-20180410	Total/NA	Water	522	128482
MB 200-128482/1-A	Method Blank	Total/NA	Water	522	128482
LCS 200-128482/2-A	Lab Control Sample	Total/NA	Water	522	128482

## Metals

### Prep Batch: 408409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133886-1	MW-261S-20180410	Total/NA	Water	3005A	
480-133886-2	MW-267S-20180410	Total/NA	Water	3005A	
480-133886-4	MW-268S-20180410	Total/NA	Water	3005A	
480-133886-5	MW-268M-20180410	Total/NA	Water	3005A	
480-133886-8	MW-552-20180410	Total/NA	Water	3005A	
480-133886-9	MW-553-20180410	Total/NA	Water	3005A	
480-133886-10	MW-560-20180410	Total/NA	Water	3005A	
480-133886-11	MW-562-20180410	Total/NA	Water	3005A	
480-133886-12	REW-6-20180410	Total/NA	Water	3005A	
480-133886-13	REW-7-20180410	Total/NA	Water	3005A	
480-133886-14	REW-11-20180410	Total/NA	Water	3005A	
MB 480-408409/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-408409/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-408409/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	
480-133886-1 MS	MW-261S-20180410	Total/NA	Water	3005A	
480-133886-1 MSD	MW-261S-20180410	Total/NA	Water	3005A	

### Analysis Batch: 408677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133886-1	MW-261S-20180410	Total/NA	Water	6010	408409
480-133886-2	MW-267S-20180410	Total/NA	Water	6010	408409
480-133886-4	MW-268S-20180410	Total/NA	Water	6010	408409
480-133886-5	MW-268M-20180410	Total/NA	Water	6010	408409
480-133886-8	MW-552-20180410	Total/NA	Water	6010	408409
480-133886-9	MW-553-20180410	Total/NA	Water	6010	408409
480-133886-10	MW-560-20180410	Total/NA	Water	6010	408409
480-133886-11	MW-562-20180410	Total/NA	Water	6010	408409
480-133886-12	REW-6-20180410	Total/NA	Water	6010	408409
480-133886-13	REW-7-20180410	Total/NA	Water	6010	408409
480-133886-14	REW-11-20180410	Total/NA	Water	6010	408409
MB 480-408409/1-A	Method Blank	Total/NA	Water	6010	408409
LCS 480-408409/2-A	Lab Control Sample	Total/NA	Water	6010	408409
LCSD 480-408409/3-A	Lab Control Sample Dup	Total/NA	Water	6010	408409
480-133886-1 MS	MW-261S-20180410	Total/NA	Water	6010	408409
480-133886-1 MSD	MW-261S-20180410	Total/NA	Water	6010	408409

TestAmerica Buffalo

# QC Association Summary

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

TestAmerica Job ID: 480-133886-1

## General Chemistry

### Analysis Batch: 408355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133886-1	MW-261S-20180410	Total/NA	Water	SM 4500 P E	
480-133886-2	MW-267S-20180410	Total/NA	Water	SM 4500 P E	
480-133886-4	MW-268S-20180410	Total/NA	Water	SM 4500 P E	
480-133886-5	MW-268M-20180410	Total/NA	Water	SM 4500 P E	
480-133886-8	MW-552-20180410	Total/NA	Water	SM 4500 P E	
480-133886-9	MW-553-20180410	Total/NA	Water	SM 4500 P E	
480-133886-10	MW-560-20180410	Total/NA	Water	SM 4500 P E	
480-133886-11	MW-562-20180410	Total/NA	Water	SM 4500 P E	
480-133886-12	REW-6-20180410	Total/NA	Water	SM 4500 P E	
480-133886-13	REW-7-20180410	Total/NA	Water	SM 4500 P E	
480-133886-14	REW-11-20180410	Total/NA	Water	SM 4500 P E	
MB 480-408355/3	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-408355/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	
480-133886-4 MS	MW-268S-20180410	Total/NA	Water	SM 4500 P E	
480-133886-4 MSD	MW-268S-20180410	Total/NA	Water	SM 4500 P E	

### Analysis Batch: 408380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133886-1	MW-261S-20180410	Total/NA	Water	353.2	
480-133886-2	MW-267S-20180410	Total/NA	Water	353.2	
480-133886-4	MW-268S-20180410	Total/NA	Water	353.2	
480-133886-5	MW-268M-20180410	Total/NA	Water	353.2	
480-133886-8	MW-552-20180410	Total/NA	Water	353.2	
480-133886-9	MW-553-20180410	Total/NA	Water	353.2	
480-133886-10	MW-560-20180410	Total/NA	Water	353.2	
480-133886-11	MW-562-20180410	Total/NA	Water	353.2	
480-133886-12	REW-6-20180410	Total/NA	Water	353.2	
480-133886-13	REW-7-20180410	Total/NA	Water	353.2	
480-133886-14	REW-11-20180410	Total/NA	Water	353.2	

### Analysis Batch: 408532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133886-1	MW-261S-20180410	Total/NA	Water	9040C	
480-133886-2	MW-267S-20180410	Total/NA	Water	9040C	
480-133886-4	MW-268S-20180410	Total/NA	Water	9040C	
480-133886-5	MW-268M-20180410	Total/NA	Water	9040C	
480-133886-8	MW-552-20180410	Total/NA	Water	9040C	
480-133886-9	MW-553-20180410	Total/NA	Water	9040C	
480-133886-10	MW-560-20180410	Total/NA	Water	9040C	
480-133886-11	MW-562-20180410	Total/NA	Water	9040C	
480-133886-12	REW-6-20180410	Total/NA	Water	9040C	
480-133886-13	REW-7-20180410	Total/NA	Water	9040C	
480-133886-14	REW-11-20180410	Total/NA	Water	9040C	
LCS 480-408532/1	Lab Control Sample	Total/NA	Water	9040C	
480-133886-1 DU	MW-261S-20180410	Total/NA	Water	9040C	

### Analysis Batch: 408565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133886-1	MW-261S-20180410	Total/NA	Water	300.0	
MB 480-408565/29	Method Blank	Total/NA	Water	300.0	
LCS 480-408565/28	Lab Control Sample	Total/NA	Water	300.0	

TestAmerica Buffalo

# QC Association Summary

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

TestAmerica Job ID: 480-133886-1

## General Chemistry (Continued)

### Analysis Batch: 408565 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133886-1 MS	MW-261S-20180410	Total/NA	Water	300.0	

### Analysis Batch: 408578

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133886-2	MW-267S-20180410	Total/NA	Water	300.0	
480-133886-4	MW-268S-20180410	Total/NA	Water	300.0	
480-133886-5	MW-268M-20180410	Total/NA	Water	300.0	
480-133886-8	MW-552-20180410	Total/NA	Water	300.0	
MB 480-408578/29	Method Blank	Total/NA	Water	300.0	
LCS 480-408578/28	Lab Control Sample	Total/NA	Water	300.0	
480-133886-8 MS	MW-552-20180410	Total/NA	Water	300.0	

### Prep Batch: 408606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133886-1	MW-261S-20180410	Total/NA	Water	Distill/Ammonia	
480-133886-2	MW-267S-20180410	Total/NA	Water	Distill/Ammonia	
480-133886-4	MW-268S-20180410	Total/NA	Water	Distill/Ammonia	
480-133886-5	MW-268M-20180410	Total/NA	Water	Distill/Ammonia	
480-133886-8	MW-552-20180410	Total/NA	Water	Distill/Ammonia	
480-133886-9	MW-553-20180410	Total/NA	Water	Distill/Ammonia	
480-133886-10	MW-560-20180410	Total/NA	Water	Distill/Ammonia	
480-133886-11	MW-562-20180410	Total/NA	Water	Distill/Ammonia	
480-133886-12	REW-6-20180410	Total/NA	Water	Distill/Ammonia	
480-133886-13	REW-7-20180410	Total/NA	Water	Distill/Ammonia	
480-133886-14	REW-11-20180410	Total/NA	Water	Distill/Ammonia	
MB 480-408606/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-408606/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
480-133886-9 MS	MW-553-20180410	Total/NA	Water	Distill/Ammonia	
480-133886-10 MS	MW-560-20180410	Total/NA	Water	Distill/Ammonia	
480-133886-8 DU	MW-552-20180410	Total/NA	Water	Distill/Ammonia	

### Analysis Batch: 408612

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133886-9	MW-553-20180410	Total/NA	Water	300.0	
480-133886-10	MW-560-20180410	Total/NA	Water	300.0	
480-133886-11	MW-562-20180410	Total/NA	Water	300.0	
480-133886-12	REW-6-20180410	Total/NA	Water	300.0	
480-133886-13	REW-7-20180410	Total/NA	Water	300.0	
480-133886-14	REW-11-20180410	Total/NA	Water	300.0	
MB 480-408612/28	Method Blank	Total/NA	Water	300.0	
MB 480-408612/4	Method Blank	Total/NA	Water	300.0	
LCS 480-408612/27	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-408612/3	Lab Control Sample	Total/NA	Water	300.0	
480-133886-13 MS	REW-7-20180410	Total/NA	Water	300.0	

### Analysis Batch: 408813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133886-1	MW-261S-20180410	Total/NA	Water	350.1	408606
480-133886-2	MW-267S-20180410	Total/NA	Water	350.1	408606
480-133886-4	MW-268S-20180410	Total/NA	Water	350.1	408606
480-133886-5	MW-268M-20180410	Total/NA	Water	350.1	408606

TestAmerica Buffalo

# QC Association Summary

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

TestAmerica Job ID: 480-133886-1

## General Chemistry (Continued)

### Analysis Batch: 408813 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133886-8	MW-552-20180410	Total/NA	Water	350.1	408606
480-133886-9	MW-553-20180410	Total/NA	Water	350.1	408606
MB 480-408606/1-A	Method Blank	Total/NA	Water	350.1	408606
LCS 480-408606/2-A	Lab Control Sample	Total/NA	Water	350.1	408606
480-133886-9 MS	MW-553-20180410	Total/NA	Water	350.1	408606
480-133886-8 DU	MW-552-20180410	Total/NA	Water	350.1	408606

### Analysis Batch: 408856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133886-1	MW-261S-20180410	Total/NA	Water	SM 2320B	
480-133886-2	MW-267S-20180410	Total/NA	Water	SM 2320B	
480-133886-4	MW-268S-20180410	Total/NA	Water	SM 2320B	
480-133886-5	MW-268M-20180410	Total/NA	Water	SM 2320B	
480-133886-8	MW-552-20180410	Total/NA	Water	SM 2320B	
480-133886-9	MW-553-20180410	Total/NA	Water	SM 2320B	
480-133886-10	MW-560-20180410	Total/NA	Water	SM 2320B	
480-133886-11	MW-562-20180410	Total/NA	Water	SM 2320B	
480-133886-12	REW-6-20180410	Total/NA	Water	SM 2320B	
480-133886-13	REW-7-20180410	Total/NA	Water	SM 2320B	
480-133886-14	REW-11-20180410	Total/NA	Water	SM 2320B	
MB 480-408856/31	Method Blank	Total/NA	Water	SM 2320B	
MB 480-408856/7	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-408856/32	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-408856/8	Lab Control Sample	Total/NA	Water	SM 2320B	
480-133886-13 DU	REW-7-20180410	Total/NA	Water	SM 2320B	

### Analysis Batch: 408957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133886-1	MW-261S-20180410	Total/NA	Water	9060A	
480-133886-2	MW-267S-20180410	Total/NA	Water	9060A	
480-133886-4	MW-268S-20180410	Total/NA	Water	9060A	
480-133886-5	MW-268M-20180410	Total/NA	Water	9060A	
480-133886-8	MW-552-20180410	Total/NA	Water	9060A	
480-133886-9	MW-553-20180410	Total/NA	Water	9060A	
480-133886-10	MW-560-20180410	Total/NA	Water	9060A	
480-133886-11	MW-562-20180410	Total/NA	Water	9060A	
480-133886-12	REW-6-20180410	Total/NA	Water	9060A	
480-133886-13	REW-7-20180410	Total/NA	Water	9060A	
480-133886-14	REW-11-20180410	Total/NA	Water	9060A	
MB 480-408957/4	Method Blank	Total/NA	Water	9060A	
MB 480-408957/52	Method Blank	Total/NA	Water	9060A	
LCS 480-408957/5	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-408957/53	Lab Control Sample	Total/NA	Water	9060A	
480-133886-2 MS	MW-267S-20180410	Total/NA	Water	9060A	
480-133886-11 MS	MW-562-20180410	Total/NA	Water	9060A	
480-133886-1 DU	MW-261S-20180410	Total/NA	Water	9060A	
480-133886-10 DU	MW-560-20180410	Total/NA	Water	9060A	

### Analysis Batch: 409125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133886-10	MW-560-20180410	Total/NA	Water	350.1	408606

TestAmerica Buffalo

# QC Association Summary

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

TestAmerica Job ID: 480-133886-1

## General Chemistry (Continued)

### Analysis Batch: 409125 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133886-11	MW-562-20180410	Total/NA	Water	350.1	408606
480-133886-12	REW-6-20180410	Total/NA	Water	350.1	408606
480-133886-13	REW-7-20180410	Total/NA	Water	350.1	408606
480-133886-14	REW-11-20180410	Total/NA	Water	350.1	408606
MB 480-408606/1-A	Method Blank	Total/NA	Water	350.1	408606
LCS 480-408606/2-A	Lab Control Sample	Total/NA	Water	350.1	408606
480-133886-10 MS	MW-560-20180410	Total/NA	Water	350.1	408606



# Lab Chronicle

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-261S-20180410**

**Lab Sample ID: 480-133886-1**

Date Collected: 04/10/18 09:20

Matrix: Water

Date Received: 04/11/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409097	04/16/18 23:12	RRS	TAL BUF
Total/NA	Prep	3535A			128389	04/12/18 09:38	AKH	TAL BUR
Total/NA	Analysis	522		1	128413	04/12/18 19:19	TPB	TAL BUR
Total/NA	Prep	3005A			408409	04/12/18 10:42	JAK	TAL BUF
Total/NA	Analysis	6010		1	408677	04/12/18 20:15	LMH	TAL BUF
Total/NA	Analysis	300.0		2	408565	04/12/18 22:09	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			408606	04/12/18 20:14	DCB	TAL BUF
Total/NA	Analysis	350.1		1	408813	04/13/18 16:13	DCB	TAL BUF
Total/NA	Analysis	353.2		1	408380	04/11/18 17:39	DCB	TAL BUF
Total/NA	Analysis	9040C		1	408532	04/12/18 10:31	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	408957	04/14/18 11:14	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	408856	04/13/18 22:42	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	408355	04/11/18 12:43	DSC	TAL BUF

**Client Sample ID: MW-267S-20180410**

**Lab Sample ID: 480-133886-2**

Date Collected: 04/10/18 11:15

Matrix: Water

Date Received: 04/11/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	409097	04/16/18 23:36	RRS	TAL BUF
Total/NA	Prep	3535A			128482	04/16/18 09:53	SAC	TAL BUR
Total/NA	Analysis	522		1	128503	04/16/18 13:56	TPB	TAL BUR
Total/NA	Prep	3005A			408409	04/12/18 10:42	JAK	TAL BUF
Total/NA	Analysis	6010		1	408677	04/12/18 20:44	LMH	TAL BUF
Total/NA	Analysis	300.0		5	408578	04/13/18 03:20	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			408606	04/12/18 20:14	DCB	TAL BUF
Total/NA	Analysis	350.1		1	408813	04/13/18 16:14	DCB	TAL BUF
Total/NA	Analysis	353.2		1	408380	04/11/18 17:40	DCB	TAL BUF
Total/NA	Analysis	9040C		1	408532	04/12/18 10:37	ALZ	TAL BUF
Total/NA	Analysis	9060A		40	408957	04/14/18 12:09	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	408856	04/13/18 22:54	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	408355	04/11/18 12:43	DSC	TAL BUF

**Client Sample ID: MW-267M-20180410**

**Lab Sample ID: 480-133886-3**

Date Collected: 04/10/18 12:00

Matrix: Water

Date Received: 04/11/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	409097	04/17/18 00:00	RRS	TAL BUF
Total/NA	Prep	3535A			128389	04/12/18 09:38	AKH	TAL BUR
Total/NA	Analysis	522		1	128413	04/13/18 10:45	TPB	TAL BUR

TestAmerica Buffalo

# Lab Chronicle

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-268S-20180410**

**Lab Sample ID: 480-133886-4**

Date Collected: 04/10/18 07:15

Matrix: Water

Date Received: 04/11/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	409097	04/17/18 00:24	RRS	TAL BUF
Total/NA	Prep	3535A			128389	04/12/18 09:38	AKH	TAL BUR
Total/NA	Analysis	522		2	128413	04/13/18 11:00	TPB	TAL BUR
Total/NA	Prep	3005A			408409	04/12/18 10:42	JAK	TAL BUF
Total/NA	Analysis	6010		1	408677	04/12/18 20:51	LMH	TAL BUF
Total/NA	Analysis	300.0		1	408578	04/13/18 03:34	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			408606	04/12/18 20:14	DCB	TAL BUF
Total/NA	Analysis	350.1		1	408813	04/13/18 16:15	DCB	TAL BUF
Total/NA	Analysis	353.2		1	408380	04/11/18 12:42	DCB	TAL BUF
Total/NA	Analysis	9040C		1	408532	04/12/18 10:39	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	408957	04/14/18 13:05	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	408856	04/13/18 23:01	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	408355	04/11/18 12:43	DSC	TAL BUF

**Client Sample ID: MW-268M-20180410**

**Lab Sample ID: 480-133886-5**

Date Collected: 04/10/18 08:00

Matrix: Water

Date Received: 04/11/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	409097	04/17/18 00:48	RRS	TAL BUF
Total/NA	Prep	3535A			128389	04/12/18 09:38	AKH	TAL BUR
Total/NA	Analysis	522		1	128413	04/12/18 20:20	TPB	TAL BUR
Total/NA	Prep	3005A			408409	04/12/18 10:42	JAK	TAL BUF
Total/NA	Analysis	6010		1	408677	04/12/18 20:55	LMH	TAL BUF
Total/NA	Analysis	300.0		2	408578	04/13/18 03:49	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			408606	04/12/18 20:14	DCB	TAL BUF
Total/NA	Analysis	350.1		1	408813	04/13/18 16:16	DCB	TAL BUF
Total/NA	Analysis	353.2		1	408380	04/11/18 17:41	DCB	TAL BUF
Total/NA	Analysis	9040C		1	408532	04/12/18 10:42	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	408957	04/14/18 13:33	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	408856	04/13/18 23:08	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	408355	04/11/18 12:43	DSC	TAL BUF

**Client Sample ID: MW-268D-20180410**

**Lab Sample ID: 480-133886-6**

Date Collected: 04/10/18 08:45

Matrix: Water

Date Received: 04/11/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	409097	04/17/18 01:11	RRS	TAL BUF

# Lab Chronicle

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-551-20180410**

**Lab Sample ID: 480-133886-7**

Date Collected: 04/10/18 11:10

Matrix: Water

Date Received: 04/11/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409097	04/17/18 01:35	RRS	TAL BUF

**Client Sample ID: MW-552-20180410**

**Lab Sample ID: 480-133886-8**

Date Collected: 04/10/18 10:20

Matrix: Water

Date Received: 04/11/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409097	04/17/18 01:59	RRS	TAL BUF
Total/NA	Prep	3535A			128389	04/12/18 09:38	AKH	TAL BUR
Total/NA	Analysis	522		1	128413	04/13/18 11:16	TPB	TAL BUR
Total/NA	Prep	3005A			408409	04/12/18 10:42	JAK	TAL BUF
Total/NA	Analysis	6010		1	408677	04/12/18 20:59	LMH	TAL BUF
Total/NA	Analysis	300.0		2	408578	04/13/18 04:03	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			408606	04/12/18 20:14	DCB	TAL BUF
Total/NA	Analysis	350.1		1	408813	04/13/18 16:16	DCB	TAL BUF
Total/NA	Analysis	353.2		1	408380	04/11/18 12:47	DCB	TAL BUF
Total/NA	Analysis	9040C		1	408532	04/12/18 10:44	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	408957	04/14/18 14:01	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	408856	04/13/18 23:15	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	408355	04/11/18 12:43	DSC	TAL BUF

**Client Sample ID: MW-553-20180410**

**Lab Sample ID: 480-133886-9**

Date Collected: 04/10/18 11:50

Matrix: Water

Date Received: 04/11/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409097	04/17/18 02:23	RRS	TAL BUF
Total/NA	Prep	3005A			408409	04/12/18 10:42	JAK	TAL BUF
Total/NA	Analysis	6010		1	408677	04/12/18 21:02	LMH	TAL BUF
Total/NA	Analysis	300.0		5	408612	04/13/18 01:08	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			408606	04/12/18 20:14	DCB	TAL BUF
Total/NA	Analysis	350.1		1	408813	04/13/18 16:18	DCB	TAL BUF
Total/NA	Analysis	353.2		1	408380	04/11/18 17:42	DCB	TAL BUF
Total/NA	Analysis	9040C		1	408532	04/12/18 10:47	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	408957	04/14/18 14:29	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	408856	04/13/18 23:26	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	408355	04/11/18 12:43	DSC	TAL BUF

# Lab Chronicle

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: MW-560-20180410**

**Lab Sample ID: 480-133886-10**

**Date Collected: 04/10/18 13:35**

**Matrix: Water**

**Date Received: 04/11/18 01:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409097	04/17/18 02:47	RRS	TAL BUF
Total/NA	Prep	3005A			408409	04/12/18 10:42	JAK	TAL BUF
Total/NA	Analysis	6010		1	408677	04/12/18 21:06	LMH	TAL BUF
Total/NA	Analysis	300.0		2	408612	04/13/18 01:16	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			408606	04/12/18 20:14	DCB	TAL BUF
Total/NA	Analysis	350.1		1	409125	04/16/18 20:55	DCB	TAL BUF
Total/NA	Analysis	353.2		1	408380	04/11/18 12:51	DCB	TAL BUF
Total/NA	Analysis	9040C		1	408532	04/12/18 10:49	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	408957	04/14/18 15:52	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	408856	04/13/18 23:34	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	408355	04/11/18 12:43	DSC	TAL BUF

**Client Sample ID: MW-562-20180410**

**Lab Sample ID: 480-133886-11**

**Date Collected: 04/10/18 12:45**

**Matrix: Water**

**Date Received: 04/11/18 01:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	409097	04/17/18 03:11	RRS	TAL BUF
Total/NA	Prep	3005A			408409	04/12/18 10:42	JAK	TAL BUF
Total/NA	Analysis	6010		1	408677	04/12/18 21:10	LMH	TAL BUF
Total/NA	Analysis	300.0		2	408612	04/13/18 01:24	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			408606	04/12/18 20:14	DCB	TAL BUF
Total/NA	Analysis	350.1		2	409125	04/16/18 21:54	DCB	TAL BUF
Total/NA	Analysis	353.2		1	408380	04/11/18 17:44	DCB	TAL BUF
Total/NA	Analysis	9040C		1	408532	04/12/18 10:52	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	408957	04/14/18 16:48	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	408856	04/13/18 23:42	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	408355	04/11/18 12:43	DSC	TAL BUF

**Client Sample ID: REW-6-20180410**

**Lab Sample ID: 480-133886-12**

**Date Collected: 04/10/18 10:25**

**Matrix: Water**

**Date Received: 04/11/18 01:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	409097	04/17/18 03:35	RRS	TAL BUF
Total/NA	Prep	3005A			408409	04/12/18 10:42	JAK	TAL BUF
Total/NA	Analysis	6010		1	408677	04/12/18 21:24	LMH	TAL BUF
Total/NA	Analysis	300.0		10	408612	04/13/18 01:32	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			408606	04/12/18 20:14	DCB	TAL BUF
Total/NA	Analysis	350.1		1	409125	04/16/18 21:55	DCB	TAL BUF
Total/NA	Analysis	353.2		1	408380	04/11/18 17:45	DCB	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

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

TestAmerica Job ID: 480-133886-1

**Client Sample ID: REW-6-20180410**

**Lab Sample ID: 480-133886-12**

Date Collected: 04/10/18 10:25

Matrix: Water

Date Received: 04/11/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9040C		1	408532	04/12/18 10:55	ALZ	TAL BUF
Total/NA	Analysis	9060A		80	408957	04/14/18 17:44	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	408856	04/14/18 00:21	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	408355	04/11/18 12:43	DSC	TAL BUF

**Client Sample ID: REW-7-20180410**

**Lab Sample ID: 480-133886-13**

Date Collected: 04/10/18 12:45

Matrix: Water

Date Received: 04/11/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409097	04/17/18 03:59	RRS	TAL BUF
Total/NA	Prep	3005A			408409	04/12/18 10:42	JAK	TAL BUF
Total/NA	Analysis	6010		1	408677	04/12/18 21:32	LMH	TAL BUF
Total/NA	Analysis	300.0		1	408612	04/13/18 01:41	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			408606	04/12/18 20:14	DCB	TAL BUF
Total/NA	Analysis	350.1		1	409125	04/16/18 21:56	DCB	TAL BUF
Total/NA	Analysis	353.2		1	408380	04/11/18 12:55	DCB	TAL BUF
Total/NA	Analysis	9040C		1	408532	04/12/18 11:00	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	408957	04/14/18 18:12	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	408856	04/14/18 00:28	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	408355	04/11/18 12:43	DSC	TAL BUF

**Client Sample ID: REW-11-20180410**

**Lab Sample ID: 480-133886-14**

Date Collected: 04/10/18 09:20

Matrix: Water

Date Received: 04/11/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	409097	04/17/18 04:23	RRS	TAL BUF
Total/NA	Prep	3005A			408409	04/12/18 10:42	JAK	TAL BUF
Total/NA	Analysis	6010		1	408677	04/12/18 21:36	LMH	TAL BUF
Total/NA	Analysis	300.0		10	408612	04/13/18 02:29	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			408606	04/12/18 20:14	DCB	TAL BUF
Total/NA	Analysis	350.1		1	409125	04/16/18 20:58	DCB	TAL BUF
Total/NA	Analysis	353.2		1	408380	04/11/18 17:50	DCB	TAL BUF
Total/NA	Analysis	9040C		1	408532	04/12/18 11:03	ALZ	TAL BUF
Total/NA	Analysis	9060A		50	408957	04/14/18 18:39	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	408856	04/14/18 00:49	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	408355	04/11/18 12:43	DSC	TAL BUF

# Lab Chronicle

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

TestAmerica Job ID: 480-133886-1

## Client Sample ID: DUP1-20180410

Lab Sample ID: 480-133886-15

Date Collected: 04/10/18 00:00

Matrix: Water

Date Received: 04/11/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409160	04/17/18 14:45	AEM	TAL BUF

## Client Sample ID: DUP2-20180410

Lab Sample ID: 480-133886-16

Date Collected: 04/10/18 00:00

Matrix: Water

Date Received: 04/11/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	409097	04/17/18 05:11	RRS	TAL BUF

## Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-133886-17

Date Collected: 04/10/18 00:00

Matrix: Water

Date Received: 04/11/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409097	04/17/18 05:35	RRS	TAL BUF

### Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

# Accreditation/Certification Summary

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

TestAmerica Job ID: 480-133886-1

## Laboratory: TestAmerica Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-18
California	State Program	9	2931	04-01-19
Connecticut	State Program	1	PH-0568	09-30-18
Florida	NELAP	4	E87672	06-30-18
Georgia	State Program	4	956	03-31-18 *
Illinois	NELAP	5	200003	09-30-18
Iowa	State Program	7	374	03-01-19
Kansas	NELAP	7	E-10187	01-31-19
Kentucky (DW)	State Program	4	90029	12-31-18
Kentucky (UST)	State Program	4	30	03-31-19
Kentucky (WW)	State Program	4	90029	12-31-18
Louisiana	NELAP	6	02031	06-30-18
Maine	State Program	1	NY00044	12-04-18
Maryland	State Program	3	294	03-31-19
Massachusetts	State Program	1	M-NY044	06-30-18
Michigan	State Program	5	9937	03-31-19
Minnesota	NELAP	5	036-999-337	12-31-18
New Hampshire	NELAP	1	2337	11-17-18
New Jersey	NELAP	2	NY455	06-30-18
New York	NELAP	2	10026	03-31-18 *
North Dakota	State Program	8	R-176	03-31-18 *
Oklahoma	State Program	6	9421	08-31-18
Oregon	NELAP	10	NY200003	06-09-18
Pennsylvania	NELAP	3	68-00281	07-31-18
Rhode Island	State Program	1	LAO00328	12-30-18
Tennessee	State Program	4	TN02970	03-31-19
Texas	NELAP	6	T104704412-15-6	07-31-18
USDA	Federal		P330-11-00386	02-06-21
Virginia	NELAP	3	460185	09-14-18
Washington	State Program	10	C784	02-10-19
Wisconsin	State Program	5	998310390	08-31-18

## Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
ANAB	DoD ELAP		L2336	02-25-20
Connecticut	State Program	1	PH-0751	09-30-19
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-01-19
Florida	NELAP	4	E87467	06-30-18
Maine	State Program	1	VT00008	04-17-19
Minnesota	NELAP	5	050-999-436	12-31-18
New Jersey	NELAP	2	VT972	06-30-18
New York	NELAP	2	10391	04-01-19
Pennsylvania	NELAP	3	68-00489	04-30-18 *
Rhode Island	State Program	1	LAO00298	12-30-18
US Fish & Wildlife	Federal		LE-058448-0	07-31-18
USDA	Federal		P330-11-00093	07-24-20
Vermont	State Program	1	VT-4000	12-31-18
Virginia	NELAP	3	460209	12-14-18

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Buffalo

# Method Summary

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

TestAmerica Job ID: 480-133886-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
522	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR
6010	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
9040C	pH	SW846	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 4500 P E	Orthophosphate	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3535A	Solid Phase Extraction (SPE)	SW846	TAL BUR
5030C	Purge and Trap	SW846	TAL BUF
Distill/Ammonia	Distillation, Ammonia	None	TAL BUF

#### Protocol References:

EPA = US Environmental Protection Agency

MA DEP = Massachusetts Department Of Environmental Protection

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990



# Sample Summary

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

TestAmerica Job ID: 480-133886-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-133886-1	MW-261S-20180410	Water	04/10/18 09:20	04/11/18 01:00
480-133886-2	MW-267S-20180410	Water	04/10/18 11:15	04/11/18 01:00
480-133886-3	MW-267M-20180410	Water	04/10/18 12:00	04/11/18 01:00
480-133886-4	MW-268S-20180410	Water	04/10/18 07:15	04/11/18 01:00
480-133886-5	MW-268M-20180410	Water	04/10/18 08:00	04/11/18 01:00
480-133886-6	MW-268D-20180410	Water	04/10/18 08:45	04/11/18 01:00
480-133886-7	MW-551-20180410	Water	04/10/18 11:10	04/11/18 01:00
480-133886-8	MW-552-20180410	Water	04/10/18 10:20	04/11/18 01:00
480-133886-9	MW-553-20180410	Water	04/10/18 11:50	04/11/18 01:00
480-133886-10	MW-560-20180410	Water	04/10/18 13:35	04/11/18 01:00
480-133886-11	MW-562-20180410	Water	04/10/18 12:45	04/11/18 01:00
480-133886-12	REW-6-20180410	Water	04/10/18 10:25	04/11/18 01:00
480-133886-13	REW-7-20180410	Water	04/10/18 12:45	04/11/18 01:00
480-133886-14	REW-11-20180410	Water	04/10/18 09:20	04/11/18 01:00
480-133886-15	DUP1-20180410	Water	04/10/18 00:00	04/11/18 01:00
480-133886-16	DUP2-20180410	Water	04/10/18 00:00	04/11/18 01:00
480-133886-17	TRIP BLANKS	Water	04/10/18 00:00	04/11/18 01:00

## Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-133886-1

**Login Number: 133886**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Kinecki, Kenneth P**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	IESI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

## Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-133886-1

**Login Number: 133886**

**List Source: TestAmerica Burlington**

**List Number: 2**

**List Creation: 04/11/18 01:19 PM**


**Creator: Johnson, Eleanor E**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.0°C, 0.9°C, 0.4°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

**Client Information:**  
 Client Contact: Vicki Penney  
 Address: 25 Spring St  
 City: Wolpole  
 State and Zip: MA 02081  
 Client's Phone: 508-668-0033  
 Client's Contact Email: v.penney@tesradia.com  
 Client Project Number: RA-008  
 Sample Collection Site Name & Location: Wolpole, MA

**Sample Information:**  
 Sample Collector's Name (Please Print Neatly): Donna Sassi, South West  
 Sample Collector's Phone: 508-404-3196  
 Lab PM: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_

**Analysis Requested:**  
 Due Date Requested: 4/10/18  
 Turnaround Time (TAT) Requested (business days): 5 days  
 Quote # or Project #: RA-008  
 PO #: \_\_\_\_\_  
 WO #: \_\_\_\_\_  
 PWS ID #: \_\_\_\_\_

**Lab COC Barcode Label:**  
 Lab COC Barcode Label:   
 480-133886 COC

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Analysis Requested										Total Number of Containers (enter total for each line)	Special Instructions & Notes:	
					9060A TOC	9040C-PH, 90010-88D 5031F	3501 NH4	6010MCP Total Iron	3330B Alkalinity	4500 Ozone	3500 Chloride	3500 Nitrate	3500 Nitrite	3500 Ammonia			3500 Cyanide
MW-2615 - 20180410	4/10/18	0930	C	W	X	X	X	X	X	X	X	X	X	X	X	11	GW-3 Requirements
MW-2673 - 20180410	4/10/18	1115	C	W	X	X	X	X	X	X	X	X	X	X	X	11	
MW-267M - 20180410	4/10/18	1200	C	W	X	X	X	X	X	X	X	X	X	X	X	4	
MW-2683 - 20180410	4/10/18	0715	C	W	X	X	X	X	X	X	X	X	X	X	X	11	
MW-263M - 20180410	4/10/18	0800	C	W	X	X	X	X	X	X	X	X	X	X	X	11	
MW-268D - 20180410	4/10/18	0845	C	W	X	X	X	X	X	X	X	X	X	X	X	3	
MW-551 - 20180410	4/10/18	1110	C	W	X	X	X	X	X	X	X	X	X	X	X	3	
MW-553 - 20180410	4/10/18	1230	C	W	X	X	X	X	X	X	X	X	X	X	X	11	
MW-560 - 20180410	4/10/18	1150	C	W	X	X	X	X	X	X	X	X	X	X	X	10	
MW-560 - 20180410	4/10/18	1335	C	W	X	X	X	X	X	X	X	X	X	X	X	10	

**Preservation Codes:**  
 A - Hydrochloric Acid  
 B - Sodium Hydroxide  
 C - Zinc Acetate  
 D - Nitric Acid  
 E - Sodium Bisulfite  
 F - Methanol  
 H - Ascorbic Acid  
 J - Deionized Water  
 M - Hexane  
 N - No Preservative  
 P - Sodium Sulfate  
 Q - Sodium Sulfite  
 R - Sodium Thiosulfate  
 S - Sulfuric Acid  
 Z - other (specify)

**Regulatory Programs:**  
 MCP  GW/IS   
 RCP  CT RSR   
 DEP Form  EDD Required   
 eDEP Filing  NPDES

**SUBCONTRACT POLICY:**  
 Unless you provide instructions to the contrary, or specify which sub-contract labs are or are not to be used, you agree in advance to permit TestAmerica to use certified, sub-contract labs, without any additional notification made by us, as necessary to fulfill your work order.

**Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):**  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

**NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!**

**Relinquished by:** [Signature] Date/Time: 4/10/18 Company: TEST  
**Relinquished by:** [Signature] Date/Time: 4-10-18 Company: TEST  
**Relinquished by:** [Signature] Date/Time: 4/10/18 Company: TEST

**Custody Seals Intact:**  Yes  No  
 Custody Seal No.: \_\_\_\_\_  
 Cooler Temperature(s) °C and Other Remarks: 1.3, 2.3, 1.7°C



**TestAmerica Westfield**  
501 Southampton Road  
Westfield MA 01085  
Phone: (413) 572-4000 Fax: (303) 467-7247

**TestAmerica Boston**  
240 Bear Hill Road - Suite 104  
Waltham MA 02451  
Phone: (781) 466-6900 Fax: (781) 466-6901

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

**Client Information:**  
Client Contact: *Viggo Pennington*  
Company: *Innovative Engineering Solutions Inc*  
Address: *25 Sperry St*  
City: *Worcester*  
State and Zip: *MA 02081*  
Client's Phone: *508-667-0033*  
Client's Contact Email: *v.pennington@iesi-solutions.com*  
Client's Project Name/Number: *Realtime Wayland RA-008*  
Sample Collection Site Name & Location: *Wayland MA*

Sample Collector's Name (Please Print Neatly): *Devin Soars* Lab PM:  
Sample Collector's Phone: *508-404-3196* E-Mail:  
COC No: **40778**  
Page: **2** of **2**  
Job #:

**Analysis Requested**

Analysis Requested	A	A	N	S	D	N	N
8250C	X	X	X	X	X	X	X
9060A TOC	X	X	X	X	X	X	X
9060C PH, 300.0 mg SO <sub>4</sub> /CL	X	X	X	X	X	X	X
3501 NH <sub>3</sub>	X	X	X	X	X	X	X
6010 mg Total Lead	X	X	X	X	X	X	X
4502-502 Alkalinity	X	X	X	X	X	X	X
4502-502 Hardness	X	X	X	X	X	X	X

**Sample Identification**

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Preservation Codes =>
MW-562-20180410	4/10/18	1245	C	W	
REW-6-20180410	4/10/18	1025	C	W	
REW-7-20180410	4/10/18	1245	C	W	
REW-11-20180410	4/10/18	0930	C	W	
Dup1-20180410	4/10/18	-	C	W	
Dup2-20180410	4/10/18	-	C	W	
Temp Blank	-	-	-	W	

**Special Instructions & Notes:**  
10 SW-3 assignments

**Regulatory Programs:**  
MCP  GW/IS1   
RCP  CT RSR   
DEP Form  EDD Required   
eDEP Filing  NPDES

**Preservation Codes =>**

**Subcontract Policy:**  
Unless you provide in-advance to permit TestAmerica to use certified, subcontract labs, without instructions to the contrary, or any additional notification made by us, as necessary to fulfill your work order used, you agree in

**Possible Hazard Identification (please check off each that may apply):**  
 Non-Hazard  
 Flammable  
 Skin Irritant  
 Poison B  
 Unknown  
 Radiological  
 Matrix Types: A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other:

**Relinquished by:** *[Signature]* Date/Time: *4/10/18* Company: *JES*  
**Relinquished by:** *[Signature]* Date/Time: *4-10-18* Company: *TP*  
**Relinquished by:** *[Signature]* Date/Time: *4-10-18* Company: *TP*

**Custody Seals Intact:**  Yes  No  
**Custody Seal No.:** *1, 3, 2, 3, 1, 7, C, 4, 9*

**Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):**  
 Return To Client  
 Disposal By Lab  
 Archive For \_\_\_\_\_ Months  
**NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!**

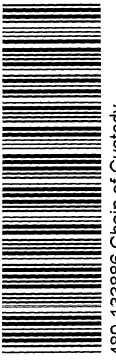
**Received by:** *[Signature]* Date/Time: *4-10-18* Company: *TP*  
**Received by:** *[Signature]* Date/Time: *4/11/18* Company: *VAS*  
**Received by:** *[Signature]* Date/Time: *0100* Company: *VAS*

**Cooler Temperature(s) °C and Other Remarks:** *1.3, 2.3, 1.7, C, 4, 9*

Revised 10/29/2014  
TAL-8245-350R

WI-QA-010 rev B

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480-133886 Chain of Custody

**TestAmerica Boston**  
240 Bear Hill Road -- Suite 104  
Waltham MA 02451  
Phone: (781) 466-6900 Fax: (781) 466-6901

**TestAmerica Westfield**  
501 Southampton Road  
Westfield MA 01085  
Phone: (413) 572-4000 Fax: (303) 467-7247

**Client Information:**  
Client Contact: *Vicki Perrine*  
Company: *Industate Engineering Solutions Inc.*  
Address: *25 Spring St  
Waldpole MA 02081*  
City: *Waldpole*  
State and Zip: *MA 02081*  
Client's Phone: *508-628-0033*  
Client's Contact Email: *v.perrine@industate.com*  
Client's Project Number: *RA-008*  
Sample Collection Site Name & Location: *Waldpole MA*

Sample Collector's Name (Please Print Neatly):  
*Dan Soars, Scott Hirsch*  
Sample Collector's Phone: *508-404-3196*  
Lab PM:  
E-Mail:

COC No: **40777**  
Page: **1** of **3**  
Job #:

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Analysis Requested											Total Number of Containers (enter total for each line)	Special Instructions & Notes:	
					9060A 70C	9060B PH, 3000-88D 503 CF	3501 NH3	6000MP Total Tors	3300B Alkalinity	3300C	3300D	3300E	3300F	3300G	3300H			3300I
MW-2615 - 20180410	4/10/18	0930	G	W	X	X	X	X	X	X	X	X	X	X	X	X	11	CW-3 Requirements  522 1-4 Diol To Burlington
MW-2623 - 20180410	4/10/18	1115	G	W	X	X	X	X	X	X	X	X	X	X	X	X	11	
MW-267M - 20180410	4/10/18	1200	G	W	X	X	X	X	X	X	X	X	X	X	X	X	4	
MW-268Z - 20180410	4/10/18	0715	G	W	X	X	X	X	X	X	X	X	X	X	X	X	11	
MW-263M - 20180410	4/10/18	0800	G	W	X	X	X	X	X	X	X	X	X	X	X	X	11	
MW-268D - 20180410	4/10/18	0845	G	W	X	X	X	X	X	X	X	X	X	X	X	X	3	
MW-551 - 20180410	4/10/18	1110	G	W	X	X	X	X	X	X	X	X	X	X	X	X	3	
MW-552 - 20180410	4/10/18	1020	G	W	X	X	X	X	X	X	X	X	X	X	X	X	11	
MW-553 - 20180410	4/10/18	1150	G	W	X	X	X	X	X	X	X	X	X	X	X	X	10	
MW-560 - 20180410	4/10/18	1335	G	W	X	X	X	X	X	X	X	X	X	X	X	X	10	

**Possible Hazard Identification (please check off each that may apply):**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
**\*\* Matrix Types:** A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other

**Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):**  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

**NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!**

Relinquished by: *[Signature]* Date/Time: *4/10/18* Company: *TEST*  
 Relinquished by: *[Signature]* Date/Time: *4-10-18* Company: *TEST*  
 Relinquished by: *[Signature]* Date/Time: *4/11/18 1025* Company: *TA*

Custody Seal No.:  Yes  No  Intact:  Custody Seal No.: \_\_\_\_\_  
 Cooler Temperature(s) °C and Other Remarks: \_\_\_\_\_

**TestAmerica Westfield**  
 501 Southampton Road  
 Westfield MA 01085  
 Phone: (413) 572-4000 Fax: (303) 467-7247

**TestAmerica Boston**  
 240 Bear Hill Road -- Suite 104  
 Waltham MA 02451  
 Phone: (781) 466-6900 Fax: (781) 466-6901

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

**Client Information:**  
 Client Contact: Viggo Pennington  
 Company: Investive Engineering Solutions Inc  
 Address: 25 Sparks St  
 City: Waltham  
 State and Zip: MA 02451  
 Client's Phone: 508-667-0033  
 Client's Contact Email: v.pennington@investive.com  
 Client's Project Name/Number: Investive Waltham RA-008  
 Sample Collection Site Name & Location: Waltham MA

Sample Collector's Name (Please Print Neatly): Dan Sorensen  
 Sample Collector's Phone: 508-404-3196  
 Lab P.M. E-Mail:  
 Due Date Requested: 4/17/18  
 Turnaround Time (TAT) Requested (business days): 5 days  
 Quote # or Project #: RA-008  
 PO #: RA-008  
 WO #:  
 PWS ID #:

Lab COC Barcode Label  
 COC No: 40778  
 Page: 2 of 2  
 Job #:

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Analysis Requested											Total Number of Containers (enter total for each line)	Special Instructions & Notes:	
					8260C	9608 TOC	9608 pH, 30.0.980 502/C	350, NH3	600 mg Total Lead	3720B Alkalinity	4500-PH	4500-Calc	4500-Cl	4500-Flu	4500-NH3			
MW-562-20180410	4/10/18	1245	C	W	X	X	X	X	X	X	X	X	X	X	X	X	10	GW-3 REGULATORY
RAW-6-20180410	4/10/18	1025	C	W	X	X	X	X	X	X	X	X	X	X	X	X	10	
RAW-7-20180410	4/10/18	1245	C	W	X	X	X	X	X	X	X	X	X	X	X	X	10	
RAW-11-20180410	4/10/18	0930	C	W	X	X	X	X	X	X	X	X	X	X	X	X	10	
Dup1-20180410	4/10/18	-	C	W	X	X	X	X	X	X	X	X	X	X	X	X	3	
Dup2-20180410	4/10/18	-	C	W	X	X	X	X	X	X	X	X	X	X	X	X	3	
Imp Blank	-	-	-	W	X	X	X	X	X	X	X	X	X	X	X	X	2	

**Preservation Codes:**  
 A - Hydrochloric Acid J - Deionized Water  
 B - Sodium Hydroxide M - Hexane  
 C - Zinc Acetate N - No Preservative  
 D - Nitric Acid P - Sodium Sulfate  
 E - Sodium Bisulfite Q - Sodium Sulfite  
 F - Methanol R - Sodium Thiosulfate  
 H - Ascorbic Acid S - Sulfuric Acid  
 Z - other (specify)

**Regulatory Programs:**  
 MCP  GW1/S1   
 RCP  CT RSR   
 DEP Form  EDD Required   
 eDEP Filing  NPDES

**SUBCONTRACT POLICY:** advance to permit Test. Unless you provide instructions to the contrary, or specify which sub-contract lab are or are not to be used, your agree in to fulfill your work order.

**Possible Hazard Identification (please check off each that may apply):**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological

**\*\* Matrix Types:** A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other:

Relinquished by: Dan Sorensen Date/Time: 4/10/18 Company: Investive  
 Relinquished by: [Signature] Date/Time: 4-10-18 Company: Investive  
 Relinquished by: [Signature] Date/Time: 4/10/18 Company: Investive

Custody Seals Intact:  Yes  No Custody Seal No.:

Received by: [Signature] Date/Time: 4-10-18 Company: Investive  
 Received by: [Signature] Date/Time: 4/10/18 Company: Investive  
 Received by: [Signature] Date/Time: 4/10/18 Company: Investive

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

**NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!**



ORIGIN ID: BXCA (781) 466-6900  
PAUL HOBART  
TESTAMERICA  
240 BEAR HILL ROAD  
SUITE 104  
WALTHAM, MA 02451  
UNITED STATES US

SHIP DATE: 10APR18  
ACTWGT: 48.65 LB  
CAD: 590687/CAFE3111

BILL RECIPIENT

ORIGIN ID: BXCA (781) 466-6900  
PAUL HOBART  
TESTAMERICA  
240 BEAR HILL ROAD  
SUITE 104  
WALTHAM, MA 02451  
UNITED STATES US

SHIP DATE: 10APR18  
ACTWGT: 51.70 LB  
CAD: 590687/CAFE3111

BILL RECIPIENT

TO **SAMPLE RECEIVING**  
**TESTAMERICA BURLINGTON**  
**30 COMMUNITY DRIVE**  
**SUITE 11**  
**SOUTH BURLINGTON VT 05403**

(802) 860-1990  
INV: PO:

REF:

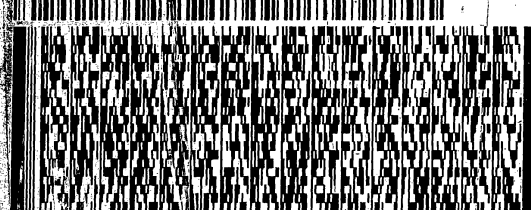
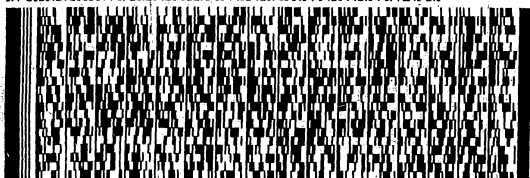
DEPT:

TO **SAMPLE RECEIVING**  
**TESTAMERICA BURLINGTON**  
**30 COMMUNITY DRIVE**  
**SUITE 11**  
**SOUTH BURLINGTON VT 05403**

(802) 860-1990  
INV: PO:

REF:

DEPT:



1 of 3  
TRK# 4258 8393 0526  
0201  
## MASTER ##

WED - 11 APR 10:30A  
PRIORITY OVERNIGHT

**NC BTVA**

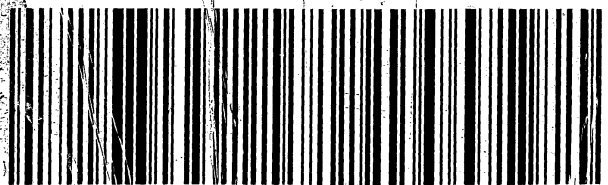
05403  
VT-US BTV

3 of 3  
MPS# 4258 8393 0548  
0263  
Mstr# 4258 8393 0526

WED - 11 APR 10:30A  
PRIORITY OVERNIGHT

**NC BTVA**

05403  
VT-US BTV





# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-133988-1

Client Project/Site: IDS Wayland

For:

Innovative Engineering Solutions, Inc

25 Spring Street

Walpole, Massachusetts 02081

Attn: Vicki Pariyar



Authorized for release by:

4/23/2018 4:56:36 PM

Steve Hartmann, Project Manager I

(413)572-4000

[steve.hartmann@testamericainc.com](mailto:steve.hartmann@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: Innovative Engineering Solutions, Inc  
Project/Site: IDS Wayland

TestAmerica Job ID: 480-133988-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

### General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

## 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
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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: 480-133988-1

**Job ID: 480-133988-1**

**Laboratory: TestAmerica Buffalo**

## Narrative

### Job Narrative 480-133988-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 4/12/2018 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.0° C and 1.8° C.

#### GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) for sec-Butylbenzene, Acetone, n-Butylbenzene, 1,4-Dioxane and Hexachlorobutadiene associated with batch 480-409348 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following samples were affected : DEP-21-20180411 (480-133988-1), MW-264M-20180411 (480-133988-2), MW-265S-20180411 (480-133988-3), MW-265M-20180411 (480-133988-4), MW-265D-20180411 (480-133988-5), MW-266Ma-20180411 (480-133988-6), MW-266Mb-20180411 (480-133988-7), MW-269Ma-20180411 (480-133988-8), MW-561-20180411 (480-133988-9), MW-563-20180411 (480-133988-10), REW-1-20180411 (480-133988-11), REW-4-20180411 (480-133988-12) and REW-5-20180411 (480-133988-13).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-409387 recovered outside the MCP control limit criteria for the following analyte: Acetone. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following samples were affected : REW-8-20180411 (480-133988-14) and DUP4-20180411 (480-133988-19).

Method 8260C: The continuing calibration verification (CCV) for Acetone and 1,4-Dioxane associated with batch 480-409598 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following samples were affected : REW-9-20180411 (480-133988-15), REW-10-20180411 (480-133988-16) and Trip Blanks (480-133988-20).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-409631 recovered outside the MCP control limit criteria for the following analytes: Bromomethane, Trichlorofluoromethane, 1,4-Dioxane and Acetone . MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following samples were affected : REW-12-20180411 (480-133988-17) and DUP3-20180411 (480-133988-18).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-409348 exceeded control limits for the following analytes: 2-Butanone and Tetrahydrofuran. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate and Methacrylonitrile in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample.

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-409348 exceeded control limits for the following analytes: Acetone and 1,4-Dioxane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples were affected : DEP-21-20180411 (480-133988-1), MW-264M-20180411 (480-133988-2), MW-265S-20180411 (480-133988-3), MW-265M-20180411 (480-133988-4), MW-265D-20180411 (480-133988-5), MW-266Ma-20180411 (480-133988-6), MW-266Mb-20180411 (480-133988-7), MW-269Ma-20180411 (480-133988-8), MW-561-20180411 (480-133988-9), MW-563-20180411 (480-133988-10), REW-1-20180411 (480-133988-11), REW-4-20180411 (480-133988-12) and REW-5-20180411 (480-133988-13).

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch 480-409348 recovered outside control limits for the following analyte: 1,4-Dioxane. The following samples are impacted: DEP-21-20180411 (480-133988-1), MW-264M-20180411 (480-133988-2), MW-265S-20180411 (480-133988-3), MW-265M-20180411 (480-133988-4), MW-265D-20180411 (480-133988-5), MW-266Ma-20180411 (480-133988-6), MW-266Mb-20180411 (480-133988-7), MW-269Ma-20180411 (480-133988-8), MW-561-20180411 (480-133988-9), MW-563-20180411 (480-133988-10), REW-1-20180411

# Case Narrative

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

TestAmerica Job ID: 480-133988-1

## Job ID: 480-133988-1 (Continued)

### Laboratory: TestAmerica Buffalo (Continued)

(480-133988-11), REW-4-20180411 (480-133988-12) and REW-5-20180411 (480-133988-13)

Method 8260C: The laboratory control sample (LCS) and/or the laboratory control sample duplicate (LCSD) for batch 480-409387 exceeded control limits for the following analytes: 1,4-Dioxane and Acetone. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples were affected : REW-8-20180411 (480-133988-14) and DUP4-20180411 (480-133988-19).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-409598 exceeded control limits for the following analytes: Acetone and 1,4-Dioxane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples were affected : REW-9-20180411 (480-133988-15), REW-10-20180411 (480-133988-16) and Trip Blanks (480-133988-20).

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch 480-409387 recovered outside control limits for the following analyte: 1,4-Dioxane.

Method 8260C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch 480-409598 recovered outside control limits for the following analyte: 1,4-Dioxane. The following samples are impacted: REW-9-20180411 (480-133988-15), REW-10-20180411 (480-133988-16) and Trip Blanks (480-133988-20)

Method 8260C: The laboratory control sample duplicate (LCSD) for batch 480-409631 recovered outside control limits but were greater than 10% for the following analytes: Acetone. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples are impacted: REW-12-20180411 (480-133988-17) and DUP3-20180411 (480-133988-18).

Method 8260C: The RPD of the laboratory control sample duplicate (LCSD) for batch analytical batch 480-409631 recovered outside control limits for the following analytes: 1,4-Dioxane.

Method 8260C: The following sample was collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-265M-20180411 (480-133988-4). The sample was analyzed within 7 days per EPA recommendation.

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-265M-20180411 (480-133988-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatile sample was analyzed with significant headspace in the sample containers: REW-9-20180411 (480-133988-15). Significant headspace is defined as a bubble greater than 6 mm in diameter.

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

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

### GC/MS Semi VOA

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

### HPLC/IC

Method 300.0: The following samples were reported with elevated reporting limits for all analytes: MW-265M-20180411 (480-133988-4), MW-561-20180411 (480-133988-9), REW-1-20180411 (480-133988-11), REW-5-20180411 (480-133988-13) and REW-12-20180411 (480-133988-17). The sample was analyzed at a dilution based on screening results.

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

### Metals

# Case Narrative

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

TestAmerica Job ID: 480-133988-1

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## Job ID: 480-133988-1 (Continued)

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### Laboratory: TestAmerica Buffalo (Continued)

At the request of the client, an abbreviated MCP analyte list was reported for this job.

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

#### General Chemistry

Method 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-265M-20180411 (480-133988-4), MW-561-20180411 (480-133988-9), MW-563-20180411 (480-133988-10), REW-1-20180411 (480-133988-11), REW-4-20180411 (480-133988-12), REW-5-20180411 (480-133988-13), REW-8-20180411 (480-133988-14), REW-9-20180411 (480-133988-15), REW-10-20180411 (480-133988-16) and REW-12-20180411 (480-133988-17).

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

#### Organic Prep

Method 3535A: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of 3 : MW-265M-20180411 (480-133988-4). The sample(s) was preserved to the appropriate pH in the laboratory.

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



## MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-133988**

Project Location: **IDS Wayland** RTN:

**This form provides certifications for the data set for the following Laboratory Sample ID Number(s):**  
**480-133988-[1-20]**

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 checked="" 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>
----------	---	--

**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 type="checkbox"/> Yes <input checked="" 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: Service Center Manager  
TestAmerica Westfield

Printed Name: Steven C. Hartmann Date: 4/23/18 16:46

This form has been electronically signed and approved

# Detection Summary

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

TestAmerica Job ID: 480-133988-1

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## Client Sample ID: MW-265S-20180411

Lab Sample ID: 480-133988-3

No Detections.

## Client Sample ID: MW-265M-20180411

Lab Sample ID: 480-133988-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.5		2.0		ug/L	2		8260C	Total/NA
Ethylbenzene	2.5		2.0		ug/L	2		8260C	Total/NA
m-Xylene & p-Xylene	9.6		4.0		ug/L	2		8260C	Total/NA
o-Xylene	2.9		2.0		ug/L	2		8260C	Total/NA
1,4-Dioxane	2.7		0.20		ug/L	1		522	Total/NA
Iron	200		0.050		mg/L	1		6010	Total/NA
Chloride	24		2.5		mg/L	5		300.0	Total/NA
Ammonia	3.6		0.40		mg/L	2		350.1	Total/NA
TOC Result 1	10		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	10		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	10		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	820		5.0		mg/L	1		SM 2320B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.8	HF	0.1		SU	1		9040C	Total/NA
Temperature	20.4	HF	0.001		Degrees C	1		9040C	Total/NA

## Client Sample ID: MW-265D-20180411

Lab Sample ID: 480-133988-5

No Detections.

## Client Sample ID: MW-266Ma-20180411

Lab Sample ID: 480-133988-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.6		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	0.21		0.20		ug/L	1		522	Total/NA

## Client Sample ID: MW-266Mb-20180411

Lab Sample ID: 480-133988-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.3		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-269Ma-20180411

Lab Sample ID: 480-133988-8

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: 480-133988-1

## Client Sample ID: MW-269Ma-20180411 (Continued)

Lab Sample ID: 480-133988-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.9		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	4.5		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	0.76		0.20		ug/L	1		522	Total/NA

## Client Sample ID: MW-561-20180411

Lab Sample ID: 480-133988-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	2.6		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	5.8		2.0		ug/L	1		8260C	Total/NA
o-Xylene	2.5		1.0		ug/L	1		8260C	Total/NA
Iron	81		0.050		mg/L	1		6010	Total/NA
Chloride	33		2.5		mg/L	5		300.0	Total/NA
Ammonia	1.9		0.20		mg/L	1		350.1	Total/NA
Nitrate as N	0.066		0.050		mg/L	1		353.2	Total/NA
TOC Result 1	3.4		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	3.4		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	3.4		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	340		5.0		mg/L	1		SM 2320B	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.6	HF	0.1		SU	1		9040C	Total/NA
Temperature	20.5	HF	0.001		Degrees C	1		9040C	Total/NA

## Client Sample ID: MW-563-20180411

Lab Sample ID: 480-133988-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	14		0.050		mg/L	1		6010	Total/NA
Chloride	9.9		0.50		mg/L	1		300.0	Total/NA
Sulfate	4.4		2.0		mg/L	1		300.0	Total/NA
Ammonia	0.37		0.20		mg/L	1		350.1	Total/NA
Alkalinity, Total	130		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.037		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.9	HF	0.1		SU	1		9040C	Total/NA
Temperature	20.6	HF	0.001		Degrees C	1		9040C	Total/NA

## Client Sample ID: REW-1-20180411

Lab Sample ID: 480-133988-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.5		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	3.0		2.0		ug/L	1		8260C	Total/NA
Iron	110		0.050		mg/L	1		6010	Total/NA
Chloride	6.9		1.0		mg/L	2		300.0	Total/NA
Sulfate	9.7		4.0		mg/L	2		300.0	Total/NA
Ammonia	0.75		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	1.8		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	1.6		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	1.7		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	390		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.034		0.020		mg/L	1		SM 4500 P E	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: 480-133988-1

## Client Sample ID: REW-1-20180411 (Continued)

Lab Sample ID: 480-133988-11

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.1	HF	0.1		SU	1		9040C	Total/NA
Temperature	21.0	HF	0.001		Degrees C	1		9040C	Total/NA

## Client Sample ID: REW-4-20180411

Lab Sample ID: 480-133988-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.3		1.0		ug/L	1		8260C	Total/NA
Iron	5.9		0.050		mg/L	1		6010	Total/NA
Chloride	4.9		0.50		mg/L	1		300.0	Total/NA
Sulfate	18		2.0		mg/L	1		300.0	Total/NA
Ammonia	0.37		0.20		mg/L	1		350.1	Total/NA
Alkalinity, Total	88		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.090		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.8	HF	0.1		SU	1		9040C	Total/NA
Temperature	21.2	HF	0.001		Degrees C	1		9040C	Total/NA

## Client Sample ID: REW-5-20180411

Lab Sample ID: 480-133988-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.0		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	3.0		1.0		ug/L	1		8260C	Total/NA
Iron	8.3		0.050		mg/L	1		6010	Total/NA
Chloride	6.4		1.0		mg/L	2		300.0	Total/NA
Ammonia	0.39		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	1.5		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	1.4		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	1.5		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	290		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.24		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.1	HF	0.1		SU	1		9040C	Total/NA
Temperature	21.1	HF	0.001		Degrees C	1		9040C	Total/NA

## Client Sample ID: REW-8-20180411

Lab Sample ID: 480-133988-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	100		5.0		ug/L	1		8260C	Total/NA
Iron	3.6		0.050		mg/L	1		6010	Total/NA
Chloride	5.9		0.50		mg/L	1		300.0	Total/NA
Sulfate	19		2.0		mg/L	1		300.0	Total/NA
Ammonia	1.3		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	1.4		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	1.5		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	1.5		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	58		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.45		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.0	HF	0.1		SU	1		9040C	Total/NA
Temperature	21.0	HF	0.001		Degrees C	1		9040C	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: 480-133988-1

## Client Sample ID: REW-9-20180411

## Lab Sample ID: 480-133988-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	1.7		0.050		mg/L	1		6010	Total/NA
Chloride	13		0.50		mg/L	1		300.0	Total/NA
Sulfate	50		2.0		mg/L	1		300.0	Total/NA
Ammonia	0.45		0.20		mg/L	1		350.1	Total/NA
Alkalinity, Total	50		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.12		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.2	HF	0.1		SU	1		9040C	Total/NA
Temperature	21.3	HF	0.001		Degrees C	1		9040C	Total/NA

## Client Sample ID: REW-10-20180411

## Lab Sample ID: 480-133988-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.2		1.0		ug/L	1		8260C	Total/NA
Iron	7.3		0.050		mg/L	1		6010	Total/NA
Chloride	5.5		0.50		mg/L	1		300.0	Total/NA
Sulfate	17		2.0		mg/L	1		300.0	Total/NA
Ammonia	0.82		0.20		mg/L	1		350.1	Total/NA
TOC Result 1	2.3		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	2.3		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	2.3		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	47		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.25		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.7	HF	0.1		SU	1		9040C	Total/NA
Temperature	21.2	HF	0.001		Degrees C	1		9040C	Total/NA

## Client Sample ID: REW-12-20180411

## Lab Sample ID: 480-133988-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.0		1.0		ug/L	1		8260C	Total/NA
Toluene	14		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	16		1.0		ug/L	1		8260C	Total/NA
Iron	39		0.050		mg/L	1		6010	Total/NA
Chloride	25		1.0		mg/L	2		300.0	Total/NA
Ammonia	11		2.0		mg/L	10		350.1	Total/NA
TOC Result 1	5.6		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	5.6		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	5.6		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	250		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.084		0.020		mg/L	1		SM 4500 P E	Total/NA
Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.0	HF	0.1		SU	1		9040C	Total/NA
Temperature	21.0	HF	0.001		Degrees C	1		9040C	Total/NA

## Client Sample ID: DUP3-20180411

## Lab Sample ID: 480-133988-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.5		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: 480-133988-1

## Client Sample ID: DUP4-20180411

Lab Sample ID: 480-133988-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.5		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	4.3		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	0.93		0.20		ug/L	1		522	Total/NA

## Client Sample ID: Trip Blanks

Lab Sample ID: 480-133988-20

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

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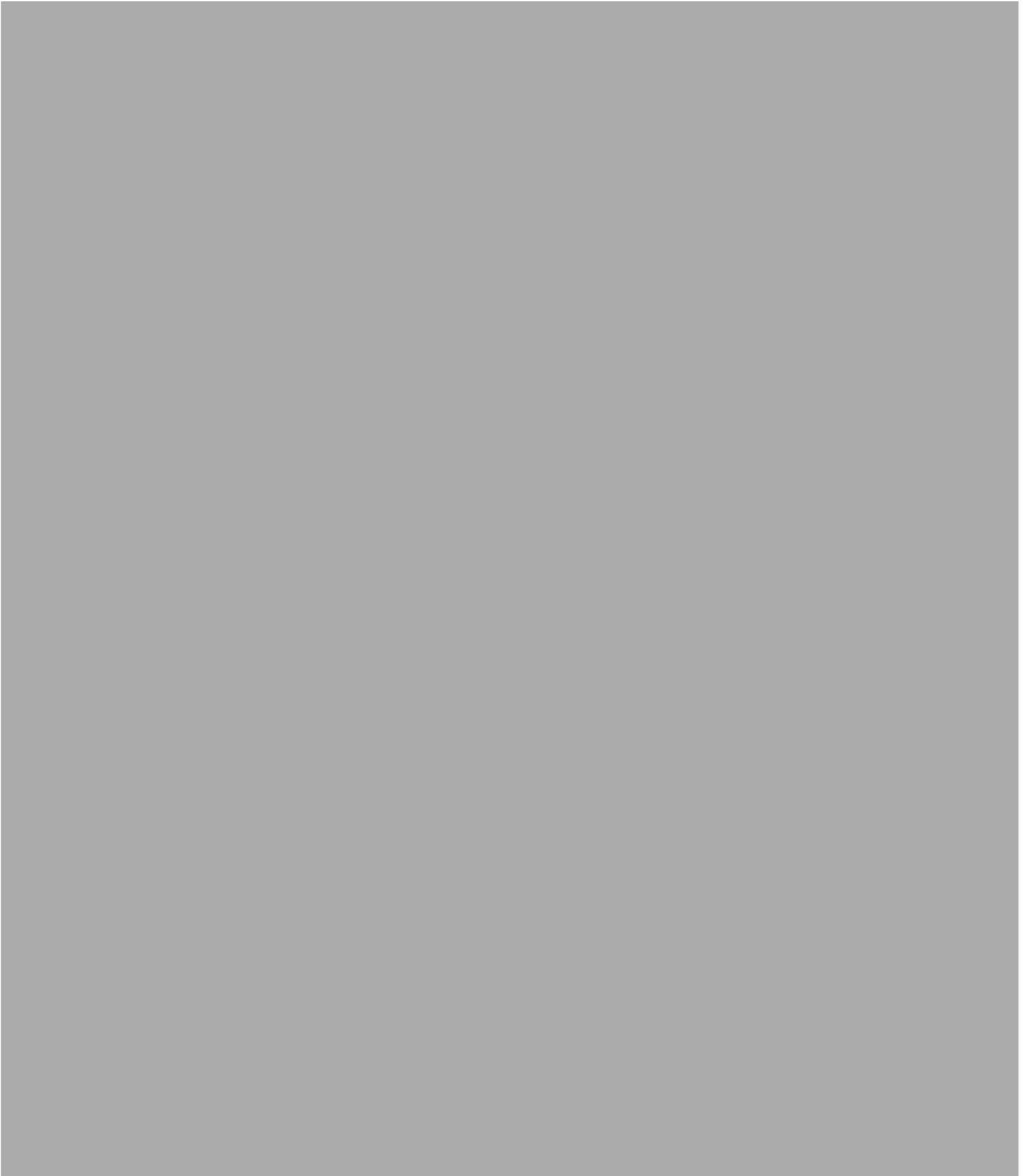
14

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# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

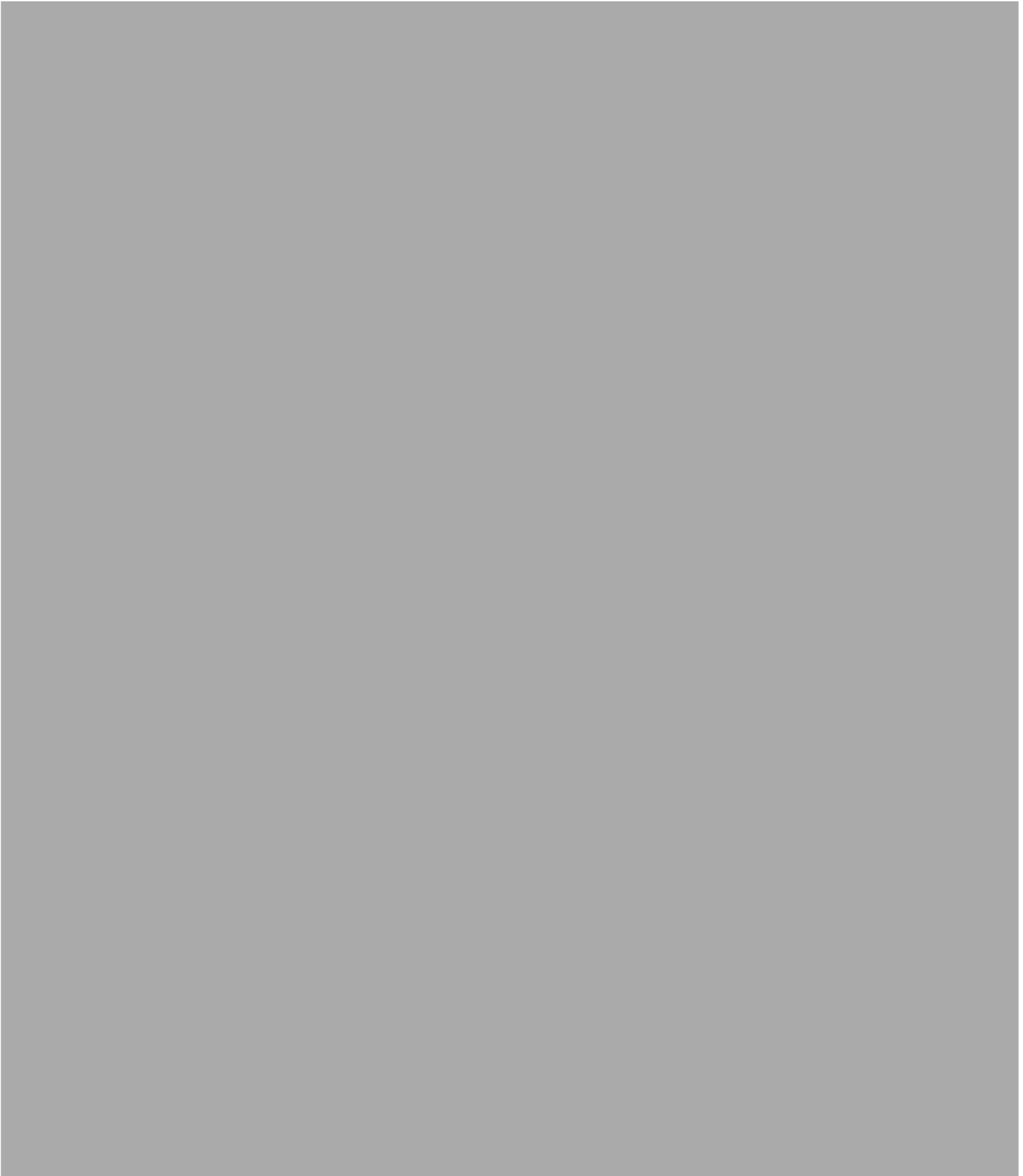


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# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

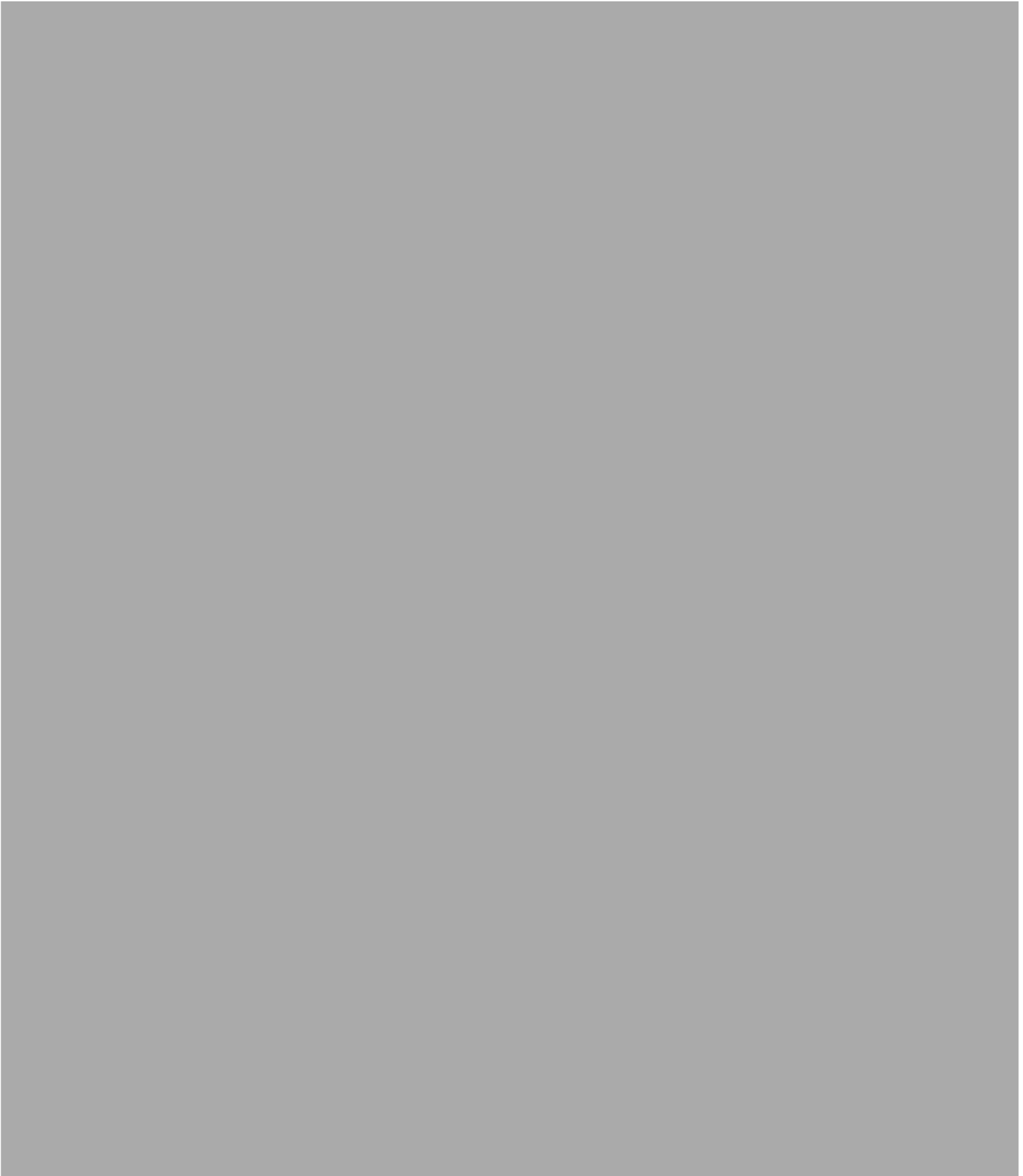


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# Client Sample Results

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

TestAmerica Job ID: 480-133988-1



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# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

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**Client Sample ID: MW-265S-20180411**

**Lab Sample ID: 480-133988-3**

**Date Collected: 04/11/18 09:10**

**Matrix: Water**

**Date Received: 04/12/18 01:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/17/18 23:38	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/17/18 23:38	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/17/18 23:38	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/17/18 23:38	1
1,1-Dichloroethane	ND		1.0		ug/L			04/17/18 23:38	1
1,1-Dichloroethene	ND		1.0		ug/L			04/17/18 23:38	1
1,1-Dichloropropene	ND		1.0		ug/L			04/17/18 23:38	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/17/18 23:38	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/17/18 23:38	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/17/18 23:38	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/17/18 23:38	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/17/18 23:38	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/17/18 23:38	1
1,2-Dichloroethane	ND		1.0		ug/L			04/17/18 23:38	1
1,2-Dichloropropane	ND		1.0		ug/L			04/17/18 23:38	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/17/18 23:38	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/17/18 23:38	1
1,3-Dichloropropane	ND		1.0		ug/L			04/17/18 23:38	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/17/18 23:38	1
1,4-Dioxane	ND	*	50		ug/L			04/17/18 23:38	1
2,2-Dichloropropane	ND		1.0		ug/L			04/17/18 23:38	1
2-Butanone (MEK)	ND	*	10		ug/L			04/17/18 23:38	1
2-Chlorotoluene	ND		1.0		ug/L			04/17/18 23:38	1
2-Hexanone	ND		10		ug/L			04/17/18 23:38	1
4-Chlorotoluene	ND		1.0		ug/L			04/17/18 23:38	1
4-Isopropyltoluene	ND		1.0		ug/L			04/17/18 23:38	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/17/18 23:38	1
Acetone	ND	*	50		ug/L			04/17/18 23:38	1
Benzene	ND		1.0		ug/L			04/17/18 23:38	1
Bromobenzene	ND		1.0		ug/L			04/17/18 23:38	1
Bromoform	ND		1.0		ug/L			04/17/18 23:38	1
Bromomethane	ND		2.0		ug/L			04/17/18 23:38	1

TestAmerica Buffalo



# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: MW-265S-20180411**

**Lab Sample ID: 480-133988-3**

Date Collected: 04/11/18 09:10

Matrix: Water

Date Received: 04/12/18 01:00

**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			04/17/18 23:38	1
Carbon tetrachloride	ND		1.0		ug/L			04/17/18 23:38	1
Chlorobenzene	ND		1.0		ug/L			04/17/18 23:38	1
Chlorobromomethane	ND		1.0		ug/L			04/17/18 23:38	1
Chlorodibromomethane	ND		0.50		ug/L			04/17/18 23:38	1
Chloroethane	ND		2.0		ug/L			04/17/18 23:38	1
Chloroform	ND		1.0		ug/L			04/17/18 23:38	1
Chloromethane	ND		2.0		ug/L			04/17/18 23:38	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/17/18 23:38	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/17/18 23:38	1
Dichlorobromomethane	ND		0.50		ug/L			04/17/18 23:38	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/17/18 23:38	1
Ethyl ether	ND		1.0		ug/L			04/17/18 23:38	1
Ethylbenzene	ND		1.0		ug/L			04/17/18 23:38	1
Ethylene Dibromide	ND		1.0		ug/L			04/17/18 23:38	1
Hexachlorobutadiene	ND		0.40		ug/L			04/17/18 23:38	1
Isopropyl ether	ND		10		ug/L			04/17/18 23:38	1
Isopropylbenzene	ND		1.0		ug/L			04/17/18 23:38	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/17/18 23:38	1
Methylene Chloride	ND		1.0		ug/L			04/17/18 23:38	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/17/18 23:38	1
Naphthalene	ND		5.0		ug/L			04/17/18 23:38	1
n-Butylbenzene	ND		1.0		ug/L			04/17/18 23:38	1
N-Propylbenzene	ND		1.0		ug/L			04/17/18 23:38	1
o-Xylene	ND		1.0		ug/L			04/17/18 23:38	1
sec-Butylbenzene	ND		1.0		ug/L			04/17/18 23:38	1
Styrene	ND		1.0		ug/L			04/17/18 23:38	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/17/18 23:38	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/17/18 23:38	1
tert-Butylbenzene	ND		1.0		ug/L			04/17/18 23:38	1
Tetrachloroethene	ND		1.0		ug/L			04/17/18 23:38	1
Tetrahydrofuran	ND *		10		ug/L			04/17/18 23:38	1
Toluene	ND		1.0		ug/L			04/17/18 23:38	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/17/18 23:38	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/17/18 23:38	1
Trichloroethene	ND		1.0		ug/L			04/17/18 23:38	1
Trichlorofluoromethane	ND		1.0		ug/L			04/17/18 23:38	1
Vinyl chloride	ND		1.0		ug/L			04/17/18 23:38	1
Dibromomethane	ND		1.0		ug/L			04/17/18 23:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/17/18 23:38	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		04/17/18 23:38	1
4-Bromofluorobenzene (Surr)	103		70 - 130		04/17/18 23:38	1

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: MW-265M-20180411**

**Lab Sample ID: 480-133988-4**

Date Collected: 04/11/18 09:15

Matrix: Water

Date Received: 04/12/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			04/18/18 00:02	2
1,1,1-Trichloroethane	ND		2.0		ug/L			04/18/18 00:02	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/18/18 00:02	2
1,1,2-Trichloroethane	ND		2.0		ug/L			04/18/18 00:02	2
1,1-Dichloroethane	ND		2.0		ug/L			04/18/18 00:02	2
1,1-Dichloroethene	ND		2.0		ug/L			04/18/18 00:02	2
1,1-Dichloropropene	ND		2.0		ug/L			04/18/18 00:02	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			04/18/18 00:02	2
1,2,3-Trichloropropane	ND		2.0		ug/L			04/18/18 00:02	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			04/18/18 00:02	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			04/18/18 00:02	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			04/18/18 00:02	2
1,2-Dichlorobenzene	ND		2.0		ug/L			04/18/18 00:02	2
1,2-Dichloroethane	ND		2.0		ug/L			04/18/18 00:02	2
1,2-Dichloropropane	ND		2.0		ug/L			04/18/18 00:02	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			04/18/18 00:02	2
1,3-Dichlorobenzene	ND		2.0		ug/L			04/18/18 00:02	2
1,3-Dichloropropane	ND		2.0		ug/L			04/18/18 00:02	2
1,4-Dichlorobenzene	ND		2.0		ug/L			04/18/18 00:02	2
1,4-Dioxane	ND *		100		ug/L			04/18/18 00:02	2
2,2-Dichloropropane	ND		2.0		ug/L			04/18/18 00:02	2
2-Butanone (MEK)	ND *		20		ug/L			04/18/18 00:02	2
2-Chlorotoluene	ND		2.0		ug/L			04/18/18 00:02	2
2-Hexanone	ND		20		ug/L			04/18/18 00:02	2
4-Chlorotoluene	ND		2.0		ug/L			04/18/18 00:02	2
4-Isopropyltoluene	ND		2.0		ug/L			04/18/18 00:02	2
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			04/18/18 00:02	2
Acetone	ND *		100		ug/L			04/18/18 00:02	2
Benzene	ND		2.0		ug/L			04/18/18 00:02	2
Bromobenzene	ND		2.0		ug/L			04/18/18 00:02	2
Bromoform	ND		2.0		ug/L			04/18/18 00:02	2
Bromomethane	ND		4.0		ug/L			04/18/18 00:02	2
Carbon disulfide	ND		20		ug/L			04/18/18 00:02	2
Carbon tetrachloride	ND		2.0		ug/L			04/18/18 00:02	2
Chlorobenzene	ND		2.0		ug/L			04/18/18 00:02	2
Chlorobromomethane	ND		2.0		ug/L			04/18/18 00:02	2
Chlorodibromomethane	ND		1.0		ug/L			04/18/18 00:02	2
Chloroethane	ND		4.0		ug/L			04/18/18 00:02	2
Chloroform	ND		2.0		ug/L			04/18/18 00:02	2
Chloromethane	ND		4.0		ug/L			04/18/18 00:02	2
<b>cis-1,2-Dichloroethene</b>	<b>2.5</b>		2.0		ug/L			04/18/18 00:02	2
cis-1,3-Dichloropropene	ND		0.80		ug/L			04/18/18 00:02	2
Dichlorobromomethane	ND		1.0		ug/L			04/18/18 00:02	2
Dichlorodifluoromethane	ND		2.0		ug/L			04/18/18 00:02	2
Ethyl ether	ND		2.0		ug/L			04/18/18 00:02	2
<b>Ethylbenzene</b>	<b>2.5</b>		2.0		ug/L			04/18/18 00:02	2
Ethylene Dibromide	ND		2.0		ug/L			04/18/18 00:02	2
Hexachlorobutadiene	ND		0.80		ug/L			04/18/18 00:02	2
Isopropyl ether	ND		20		ug/L			04/18/18 00:02	2

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: MW-265M-20180411**

**Lab Sample ID: 480-133988-4**

Date Collected: 04/11/18 09:15

Matrix: Water

Date Received: 04/12/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		2.0		ug/L			04/18/18 00:02	2
Methyl tert-butyl ether	ND		2.0		ug/L			04/18/18 00:02	2
Methylene Chloride	ND		2.0		ug/L			04/18/18 00:02	2
<b>m-Xylene &amp; p-Xylene</b>	<b>9.6</b>		4.0		ug/L			04/18/18 00:02	2
Naphthalene	ND		10		ug/L			04/18/18 00:02	2
n-Butylbenzene	ND		2.0		ug/L			04/18/18 00:02	2
N-Propylbenzene	ND		2.0		ug/L			04/18/18 00:02	2
<b>o-Xylene</b>	<b>2.9</b>		2.0		ug/L			04/18/18 00:02	2
sec-Butylbenzene	ND		2.0		ug/L			04/18/18 00:02	2
Styrene	ND		2.0		ug/L			04/18/18 00:02	2
Tert-amyl methyl ether	ND		10		ug/L			04/18/18 00:02	2
Tert-butyl ethyl ether	ND		10		ug/L			04/18/18 00:02	2
tert-Butylbenzene	ND		2.0		ug/L			04/18/18 00:02	2
Tetrachloroethene	ND		2.0		ug/L			04/18/18 00:02	2
Tetrahydrofuran	ND *		20		ug/L			04/18/18 00:02	2
Toluene	ND		2.0		ug/L			04/18/18 00:02	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			04/18/18 00:02	2
trans-1,3-Dichloropropene	ND		0.80		ug/L			04/18/18 00:02	2
Trichloroethene	ND		2.0		ug/L			04/18/18 00:02	2
Trichlorofluoromethane	ND		2.0		ug/L			04/18/18 00:02	2
Vinyl chloride	ND		2.0		ug/L			04/18/18 00:02	2
Dibromomethane	ND		2.0		ug/L			04/18/18 00:02	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/18/18 00:02	2
1,2-Dichloroethane-d4 (Surr)	116		70 - 130		04/18/18 00:02	2
4-Bromofluorobenzene (Surr)	101		70 - 130		04/18/18 00:02	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dioxane</b>	<b>2.7</b>		0.20		ug/L		04/12/18 13:25	04/13/18 01:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	100		46 - 130	04/12/18 13:25	04/13/18 01:44	1

**Method: 6010 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Iron</b>	<b>200</b>		0.050		mg/L		04/14/18 09:34	04/16/18 15:07	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>24</b>		2.5		mg/L			04/14/18 22:58	5
Sulfate	ND		10		mg/L			04/14/18 22:58	5
<b>Ammonia</b>	<b>3.6</b>		0.40		mg/L		04/16/18 18:18	04/16/18 22:00	2
Nitrate as N	ND		0.050		mg/L			04/12/18 18:22	1
<b>TOC Result 1</b>	<b>10</b>		1.0		mg/L			04/18/18 11:41	1
<b>TOC Result 2</b>	<b>10</b>		1.0		mg/L			04/18/18 11:41	1
<b>Total Organic Carbon - Duplicates</b>	<b>10</b>		1.0		mg/L			04/18/18 11:41	1
<b>Alkalinity, Total</b>	<b>820</b>		5.0		mg/L			04/19/18 11:55	1
ortho-Phosphate	ND		0.020		mg/L			04/12/18 08:23	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: MW-265M-20180411**

**Lab Sample ID: 480-133988-4**

Date Collected: 04/11/18 09:15

Matrix: Water

Date Received: 04/12/18 01:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.8	HF	0.1		SU			04/12/18 13:15	1
Temperature	20.4	HF	0.001		Degrees C			04/12/18 13:15	1

**Client Sample ID: MW-265D-20180411**

**Lab Sample ID: 480-133988-5**

Date Collected: 04/11/18 09:55

Matrix: Water

Date Received: 04/12/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/18/18 00:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/18/18 00:26	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/18/18 00:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/18/18 00:26	1
1,1-Dichloroethane	ND		1.0		ug/L			04/18/18 00:26	1
1,1-Dichloroethene	ND		1.0		ug/L			04/18/18 00:26	1
1,1-Dichloropropene	ND		1.0		ug/L			04/18/18 00:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/18/18 00:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/18/18 00:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/18/18 00:26	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/18/18 00:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/18/18 00:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/18/18 00:26	1
1,2-Dichloroethane	ND		1.0		ug/L			04/18/18 00:26	1
1,2-Dichloropropane	ND		1.0		ug/L			04/18/18 00:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/18/18 00:26	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/18/18 00:26	1
1,3-Dichloropropane	ND		1.0		ug/L			04/18/18 00:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/18/18 00:26	1
1,4-Dioxane	ND *		50		ug/L			04/18/18 00:26	1
2,2-Dichloropropane	ND		1.0		ug/L			04/18/18 00:26	1
2-Butanone (MEK)	ND *		10		ug/L			04/18/18 00:26	1
2-Chlorotoluene	ND		1.0		ug/L			04/18/18 00:26	1
2-Hexanone	ND		10		ug/L			04/18/18 00:26	1
4-Chlorotoluene	ND		1.0		ug/L			04/18/18 00:26	1
4-Isopropyltoluene	ND		1.0		ug/L			04/18/18 00:26	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/18/18 00:26	1
Acetone	ND *		50		ug/L			04/18/18 00:26	1
Benzene	ND		1.0		ug/L			04/18/18 00:26	1
Bromobenzene	ND		1.0		ug/L			04/18/18 00:26	1
Bromoform	ND		1.0		ug/L			04/18/18 00:26	1
Bromomethane	ND		2.0		ug/L			04/18/18 00:26	1
Carbon disulfide	ND		10		ug/L			04/18/18 00:26	1
Carbon tetrachloride	ND		1.0		ug/L			04/18/18 00:26	1
Chlorobenzene	ND		1.0		ug/L			04/18/18 00:26	1
Chlorobromomethane	ND		1.0		ug/L			04/18/18 00:26	1
Chlorodibromomethane	ND		0.50		ug/L			04/18/18 00:26	1
Chloroethane	ND		2.0		ug/L			04/18/18 00:26	1
Chloroform	ND		1.0		ug/L			04/18/18 00:26	1
Chloromethane	ND		2.0		ug/L			04/18/18 00:26	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 00:26	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 00:26	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: MW-265D-20180411**

**Lab Sample ID: 480-133988-5**

Date Collected: 04/11/18 09:55

Matrix: Water

Date Received: 04/12/18 01:00

**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			04/18/18 00:26	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/18/18 00:26	1
Ethyl ether	ND		1.0		ug/L			04/18/18 00:26	1
Ethylbenzene	ND		1.0		ug/L			04/18/18 00:26	1
Ethylene Dibromide	ND		1.0		ug/L			04/18/18 00:26	1
Hexachlorobutadiene	ND		0.40		ug/L			04/18/18 00:26	1
Isopropyl ether	ND		10		ug/L			04/18/18 00:26	1
Isopropylbenzene	ND		1.0		ug/L			04/18/18 00:26	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/18/18 00:26	1
Methylene Chloride	ND		1.0		ug/L			04/18/18 00:26	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/18/18 00:26	1
Naphthalene	ND		5.0		ug/L			04/18/18 00:26	1
n-Butylbenzene	ND		1.0		ug/L			04/18/18 00:26	1
N-Propylbenzene	ND		1.0		ug/L			04/18/18 00:26	1
o-Xylene	ND		1.0		ug/L			04/18/18 00:26	1
sec-Butylbenzene	ND		1.0		ug/L			04/18/18 00:26	1
Styrene	ND		1.0		ug/L			04/18/18 00:26	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/18/18 00:26	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/18/18 00:26	1
tert-Butylbenzene	ND		1.0		ug/L			04/18/18 00:26	1
Tetrachloroethene	ND		1.0		ug/L			04/18/18 00:26	1
Tetrahydrofuran	ND *		10		ug/L			04/18/18 00:26	1
Toluene	ND		1.0		ug/L			04/18/18 00:26	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 00:26	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 00:26	1
Trichloroethene	ND		1.0		ug/L			04/18/18 00:26	1
Trichlorofluoromethane	ND		1.0		ug/L			04/18/18 00:26	1
Vinyl chloride	ND		1.0		ug/L			04/18/18 00:26	1
Dibromomethane	ND		1.0		ug/L			04/18/18 00:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130					04/18/18 00:26	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130					04/18/18 00:26	1
4-Bromofluorobenzene (Surr)	104		70 - 130					04/18/18 00:26	1

**Client Sample ID: MW-266Ma-20180411**

**Lab Sample ID: 480-133988-6**

Date Collected: 04/11/18 10:05

Matrix: Water

Date Received: 04/12/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/18/18 00:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/18/18 00:50	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/18/18 00:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/18/18 00:50	1
1,1-Dichloroethane	ND		1.0		ug/L			04/18/18 00:50	1
1,1-Dichloroethene	ND		1.0		ug/L			04/18/18 00:50	1
1,1-Dichloropropene	ND		1.0		ug/L			04/18/18 00:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/18/18 00:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/18/18 00:50	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: MW-266Ma-20180411**

**Lab Sample ID: 480-133988-6**

**Date Collected: 04/11/18 10:05**

**Matrix: Water**

**Date Received: 04/12/18 01:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/18/18 00:50	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/18/18 00:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/18/18 00:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/18/18 00:50	1
1,2-Dichloroethane	ND		1.0		ug/L			04/18/18 00:50	1
1,2-Dichloropropane	ND		1.0		ug/L			04/18/18 00:50	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/18/18 00:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/18/18 00:50	1
1,3-Dichloropropane	ND		1.0		ug/L			04/18/18 00:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/18/18 00:50	1
1,4-Dioxane	ND	*	50		ug/L			04/18/18 00:50	1
2,2-Dichloropropane	ND		1.0		ug/L			04/18/18 00:50	1
2-Butanone (MEK)	ND	*	10		ug/L			04/18/18 00:50	1
2-Chlorotoluene	ND		1.0		ug/L			04/18/18 00:50	1
2-Hexanone	ND		10		ug/L			04/18/18 00:50	1
4-Chlorotoluene	ND		1.0		ug/L			04/18/18 00:50	1
4-Isopropyltoluene	ND		1.0		ug/L			04/18/18 00:50	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/18/18 00:50	1
Acetone	ND	*	50		ug/L			04/18/18 00:50	1
Benzene	ND		1.0		ug/L			04/18/18 00:50	1
Bromobenzene	ND		1.0		ug/L			04/18/18 00:50	1
Bromoform	ND		1.0		ug/L			04/18/18 00:50	1
Bromomethane	ND		2.0		ug/L			04/18/18 00:50	1
Carbon disulfide	ND		10		ug/L			04/18/18 00:50	1
Carbon tetrachloride	ND		1.0		ug/L			04/18/18 00:50	1
Chlorobenzene	ND		1.0		ug/L			04/18/18 00:50	1
Chlorobromomethane	ND		1.0		ug/L			04/18/18 00:50	1
Chlorodibromomethane	ND		0.50		ug/L			04/18/18 00:50	1
Chloroethane	ND		2.0		ug/L			04/18/18 00:50	1
Chloroform	ND		1.0		ug/L			04/18/18 00:50	1
Chloromethane	ND		2.0		ug/L			04/18/18 00:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 00:50	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 00:50	1
Dichlorobromomethane	ND		0.50		ug/L			04/18/18 00:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/18/18 00:50	1
Ethyl ether	ND		1.0		ug/L			04/18/18 00:50	1
Ethylbenzene	ND		1.0		ug/L			04/18/18 00:50	1
Ethylene Dibromide	ND		1.0		ug/L			04/18/18 00:50	1
Hexachlorobutadiene	ND		0.40		ug/L			04/18/18 00:50	1
Isopropyl ether	ND		10		ug/L			04/18/18 00:50	1
Isopropylbenzene	ND		1.0		ug/L			04/18/18 00:50	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/18/18 00:50	1
Methylene Chloride	ND		1.0		ug/L			04/18/18 00:50	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/18/18 00:50	1
Naphthalene	ND		5.0		ug/L			04/18/18 00:50	1
n-Butylbenzene	ND		1.0		ug/L			04/18/18 00:50	1
N-Propylbenzene	ND		1.0		ug/L			04/18/18 00:50	1
o-Xylene	ND		1.0		ug/L			04/18/18 00:50	1
sec-Butylbenzene	ND		1.0		ug/L			04/18/18 00:50	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: MW-266Ma-20180411**

**Lab Sample ID: 480-133988-6**

Date Collected: 04/11/18 10:05

Matrix: Water

Date Received: 04/12/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0		ug/L			04/18/18 00:50	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/18/18 00:50	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/18/18 00:50	1
tert-Butylbenzene	ND		1.0		ug/L			04/18/18 00:50	1
Tetrachloroethene	ND		1.0		ug/L			04/18/18 00:50	1
Tetrahydrofuran	ND	*	10		ug/L			04/18/18 00:50	1
Toluene	ND		1.0		ug/L			04/18/18 00:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 00:50	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 00:50	1
Trichloroethene	ND		1.0		ug/L			04/18/18 00:50	1
Trichlorofluoromethane	ND		1.0		ug/L			04/18/18 00:50	1
<b>Vinyl chloride</b>	<b>1.6</b>		1.0		ug/L			04/18/18 00:50	1
Dibromomethane	ND		1.0		ug/L			04/18/18 00:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/18/18 00:50	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		04/18/18 00:50	1
4-Bromofluorobenzene (Surr)	102		70 - 130		04/18/18 00:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dioxane</b>	<b>0.21</b>		0.20		ug/L		04/12/18 13:25	04/13/18 01:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	90		46 - 130	04/12/18 13:25	04/13/18 01:59	1

**Client Sample ID: MW-266Mb-20180411**

**Lab Sample ID: 480-133988-7**

Date Collected: 04/11/18 09:20

Matrix: Water

Date Received: 04/12/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/18/18 01:13	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/18/18 01:13	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/18/18 01:13	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/18/18 01:13	1
1,1-Dichloroethane	ND		1.0		ug/L			04/18/18 01:13	1
1,1-Dichloroethene	ND		1.0		ug/L			04/18/18 01:13	1
1,1-Dichloropropene	ND		1.0		ug/L			04/18/18 01:13	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/18/18 01:13	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/18/18 01:13	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/18/18 01:13	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/18/18 01:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/18/18 01:13	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/18/18 01:13	1
1,2-Dichloroethane	ND		1.0		ug/L			04/18/18 01:13	1
1,2-Dichloropropane	ND		1.0		ug/L			04/18/18 01:13	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/18/18 01:13	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/18/18 01:13	1
1,3-Dichloropropane	ND		1.0		ug/L			04/18/18 01:13	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: MW-266Mb-20180411**

**Lab Sample ID: 480-133988-7**

Date Collected: 04/11/18 09:20

Matrix: Water

Date Received: 04/12/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0		ug/L			04/18/18 01:13	1
1,4-Dioxane	ND	*	50		ug/L			04/18/18 01:13	1
2,2-Dichloropropane	ND		1.0		ug/L			04/18/18 01:13	1
2-Butanone (MEK)	ND	*	10		ug/L			04/18/18 01:13	1
2-Chlorotoluene	ND		1.0		ug/L			04/18/18 01:13	1
2-Hexanone	ND		10		ug/L			04/18/18 01:13	1
4-Chlorotoluene	ND		1.0		ug/L			04/18/18 01:13	1
4-Isopropyltoluene	ND		1.0		ug/L			04/18/18 01:13	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/18/18 01:13	1
Acetone	ND	*	50		ug/L			04/18/18 01:13	1
Benzene	ND		1.0		ug/L			04/18/18 01:13	1
Bromobenzene	ND		1.0		ug/L			04/18/18 01:13	1
Bromoform	ND		1.0		ug/L			04/18/18 01:13	1
Bromomethane	ND		2.0		ug/L			04/18/18 01:13	1
Carbon disulfide	ND		10		ug/L			04/18/18 01:13	1
Carbon tetrachloride	ND		1.0		ug/L			04/18/18 01:13	1
Chlorobenzene	ND		1.0		ug/L			04/18/18 01:13	1
Chlorobromomethane	ND		1.0		ug/L			04/18/18 01:13	1
Chlorodibromomethane	ND		0.50		ug/L			04/18/18 01:13	1
Chloroethane	ND		2.0		ug/L			04/18/18 01:13	1
Chloroform	ND		1.0		ug/L			04/18/18 01:13	1
Chloromethane	ND		2.0		ug/L			04/18/18 01:13	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 01:13	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 01:13	1
Dichlorobromomethane	ND		0.50		ug/L			04/18/18 01:13	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/18/18 01:13	1
Ethyl ether	ND		1.0		ug/L			04/18/18 01:13	1
Ethylbenzene	ND		1.0		ug/L			04/18/18 01:13	1
Ethylene Dibromide	ND		1.0		ug/L			04/18/18 01:13	1
Hexachlorobutadiene	ND		0.40		ug/L			04/18/18 01:13	1
Isopropyl ether	ND		10		ug/L			04/18/18 01:13	1
Isopropylbenzene	ND		1.0		ug/L			04/18/18 01:13	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/18/18 01:13	1
Methylene Chloride	ND		1.0		ug/L			04/18/18 01:13	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/18/18 01:13	1
Naphthalene	ND		5.0		ug/L			04/18/18 01:13	1
n-Butylbenzene	ND		1.0		ug/L			04/18/18 01:13	1
N-Propylbenzene	ND		1.0		ug/L			04/18/18 01:13	1
o-Xylene	ND		1.0		ug/L			04/18/18 01:13	1
sec-Butylbenzene	ND		1.0		ug/L			04/18/18 01:13	1
Styrene	ND		1.0		ug/L			04/18/18 01:13	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/18/18 01:13	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/18/18 01:13	1
tert-Butylbenzene	ND		1.0		ug/L			04/18/18 01:13	1
Tetrachloroethene	ND		1.0		ug/L			04/18/18 01:13	1
Tetrahydrofuran	ND	*	10		ug/L			04/18/18 01:13	1
Toluene	ND		1.0		ug/L			04/18/18 01:13	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 01:13	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 01:13	1

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# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: MW-266Mb-20180411**

**Lab Sample ID: 480-133988-7**

Date Collected: 04/11/18 09:20

Matrix: Water

Date Received: 04/12/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0		ug/L			04/18/18 01:13	1
Trichlorofluoromethane	ND		1.0		ug/L			04/18/18 01:13	1
<b>Vinyl chloride</b>	<b>1.3</b>		1.0		ug/L			04/18/18 01:13	1
Dibromomethane	ND		1.0		ug/L			04/18/18 01:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	98		70 - 130					04/18/18 01:13	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	113		70 - 130					04/18/18 01:13	1
<i>4-Bromofluorobenzene (Surr)</i>	103		70 - 130					04/18/18 01:13	1

**Client Sample ID: MW-269Ma-20180411**

**Lab Sample ID: 480-133988-8**

Date Collected: 04/11/18 10:15

Matrix: Water

Date Received: 04/12/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/18/18 01:37	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/18/18 01:37	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/18/18 01:37	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/18/18 01:37	1
1,1-Dichloroethane	ND		1.0		ug/L			04/18/18 01:37	1
1,1-Dichloroethene	ND		1.0		ug/L			04/18/18 01:37	1
1,1-Dichloropropene	ND		1.0		ug/L			04/18/18 01:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/18/18 01:37	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/18/18 01:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/18/18 01:37	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/18/18 01:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/18/18 01:37	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/18/18 01:37	1
1,2-Dichloroethane	ND		1.0		ug/L			04/18/18 01:37	1
1,2-Dichloropropane	ND		1.0		ug/L			04/18/18 01:37	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/18/18 01:37	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/18/18 01:37	1
1,3-Dichloropropane	ND		1.0		ug/L			04/18/18 01:37	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/18/18 01:37	1
1,4-Dioxane	ND	*	50		ug/L			04/18/18 01:37	1
2,2-Dichloropropane	ND		1.0		ug/L			04/18/18 01:37	1
2-Butanone (MEK)	ND	*	10		ug/L			04/18/18 01:37	1
2-Chlorotoluene	ND		1.0		ug/L			04/18/18 01:37	1
2-Hexanone	ND		10		ug/L			04/18/18 01:37	1
4-Chlorotoluene	ND		1.0		ug/L			04/18/18 01:37	1
4-Isopropyltoluene	ND		1.0		ug/L			04/18/18 01:37	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/18/18 01:37	1
Acetone	ND	*	50		ug/L			04/18/18 01:37	1
Benzene	ND		1.0		ug/L			04/18/18 01:37	1
Bromobenzene	ND		1.0		ug/L			04/18/18 01:37	1
Bromoform	ND		1.0		ug/L			04/18/18 01:37	1
Bromomethane	ND		2.0		ug/L			04/18/18 01:37	1
Carbon disulfide	ND		10		ug/L			04/18/18 01:37	1
Carbon tetrachloride	ND		1.0		ug/L			04/18/18 01:37	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: MW-269Ma-20180411**

**Lab Sample ID: 480-133988-8**

Date Collected: 04/11/18 10:15

Matrix: Water

Date Received: 04/12/18 01:00

**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			04/18/18 01:37	1
Chlorobromomethane	ND		1.0		ug/L			04/18/18 01:37	1
Chlorodibromomethane	ND		0.50		ug/L			04/18/18 01:37	1
Chloroethane	ND		2.0		ug/L			04/18/18 01:37	1
Chloroform	ND		1.0		ug/L			04/18/18 01:37	1
Chloromethane	ND		2.0		ug/L			04/18/18 01:37	1
<b>cis-1,2-Dichloroethene</b>	<b>3.9</b>		1.0		ug/L			04/18/18 01:37	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 01:37	1
Dichlorobromomethane	ND		0.50		ug/L			04/18/18 01:37	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/18/18 01:37	1
Ethyl ether	ND		1.0		ug/L			04/18/18 01:37	1
Ethylbenzene	ND		1.0		ug/L			04/18/18 01:37	1
Ethylene Dibromide	ND		1.0		ug/L			04/18/18 01:37	1
Hexachlorobutadiene	ND		0.40		ug/L			04/18/18 01:37	1
Isopropyl ether	ND		10		ug/L			04/18/18 01:37	1
Isopropylbenzene	ND		1.0		ug/L			04/18/18 01:37	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/18/18 01:37	1
Methylene Chloride	ND		1.0		ug/L			04/18/18 01:37	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/18/18 01:37	1
Naphthalene	ND		5.0		ug/L			04/18/18 01:37	1
n-Butylbenzene	ND		1.0		ug/L			04/18/18 01:37	1
N-Propylbenzene	ND		1.0		ug/L			04/18/18 01:37	1
o-Xylene	ND		1.0		ug/L			04/18/18 01:37	1
sec-Butylbenzene	ND		1.0		ug/L			04/18/18 01:37	1
Styrene	ND		1.0		ug/L			04/18/18 01:37	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/18/18 01:37	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/18/18 01:37	1
tert-Butylbenzene	ND		1.0		ug/L			04/18/18 01:37	1
Tetrachloroethene	ND		1.0		ug/L			04/18/18 01:37	1
Tetrahydrofuran	ND *		10		ug/L			04/18/18 01:37	1
Toluene	ND		1.0		ug/L			04/18/18 01:37	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 01:37	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 01:37	1
<b>Trichloroethene</b>	<b>4.5</b>		1.0		ug/L			04/18/18 01:37	1
Trichlorofluoromethane	ND		1.0		ug/L			04/18/18 01:37	1
Vinyl chloride	ND		1.0		ug/L			04/18/18 01:37	1
Dibromomethane	ND		1.0		ug/L			04/18/18 01:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		04/18/18 01:37	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		04/18/18 01:37	1
4-Bromofluorobenzene (Surr)	104		70 - 130		04/18/18 01:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dioxane</b>	<b>0.76</b>		0.20		ug/L		04/12/18 13:25	04/13/18 02:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	71		46 - 130	04/12/18 13:25	04/13/18 02:14	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: MW-561-20180411**

**Lab Sample ID: 480-133988-9**

Date Collected: 04/11/18 08:30

Matrix: Water

Date Received: 04/12/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/18/18 02:00	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/18/18 02:00	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/18/18 02:00	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/18/18 02:00	1
1,1-Dichloroethane	ND		1.0		ug/L			04/18/18 02:00	1
1,1-Dichloroethene	ND		1.0		ug/L			04/18/18 02:00	1
1,1-Dichloropropene	ND		1.0		ug/L			04/18/18 02:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/18/18 02:00	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/18/18 02:00	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/18/18 02:00	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/18/18 02:00	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/18/18 02:00	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/18/18 02:00	1
1,2-Dichloroethane	ND		1.0		ug/L			04/18/18 02:00	1
1,2-Dichloropropane	ND		1.0		ug/L			04/18/18 02:00	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/18/18 02:00	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/18/18 02:00	1
1,3-Dichloropropane	ND		1.0		ug/L			04/18/18 02:00	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/18/18 02:00	1
1,4-Dioxane	ND *		50		ug/L			04/18/18 02:00	1
2,2-Dichloropropane	ND		1.0		ug/L			04/18/18 02:00	1
2-Butanone (MEK)	ND *		10		ug/L			04/18/18 02:00	1
2-Chlorotoluene	ND		1.0		ug/L			04/18/18 02:00	1
2-Hexanone	ND		10		ug/L			04/18/18 02:00	1
4-Chlorotoluene	ND		1.0		ug/L			04/18/18 02:00	1
4-Isopropyltoluene	ND		1.0		ug/L			04/18/18 02:00	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/18/18 02:00	1
Acetone	ND *		50		ug/L			04/18/18 02:00	1
Benzene	ND		1.0		ug/L			04/18/18 02:00	1
Bromobenzene	ND		1.0		ug/L			04/18/18 02:00	1
Bromoform	ND		1.0		ug/L			04/18/18 02:00	1
Bromomethane	ND		2.0		ug/L			04/18/18 02:00	1
Carbon disulfide	ND		10		ug/L			04/18/18 02:00	1
Carbon tetrachloride	ND		1.0		ug/L			04/18/18 02:00	1
Chlorobenzene	ND		1.0		ug/L			04/18/18 02:00	1
Chlorobromomethane	ND		1.0		ug/L			04/18/18 02:00	1
Chlorodibromomethane	ND		0.50		ug/L			04/18/18 02:00	1
Chloroethane	ND		2.0		ug/L			04/18/18 02:00	1
Chloroform	ND		1.0		ug/L			04/18/18 02:00	1
Chloromethane	ND		2.0		ug/L			04/18/18 02:00	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 02:00	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 02:00	1
Dichlorobromomethane	ND		0.50		ug/L			04/18/18 02:00	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/18/18 02:00	1
Ethyl ether	ND		1.0		ug/L			04/18/18 02:00	1
<b>Ethylbenzene</b>	<b>2.6</b>		1.0		ug/L			04/18/18 02:00	1
Ethylene Dibromide	ND		1.0		ug/L			04/18/18 02:00	1
Hexachlorobutadiene	ND		0.40		ug/L			04/18/18 02:00	1
Isopropyl ether	ND		10		ug/L			04/18/18 02:00	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: MW-561-20180411**

**Lab Sample ID: 480-133988-9**

Date Collected: 04/11/18 08:30

Matrix: Water

Date Received: 04/12/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/18/18 02:00	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/18/18 02:00	1
Methylene Chloride	ND		1.0		ug/L			04/18/18 02:00	1
<b>m-Xylene &amp; p-Xylene</b>	<b>5.8</b>		2.0		ug/L			04/18/18 02:00	1
Naphthalene	ND		5.0		ug/L			04/18/18 02:00	1
n-Butylbenzene	ND		1.0		ug/L			04/18/18 02:00	1
N-Propylbenzene	ND		1.0		ug/L			04/18/18 02:00	1
<b>o-Xylene</b>	<b>2.5</b>		1.0		ug/L			04/18/18 02:00	1
sec-Butylbenzene	ND		1.0		ug/L			04/18/18 02:00	1
Styrene	ND		1.0		ug/L			04/18/18 02:00	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/18/18 02:00	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/18/18 02:00	1
tert-Butylbenzene	ND		1.0		ug/L			04/18/18 02:00	1
Tetrachloroethene	ND		1.0		ug/L			04/18/18 02:00	1
Tetrahydrofuran	ND *		10		ug/L			04/18/18 02:00	1
Toluene	ND		1.0		ug/L			04/18/18 02:00	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 02:00	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 02:00	1
Trichloroethene	ND		1.0		ug/L			04/18/18 02:00	1
Trichlorofluoromethane	ND		1.0		ug/L			04/18/18 02:00	1
Vinyl chloride	ND		1.0		ug/L			04/18/18 02:00	1
Dibromomethane	ND		1.0		ug/L			04/18/18 02:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/18/18 02:00	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		04/18/18 02:00	1
4-Bromofluorobenzene (Surr)	104		70 - 130		04/18/18 02:00	1

**Method: 6010 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	81		0.050		mg/L		04/14/18 09:34	04/16/18 15:10	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33		2.5		mg/L			04/14/18 23:13	5
Sulfate	ND		10		mg/L			04/14/18 23:13	5
Ammonia	1.9		0.20		mg/L		04/19/18 16:36	04/20/18 17:04	1
Nitrate as N	0.066		0.050		mg/L			04/12/18 22:47	1
TOC Result 1	3.4		1.0		mg/L			04/14/18 19:08	1
TOC Result 2	3.4		1.0		mg/L			04/14/18 19:08	1
Total Organic Carbon - Duplicates	3.4		1.0		mg/L			04/14/18 19:08	1
Alkalinity, Total	340		5.0		mg/L			04/19/18 12:02	1
ortho-Phosphate	ND		0.020		mg/L			04/12/18 08:23	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.6	HF	0.1		SU			04/12/18 13:17	1
Temperature	20.5	HF	0.001		Degrees C			04/12/18 13:17	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: MW-563-20180411**

**Lab Sample ID: 480-133988-10**

**Date Collected: 04/11/18 10:50**

**Matrix: Water**

**Date Received: 04/12/18 01:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/18/18 02:24	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/18/18 02:24	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/18/18 02:24	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/18/18 02:24	1
1,1-Dichloroethane	ND		1.0		ug/L			04/18/18 02:24	1
1,1-Dichloroethene	ND		1.0		ug/L			04/18/18 02:24	1
1,1-Dichloropropene	ND		1.0		ug/L			04/18/18 02:24	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/18/18 02:24	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/18/18 02:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/18/18 02:24	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/18/18 02:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/18/18 02:24	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/18/18 02:24	1
1,2-Dichloroethane	ND		1.0		ug/L			04/18/18 02:24	1
1,2-Dichloropropane	ND		1.0		ug/L			04/18/18 02:24	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/18/18 02:24	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/18/18 02:24	1
1,3-Dichloropropane	ND		1.0		ug/L			04/18/18 02:24	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/18/18 02:24	1
1,4-Dioxane	ND *		50		ug/L			04/18/18 02:24	1
2,2-Dichloropropane	ND		1.0		ug/L			04/18/18 02:24	1
2-Butanone (MEK)	ND *		10		ug/L			04/18/18 02:24	1
2-Chlorotoluene	ND		1.0		ug/L			04/18/18 02:24	1
2-Hexanone	ND		10		ug/L			04/18/18 02:24	1
4-Chlorotoluene	ND		1.0		ug/L			04/18/18 02:24	1
4-Isopropyltoluene	ND		1.0		ug/L			04/18/18 02:24	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/18/18 02:24	1
Acetone	ND *		50		ug/L			04/18/18 02:24	1
Benzene	ND		1.0		ug/L			04/18/18 02:24	1
Bromobenzene	ND		1.0		ug/L			04/18/18 02:24	1
Bromoform	ND		1.0		ug/L			04/18/18 02:24	1
Bromomethane	ND		2.0		ug/L			04/18/18 02:24	1
Carbon disulfide	ND		10		ug/L			04/18/18 02:24	1
Carbon tetrachloride	ND		1.0		ug/L			04/18/18 02:24	1
Chlorobenzene	ND		1.0		ug/L			04/18/18 02:24	1
Chlorobromomethane	ND		1.0		ug/L			04/18/18 02:24	1
Chlorodibromomethane	ND		0.50		ug/L			04/18/18 02:24	1
Chloroethane	ND		2.0		ug/L			04/18/18 02:24	1
Chloroform	ND		1.0		ug/L			04/18/18 02:24	1
Chloromethane	ND		2.0		ug/L			04/18/18 02:24	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 02:24	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 02:24	1
Dichlorobromomethane	ND		0.50		ug/L			04/18/18 02:24	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/18/18 02:24	1
Ethyl ether	ND		1.0		ug/L			04/18/18 02:24	1
Ethylbenzene	ND		1.0		ug/L			04/18/18 02:24	1
Ethylene Dibromide	ND		1.0		ug/L			04/18/18 02:24	1
Hexachlorobutadiene	ND		0.40		ug/L			04/18/18 02:24	1
Isopropyl ether	ND		10		ug/L			04/18/18 02:24	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: MW-563-20180411**

**Lab Sample ID: 480-133988-10**

**Date Collected: 04/11/18 10:50**

**Matrix: Water**

**Date Received: 04/12/18 01:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/18/18 02:24	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/18/18 02:24	1
Methylene Chloride	ND		1.0		ug/L			04/18/18 02:24	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/18/18 02:24	1
Naphthalene	ND		5.0		ug/L			04/18/18 02:24	1
n-Butylbenzene	ND		1.0		ug/L			04/18/18 02:24	1
N-Propylbenzene	ND		1.0		ug/L			04/18/18 02:24	1
o-Xylene	ND		1.0		ug/L			04/18/18 02:24	1
sec-Butylbenzene	ND		1.0		ug/L			04/18/18 02:24	1
Styrene	ND		1.0		ug/L			04/18/18 02:24	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/18/18 02:24	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/18/18 02:24	1
tert-Butylbenzene	ND		1.0		ug/L			04/18/18 02:24	1
Tetrachloroethene	ND		1.0		ug/L			04/18/18 02:24	1
Tetrahydrofuran	ND	*	10		ug/L			04/18/18 02:24	1
Toluene	ND		1.0		ug/L			04/18/18 02:24	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 02:24	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 02:24	1
Trichloroethene	ND		1.0		ug/L			04/18/18 02:24	1
Trichlorofluoromethane	ND		1.0		ug/L			04/18/18 02:24	1
Vinyl chloride	ND		1.0		ug/L			04/18/18 02:24	1
Dibromomethane	ND		1.0		ug/L			04/18/18 02:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/18/18 02:24	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		04/18/18 02:24	1
4-Bromofluorobenzene (Surr)	102		70 - 130		04/18/18 02:24	1

**Method: 6010 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	14		0.050		mg/L		04/14/18 09:34	04/16/18 15:14	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.9		0.50		mg/L			04/14/18 14:53	1
Sulfate	4.4		2.0		mg/L			04/14/18 14:53	1
Ammonia	0.37		0.20		mg/L		04/12/18 20:20	04/16/18 21:09	1
Nitrate as N	ND		0.050		mg/L			04/12/18 18:28	1
TOC Result 1	ND		1.0		mg/L			04/18/18 12:09	1
TOC Result 2	ND		1.0		mg/L			04/18/18 12:09	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/18/18 12:09	1
Alkalinity, Total	130		5.0		mg/L			04/19/18 12:08	1
ortho-Phosphate	0.037		0.020		mg/L			04/12/18 08:23	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.9	HF	0.1		SU			04/12/18 13:20	1
Temperature	20.6	HF	0.001		Degrees C			04/12/18 13:20	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: REW-1-20180411**

**Lab Sample ID: 480-133988-11**

Date Collected: 04/11/18 12:20

Matrix: Water

Date Received: 04/12/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/18/18 02:47	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/18/18 02:47	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/18/18 02:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/18/18 02:47	1
1,1-Dichloroethane	ND		1.0		ug/L			04/18/18 02:47	1
1,1-Dichloroethene	ND		1.0		ug/L			04/18/18 02:47	1
1,1-Dichloropropene	ND		1.0		ug/L			04/18/18 02:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/18/18 02:47	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/18/18 02:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/18/18 02:47	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/18/18 02:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/18/18 02:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/18/18 02:47	1
1,2-Dichloroethane	ND		1.0		ug/L			04/18/18 02:47	1
1,2-Dichloropropane	ND		1.0		ug/L			04/18/18 02:47	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/18/18 02:47	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/18/18 02:47	1
1,3-Dichloropropane	ND		1.0		ug/L			04/18/18 02:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/18/18 02:47	1
1,4-Dioxane	ND *		50		ug/L			04/18/18 02:47	1
2,2-Dichloropropane	ND		1.0		ug/L			04/18/18 02:47	1
2-Butanone (MEK)	ND *		10		ug/L			04/18/18 02:47	1
2-Chlorotoluene	ND		1.0		ug/L			04/18/18 02:47	1
2-Hexanone	ND		10		ug/L			04/18/18 02:47	1
4-Chlorotoluene	ND		1.0		ug/L			04/18/18 02:47	1
4-Isopropyltoluene	ND		1.0		ug/L			04/18/18 02:47	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/18/18 02:47	1
Acetone	ND *		50		ug/L			04/18/18 02:47	1
Benzene	ND		1.0		ug/L			04/18/18 02:47	1
Bromobenzene	ND		1.0		ug/L			04/18/18 02:47	1
Bromoform	ND		1.0		ug/L			04/18/18 02:47	1
Bromomethane	ND		2.0		ug/L			04/18/18 02:47	1
Carbon disulfide	ND		10		ug/L			04/18/18 02:47	1
Carbon tetrachloride	ND		1.0		ug/L			04/18/18 02:47	1
Chlorobenzene	ND		1.0		ug/L			04/18/18 02:47	1
Chlorobromomethane	ND		1.0		ug/L			04/18/18 02:47	1
Chlorodibromomethane	ND		0.50		ug/L			04/18/18 02:47	1
Chloroethane	ND		2.0		ug/L			04/18/18 02:47	1
Chloroform	ND		1.0		ug/L			04/18/18 02:47	1
Chloromethane	ND		2.0		ug/L			04/18/18 02:47	1
<b>cis-1,2-Dichloroethene</b>	<b>2.5</b>		1.0		ug/L			04/18/18 02:47	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 02:47	1
Dichlorobromomethane	ND		0.50		ug/L			04/18/18 02:47	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/18/18 02:47	1
Ethyl ether	ND		1.0		ug/L			04/18/18 02:47	1
Ethylbenzene	ND		1.0		ug/L			04/18/18 02:47	1
Ethylene Dibromide	ND		1.0		ug/L			04/18/18 02:47	1
Hexachlorobutadiene	ND		0.40		ug/L			04/18/18 02:47	1
Isopropyl ether	ND		10		ug/L			04/18/18 02:47	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: REW-1-20180411**

**Lab Sample ID: 480-133988-11**

Date Collected: 04/11/18 12:20

Matrix: Water

Date Received: 04/12/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/18/18 02:47	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/18/18 02:47	1
Methylene Chloride	ND		1.0		ug/L			04/18/18 02:47	1
<b>m-Xylene &amp; p-Xylene</b>	<b>3.0</b>		2.0		ug/L			04/18/18 02:47	1
Naphthalene	ND		5.0		ug/L			04/18/18 02:47	1
n-Butylbenzene	ND		1.0		ug/L			04/18/18 02:47	1
N-Propylbenzene	ND		1.0		ug/L			04/18/18 02:47	1
o-Xylene	ND		1.0		ug/L			04/18/18 02:47	1
sec-Butylbenzene	ND		1.0		ug/L			04/18/18 02:47	1
Styrene	ND		1.0		ug/L			04/18/18 02:47	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/18/18 02:47	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/18/18 02:47	1
tert-Butylbenzene	ND		1.0		ug/L			04/18/18 02:47	1
Tetrachloroethene	ND		1.0		ug/L			04/18/18 02:47	1
Tetrahydrofuran	ND *		10		ug/L			04/18/18 02:47	1
Toluene	ND		1.0		ug/L			04/18/18 02:47	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 02:47	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 02:47	1
Trichloroethene	ND		1.0		ug/L			04/18/18 02:47	1
Trichlorofluoromethane	ND		1.0		ug/L			04/18/18 02:47	1
Vinyl chloride	ND		1.0		ug/L			04/18/18 02:47	1
Dibromomethane	ND		1.0		ug/L			04/18/18 02:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/18/18 02:47	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		04/18/18 02:47	1
4-Bromofluorobenzene (Surr)	101		70 - 130		04/18/18 02:47	1

**Method: 6010 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	110		0.050		mg/L		04/14/18 09:34	04/16/18 15:17	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.9		1.0		mg/L			04/14/18 15:01	2
Sulfate	9.7		4.0		mg/L			04/14/18 15:01	2
Ammonia	0.75		0.20		mg/L		04/17/18 16:09	04/18/18 13:46	1
Nitrate as N	ND		0.050		mg/L			04/12/18 18:29	1
TOC Result 1	1.8		1.0		mg/L			04/14/18 20:03	1
TOC Result 2	1.6		1.0		mg/L			04/14/18 20:03	1
Total Organic Carbon - Duplicates	1.7		1.0		mg/L			04/14/18 20:03	1
Alkalinity, Total	390		5.0		mg/L			04/19/18 12:17	1
ortho-Phosphate	0.034		0.020		mg/L			04/12/18 08:23	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.1	HF	0.1		SU			04/12/18 13:24	1
Temperature	21.0	HF	0.001		Degrees C			04/12/18 13:24	1

TestAmerica Buffalo



# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: REW-4-20180411**

**Lab Sample ID: 480-133988-12**

Date Collected: 04/11/18 11:40

Matrix: Water

Date Received: 04/12/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/18/18 03:11	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/18/18 03:11	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/18/18 03:11	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/18/18 03:11	1
1,1-Dichloroethane	ND		1.0		ug/L			04/18/18 03:11	1
1,1-Dichloroethene	ND		1.0		ug/L			04/18/18 03:11	1
1,1-Dichloropropene	ND		1.0		ug/L			04/18/18 03:11	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/18/18 03:11	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/18/18 03:11	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/18/18 03:11	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/18/18 03:11	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/18/18 03:11	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/18/18 03:11	1
1,2-Dichloroethane	ND		1.0		ug/L			04/18/18 03:11	1
1,2-Dichloropropane	ND		1.0		ug/L			04/18/18 03:11	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/18/18 03:11	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/18/18 03:11	1
1,3-Dichloropropane	ND		1.0		ug/L			04/18/18 03:11	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/18/18 03:11	1
1,4-Dioxane	ND *		50		ug/L			04/18/18 03:11	1
2,2-Dichloropropane	ND		1.0		ug/L			04/18/18 03:11	1
2-Butanone (MEK)	ND *		10		ug/L			04/18/18 03:11	1
2-Chlorotoluene	ND		1.0		ug/L			04/18/18 03:11	1
2-Hexanone	ND		10		ug/L			04/18/18 03:11	1
4-Chlorotoluene	ND		1.0		ug/L			04/18/18 03:11	1
4-Isopropyltoluene	ND		1.0		ug/L			04/18/18 03:11	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/18/18 03:11	1
Acetone	ND *		50		ug/L			04/18/18 03:11	1
Benzene	ND		1.0		ug/L			04/18/18 03:11	1
Bromobenzene	ND		1.0		ug/L			04/18/18 03:11	1
Bromoform	ND		1.0		ug/L			04/18/18 03:11	1
Bromomethane	ND		2.0		ug/L			04/18/18 03:11	1
Carbon disulfide	ND		10		ug/L			04/18/18 03:11	1
Carbon tetrachloride	ND		1.0		ug/L			04/18/18 03:11	1
Chlorobenzene	ND		1.0		ug/L			04/18/18 03:11	1
Chlorobromomethane	ND		1.0		ug/L			04/18/18 03:11	1
Chlorodibromomethane	ND		0.50		ug/L			04/18/18 03:11	1
Chloroethane	ND		2.0		ug/L			04/18/18 03:11	1
Chloroform	ND		1.0		ug/L			04/18/18 03:11	1
Chloromethane	ND		2.0		ug/L			04/18/18 03:11	1
<b>cis-1,2-Dichloroethene</b>	<b>3.3</b>		1.0		ug/L			04/18/18 03:11	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 03:11	1
Dichlorobromomethane	ND		0.50		ug/L			04/18/18 03:11	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/18/18 03:11	1
Ethyl ether	ND		1.0		ug/L			04/18/18 03:11	1
Ethylbenzene	ND		1.0		ug/L			04/18/18 03:11	1
Ethylene Dibromide	ND		1.0		ug/L			04/18/18 03:11	1
Hexachlorobutadiene	ND		0.40		ug/L			04/18/18 03:11	1
Isopropyl ether	ND		10		ug/L			04/18/18 03:11	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: REW-4-20180411**

**Lab Sample ID: 480-133988-12**

**Date Collected: 04/11/18 11:40**

**Matrix: Water**

**Date Received: 04/12/18 01:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/18/18 03:11	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/18/18 03:11	1
Methylene Chloride	ND		1.0		ug/L			04/18/18 03:11	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/18/18 03:11	1
Naphthalene	ND		5.0		ug/L			04/18/18 03:11	1
n-Butylbenzene	ND		1.0		ug/L			04/18/18 03:11	1
N-Propylbenzene	ND		1.0		ug/L			04/18/18 03:11	1
o-Xylene	ND		1.0		ug/L			04/18/18 03:11	1
sec-Butylbenzene	ND		1.0		ug/L			04/18/18 03:11	1
Styrene	ND		1.0		ug/L			04/18/18 03:11	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/18/18 03:11	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/18/18 03:11	1
tert-Butylbenzene	ND		1.0		ug/L			04/18/18 03:11	1
Tetrachloroethene	ND		1.0		ug/L			04/18/18 03:11	1
Tetrahydrofuran	ND	*	10		ug/L			04/18/18 03:11	1
Toluene	ND		1.0		ug/L			04/18/18 03:11	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 03:11	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 03:11	1
Trichloroethene	ND		1.0		ug/L			04/18/18 03:11	1
Trichlorofluoromethane	ND		1.0		ug/L			04/18/18 03:11	1
Vinyl chloride	ND		1.0		ug/L			04/18/18 03:11	1
Dibromomethane	ND		1.0		ug/L			04/18/18 03:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/18/18 03:11	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/18/18 03:11	1
4-Bromofluorobenzene (Surr)	103		70 - 130		04/18/18 03:11	1

**Method: 6010 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	5.9		0.050		mg/L		04/14/18 09:34	04/16/18 15:21	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4.9		0.50		mg/L			04/14/18 15:09	1
Sulfate	18		2.0		mg/L			04/14/18 15:09	1
Ammonia	0.37		0.20		mg/L		04/17/18 16:09	04/18/18 13:47	1
Nitrate as N	ND		0.050		mg/L			04/12/18 18:30	1
TOC Result 1	ND		1.0		mg/L			04/14/18 22:21	1
TOC Result 2	ND		1.0		mg/L			04/14/18 22:21	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/14/18 22:21	1
Alkalinity, Total	88		5.0		mg/L			04/19/18 12:24	1
ortho-Phosphate	0.090		0.020		mg/L			04/12/18 08:23	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.8	HF	0.1		SU			04/12/18 13:26	1
Temperature	21.2	HF	0.001		Degrees C			04/12/18 13:26	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: REW-5-20180411**

**Lab Sample ID: 480-133988-13**

Date Collected: 04/11/18 10:40

Matrix: Water

Date Received: 04/12/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/18/18 03:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/18/18 03:34	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/18/18 03:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/18/18 03:34	1
1,1-Dichloroethane	ND		1.0		ug/L			04/18/18 03:34	1
1,1-Dichloroethene	ND		1.0		ug/L			04/18/18 03:34	1
1,1-Dichloropropene	ND		1.0		ug/L			04/18/18 03:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/18/18 03:34	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/18/18 03:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/18/18 03:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/18/18 03:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/18/18 03:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/18/18 03:34	1
1,2-Dichloroethane	ND		1.0		ug/L			04/18/18 03:34	1
1,2-Dichloropropane	ND		1.0		ug/L			04/18/18 03:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/18/18 03:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/18/18 03:34	1
1,3-Dichloropropane	ND		1.0		ug/L			04/18/18 03:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/18/18 03:34	1
1,4-Dioxane	ND *		50		ug/L			04/18/18 03:34	1
2,2-Dichloropropane	ND		1.0		ug/L			04/18/18 03:34	1
2-Butanone (MEK)	ND *		10		ug/L			04/18/18 03:34	1
2-Chlorotoluene	ND		1.0		ug/L			04/18/18 03:34	1
2-Hexanone	ND		10		ug/L			04/18/18 03:34	1
4-Chlorotoluene	ND		1.0		ug/L			04/18/18 03:34	1
4-Isopropyltoluene	ND		1.0		ug/L			04/18/18 03:34	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/18/18 03:34	1
Acetone	ND *		50		ug/L			04/18/18 03:34	1
Benzene	ND		1.0		ug/L			04/18/18 03:34	1
Bromobenzene	ND		1.0		ug/L			04/18/18 03:34	1
Bromoform	ND		1.0		ug/L			04/18/18 03:34	1
Bromomethane	ND		2.0		ug/L			04/18/18 03:34	1
Carbon disulfide	ND		10		ug/L			04/18/18 03:34	1
Carbon tetrachloride	ND		1.0		ug/L			04/18/18 03:34	1
Chlorobenzene	ND		1.0		ug/L			04/18/18 03:34	1
Chlorobromomethane	ND		1.0		ug/L			04/18/18 03:34	1
Chlorodibromomethane	ND		0.50		ug/L			04/18/18 03:34	1
Chloroethane	ND		2.0		ug/L			04/18/18 03:34	1
Chloroform	ND		1.0		ug/L			04/18/18 03:34	1
Chloromethane	ND		2.0		ug/L			04/18/18 03:34	1
<b>cis-1,2-Dichloroethene</b>	<b>7.0</b>		1.0		ug/L			04/18/18 03:34	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 03:34	1
Dichlorobromomethane	ND		0.50		ug/L			04/18/18 03:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/18/18 03:34	1
Ethyl ether	ND		1.0		ug/L			04/18/18 03:34	1
Ethylbenzene	ND		1.0		ug/L			04/18/18 03:34	1
Ethylene Dibromide	ND		1.0		ug/L			04/18/18 03:34	1
Hexachlorobutadiene	ND		0.40		ug/L			04/18/18 03:34	1
Isopropyl ether	ND		10		ug/L			04/18/18 03:34	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: REW-5-20180411**

**Lab Sample ID: 480-133988-13**

**Date Collected: 04/11/18 10:40**

**Matrix: Water**

**Date Received: 04/12/18 01:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/18/18 03:34	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/18/18 03:34	1
Methylene Chloride	ND		1.0		ug/L			04/18/18 03:34	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/18/18 03:34	1
Naphthalene	ND		5.0		ug/L			04/18/18 03:34	1
n-Butylbenzene	ND		1.0		ug/L			04/18/18 03:34	1
N-Propylbenzene	ND		1.0		ug/L			04/18/18 03:34	1
o-Xylene	ND		1.0		ug/L			04/18/18 03:34	1
sec-Butylbenzene	ND		1.0		ug/L			04/18/18 03:34	1
Styrene	ND		1.0		ug/L			04/18/18 03:34	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/18/18 03:34	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/18/18 03:34	1
tert-Butylbenzene	ND		1.0		ug/L			04/18/18 03:34	1
Tetrachloroethene	ND		1.0		ug/L			04/18/18 03:34	1
Tetrahydrofuran	ND	*	10		ug/L			04/18/18 03:34	1
Toluene	ND		1.0		ug/L			04/18/18 03:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 03:34	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 03:34	1
Trichloroethene	ND		1.0		ug/L			04/18/18 03:34	1
Trichlorofluoromethane	ND		1.0		ug/L			04/18/18 03:34	1
<b>Vinyl chloride</b>	<b>3.0</b>		1.0		ug/L			04/18/18 03:34	1
Dibromomethane	ND		1.0		ug/L			04/18/18 03:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/18/18 03:34	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/18/18 03:34	1
4-Bromofluorobenzene (Surr)	102		70 - 130		04/18/18 03:34	1

**Method: 6010 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	8.3		0.050		mg/L		04/14/18 09:34	04/16/18 15:36	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.4		1.0		mg/L			04/14/18 15:17	2
Sulfate	ND		4.0		mg/L			04/14/18 15:17	2
Ammonia	0.39		0.20		mg/L		04/17/18 16:09	04/18/18 13:48	1
Nitrate as N	ND		0.050		mg/L			04/12/18 18:31	1
TOC Result 1	1.5		1.0		mg/L			04/14/18 23:17	1
TOC Result 2	1.4		1.0		mg/L			04/14/18 23:17	1
Total Organic Carbon - Duplicates	1.5		1.0		mg/L			04/14/18 23:17	1
Alkalinity, Total	290		5.0		mg/L			04/19/18 12:30	1
ortho-Phosphate	0.24		0.020		mg/L			04/12/18 08:23	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.1	HF	0.1		SU			04/12/18 13:30	1
Temperature	21.1	HF	0.001		Degrees C			04/12/18 13:30	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: REW-8-20180411**

**Lab Sample ID: 480-133988-14**

**Date Collected: 04/11/18 07:55**

**Matrix: Water**

**Date Received: 04/12/18 01:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/18/18 15:58	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/18/18 15:58	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/18/18 15:58	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/18/18 15:58	1
1,1-Dichloroethane	ND		1.0		ug/L			04/18/18 15:58	1
1,1-Dichloroethene	ND		1.0		ug/L			04/18/18 15:58	1
1,1-Dichloropropene	ND		1.0		ug/L			04/18/18 15:58	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/18/18 15:58	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/18/18 15:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/18/18 15:58	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/18/18 15:58	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/18/18 15:58	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/18/18 15:58	1
1,2-Dichloroethane	ND		1.0		ug/L			04/18/18 15:58	1
1,2-Dichloropropane	ND		1.0		ug/L			04/18/18 15:58	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/18/18 15:58	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/18/18 15:58	1
1,3-Dichloropropane	ND		1.0		ug/L			04/18/18 15:58	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/18/18 15:58	1
1,4-Dioxane	ND *		50		ug/L			04/18/18 15:58	1
2,2-Dichloropropane	ND		1.0		ug/L			04/18/18 15:58	1
2-Butanone (MEK)	ND *		10		ug/L			04/18/18 15:58	1
2-Chlorotoluene	ND		1.0		ug/L			04/18/18 15:58	1
2-Hexanone	ND		10		ug/L			04/18/18 15:58	1
4-Chlorotoluene	ND		1.0		ug/L			04/18/18 15:58	1
4-Isopropyltoluene	ND		1.0		ug/L			04/18/18 15:58	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/18/18 15:58	1
Acetone	ND *		50		ug/L			04/18/18 15:58	1
Benzene	ND		1.0		ug/L			04/18/18 15:58	1
Bromobenzene	ND		1.0		ug/L			04/18/18 15:58	1
Bromoform	ND		1.0		ug/L			04/18/18 15:58	1
Bromomethane	ND		2.0		ug/L			04/18/18 15:58	1
Carbon disulfide	ND		10		ug/L			04/18/18 15:58	1
Carbon tetrachloride	ND		1.0		ug/L			04/18/18 15:58	1
Chlorobenzene	ND		1.0		ug/L			04/18/18 15:58	1
Chlorobromomethane	ND		1.0		ug/L			04/18/18 15:58	1
Chlorodibromomethane	ND		0.50		ug/L			04/18/18 15:58	1
Chloroethane	ND		2.0		ug/L			04/18/18 15:58	1
Chloroform	ND		1.0		ug/L			04/18/18 15:58	1
Chloromethane	ND		2.0		ug/L			04/18/18 15:58	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 15:58	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 15:58	1
Dichlorobromomethane	ND		0.50		ug/L			04/18/18 15:58	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/18/18 15:58	1
Ethyl ether	ND		1.0		ug/L			04/18/18 15:58	1
Ethylbenzene	ND		1.0		ug/L			04/18/18 15:58	1
Ethylene Dibromide	ND		1.0		ug/L			04/18/18 15:58	1
Hexachlorobutadiene	ND		0.40		ug/L			04/18/18 15:58	1
Isopropyl ether	ND		10		ug/L			04/18/18 15:58	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: REW-8-20180411**

**Lab Sample ID: 480-133988-14**

Date Collected: 04/11/18 07:55

Matrix: Water

Date Received: 04/12/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/18/18 15:58	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/18/18 15:58	1
Methylene Chloride	ND		1.0		ug/L			04/18/18 15:58	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/18/18 15:58	1
<b>Naphthalene</b>	<b>100</b>		5.0		ug/L			04/18/18 15:58	1
n-Butylbenzene	ND		1.0		ug/L			04/18/18 15:58	1
N-Propylbenzene	ND		1.0		ug/L			04/18/18 15:58	1
o-Xylene	ND		1.0		ug/L			04/18/18 15:58	1
sec-Butylbenzene	ND		1.0		ug/L			04/18/18 15:58	1
Styrene	ND		1.0		ug/L			04/18/18 15:58	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/18/18 15:58	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/18/18 15:58	1
tert-Butylbenzene	ND		1.0		ug/L			04/18/18 15:58	1
Tetrachloroethene	ND		1.0		ug/L			04/18/18 15:58	1
Tetrahydrofuran	ND *		10		ug/L			04/18/18 15:58	1
Toluene	ND		1.0		ug/L			04/18/18 15:58	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 15:58	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 15:58	1
Trichloroethene	ND		1.0		ug/L			04/18/18 15:58	1
Trichlorofluoromethane	ND		1.0		ug/L			04/18/18 15:58	1
Vinyl chloride	ND		1.0		ug/L			04/18/18 15:58	1
Dibromomethane	ND		1.0		ug/L			04/18/18 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		04/18/18 15:58	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/18/18 15:58	1
4-Bromofluorobenzene (Surr)	103		70 - 130		04/18/18 15:58	1

**Method: 6010 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3.6		0.050		mg/L		04/14/18 09:34	04/16/18 15:39	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.9		0.50		mg/L			04/14/18 15:25	1
Sulfate	19		2.0		mg/L			04/14/18 15:25	1
Ammonia	1.3		0.20		mg/L		04/17/18 16:09	04/18/18 13:48	1
Nitrate as N	ND		0.050		mg/L			04/12/18 18:32	1
TOC Result 1	1.4		1.0		mg/L			04/15/18 00:13	1
TOC Result 2	1.5		1.0		mg/L			04/15/18 00:13	1
Total Organic Carbon - Duplicates	1.5		1.0		mg/L			04/15/18 00:13	1
Alkalinity, Total	58		5.0		mg/L			04/19/18 12:37	1
ortho-Phosphate	0.45		0.020		mg/L			04/12/18 08:23	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.0	HF	0.1		SU			04/13/18 16:55	1
Temperature	21.0	HF	0.001		Degrees C			04/13/18 16:55	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: REW-9-20180411**

**Lab Sample ID: 480-133988-15**

**Date Collected: 04/11/18 08:40**

**Matrix: Water**

**Date Received: 04/12/18 01:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/19/18 01:38	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 01:38	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 01:38	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 01:38	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 01:38	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 01:38	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 01:38	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 01:38	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 01:38	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 01:38	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 01:38	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 01:38	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 01:38	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 01:38	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 01:38	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 01:38	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/19/18 01:38	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 01:38	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 01:38	1
1,4-Dioxane	ND *		50		ug/L			04/19/18 01:38	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 01:38	1
2-Butanone (MEK)	ND *		10		ug/L			04/19/18 01:38	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 01:38	1
2-Hexanone	ND		10		ug/L			04/19/18 01:38	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 01:38	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 01:38	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 01:38	1
Acetone	ND *		50		ug/L			04/19/18 01:38	1
Benzene	ND		1.0		ug/L			04/19/18 01:38	1
Bromobenzene	ND		1.0		ug/L			04/19/18 01:38	1
Bromoform	ND		1.0		ug/L			04/19/18 01:38	1
Bromomethane	ND		2.0		ug/L			04/19/18 01:38	1
Carbon disulfide	ND		10		ug/L			04/19/18 01:38	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 01:38	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 01:38	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 01:38	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 01:38	1
Chloroethane	ND		2.0		ug/L			04/19/18 01:38	1
Chloroform	ND		1.0		ug/L			04/19/18 01:38	1
Chloromethane	ND		2.0		ug/L			04/19/18 01:38	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 01:38	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 01:38	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 01:38	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 01:38	1
Ethyl ether	ND		1.0		ug/L			04/19/18 01:38	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 01:38	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 01:38	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 01:38	1
Isopropyl ether	ND		10		ug/L			04/19/18 01:38	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: REW-9-20180411**

**Lab Sample ID: 480-133988-15**

**Date Collected: 04/11/18 08:40**

**Matrix: Water**

**Date Received: 04/12/18 01:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/19/18 01:38	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 01:38	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 01:38	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 01:38	1
Naphthalene	ND		5.0		ug/L			04/19/18 01:38	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 01:38	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 01:38	1
o-Xylene	ND		1.0		ug/L			04/19/18 01:38	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 01:38	1
Styrene	ND		1.0		ug/L			04/19/18 01:38	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 01:38	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 01:38	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 01:38	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 01:38	1
Tetrahydrofuran	ND	*	10		ug/L			04/19/18 01:38	1
Toluene	ND		1.0		ug/L			04/19/18 01:38	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 01:38	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 01:38	1
Trichloroethene	ND		1.0		ug/L			04/19/18 01:38	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 01:38	1
Vinyl chloride	ND		1.0		ug/L			04/19/18 01:38	1
Dibromomethane	ND		1.0		ug/L			04/19/18 01:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/19/18 01:38	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		04/19/18 01:38	1
4-Bromofluorobenzene (Surr)	101		70 - 130		04/19/18 01:38	1

**Method: 6010 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	1.7		0.050		mg/L		04/14/18 09:34	04/16/18 15:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13		0.50		mg/L			04/14/18 15:33	1
Sulfate	50		2.0		mg/L			04/14/18 15:33	1
Ammonia	0.45		0.20		mg/L		04/17/18 16:09	04/18/18 13:49	1
Nitrate as N	ND		0.050		mg/L			04/12/18 18:33	1
TOC Result 1	ND		1.0		mg/L			04/15/18 00:41	1
TOC Result 2	ND		1.0		mg/L			04/15/18 00:41	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/15/18 00:41	1
Alkalinity, Total	50		5.0		mg/L			04/19/18 12:58	1
ortho-Phosphate	0.12		0.020		mg/L			04/12/18 08:23	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.2	HF	0.1		SU			04/13/18 17:01	1
Temperature	21.3	HF	0.001		Degrees C			04/13/18 17:01	1

TestAmerica Buffalo



# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: REW-10-20180411**

**Lab Sample ID: 480-133988-16**

Date Collected: 04/11/18 09:25

Matrix: Water

Date Received: 04/12/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/19/18 02:02	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 02:02	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 02:02	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 02:02	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 02:02	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 02:02	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 02:02	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 02:02	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 02:02	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 02:02	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 02:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 02:02	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 02:02	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 02:02	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 02:02	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 02:02	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/19/18 02:02	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 02:02	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 02:02	1
1,4-Dioxane	ND *		50		ug/L			04/19/18 02:02	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 02:02	1
2-Butanone (MEK)	ND *		10		ug/L			04/19/18 02:02	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 02:02	1
2-Hexanone	ND		10		ug/L			04/19/18 02:02	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 02:02	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 02:02	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 02:02	1
Acetone	ND *		50		ug/L			04/19/18 02:02	1
Benzene	ND		1.0		ug/L			04/19/18 02:02	1
Bromobenzene	ND		1.0		ug/L			04/19/18 02:02	1
Bromoform	ND		1.0		ug/L			04/19/18 02:02	1
Bromomethane	ND		2.0		ug/L			04/19/18 02:02	1
Carbon disulfide	ND		10		ug/L			04/19/18 02:02	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 02:02	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 02:02	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 02:02	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 02:02	1
Chloroethane	ND		2.0		ug/L			04/19/18 02:02	1
Chloroform	ND		1.0		ug/L			04/19/18 02:02	1
Chloromethane	ND		2.0		ug/L			04/19/18 02:02	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 02:02	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 02:02	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 02:02	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 02:02	1
Ethyl ether	ND		1.0		ug/L			04/19/18 02:02	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 02:02	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 02:02	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 02:02	1
Isopropyl ether	ND		10		ug/L			04/19/18 02:02	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: REW-10-20180411**

**Lab Sample ID: 480-133988-16**

Date Collected: 04/11/18 09:25

Matrix: Water

Date Received: 04/12/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/19/18 02:02	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 02:02	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 02:02	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 02:02	1
Naphthalene	ND		5.0		ug/L			04/19/18 02:02	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 02:02	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 02:02	1
o-Xylene	ND		1.0		ug/L			04/19/18 02:02	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 02:02	1
Styrene	ND		1.0		ug/L			04/19/18 02:02	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 02:02	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 02:02	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 02:02	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 02:02	1
Tetrahydrofuran	ND *		10		ug/L			04/19/18 02:02	1
Toluene	ND		1.0		ug/L			04/19/18 02:02	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 02:02	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 02:02	1
Trichloroethene	ND		1.0		ug/L			04/19/18 02:02	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 02:02	1
<b>Vinyl chloride</b>	<b>1.2</b>		1.0		ug/L			04/19/18 02:02	1
Dibromomethane	ND		1.0		ug/L			04/19/18 02:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130		04/19/18 02:02	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		04/19/18 02:02	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/19/18 02:02	1

**Method: 6010 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7.3		0.050		mg/L		04/14/18 09:34	04/16/18 15:47	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.5		0.50		mg/L			04/14/18 15:42	1
Sulfate	17		2.0		mg/L			04/14/18 15:42	1
Ammonia	0.82		0.20		mg/L		04/17/18 16:09	04/18/18 13:50	1
Nitrate as N	ND		0.050		mg/L			04/12/18 18:35	1
TOC Result 1	2.3		1.0		mg/L			04/15/18 01:09	1
TOC Result 2	2.3		1.0		mg/L			04/15/18 01:09	1
Total Organic Carbon - Duplicates	2.3		1.0		mg/L			04/15/18 01:09	1
Alkalinity, Total	47		5.0		mg/L			04/19/18 13:05	1
ortho-Phosphate	0.25		0.020		mg/L			04/12/18 08:23	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.7	HF	0.1		SU			04/13/18 17:04	1
Temperature	21.2	HF	0.001		Degrees C			04/13/18 17:04	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: REW-12-20180411**

**Lab Sample ID: 480-133988-17**

Date Collected: 04/11/18 11:05

Matrix: Water

Date Received: 04/12/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/19/18 11:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 11:50	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 11:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 11:50	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 11:50	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 11:50	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 11:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 11:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 11:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 11:50	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 11:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 11:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 11:50	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 11:50	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 11:50	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 11:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/19/18 11:50	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 11:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 11:50	1
1,4-Dioxane	ND *		50		ug/L			04/19/18 11:50	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 11:50	1
2-Butanone (MEK)	ND *		10		ug/L			04/19/18 11:50	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 11:50	1
2-Hexanone	ND		10		ug/L			04/19/18 11:50	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 11:50	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 11:50	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 11:50	1
Acetone	ND *		50		ug/L			04/19/18 11:50	1
Benzene	ND		1.0		ug/L			04/19/18 11:50	1
Bromobenzene	ND		1.0		ug/L			04/19/18 11:50	1
Bromoform	ND		1.0		ug/L			04/19/18 11:50	1
Bromomethane	ND		2.0		ug/L			04/19/18 11:50	1
Carbon disulfide	ND		10		ug/L			04/19/18 11:50	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 11:50	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 11:50	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 11:50	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 11:50	1
Chloroethane	ND		2.0		ug/L			04/19/18 11:50	1
Chloroform	ND		1.0		ug/L			04/19/18 11:50	1
Chloromethane	ND		2.0		ug/L			04/19/18 11:50	1
<b>cis-1,2-Dichloroethene</b>	<b>6.0</b>		1.0		ug/L			04/19/18 11:50	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 11:50	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 11:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 11:50	1
Ethyl ether	ND		1.0		ug/L			04/19/18 11:50	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 11:50	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 11:50	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 11:50	1
Isopropyl ether	ND		10		ug/L			04/19/18 11:50	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: REW-12-20180411**

**Lab Sample ID: 480-133988-17**

Date Collected: 04/11/18 11:05

Matrix: Water

Date Received: 04/12/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/19/18 11:50	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 11:50	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 11:50	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 11:50	1
Naphthalene	ND		5.0		ug/L			04/19/18 11:50	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 11:50	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 11:50	1
o-Xylene	ND		1.0		ug/L			04/19/18 11:50	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 11:50	1
Styrene	ND		1.0		ug/L			04/19/18 11:50	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 11:50	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 11:50	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 11:50	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 11:50	1
Tetrahydrofuran	ND *		10		ug/L			04/19/18 11:50	1
<b>Toluene</b>	<b>14</b>		1.0		ug/L			04/19/18 11:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 11:50	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 11:50	1
Trichloroethene	ND		1.0		ug/L			04/19/18 11:50	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 11:50	1
<b>Vinyl chloride</b>	<b>16</b>		1.0		ug/L			04/19/18 11:50	1
Dibromomethane	ND		1.0		ug/L			04/19/18 11:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/19/18 11:50	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 130		04/19/18 11:50	1
4-Bromofluorobenzene (Surr)	96		70 - 130		04/19/18 11:50	1

**Method: 6010 - Metals (ICP)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	39		0.050		mg/L		04/14/18 09:34	04/16/18 15:50	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25		1.0		mg/L			04/14/18 15:50	2
Sulfate	ND		4.0		mg/L			04/14/18 15:50	2
Ammonia	11		2.0		mg/L		04/19/18 16:36	04/20/18 18:50	10
Nitrate as N	ND		0.050		mg/L			04/12/18 18:41	1
TOC Result 1	5.6		1.0		mg/L			04/15/18 03:01	1
TOC Result 2	5.6		1.0		mg/L			04/15/18 03:01	1
Total Organic Carbon - Duplicates	5.6		1.0		mg/L			04/15/18 03:01	1
Alkalinity, Total	250		5.0		mg/L			04/19/18 13:13	1
ortho-Phosphate	0.084		0.020		mg/L			04/12/18 08:23	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.0	HF	0.1		SU			04/13/18 17:08	1
Temperature	21.0	HF	0.001		Degrees C			04/13/18 17:08	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: DUP3-20180411**

**Lab Sample ID: 480-133988-18**

**Date Collected: 04/11/18 00:00**

**Matrix: Water**

**Date Received: 04/12/18 01:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/19/18 12:14	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 12:14	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 12:14	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 12:14	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 12:14	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 12:14	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 12:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 12:14	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 12:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 12:14	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 12:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 12:14	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 12:14	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 12:14	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 12:14	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 12:14	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/19/18 12:14	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 12:14	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 12:14	1
1,4-Dioxane	ND *		50		ug/L			04/19/18 12:14	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 12:14	1
2-Butanone (MEK)	ND *		10		ug/L			04/19/18 12:14	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 12:14	1
2-Hexanone	ND		10		ug/L			04/19/18 12:14	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 12:14	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 12:14	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 12:14	1
Acetone	ND *		50		ug/L			04/19/18 12:14	1
Benzene	ND		1.0		ug/L			04/19/18 12:14	1
Bromobenzene	ND		1.0		ug/L			04/19/18 12:14	1
Bromoform	ND		1.0		ug/L			04/19/18 12:14	1
Bromomethane	ND		2.0		ug/L			04/19/18 12:14	1
Carbon disulfide	ND		10		ug/L			04/19/18 12:14	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 12:14	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 12:14	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 12:14	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 12:14	1
Chloroethane	ND		2.0		ug/L			04/19/18 12:14	1
Chloroform	ND		1.0		ug/L			04/19/18 12:14	1
Chloromethane	ND		2.0		ug/L			04/19/18 12:14	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 12:14	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 12:14	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 12:14	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 12:14	1
Ethyl ether	ND		1.0		ug/L			04/19/18 12:14	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 12:14	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 12:14	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 12:14	1
Isopropyl ether	ND		10		ug/L			04/19/18 12:14	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: DUP3-20180411**

**Lab Sample ID: 480-133988-18**

**Date Collected: 04/11/18 00:00**

**Matrix: Water**

**Date Received: 04/12/18 01:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/19/18 12:14	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 12:14	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 12:14	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 12:14	1
Naphthalene	ND		5.0		ug/L			04/19/18 12:14	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 12:14	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 12:14	1
o-Xylene	ND		1.0		ug/L			04/19/18 12:14	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 12:14	1
Styrene	ND		1.0		ug/L			04/19/18 12:14	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 12:14	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 12:14	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 12:14	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 12:14	1
Tetrahydrofuran	ND	*	10		ug/L			04/19/18 12:14	1
Toluene	ND		1.0		ug/L			04/19/18 12:14	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 12:14	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 12:14	1
Trichloroethene	ND		1.0		ug/L			04/19/18 12:14	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 12:14	1
<b>Vinyl chloride</b>	<b>1.5</b>		1.0		ug/L			04/19/18 12:14	1
Dibromomethane	ND		1.0		ug/L			04/19/18 12:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		04/19/18 12:14	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		04/19/18 12:14	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/19/18 12:14	1

**Client Sample ID: DUP4-20180411**

**Lab Sample ID: 480-133988-19**

**Date Collected: 04/11/18 00:00**

**Matrix: Water**

**Date Received: 04/12/18 01:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/18/18 16:21	1
1,1,1,1-Trichloroethane	ND		1.0		ug/L			04/18/18 16:21	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/18/18 16:21	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/18/18 16:21	1
1,1-Dichloroethane	ND		1.0		ug/L			04/18/18 16:21	1
1,1-Dichloroethene	ND		1.0		ug/L			04/18/18 16:21	1
1,1-Dichloropropene	ND		1.0		ug/L			04/18/18 16:21	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/18/18 16:21	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/18/18 16:21	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/18/18 16:21	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/18/18 16:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/18/18 16:21	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/18/18 16:21	1
1,2-Dichloroethane	ND		1.0		ug/L			04/18/18 16:21	1
1,2-Dichloropropane	ND		1.0		ug/L			04/18/18 16:21	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/18/18 16:21	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: DUP4-20180411**

**Lab Sample ID: 480-133988-19**

**Date Collected: 04/11/18 00:00**

**Matrix: Water**

**Date Received: 04/12/18 01:00**

**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			04/18/18 16:21	1
1,3-Dichloropropane	ND		1.0		ug/L			04/18/18 16:21	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/18/18 16:21	1
1,4-Dioxane	ND	*	50		ug/L			04/18/18 16:21	1
2,2-Dichloropropane	ND		1.0		ug/L			04/18/18 16:21	1
2-Butanone (MEK)	ND	*	10		ug/L			04/18/18 16:21	1
2-Chlorotoluene	ND		1.0		ug/L			04/18/18 16:21	1
2-Hexanone	ND		10		ug/L			04/18/18 16:21	1
4-Chlorotoluene	ND		1.0		ug/L			04/18/18 16:21	1
4-Isopropyltoluene	ND		1.0		ug/L			04/18/18 16:21	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/18/18 16:21	1
Acetone	ND	*	50		ug/L			04/18/18 16:21	1
Benzene	ND		1.0		ug/L			04/18/18 16:21	1
Bromobenzene	ND		1.0		ug/L			04/18/18 16:21	1
Bromoform	ND		1.0		ug/L			04/18/18 16:21	1
Bromomethane	ND		2.0		ug/L			04/18/18 16:21	1
Carbon disulfide	ND		10		ug/L			04/18/18 16:21	1
Carbon tetrachloride	ND		1.0		ug/L			04/18/18 16:21	1
Chlorobenzene	ND		1.0		ug/L			04/18/18 16:21	1
Chlorobromomethane	ND		1.0		ug/L			04/18/18 16:21	1
Chlorodibromomethane	ND		0.50		ug/L			04/18/18 16:21	1
Chloroethane	ND		2.0		ug/L			04/18/18 16:21	1
Chloroform	ND		1.0		ug/L			04/18/18 16:21	1
Chloromethane	ND		2.0		ug/L			04/18/18 16:21	1
<b>cis-1,2-Dichloroethene</b>	<b>3.5</b>		1.0		ug/L			04/18/18 16:21	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 16:21	1
Dichlorobromomethane	ND		0.50		ug/L			04/18/18 16:21	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/18/18 16:21	1
Ethyl ether	ND		1.0		ug/L			04/18/18 16:21	1
Ethylbenzene	ND		1.0		ug/L			04/18/18 16:21	1
Ethylene Dibromide	ND		1.0		ug/L			04/18/18 16:21	1
Hexachlorobutadiene	ND		0.40		ug/L			04/18/18 16:21	1
Isopropyl ether	ND		10		ug/L			04/18/18 16:21	1
Isopropylbenzene	ND		1.0		ug/L			04/18/18 16:21	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/18/18 16:21	1
Methylene Chloride	ND		1.0		ug/L			04/18/18 16:21	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/18/18 16:21	1
Naphthalene	ND		5.0		ug/L			04/18/18 16:21	1
n-Butylbenzene	ND		1.0		ug/L			04/18/18 16:21	1
N-Propylbenzene	ND		1.0		ug/L			04/18/18 16:21	1
o-Xylene	ND		1.0		ug/L			04/18/18 16:21	1
sec-Butylbenzene	ND		1.0		ug/L			04/18/18 16:21	1
Styrene	ND		1.0		ug/L			04/18/18 16:21	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/18/18 16:21	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/18/18 16:21	1
tert-Butylbenzene	ND		1.0		ug/L			04/18/18 16:21	1
Tetrachloroethene	ND		1.0		ug/L			04/18/18 16:21	1
Tetrahydrofuran	ND	*	10		ug/L			04/18/18 16:21	1
Toluene	ND		1.0		ug/L			04/18/18 16:21	1

TestAmerica Buffalo

# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: DUP4-20180411**

**Lab Sample ID: 480-133988-19**

Date Collected: 04/11/18 00:00

Matrix: Water

Date Received: 04/12/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 16:21	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 16:21	1
<b>Trichloroethene</b>	<b>4.3</b>		1.0		ug/L			04/18/18 16:21	1
Trichlorofluoromethane	ND		1.0		ug/L			04/18/18 16:21	1
Vinyl chloride	ND		1.0		ug/L			04/18/18 16:21	1
Dibromomethane	ND		1.0		ug/L			04/18/18 16:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130					04/18/18 16:21	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130					04/18/18 16:21	1
4-Bromofluorobenzene (Surr)	100		70 - 130					04/18/18 16:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dioxane</b>	<b>0.93</b>		0.20		ug/L		04/12/18 13:25	04/13/18 02:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	96		46 - 130				04/12/18 13:25	04/13/18 02:29	1

**Client Sample ID: Trip Blanks**

**Lab Sample ID: 480-133988-20**

Date Collected: 04/11/18 00:00

Matrix: Water

Date Received: 04/12/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/19/18 03:12	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 03:12	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 03:12	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 03:12	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 03:12	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 03:12	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 03:12	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 03:12	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 03:12	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 03:12	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 03:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 03:12	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 03:12	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 03:12	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 03:12	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 03:12	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/19/18 03:12	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 03:12	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 03:12	1
1,4-Dioxane	ND *		50		ug/L			04/19/18 03:12	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 03:12	1
2-Butanone (MEK)	ND *		10		ug/L			04/19/18 03:12	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 03:12	1
2-Hexanone	ND		10		ug/L			04/19/18 03:12	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 03:12	1

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# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: Trip Blanks**

**Lab Sample ID: 480-133988-20**

**Date Collected: 04/11/18 00:00**

**Matrix: Water**

**Date Received: 04/12/18 01:00**

**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			04/19/18 03:12	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 03:12	1
Acetone	ND	*	50		ug/L			04/19/18 03:12	1
Benzene	ND		1.0		ug/L			04/19/18 03:12	1
Bromobenzene	ND		1.0		ug/L			04/19/18 03:12	1
Bromoform	ND		1.0		ug/L			04/19/18 03:12	1
Bromomethane	ND		2.0		ug/L			04/19/18 03:12	1
Carbon disulfide	ND		10		ug/L			04/19/18 03:12	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 03:12	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 03:12	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 03:12	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 03:12	1
Chloroethane	ND		2.0		ug/L			04/19/18 03:12	1
Chloroform	ND		1.0		ug/L			04/19/18 03:12	1
Chloromethane	ND		2.0		ug/L			04/19/18 03:12	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 03:12	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 03:12	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 03:12	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 03:12	1
Ethyl ether	ND		1.0		ug/L			04/19/18 03:12	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 03:12	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 03:12	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 03:12	1
Isopropyl ether	ND		10		ug/L			04/19/18 03:12	1
Isopropylbenzene	ND		1.0		ug/L			04/19/18 03:12	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 03:12	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 03:12	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 03:12	1
Naphthalene	ND		5.0		ug/L			04/19/18 03:12	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 03:12	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 03:12	1
o-Xylene	ND		1.0		ug/L			04/19/18 03:12	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 03:12	1
Styrene	ND		1.0		ug/L			04/19/18 03:12	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 03:12	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 03:12	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 03:12	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 03:12	1
Tetrahydrofuran	ND	*	10		ug/L			04/19/18 03:12	1
Toluene	ND		1.0		ug/L			04/19/18 03:12	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 03:12	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 03:12	1
Trichloroethene	ND		1.0		ug/L			04/19/18 03:12	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 03:12	1
Vinyl chloride	ND		1.0		ug/L			04/19/18 03:12	1
Dibromomethane	ND		1.0		ug/L			04/19/18 03:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		04/19/18 03:12	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/19/18 03:12	1

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# Client Sample Results

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: Trip Blanks**

**Date Collected: 04/11/18 00:00**

**Date Received: 04/12/18 01:00**

**Lab Sample ID: 480-133988-20**

**Matrix: Water**

**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)	98		70 - 130		04/19/18 03:12	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: 480-133988-1

## 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)	DCA (70-130)	BFB (70-130)
480-133988-1	DEP-21-20180411	100	114	104
480-133988-2	MW-264M-20180411	99	112	100
480-133988-3	MW-265S-20180411	98	107	103
480-133988-4	MW-265M-20180411	98	116	101
480-133988-5	MW-265D-20180411	98	108	104
480-133988-6	MW-266Ma-20180411	98	113	102
480-133988-7	MW-266Mb-20180411	98	113	103
480-133988-8	MW-269Ma-20180411	97	112	104
480-133988-9	MW-561-20180411	100	113	104
480-133988-10	MW-563-20180411	95	113	102
480-133988-11	REW-1-20180411	98	112	101
480-133988-12	REW-4-20180411	100	111	103
480-133988-13	REW-5-20180411	98	110	102
480-133988-14	REW-8-20180411	96	111	103
480-133988-15	REW-9-20180411	95	109	101
480-133988-16	REW-10-20180411	94	113	99
480-133988-17	REW-12-20180411	95	114	96
480-133988-18	DUP3-20180411	91	112	97
480-133988-19	DUP4-20180411	94	107	100
480-133988-20	Trip Blanks	97	110	98
LCS 480-409348/5	Lab Control Sample	99	114	104
LCS 480-409387/5	Lab Control Sample	102	109	107
LCS 480-409598/5	Lab Control Sample	97	121	103
LCS 480-409631/5	Lab Control Sample	96	109	100
LCSD 480-409348/6	Lab Control Sample Dup	98	110	100
LCSD 480-409387/6	Lab Control Sample Dup	97	111	100
LCSD 480-409598/6	Lab Control Sample Dup	97	111	101
LCSD 480-409631/6	Lab Control Sample Dup	96	111	100
MB 480-409348/8	Method Blank	99	111	103
MB 480-409387/8	Method Blank	95	114	98
MB 480-409598/8	Method Blank	96	108	103
MB 480-409631/8	Method Blank	95	110	97

### Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DXE (46-130)
480-133988-4	MW-265M-20180411	100
480-133988-6	MW-266Ma-20180411	90
480-133988-8	MW-269Ma-20180411	71
480-133988-19	DUP4-20180411	96
LCS 200-128409/2-A	Lab Control Sample	100

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# Surrogate Summary

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

TestAmerica Job ID: 480-133988-1

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (46-130)																		
MB 200-128409/1-A	Method Blank	94																		

### Surrogate Legend

DXE = 1,4-Dioxane-d8 (Surr)

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

# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

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

**Lab Sample ID: MB 480-409348/8**

**Matrix: Water**

**Analysis Batch: 409348**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/17/18 22:16	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/17/18 22:16	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/17/18 22:16	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/17/18 22:16	1
1,1-Dichloroethane	ND		1.0		ug/L			04/17/18 22:16	1
1,1-Dichloroethene	ND		1.0		ug/L			04/17/18 22:16	1
1,1-Dichloropropene	ND		1.0		ug/L			04/17/18 22:16	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/17/18 22:16	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/17/18 22:16	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/17/18 22:16	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/17/18 22:16	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/17/18 22:16	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/17/18 22:16	1
1,2-Dichloroethane	ND		1.0		ug/L			04/17/18 22:16	1
1,2-Dichloropropane	ND		1.0		ug/L			04/17/18 22:16	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/17/18 22:16	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/17/18 22:16	1
1,3-Dichloropropane	ND		1.0		ug/L			04/17/18 22:16	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/17/18 22:16	1
1,4-Dioxane	ND		50		ug/L			04/17/18 22:16	1
2,2-Dichloropropane	ND		1.0		ug/L			04/17/18 22:16	1
2-Butanone (MEK)	ND		10		ug/L			04/17/18 22:16	1
2-Chlorotoluene	ND		1.0		ug/L			04/17/18 22:16	1
2-Hexanone	ND		10		ug/L			04/17/18 22:16	1
4-Chlorotoluene	ND		1.0		ug/L			04/17/18 22:16	1
4-Isopropyltoluene	ND		1.0		ug/L			04/17/18 22:16	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/17/18 22:16	1
Acetone	ND		50		ug/L			04/17/18 22:16	1
Benzene	ND		1.0		ug/L			04/17/18 22:16	1
Bromobenzene	ND		1.0		ug/L			04/17/18 22:16	1
Bromoform	ND		1.0		ug/L			04/17/18 22:16	1
Bromomethane	ND		2.0		ug/L			04/17/18 22:16	1
Carbon disulfide	ND		10		ug/L			04/17/18 22:16	1
Carbon tetrachloride	ND		1.0		ug/L			04/17/18 22:16	1
Chlorobenzene	ND		1.0		ug/L			04/17/18 22:16	1
Chlorobromomethane	ND		1.0		ug/L			04/17/18 22:16	1
Chlorodibromomethane	ND		0.50		ug/L			04/17/18 22:16	1
Chloroethane	ND		2.0		ug/L			04/17/18 22:16	1
Chloroform	ND		1.0		ug/L			04/17/18 22:16	1
Chloromethane	ND		2.0		ug/L			04/17/18 22:16	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/17/18 22:16	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/17/18 22:16	1
Dichlorobromomethane	ND		0.50		ug/L			04/17/18 22:16	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/17/18 22:16	1
Ethyl ether	ND		1.0		ug/L			04/17/18 22:16	1
Ethylbenzene	ND		1.0		ug/L			04/17/18 22:16	1
Ethylene Dibromide	ND		1.0		ug/L			04/17/18 22:16	1
Hexachlorobutadiene	ND		0.40		ug/L			04/17/18 22:16	1

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# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

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

**Lab Sample ID: MB 480-409348/8**

**Matrix: Water**

**Analysis Batch: 409348**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Isopropyl ether	ND		10		ug/L			04/17/18 22:16	1
Isopropylbenzene	ND		1.0		ug/L			04/17/18 22:16	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/17/18 22:16	1
Methylene Chloride	ND		1.0		ug/L			04/17/18 22:16	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/17/18 22:16	1
Naphthalene	ND		5.0		ug/L			04/17/18 22:16	1
n-Butylbenzene	ND		1.0		ug/L			04/17/18 22:16	1
N-Propylbenzene	ND		1.0		ug/L			04/17/18 22:16	1
o-Xylene	ND		1.0		ug/L			04/17/18 22:16	1
sec-Butylbenzene	ND		1.0		ug/L			04/17/18 22:16	1
Styrene	ND		1.0		ug/L			04/17/18 22:16	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/17/18 22:16	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/17/18 22:16	1
tert-Butylbenzene	ND		1.0		ug/L			04/17/18 22:16	1
Tetrachloroethene	ND		1.0		ug/L			04/17/18 22:16	1
Tetrahydrofuran	ND		10		ug/L			04/17/18 22:16	1
Toluene	ND		1.0		ug/L			04/17/18 22:16	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/17/18 22:16	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/17/18 22:16	1
Trichloroethene	ND		1.0		ug/L			04/17/18 22:16	1
Trichlorofluoromethane	ND		1.0		ug/L			04/17/18 22:16	1
Vinyl chloride	ND		1.0		ug/L			04/17/18 22:16	1
Dibromomethane	ND		1.0		ug/L			04/17/18 22:16	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	99		70 - 130		04/17/18 22:16	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/17/18 22:16	1
4-Bromofluorobenzene (Surr)	103		70 - 130		04/17/18 22:16	1

**Lab Sample ID: LCS 480-409348/5**

**Matrix: Water**

**Analysis Batch: 409348**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	25.0	27.0		ug/L		108	70 - 130
1,1,1-Trichloroethane	25.0	27.0		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	25.0	28.2		ug/L		113	70 - 130
1,1,2-Trichloroethane	25.0	26.1		ug/L		104	70 - 130
1,1-Dichloroethane	25.0	26.7		ug/L		107	70 - 130
1,1-Dichloroethane	25.0	27.5		ug/L		110	70 - 130
1,1-Dichloropropene	25.0	26.3		ug/L		105	70 - 130
1,2,3-Trichlorobenzene	25.0	25.4		ug/L		102	70 - 130
1,2,3-Trichloropropane	25.0	27.7		ug/L		111	70 - 130
1,2,4-Trichlorobenzene	25.0	25.5		ug/L		102	70 - 130
1,2,4-Trimethylbenzene	25.0	25.4		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	28.0		ug/L		112	70 - 130
1,2-Dichlorobenzene	25.0	26.1		ug/L		105	70 - 130
1,2-Dichloroethane	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: 480-133988-1

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

**Lab Sample ID: LCS 480-409348/5**

**Matrix: Water**

**Analysis Batch: 409348**

**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	26.5		ug/L		106	70 - 130
1,3,5-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130
1,3-Dichlorobenzene	25.0	26.1		ug/L		105	70 - 130
1,3-Dichloropropane	25.0	26.2		ug/L		105	70 - 130
1,4-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,4-Dioxane	500	519		ug/L		104	70 - 130
2,2-Dichloropropane	25.0	25.3		ug/L		101	70 - 130
2-Butanone (MEK)	125	267	*	ug/L		213	70 - 130
2-Chlorotoluene	25.0	24.7		ug/L		99	70 - 130
2-Hexanone	125	153		ug/L		122	70 - 130
4-Chlorotoluene	25.0	24.6		ug/L		98	70 - 130
4-Isopropyltoluene	25.0	25.3		ug/L		101	70 - 130
4-Methyl-2-pentanone (MIBK)	125	146		ug/L		117	70 - 130
Acetone	125	174	*	ug/L		139	70 - 130
Benzene	25.0	25.9		ug/L		104	70 - 130
Bromobenzene	25.0	26.1		ug/L		104	70 - 130
Bromoform	25.0	26.3		ug/L		105	70 - 130
Bromomethane	25.0	30.1		ug/L		121	70 - 130
Carbon disulfide	25.0	25.8		ug/L		103	70 - 130
Carbon tetrachloride	25.0	26.8		ug/L		107	70 - 130
Chlorobenzene	25.0	25.1		ug/L		101	70 - 130
Chlorobromomethane	25.0	29.1		ug/L		117	70 - 130
Chlorodibromomethane	25.0	27.0		ug/L		108	70 - 130
Chloroethane	25.0	29.0		ug/L		116	70 - 130
Chloroform	25.0	26.2		ug/L		105	70 - 130
Chloromethane	25.0	23.5		ug/L		94	70 - 130
cis-1,2-Dichloroethene	25.0	27.3		ug/L		109	70 - 130
cis-1,3-Dichloropropene	25.0	27.3		ug/L		109	70 - 130
Dichlorobromomethane	25.0	26.7		ug/L		107	70 - 130
Dichlorodifluoromethane	25.0	26.7		ug/L		107	70 - 130
Ethyl ether	25.0	28.2		ug/L		113	70 - 130
Ethylbenzene	25.0	25.5		ug/L		102	70 - 130
Ethylene Dibromide	25.0	28.4		ug/L		114	70 - 130
Hexachlorobutadiene	25.0	26.1		ug/L		105	70 - 130
Isopropyl ether	25.0	23.4		ug/L		94	70 - 130
Isopropylbenzene	25.0	24.3		ug/L		97	70 - 130
Methyl tert-butyl ether	25.0	28.2		ug/L		113	70 - 130
Methylene Chloride	25.0	26.1		ug/L		104	70 - 130
m-Xylene & p-Xylene	25.0	25.2		ug/L		101	70 - 130
Naphthalene	25.0	29.1		ug/L		116	70 - 130
n-Butylbenzene	25.0	25.3		ug/L		101	70 - 130
N-Propylbenzene	25.0	24.2		ug/L		97	70 - 130
o-Xylene	25.0	25.2		ug/L		101	70 - 130
sec-Butylbenzene	25.0	24.6		ug/L		99	70 - 130
Styrene	25.0	25.9		ug/L		104	70 - 130
Tert-amyl methyl ether	25.0	27.6		ug/L		110	70 - 130
Tert-butyl ethyl ether	25.0	25.1		ug/L		101	70 - 130
tert-Butylbenzene	25.0	26.4		ug/L		106	70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

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

**Lab Sample ID: LCS 480-409348/5**

**Matrix: Water**

**Analysis Batch: 409348**

**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	29.4		ug/L		118	70 - 130
Tetrahydrofuran	50.0	72.9	*	ug/L		146	70 - 130
Toluene	25.0	25.0		ug/L		100	70 - 130
trans-1,2-Dichloroethene	25.0	25.5		ug/L		102	70 - 130
trans-1,3-Dichloropropene	25.0	26.7		ug/L		107	70 - 130
Trichloroethene	25.0	27.1		ug/L		109	70 - 130
Trichlorofluoromethane	25.0	29.3		ug/L		117	70 - 130
Vinyl chloride	25.0	26.0		ug/L		104	70 - 130
Dibromomethane	25.0	28.8		ug/L		115	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	114		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130

**Lab Sample ID: LCSD 480-409348/6**

**Matrix: Water**

**Analysis Batch: 409348**

**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	28.1		ug/L		113	70 - 130	4	20
1,1,1-Trichloroethane	25.0	27.3		ug/L		109	70 - 130	1	20
1,1,1,2,2-Tetrachloroethane	25.0	29.0		ug/L		116	70 - 130	3	20
1,1,2-Trichloroethane	25.0	27.3		ug/L		109	70 - 130	4	20
1,1-Dichloroethane	25.0	26.9		ug/L		108	70 - 130	1	20
1,1-Dichloroethene	25.0	26.9		ug/L		108	70 - 130	2	20
1,1-Dichloropropene	25.0	26.4		ug/L		106	70 - 130	0	20
1,2,3-Trichlorobenzene	25.0	26.7		ug/L		107	70 - 130	5	20
1,2,3-Trichloropropane	25.0	32.1		ug/L		128	70 - 130	15	20
1,2,4-Trichlorobenzene	25.0	26.7		ug/L		107	70 - 130	5	20
1,2,4-Trimethylbenzene	25.0	26.0		ug/L		104	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	30.8		ug/L		123	70 - 130	10	20
1,2-Dichlorobenzene	25.0	27.2		ug/L		109	70 - 130	4	20
1,2-Dichloroethane	25.0	28.8		ug/L		115	70 - 130	3	20
1,2-Dichloropropane	25.0	27.1		ug/L		108	70 - 130	2	20
1,3,5-Trimethylbenzene	25.0	25.5		ug/L		102	70 - 130	4	20
1,3-Dichlorobenzene	25.0	27.1		ug/L		108	70 - 130	3	20
1,3-Dichloropropane	25.0	26.7		ug/L		107	70 - 130	2	20
1,4-Dichlorobenzene	25.0	26.7		ug/L		107	70 - 130	4	20
1,4-Dioxane	500	676	*	ug/L		135	70 - 130	26	20
2,2-Dichloropropane	25.0	26.1		ug/L		104	70 - 130	3	20
2-Butanone (MEK)	125	272	*	ug/L		217	70 - 130	2	20
2-Chlorotoluene	25.0	25.0		ug/L		100	70 - 130	1	20
2-Hexanone	125	153		ug/L		122	70 - 130	0	20
4-Chlorotoluene	25.0	25.4		ug/L		102	70 - 130	3	20
4-Isopropyltoluene	25.0	27.1		ug/L		108	70 - 130	7	20
4-Methyl-2-pentanone (MIBK)	125	148		ug/L		118	70 - 130	1	20
Acetone	125	177	*	ug/L		142	70 - 130	2	20

TestAmerica Buffalo



# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

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

Lab Sample ID: LCSD 480-409348/6

Matrix: Water

Analysis Batch: 409348

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	26.4		ug/L		106	70 - 130	2	20	
Bromobenzene	25.0	26.2		ug/L		105	70 - 130	0	20	
Bromoform	25.0	27.8		ug/L		111	70 - 130	5	20	
Bromomethane	25.0	30.9		ug/L		123	70 - 130	2	20	
Carbon disulfide	25.0	26.6		ug/L		106	70 - 130	3	20	
Carbon tetrachloride	25.0	28.4		ug/L		114	70 - 130	6	20	
Chlorobenzene	25.0	25.5		ug/L		102	70 - 130	2	20	
Chlorobromomethane	25.0	29.1		ug/L		116	70 - 130	0	20	
Chlorodibromomethane	25.0	28.5		ug/L		114	70 - 130	5	20	
Chloroethane	25.0	29.8		ug/L		119	70 - 130	3	20	
Chloroform	25.0	26.2		ug/L		105	70 - 130	0	20	
Chloromethane	25.0	23.9		ug/L		95	70 - 130	1	20	
cis-1,2-Dichloroethene	25.0	27.1		ug/L		108	70 - 130	1	20	
cis-1,3-Dichloropropene	25.0	27.5		ug/L		110	70 - 130	1	20	
Dichlorobromomethane	25.0	27.7		ug/L		111	70 - 130	4	20	
Dichlorodifluoromethane	25.0	27.2		ug/L		109	70 - 130	2	20	
Ethyl ether	25.0	27.1		ug/L		109	70 - 130	4	20	
Ethylbenzene	25.0	25.8		ug/L		103	70 - 130	1	20	
Ethylene Dibromide	25.0	29.1		ug/L		116	70 - 130	2	20	
Hexachlorobutadiene	25.0	27.6		ug/L		110	70 - 130	6	20	
Isopropyl ether	25.0	23.5		ug/L		94	70 - 130	0	20	
Isopropylbenzene	25.0	25.9		ug/L		103	70 - 130	6	20	
Methyl tert-butyl ether	25.0	28.2		ug/L		113	70 - 130	0	20	
Methylene Chloride	25.0	26.3		ug/L		105	70 - 130	1	20	
m-Xylene & p-Xylene	25.0	26.0		ug/L		104	70 - 130	3	20	
Naphthalene	25.0	29.5		ug/L		118	70 - 130	1	20	
n-Butylbenzene	25.0	26.6		ug/L		107	70 - 130	5	20	
N-Propylbenzene	25.0	25.3		ug/L		101	70 - 130	5	20	
o-Xylene	25.0	25.7		ug/L		103	70 - 130	2	20	
sec-Butylbenzene	25.0	26.1		ug/L		105	70 - 130	6	20	
Styrene	25.0	26.3		ug/L		105	70 - 130	2	20	
Tert-amyl methyl ether	25.0	27.9		ug/L		112	70 - 130	1	20	
Tert-butyl ethyl ether	25.0	25.6		ug/L		102	70 - 130	2	20	
tert-Butylbenzene	25.0	27.3		ug/L		109	70 - 130	3	20	
Tetrachloroethene	25.0	30.9		ug/L		123	70 - 130	5	20	
Tetrahydrofuran	50.0	75.7 *		ug/L		151	70 - 130	4	20	
Toluene	25.0	25.3		ug/L		101	70 - 130	1	20	
trans-1,2-Dichloroethene	25.0	25.9		ug/L		104	70 - 130	2	20	
trans-1,3-Dichloropropene	25.0	26.5		ug/L		106	70 - 130	1	20	
Trichloroethene	25.0	27.5		ug/L		110	70 - 130	1	20	
Trichlorofluoromethane	25.0	30.5		ug/L		122	70 - 130	4	20	
Vinyl chloride	25.0	25.2		ug/L		101	70 - 130	3	20	
Dibromomethane	25.0	29.7		ug/L		119	70 - 130	3	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	110		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

**Lab Sample ID: MB 480-409387/8**

**Matrix: Water**

**Analysis Batch: 409387**

**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			04/18/18 11:00	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/18/18 11:00	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/18/18 11:00	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/18/18 11:00	1
1,1-Dichloroethane	ND		1.0		ug/L			04/18/18 11:00	1
1,1-Dichloroethene	ND		1.0		ug/L			04/18/18 11:00	1
1,1-Dichloropropene	ND		1.0		ug/L			04/18/18 11:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/18/18 11:00	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/18/18 11:00	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/18/18 11:00	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/18/18 11:00	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/18/18 11:00	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/18/18 11:00	1
1,2-Dichloroethane	ND		1.0		ug/L			04/18/18 11:00	1
1,2-Dichloropropane	ND		1.0		ug/L			04/18/18 11:00	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/18/18 11:00	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/18/18 11:00	1
1,3-Dichloropropane	ND		1.0		ug/L			04/18/18 11:00	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/18/18 11:00	1
1,4-Dioxane	ND		50		ug/L			04/18/18 11:00	1
2,2-Dichloropropane	ND		1.0		ug/L			04/18/18 11:00	1
2-Butanone (MEK)	ND		10		ug/L			04/18/18 11:00	1
2-Chlorotoluene	ND		1.0		ug/L			04/18/18 11:00	1
2-Hexanone	ND		10		ug/L			04/18/18 11:00	1
4-Chlorotoluene	ND		1.0		ug/L			04/18/18 11:00	1
4-Isopropyltoluene	ND		1.0		ug/L			04/18/18 11:00	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/18/18 11:00	1
Acetone	ND		50		ug/L			04/18/18 11:00	1
Benzene	ND		1.0		ug/L			04/18/18 11:00	1
Bromobenzene	ND		1.0		ug/L			04/18/18 11:00	1
Bromoform	ND		1.0		ug/L			04/18/18 11:00	1
Bromomethane	ND		2.0		ug/L			04/18/18 11:00	1
Carbon disulfide	ND		10		ug/L			04/18/18 11:00	1
Carbon tetrachloride	ND		1.0		ug/L			04/18/18 11:00	1
Chlorobenzene	ND		1.0		ug/L			04/18/18 11:00	1
Chlorobromomethane	ND		1.0		ug/L			04/18/18 11:00	1
Chlorodibromomethane	ND		0.50		ug/L			04/18/18 11:00	1
Chloroethane	ND		2.0		ug/L			04/18/18 11:00	1
Chloroform	ND		1.0		ug/L			04/18/18 11:00	1
Chloromethane	ND		2.0		ug/L			04/18/18 11:00	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 11:00	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 11:00	1
Dichlorobromomethane	ND		0.50		ug/L			04/18/18 11:00	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/18/18 11:00	1
Ethyl ether	ND		1.0		ug/L			04/18/18 11:00	1
Ethylbenzene	ND		1.0		ug/L			04/18/18 11:00	1
Ethylene Dibromide	ND		1.0		ug/L			04/18/18 11:00	1
Hexachlorobutadiene	ND		0.40		ug/L			04/18/18 11:00	1
Isopropyl ether	ND		10		ug/L			04/18/18 11:00	1
Isopropylbenzene	ND		1.0		ug/L			04/18/18 11:00	1

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

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

**Lab Sample ID: MB 480-409387/8**

**Matrix: Water**

**Analysis Batch: 409387**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			04/18/18 11:00	1
Methylene Chloride	ND		1.0		ug/L			04/18/18 11:00	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/18/18 11:00	1
Naphthalene	ND		5.0		ug/L			04/18/18 11:00	1
n-Butylbenzene	ND		1.0		ug/L			04/18/18 11:00	1
N-Propylbenzene	ND		1.0		ug/L			04/18/18 11:00	1
o-Xylene	ND		1.0		ug/L			04/18/18 11:00	1
sec-Butylbenzene	ND		1.0		ug/L			04/18/18 11:00	1
Styrene	ND		1.0		ug/L			04/18/18 11:00	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/18/18 11:00	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/18/18 11:00	1
tert-Butylbenzene	ND		1.0		ug/L			04/18/18 11:00	1
Tetrachloroethene	ND		1.0		ug/L			04/18/18 11:00	1
Tetrahydrofuran	ND		10		ug/L			04/18/18 11:00	1
Toluene	ND		1.0		ug/L			04/18/18 11:00	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 11:00	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 11:00	1
Trichloroethene	ND		1.0		ug/L			04/18/18 11:00	1
Trichlorofluoromethane	ND		1.0		ug/L			04/18/18 11:00	1
Vinyl chloride	ND		1.0		ug/L			04/18/18 11:00	1
Dibromomethane	ND		1.0		ug/L			04/18/18 11:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/18/18 11:00	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 130		04/18/18 11:00	1
4-Bromofluorobenzene (Surr)	98		70 - 130		04/18/18 11:00	1

**Lab Sample ID: LCS 480-409387/5**

**Matrix: Water**

**Analysis Batch: 409387**

**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	25.7		ug/L		103	70 - 130
1,1,1-Trichloroethane	25.0	23.9		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.8		ug/L		99	70 - 130
1,1,2-Trichloroethane	25.0	24.4		ug/L		97	70 - 130
1,1-Dichloroethane	25.0	23.8		ug/L		95	70 - 130
1,1-Dichloroethene	25.0	23.6		ug/L		95	70 - 130
1,1-Dichloropropene	25.0	23.0		ug/L		92	70 - 130
1,2,3-Trichlorobenzene	25.0	24.4		ug/L		98	70 - 130
1,2,3-Trichloropropane	25.0	28.3		ug/L		113	70 - 130
1,2,4-Trichlorobenzene	25.0	23.0		ug/L		92	70 - 130
1,2,4-Trimethylbenzene	25.0	23.2		ug/L		93	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		98	70 - 130
1,2-Dichloroethane	25.0	24.8		ug/L		99	70 - 130
1,2-Dichloropropane	25.0	23.8		ug/L		95	70 - 130
1,3,5-Trimethylbenzene	25.0	22.7		ug/L		91	70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

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

**Lab Sample ID: LCS 480-409387/5**

**Matrix: Water**

**Analysis Batch: 409387**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130
1,3-Dichloropropane	25.0	24.4		ug/L		98	70 - 130
1,4-Dichlorobenzene	25.0	23.9		ug/L		96	70 - 130
1,4-Dioxane	500	510		ug/L		102	70 - 130
2,2-Dichloropropane	25.0	23.7		ug/L		95	70 - 130
2-Butanone (MEK)	125	246	*	ug/L		197	70 - 130
2-Chlorotoluene	25.0	22.3		ug/L		89	70 - 130
2-Hexanone	125	134		ug/L		107	70 - 130
4-Chlorotoluene	25.0	22.7		ug/L		91	70 - 130
4-Isopropyltoluene	25.0	23.5		ug/L		94	70 - 130
4-Methyl-2-pentanone (MIBK)	125	132		ug/L		106	70 - 130
Acetone	125	166	*	ug/L		133	70 - 130
Benzene	25.0	23.5		ug/L		94	70 - 130
Bromobenzene	25.0	23.2		ug/L		93	70 - 130
Bromoform	25.0	24.7		ug/L		99	70 - 130
Bromomethane	25.0	25.9		ug/L		104	70 - 130
Carbon disulfide	25.0	22.0		ug/L		88	70 - 130
Carbon tetrachloride	25.0	24.3		ug/L		97	70 - 130
Chlorobenzene	25.0	23.7		ug/L		95	70 - 130
Chlorobromomethane	25.0	26.0		ug/L		104	70 - 130
Chlorodibromomethane	25.0	24.9		ug/L		100	70 - 130
Chloroethane	25.0	24.7		ug/L		99	70 - 130
Chloroform	25.0	23.6		ug/L		94	70 - 130
Chloromethane	25.0	20.5		ug/L		82	70 - 130
cis-1,2-Dichloroethene	25.0	25.1		ug/L		100	70 - 130
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	70 - 130
Dichlorobromomethane	25.0	24.0		ug/L		96	70 - 130
Dichlorodifluoromethane	25.0	22.7		ug/L		91	70 - 130
Ethyl ether	25.0	24.6		ug/L		98	70 - 130
Ethylbenzene	25.0	24.4		ug/L		97	70 - 130
Ethylene Dibromide	25.0	26.2		ug/L		105	70 - 130
Hexachlorobutadiene	25.0	24.5		ug/L		98	70 - 130
Isopropyl ether	25.0	22.8		ug/L		91	70 - 130
Isopropylbenzene	25.0	22.4		ug/L		90	70 - 130
Methyl tert-butyl ether	25.0	24.3		ug/L		97	70 - 130
Methylene Chloride	25.0	22.7		ug/L		91	70 - 130
m-Xylene & p-Xylene	25.0	23.9		ug/L		96	70 - 130
Naphthalene	25.0	24.6		ug/L		98	70 - 130
n-Butylbenzene	25.0	23.7		ug/L		95	70 - 130
N-Propylbenzene	25.0	22.4		ug/L		89	70 - 130
o-Xylene	25.0	24.1		ug/L		96	70 - 130
sec-Butylbenzene	25.0	22.8		ug/L		91	70 - 130
Styrene	25.0	24.2		ug/L		97	70 - 130
Tert-amyl methyl ether	25.0	26.6		ug/L		106	70 - 130
Tert-butyl ethyl ether	25.0	24.5		ug/L		98	70 - 130
tert-Butylbenzene	25.0	24.6		ug/L		98	70 - 130
Tetrachloroethene	25.0	27.5		ug/L		110	70 - 130
Tetrahydrofuran	50.0	67.2	*	ug/L		134	70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

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

**Lab Sample ID: LCS 480-409387/5**

**Matrix: Water**

**Analysis Batch: 409387**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	25.0	23.8		ug/L		95	70 - 130
trans-1,2-Dichloroethene	25.0	23.7		ug/L		95	70 - 130
trans-1,3-Dichloropropene	25.0	24.2		ug/L		97	70 - 130
Trichloroethene	25.0	24.0		ug/L		96	70 - 130
Trichlorofluoromethane	25.0	25.7		ug/L		103	70 - 130
Vinyl chloride	25.0	20.8		ug/L		83	70 - 130
Dibromomethane	25.0	25.6		ug/L		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	107		70 - 130

**Lab Sample ID: LCSD 480-409387/6**

**Matrix: Water**

**Analysis Batch: 409387**

**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	26.3		ug/L		105	70 - 130	2	20
1,1,1-Trichloroethane	25.0	26.0		ug/L		104	70 - 130	9	20
1,1,1,2,2-Tetrachloroethane	25.0	25.2		ug/L		101	70 - 130	2	20
1,1,2-Trichloroethane	25.0	24.7		ug/L		99	70 - 130	1	20
1,1-Dichloroethane	25.0	25.3		ug/L		101	70 - 130	6	20
1,1-Dichloroethene	25.0	25.1		ug/L		100	70 - 130	6	20
1,1-Dichloropropene	25.0	25.6		ug/L		102	70 - 130	11	20
1,2,3-Trichlorobenzene	25.0	24.6		ug/L		99	70 - 130	1	20
1,2,3-Trichloropropane	25.0	27.9		ug/L		112	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	23.9		ug/L		96	70 - 130	4	20
1,2,4-Trimethylbenzene	25.0	24.2		ug/L		97	70 - 130	4	20
1,2-Dibromo-3-Chloropropane	25.0	26.3		ug/L		105	70 - 130	7	20
1,2-Dichlorobenzene	25.0	25.1		ug/L		100	70 - 130	3	20
1,2-Dichloroethane	25.0	26.5		ug/L		106	70 - 130	6	20
1,2-Dichloropropane	25.0	24.9		ug/L		100	70 - 130	5	20
1,3,5-Trimethylbenzene	25.0	24.0		ug/L		96	70 - 130	6	20
1,3-Dichlorobenzene	25.0	25.1		ug/L		100	70 - 130	2	20
1,3-Dichloropropane	25.0	24.5		ug/L		98	70 - 130	0	20
1,4-Dichlorobenzene	25.0	24.9		ug/L		100	70 - 130	4	20
1,4-Dioxane	500	668	*	ug/L		134	70 - 130	27	20
2,2-Dichloropropane	25.0	24.9		ug/L		100	70 - 130	5	20
2-Butanone (MEK)	125	253	*	ug/L		203	70 - 130	3	20
2-Chlorotoluene	25.0	24.3		ug/L		97	70 - 130	8	20
2-Hexanone	125	135		ug/L		108	70 - 130	1	20
4-Chlorotoluene	25.0	24.0		ug/L		96	70 - 130	5	20
4-Isopropyltoluene	25.0	25.1		ug/L		101	70 - 130	7	20
4-Methyl-2-pentanone (MIBK)	125	127		ug/L		101	70 - 130	4	20
Acetone	125	172	*	ug/L		138	70 - 130	4	20
Benzene	25.0	25.1		ug/L		101	70 - 130	7	20
Bromobenzene	25.0	24.4		ug/L		98	70 - 130	5	20

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

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

Lab Sample ID: LCSD 480-409387/6

Matrix: Water

Analysis Batch: 409387

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Bromoform	25.0	24.2		ug/L		97	70 - 130	2	20
Bromomethane	25.0	28.6		ug/L		114	70 - 130	10	20
Carbon disulfide	25.0	23.9		ug/L		96	70 - 130	8	20
Carbon tetrachloride	25.0	27.1		ug/L		108	70 - 130	11	20
Chlorobenzene	25.0	23.9		ug/L		96	70 - 130	1	20
Chlorobromomethane	25.0	27.9		ug/L		112	70 - 130	7	20
Chlorodibromomethane	25.0	25.7		ug/L		103	70 - 130	3	20
Chloroethane	25.0	27.1		ug/L		109	70 - 130	9	20
Chloroform	25.0	25.0		ug/L		100	70 - 130	6	20
Chloromethane	25.0	21.5		ug/L		86	70 - 130	5	20
cis-1,2-Dichloroethene	25.0	26.3		ug/L		105	70 - 130	5	20
cis-1,3-Dichloropropene	25.0	25.6		ug/L		102	70 - 130	4	20
Dichlorobromomethane	25.0	25.8		ug/L		103	70 - 130	7	20
Dichlorodifluoromethane	25.0	24.0		ug/L		96	70 - 130	6	20
Ethyl ether	25.0	25.6		ug/L		103	70 - 130	4	20
Ethylbenzene	25.0	24.3		ug/L		97	70 - 130	0	20
Ethylene Dibromide	25.0	25.3		ug/L		101	70 - 130	3	20
Hexachlorobutadiene	25.0	26.1		ug/L		105	70 - 130	7	20
Isopropyl ether	25.0	24.4		ug/L		97	70 - 130	7	20
Isopropylbenzene	25.0	23.9		ug/L		96	70 - 130	6	20
Methyl tert-butyl ether	25.0	26.0		ug/L		104	70 - 130	7	20
Methylene Chloride	25.0	24.0		ug/L		96	70 - 130	6	20
m-Xylene & p-Xylene	25.0	24.4		ug/L		97	70 - 130	2	20
Naphthalene	25.0	25.8		ug/L		103	70 - 130	5	20
n-Butylbenzene	25.0	24.9		ug/L		99	70 - 130	5	20
N-Propylbenzene	25.0	23.7		ug/L		95	70 - 130	6	20
o-Xylene	25.0	23.9		ug/L		96	70 - 130	0	20
sec-Butylbenzene	25.0	24.4		ug/L		97	70 - 130	7	20
Styrene	25.0	24.8		ug/L		99	70 - 130	2	20
Tert-amyl methyl ether	25.0	27.6		ug/L		111	70 - 130	4	20
Tert-butyl ethyl ether	25.0	25.9		ug/L		104	70 - 130	6	20
tert-Butylbenzene	25.0	24.7		ug/L		99	70 - 130	0	20
Tetrachloroethene	25.0	27.8		ug/L		111	70 - 130	1	20
Tetrahydrofuran	50.0	69.4 *		ug/L		139	70 - 130	3	20
Toluene	25.0	24.1		ug/L		96	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	24.9		ug/L		100	70 - 130	5	20
trans-1,3-Dichloropropene	25.0	23.5		ug/L		94	70 - 130	3	20
Trichloroethene	25.0	25.1		ug/L		100	70 - 130	5	20
Trichlorofluoromethane	25.0	28.1		ug/L		112	70 - 130	9	20
Vinyl chloride	25.0	23.5		ug/L		94	70 - 130	12	20
Dibromomethane	25.0	26.7		ug/L		107	70 - 130	4	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	111		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

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

**Lab Sample ID: MB 480-409598/8**

**Matrix: Water**

**Analysis Batch: 409598**

**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			04/18/18 23:02	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/18/18 23:02	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/18/18 23:02	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/18/18 23:02	1
1,1-Dichloroethane	ND		1.0		ug/L			04/18/18 23:02	1
1,1-Dichloroethene	ND		1.0		ug/L			04/18/18 23:02	1
1,1-Dichloropropene	ND		1.0		ug/L			04/18/18 23:02	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/18/18 23:02	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/18/18 23:02	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/18/18 23:02	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/18/18 23:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/18/18 23:02	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/18/18 23:02	1
1,2-Dichloroethane	ND		1.0		ug/L			04/18/18 23:02	1
1,2-Dichloropropane	ND		1.0		ug/L			04/18/18 23:02	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/18/18 23:02	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/18/18 23:02	1
1,3-Dichloropropane	ND		1.0		ug/L			04/18/18 23:02	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/18/18 23:02	1
1,4-Dioxane	ND		50		ug/L			04/18/18 23:02	1
2,2-Dichloropropane	ND		1.0		ug/L			04/18/18 23:02	1
2-Butanone (MEK)	ND		10		ug/L			04/18/18 23:02	1
2-Chlorotoluene	ND		1.0		ug/L			04/18/18 23:02	1
2-Hexanone	ND		10		ug/L			04/18/18 23:02	1
4-Chlorotoluene	ND		1.0		ug/L			04/18/18 23:02	1
4-Isopropyltoluene	ND		1.0		ug/L			04/18/18 23:02	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/18/18 23:02	1
Acetone	ND		50		ug/L			04/18/18 23:02	1
Benzene	ND		1.0		ug/L			04/18/18 23:02	1
Bromobenzene	ND		1.0		ug/L			04/18/18 23:02	1
Bromoform	ND		1.0		ug/L			04/18/18 23:02	1
Bromomethane	ND		2.0		ug/L			04/18/18 23:02	1
Carbon disulfide	ND		10		ug/L			04/18/18 23:02	1
Carbon tetrachloride	ND		1.0		ug/L			04/18/18 23:02	1
Chlorobenzene	ND		1.0		ug/L			04/18/18 23:02	1
Chlorobromomethane	ND		1.0		ug/L			04/18/18 23:02	1
Chlorodibromomethane	ND		0.50		ug/L			04/18/18 23:02	1
Chloroethane	ND		2.0		ug/L			04/18/18 23:02	1
Chloroform	ND		1.0		ug/L			04/18/18 23:02	1
Chloromethane	ND		2.0		ug/L			04/18/18 23:02	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 23:02	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 23:02	1
Dichlorobromomethane	ND		0.50		ug/L			04/18/18 23:02	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/18/18 23:02	1
Ethyl ether	ND		1.0		ug/L			04/18/18 23:02	1
Ethylbenzene	ND		1.0		ug/L			04/18/18 23:02	1
Ethylene Dibromide	ND		1.0		ug/L			04/18/18 23:02	1
Hexachlorobutadiene	ND		0.40		ug/L			04/18/18 23:02	1

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

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

**Lab Sample ID: MB 480-409598/8**

**Matrix: Water**

**Analysis Batch: 409598**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Isopropyl ether	ND		10		ug/L			04/18/18 23:02	1
Isopropylbenzene	ND		1.0		ug/L			04/18/18 23:02	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/18/18 23:02	1
Methylene Chloride	ND		1.0		ug/L			04/18/18 23:02	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/18/18 23:02	1
Naphthalene	ND		5.0		ug/L			04/18/18 23:02	1
n-Butylbenzene	ND		1.0		ug/L			04/18/18 23:02	1
N-Propylbenzene	ND		1.0		ug/L			04/18/18 23:02	1
o-Xylene	ND		1.0		ug/L			04/18/18 23:02	1
sec-Butylbenzene	ND		1.0		ug/L			04/18/18 23:02	1
Styrene	ND		1.0		ug/L			04/18/18 23:02	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/18/18 23:02	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/18/18 23:02	1
tert-Butylbenzene	ND		1.0		ug/L			04/18/18 23:02	1
Tetrachloroethene	ND		1.0		ug/L			04/18/18 23:02	1
Tetrahydrofuran	ND		10		ug/L			04/18/18 23:02	1
Toluene	ND		1.0		ug/L			04/18/18 23:02	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/18/18 23:02	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/18/18 23:02	1
Trichloroethene	ND		1.0		ug/L			04/18/18 23:02	1
Trichlorofluoromethane	ND		1.0		ug/L			04/18/18 23:02	1
Vinyl chloride	ND		1.0		ug/L			04/18/18 23:02	1
Dibromomethane	ND		1.0		ug/L			04/18/18 23:02	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	96		70 - 130		04/18/18 23:02	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		04/18/18 23:02	1
4-Bromofluorobenzene (Surr)	103		70 - 130		04/18/18 23:02	1

**Lab Sample ID: LCS 480-409598/5**

**Matrix: Water**

**Analysis Batch: 409598**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	25.0	27.7		ug/L		111	70 - 130
1,1,1-Trichloroethane	25.0	28.8		ug/L		115	70 - 130
1,1,1,2-Tetrachloroethane	25.0	27.1		ug/L		108	70 - 130
1,1,2-Trichloroethane	25.0	25.9		ug/L		104	70 - 130
1,1-Dichloroethane	25.0	28.1		ug/L		113	70 - 130
1,1-Dichloroethane	25.0	28.4		ug/L		114	70 - 130
1,1-Dichloropropene	25.0	28.1		ug/L		112	70 - 130
1,2,3-Trichlorobenzene	25.0	25.3		ug/L		101	70 - 130
1,2,3-Trichloropropane	25.0	28.4		ug/L		113	70 - 130
1,2,4-Trichlorobenzene	25.0	25.1		ug/L		100	70 - 130
1,2,4-Trimethylbenzene	25.0	25.0		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	28.8		ug/L		115	70 - 130
1,2-Dichlorobenzene	25.0	25.8		ug/L		103	70 - 130
1,2-Dichloroethane	25.0	29.0		ug/L		116	70 - 130

TestAmerica Buffalo



# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

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

**Lab Sample ID: LCS 480-409598/5**

**Matrix: Water**

**Analysis Batch: 409598**

**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	26.8		ug/L		107	70 - 130
1,3,5-Trimethylbenzene	25.0	25.0		ug/L		100	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	25.8		ug/L		103	70 - 130
1,4-Dioxane	500	432		ug/L		86	70 - 130
2,2-Dichloropropane	25.0	27.1		ug/L		108	70 - 130
2-Butanone (MEK)	125	272	*	ug/L		218	70 - 130
2-Chlorotoluene	25.0	24.8		ug/L		99	70 - 130
2-Hexanone	125	142		ug/L		113	70 - 130
4-Chlorotoluene	25.0	25.3		ug/L		101	70 - 130
4-Isopropyltoluene	25.0	26.6		ug/L		106	70 - 130
4-Methyl-2-pentanone (MIBK)	125	134		ug/L		107	70 - 130
Acetone	125	179	*	ug/L		143	70 - 130
Benzene	25.0	27.4		ug/L		110	70 - 130
Bromobenzene	25.0	25.6		ug/L		102	70 - 130
Bromoform	25.0	26.6		ug/L		106	70 - 130
Bromomethane	25.0	30.6		ug/L		122	70 - 130
Carbon disulfide	25.0	28.3		ug/L		113	70 - 130
Carbon tetrachloride	25.0	29.4		ug/L		118	70 - 130
Chlorobenzene	25.0	25.2		ug/L		101	70 - 130
Chlorobromomethane	25.0	30.4		ug/L		122	70 - 130
Chlorodibromomethane	25.0	26.4		ug/L		106	70 - 130
Chloroethane	25.0	29.6		ug/L		118	70 - 130
Chloroform	25.0	27.4		ug/L		110	70 - 130
Chloromethane	25.0	23.5		ug/L		94	70 - 130
cis-1,2-Dichloroethene	25.0	28.4		ug/L		114	70 - 130
cis-1,3-Dichloropropene	25.0	27.3		ug/L		109	70 - 130
Dichlorobromomethane	25.0	28.5		ug/L		114	70 - 130
Dichlorodifluoromethane	25.0	26.9		ug/L		108	70 - 130
Ethyl ether	25.0	28.2		ug/L		113	70 - 130
Ethylbenzene	25.0	25.5		ug/L		102	70 - 130
Ethylene Dibromide	25.0	26.4		ug/L		106	70 - 130
Hexachlorobutadiene	25.0	27.5		ug/L		110	70 - 130
Isopropyl ether	25.0	24.9		ug/L		100	70 - 130
Isopropylbenzene	25.0	24.8		ug/L		99	70 - 130
Methyl tert-butyl ether	25.0	27.9		ug/L		112	70 - 130
Methylene Chloride	25.0	28.2		ug/L		113	70 - 130
m-Xylene & p-Xylene	25.0	25.5		ug/L		102	70 - 130
Naphthalene	25.0	26.7		ug/L		107	70 - 130
n-Butylbenzene	25.0	26.1		ug/L		104	70 - 130
N-Propylbenzene	25.0	24.9		ug/L		100	70 - 130
o-Xylene	25.0	24.8		ug/L		99	70 - 130
sec-Butylbenzene	25.0	25.6		ug/L		102	70 - 130
Styrene	25.0	25.7		ug/L		103	70 - 130
Tert-amyl methyl ether	25.0	28.6		ug/L		114	70 - 130
Tert-butyl ethyl ether	25.0	27.0		ug/L		108	70 - 130
tert-Butylbenzene	25.0	27.0		ug/L		108	70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

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

**Lab Sample ID: LCS 480-409598/5**

**Matrix: Water**

**Analysis Batch: 409598**

**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	30.0		ug/L		120	70 - 130
Tetrahydrofuran	50.0	73.4	*	ug/L		147	70 - 130
Toluene	25.0	25.2		ug/L		101	70 - 130
trans-1,2-Dichloroethene	25.0	27.5		ug/L		110	70 - 130
trans-1,3-Dichloropropene	25.0	25.3		ug/L		101	70 - 130
Trichloroethene	25.0	28.9		ug/L		116	70 - 130
Trichlorofluoromethane	25.0	30.6		ug/L		122	70 - 130
Vinyl chloride	25.0	26.4		ug/L		105	70 - 130
Dibromomethane	25.0	29.0		ug/L		116	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	121		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130

**Lab Sample ID: LCSD 480-409598/6**

**Matrix: Water**

**Analysis Batch: 409598**

**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	26.9		ug/L		108	70 - 130	3	20
1,1,1-Trichloroethane	25.0	27.8		ug/L		111	70 - 130	4	20
1,1,1,2,2-Tetrachloroethane	25.0	26.1		ug/L		104	70 - 130	4	20
1,1,1,2-Trichloroethane	25.0	27.4		ug/L		110	70 - 130	6	20
1,1-Dichloroethane	25.0	27.3		ug/L		109	70 - 130	3	20
1,1-Dichloroethene	25.0	27.1		ug/L		108	70 - 130	5	20
1,1-Dichloropropene	25.0	26.7		ug/L		107	70 - 130	5	20
1,2,3-Trichlorobenzene	25.0	25.4		ug/L		101	70 - 130	0	20
1,2,3-Trichloropropane	25.0	28.5		ug/L		114	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	25.0		ug/L		100	70 - 130	0	20
1,2,4-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	26.9		ug/L		108	70 - 130	7	20
1,2-Dichlorobenzene	25.0	26.1		ug/L		104	70 - 130	1	20
1,2-Dichloroethane	25.0	27.5		ug/L		110	70 - 130	5	20
1,2-Dichloropropane	25.0	26.3		ug/L		105	70 - 130	2	20
1,3,5-Trimethylbenzene	25.0	24.9		ug/L		100	70 - 130	1	20
1,3-Dichlorobenzene	25.0	26.6		ug/L		106	70 - 130	1	20
1,3-Dichloropropane	25.0	26.4		ug/L		106	70 - 130	2	20
1,4-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130	1	20
1,4-Dioxane	500	659	*	ug/L		132	70 - 130	42	20
2,2-Dichloropropane	25.0	25.9		ug/L		104	70 - 130	4	20
2-Butanone (MEK)	125	258	*	ug/L		206	70 - 130	5	20
2-Chlorotoluene	25.0	24.1		ug/L		97	70 - 130	3	20
2-Hexanone	125	141		ug/L		113	70 - 130	1	20
4-Chlorotoluene	25.0	24.6		ug/L		98	70 - 130	3	20
4-Isopropyltoluene	25.0	26.3		ug/L		105	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	137		ug/L		109	70 - 130	2	20
Acetone	125	165	*	ug/L		132	70 - 130	8	20

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

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

Lab Sample ID: LCSD 480-409598/6

Matrix: Water

Analysis Batch: 409598

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Benzene	25.0	26.5		ug/L		106	70 - 130	4	20	
Bromobenzene	25.0	25.7		ug/L		103	70 - 130	0	20	
Bromoform	25.0	25.4		ug/L		102	70 - 130	5	20	
Bromomethane	25.0	28.4		ug/L		114	70 - 130	7	20	
Carbon disulfide	25.0	26.0		ug/L		104	70 - 130	8	20	
Carbon tetrachloride	25.0	28.1		ug/L		112	70 - 130	5	20	
Chlorobenzene	25.0	25.5		ug/L		102	70 - 130	1	20	
Chlorobromomethane	25.0	29.0		ug/L		116	70 - 130	5	20	
Chlorodibromomethane	25.0	26.9		ug/L		107	70 - 130	2	20	
Chloroethane	25.0	28.7		ug/L		115	70 - 130	3	20	
Chloroform	25.0	26.2		ug/L		105	70 - 130	5	20	
Chloromethane	25.0	22.8		ug/L		91	70 - 130	3	20	
cis-1,2-Dichloroethene	25.0	26.9		ug/L		107	70 - 130	5	20	
cis-1,3-Dichloropropene	25.0	27.1		ug/L		109	70 - 130	0	20	
Dichlorobromomethane	25.0	26.7		ug/L		107	70 - 130	7	20	
Dichlorodifluoromethane	25.0	24.5		ug/L		98	70 - 130	9	20	
Ethyl ether	25.0	26.1		ug/L		104	70 - 130	8	20	
Ethylbenzene	25.0	25.4		ug/L		102	70 - 130	0	20	
Ethylene Dibromide	25.0	27.0		ug/L		108	70 - 130	2	20	
Hexachlorobutadiene	25.0	27.8		ug/L		111	70 - 130	1	20	
Isopropyl ether	25.0	24.1		ug/L		96	70 - 130	3	20	
Isopropylbenzene	25.0	24.9		ug/L		99	70 - 130	0	20	
Methyl tert-butyl ether	25.0	26.6		ug/L		106	70 - 130	5	20	
Methylene Chloride	25.0	26.3		ug/L		105	70 - 130	7	20	
m-Xylene & p-Xylene	25.0	25.9		ug/L		104	70 - 130	2	20	
Naphthalene	25.0	26.6		ug/L		106	70 - 130	0	20	
n-Butylbenzene	25.0	26.0		ug/L		104	70 - 130	0	20	
N-Propylbenzene	25.0	24.6		ug/L		98	70 - 130	1	20	
o-Xylene	25.0	25.8		ug/L		103	70 - 130	4	20	
sec-Butylbenzene	25.0	25.0		ug/L		100	70 - 130	2	20	
Styrene	25.0	26.4		ug/L		106	70 - 130	3	20	
Tert-amyl methyl ether	25.0	27.6		ug/L		110	70 - 130	4	20	
Tert-butyl ethyl ether	25.0	26.1		ug/L		104	70 - 130	3	20	
tert-Butylbenzene	25.0	26.3		ug/L		105	70 - 130	3	20	
Tetrachloroethene	25.0	30.4		ug/L		122	70 - 130	1	20	
Tetrahydrofuran	50.0	70.0 *		ug/L		140	70 - 130	5	20	
Toluene	25.0	25.3		ug/L		101	70 - 130	0	20	
trans-1,2-Dichloroethene	25.0	25.9		ug/L		104	70 - 130	6	20	
trans-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 130	2	20	
Trichloroethene	25.0	27.5		ug/L		110	70 - 130	5	20	
Trichlorofluoromethane	25.0	28.6		ug/L		114	70 - 130	7	20	
Vinyl chloride	25.0	23.4		ug/L		94	70 - 130	12	20	
Dibromomethane	25.0	28.4		ug/L		113	70 - 130	2	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	111		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

**Lab Sample ID: MB 480-409631/8**

**Matrix: Water**

**Analysis Batch: 409631**

**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			04/19/18 10:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/19/18 10:50	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/19/18 10:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/19/18 10:50	1
1,1-Dichloroethane	ND		1.0		ug/L			04/19/18 10:50	1
1,1-Dichloroethene	ND		1.0		ug/L			04/19/18 10:50	1
1,1-Dichloropropene	ND		1.0		ug/L			04/19/18 10:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/19/18 10:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/19/18 10:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/19/18 10:50	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/19/18 10:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/19/18 10:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/19/18 10:50	1
1,2-Dichloroethane	ND		1.0		ug/L			04/19/18 10:50	1
1,2-Dichloropropane	ND		1.0		ug/L			04/19/18 10:50	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/19/18 10:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/19/18 10:50	1
1,3-Dichloropropane	ND		1.0		ug/L			04/19/18 10:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/19/18 10:50	1
1,4-Dioxane	ND		50		ug/L			04/19/18 10:50	1
2,2-Dichloropropane	ND		1.0		ug/L			04/19/18 10:50	1
2-Butanone (MEK)	ND		10		ug/L			04/19/18 10:50	1
2-Chlorotoluene	ND		1.0		ug/L			04/19/18 10:50	1
2-Hexanone	ND		10		ug/L			04/19/18 10:50	1
4-Chlorotoluene	ND		1.0		ug/L			04/19/18 10:50	1
4-Isopropyltoluene	ND		1.0		ug/L			04/19/18 10:50	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/19/18 10:50	1
Acetone	ND		50		ug/L			04/19/18 10:50	1
Benzene	ND		1.0		ug/L			04/19/18 10:50	1
Bromobenzene	ND		1.0		ug/L			04/19/18 10:50	1
Bromoform	ND		1.0		ug/L			04/19/18 10:50	1
Bromomethane	ND		2.0		ug/L			04/19/18 10:50	1
Carbon disulfide	ND		10		ug/L			04/19/18 10:50	1
Carbon tetrachloride	ND		1.0		ug/L			04/19/18 10:50	1
Chlorobenzene	ND		1.0		ug/L			04/19/18 10:50	1
Chlorobromomethane	ND		1.0		ug/L			04/19/18 10:50	1
Chlorodibromomethane	ND		0.50		ug/L			04/19/18 10:50	1
Chloroethane	ND		2.0		ug/L			04/19/18 10:50	1
Chloroform	ND		1.0		ug/L			04/19/18 10:50	1
Chloromethane	ND		2.0		ug/L			04/19/18 10:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 10:50	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 10:50	1
Dichlorobromomethane	ND		0.50		ug/L			04/19/18 10:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/19/18 10:50	1
Ethyl ether	ND		1.0		ug/L			04/19/18 10:50	1
Ethylbenzene	ND		1.0		ug/L			04/19/18 10:50	1
Ethylene Dibromide	ND		1.0		ug/L			04/19/18 10:50	1
Hexachlorobutadiene	ND		0.40		ug/L			04/19/18 10:50	1
Isopropyl ether	ND		10		ug/L			04/19/18 10:50	1
Isopropylbenzene	ND		1.0		ug/L			04/19/18 10:50	1

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

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

**Lab Sample ID: MB 480-409631/8**

**Matrix: Water**

**Analysis Batch: 409631**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0		ug/L			04/19/18 10:50	1
Methylene Chloride	ND		1.0		ug/L			04/19/18 10:50	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/19/18 10:50	1
Naphthalene	ND		5.0		ug/L			04/19/18 10:50	1
n-Butylbenzene	ND		1.0		ug/L			04/19/18 10:50	1
N-Propylbenzene	ND		1.0		ug/L			04/19/18 10:50	1
o-Xylene	ND		1.0		ug/L			04/19/18 10:50	1
sec-Butylbenzene	ND		1.0		ug/L			04/19/18 10:50	1
Styrene	ND		1.0		ug/L			04/19/18 10:50	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/19/18 10:50	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/19/18 10:50	1
tert-Butylbenzene	ND		1.0		ug/L			04/19/18 10:50	1
Tetrachloroethene	ND		1.0		ug/L			04/19/18 10:50	1
Tetrahydrofuran	ND		10		ug/L			04/19/18 10:50	1
Toluene	ND		1.0		ug/L			04/19/18 10:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/19/18 10:50	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/19/18 10:50	1
Trichloroethene	ND		1.0		ug/L			04/19/18 10:50	1
Trichlorofluoromethane	ND		1.0		ug/L			04/19/18 10:50	1
Vinyl chloride	ND		1.0		ug/L			04/19/18 10:50	1
Dibromomethane	ND		1.0		ug/L			04/19/18 10:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/19/18 10:50	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/19/18 10:50	1
4-Bromofluorobenzene (Surr)	97		70 - 130		04/19/18 10:50	1

**Lab Sample ID: LCS 480-409631/5**

**Matrix: Water**

**Analysis Batch: 409631**

**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	25.1		ug/L		101	70 - 130
1,1,1-Trichloroethane	25.0	26.1		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	25.0	24.1		ug/L		96	70 - 130
1,1,2-Trichloroethane	25.0	23.3		ug/L		93	70 - 130
1,1-Dichloroethane	25.0	25.2		ug/L		101	70 - 130
1,1-Dichloroethene	25.0	25.2		ug/L		101	70 - 130
1,1-Dichloropropene	25.0	25.4		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	25.0	23.5		ug/L		94	70 - 130
1,2,3-Trichloropropane	25.0	26.5		ug/L		106	70 - 130
1,2,4-Trichlorobenzene	25.0	23.0		ug/L		92	70 - 130
1,2,4-Trimethylbenzene	25.0	23.8		ug/L		95	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.9		ug/L		100	70 - 130
1,2-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,2-Dichloroethane	25.0	26.1		ug/L		105	70 - 130
1,2-Dichloropropane	25.0	25.2		ug/L		101	70 - 130
1,3,5-Trimethylbenzene	25.0	23.0		ug/L		92	70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

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

**Lab Sample ID: LCS 480-409631/5**

**Matrix: Water**

**Analysis Batch: 409631**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	25.0	24.4		ug/L		97	70 - 130
1,3-Dichloropropane	25.0	23.9		ug/L		96	70 - 130
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,4-Dioxane	500	389		ug/L		78	70 - 130
2,2-Dichloropropane	25.0	25.1		ug/L		100	70 - 130
2-Butanone (MEK)	125	242	*	ug/L		194	70 - 130
2-Chlorotoluene	25.0	23.0		ug/L		92	70 - 130
2-Hexanone	125	126		ug/L		101	70 - 130
4-Chlorotoluene	25.0	23.2		ug/L		93	70 - 130
4-Isopropyltoluene	25.0	24.2		ug/L		97	70 - 130
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		98	70 - 130
Acetone	125	159		ug/L		127	70 - 130
Benzene	25.0	24.7		ug/L		99	70 - 130
Bromobenzene	25.0	23.9		ug/L		96	70 - 130
Bromoform	25.0	22.8		ug/L		91	70 - 130
Bromomethane	25.0	29.2		ug/L		117	70 - 130
Carbon disulfide	25.0	23.5		ug/L		94	70 - 130
Carbon tetrachloride	25.0	26.5		ug/L		106	70 - 130
Chlorobenzene	25.0	24.4		ug/L		97	70 - 130
Chlorobromomethane	25.0	27.4		ug/L		110	70 - 130
Chlorodibromomethane	25.0	24.9		ug/L		100	70 - 130
Chloroethane	25.0	28.2		ug/L		113	70 - 130
Chloroform	25.0	24.9		ug/L		100	70 - 130
Chloromethane	25.0	22.0		ug/L		88	70 - 130
cis-1,2-Dichloroethene	25.0	25.6		ug/L		103	70 - 130
cis-1,3-Dichloropropene	25.0	25.2		ug/L		101	70 - 130
Dichlorobromomethane	25.0	25.6		ug/L		102	70 - 130
Dichlorodifluoromethane	25.0	25.4		ug/L		102	70 - 130
Ethyl ether	25.0	25.4		ug/L		102	70 - 130
Ethylbenzene	25.0	23.6		ug/L		94	70 - 130
Ethylene Dibromide	25.0	24.5		ug/L		98	70 - 130
Hexachlorobutadiene	25.0	24.7		ug/L		99	70 - 130
Isopropyl ether	25.0	23.9		ug/L		96	70 - 130
Isopropylbenzene	25.0	22.7		ug/L		91	70 - 130
Methyl tert-butyl ether	25.0	24.9		ug/L		100	70 - 130
Methylene Chloride	25.0	23.4		ug/L		94	70 - 130
m-Xylene & p-Xylene	25.0	23.7		ug/L		95	70 - 130
Naphthalene	25.0	24.4		ug/L		98	70 - 130
n-Butylbenzene	25.0	24.0		ug/L		96	70 - 130
N-Propylbenzene	25.0	22.9		ug/L		92	70 - 130
o-Xylene	25.0	23.7		ug/L		95	70 - 130
sec-Butylbenzene	25.0	23.6		ug/L		95	70 - 130
Styrene	25.0	24.6		ug/L		98	70 - 130
Tert-amyl methyl ether	25.0	27.1		ug/L		108	70 - 130
Tert-butyl ethyl ether	25.0	25.0		ug/L		100	70 - 130
tert-Butylbenzene	25.0	23.9		ug/L		96	70 - 130
Tetrachloroethene	25.0	26.4		ug/L		106	70 - 130
Tetrahydrofuran	50.0	65.5	*	ug/L		131	70 - 130

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

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

**Lab Sample ID: LCS 480-409631/5**

**Matrix: Water**

**Analysis Batch: 409631**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	25.0	23.6		ug/L		94	70 - 130
trans-1,2-Dichloroethene	25.0	24.0		ug/L		96	70 - 130
trans-1,3-Dichloropropene	25.0	23.3		ug/L		93	70 - 130
Trichloroethene	25.0	25.9		ug/L		104	70 - 130
Trichlorofluoromethane	25.0	28.4		ug/L		114	70 - 130
Vinyl chloride	25.0	23.8		ug/L		95	70 - 130
Dibromomethane	25.0	26.5		ug/L		106	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

**Lab Sample ID: LCSD 480-409631/6**

**Matrix: Water**

**Analysis Batch: 409631**

**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	3	20
1,1,1-Trichloroethane	25.0	26.9		ug/L		107	70 - 130	3	20
1,1,1,2,2-Tetrachloroethane	25.0	24.4		ug/L		98	70 - 130	1	20
1,1,2-Trichloroethane	25.0	23.9		ug/L		96	70 - 130	3	20
1,1-Dichloroethane	25.0	26.1		ug/L		105	70 - 130	4	20
1,1-Dichloroethene	25.0	26.9		ug/L		108	70 - 130	7	20
1,1-Dichloropropene	25.0	26.5		ug/L		106	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	23.2		ug/L		93	70 - 130	1	20
1,2,3-Trichloropropane	25.0	25.6		ug/L		102	70 - 130	3	20
1,2,4-Trichlorobenzene	25.0	24.1		ug/L		96	70 - 130	5	20
1,2,4-Trimethylbenzene	25.0	24.3		ug/L		97	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	24.8		ug/L		99	70 - 130	0	20
1,2-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	4	20
1,2-Dichloroethane	25.0	26.5		ug/L		106	70 - 130	1	20
1,2-Dichloropropane	25.0	25.4		ug/L		101	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	24.3		ug/L		97	70 - 130	6	20
1,3-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	3	20
1,3-Dichloropropane	25.0	24.7		ug/L		99	70 - 130	3	20
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	4	20
1,4-Dioxane	500	614	*	ug/L		123	70 - 130	45	20
2,2-Dichloropropane	25.0	26.2		ug/L		105	70 - 130	4	20
2-Butanone (MEK)	125	249	*	ug/L		199	70 - 130	3	20
2-Chlorotoluene	25.0	23.6		ug/L		94	70 - 130	3	20
2-Hexanone	125	130		ug/L		104	70 - 130	3	20
4-Chlorotoluene	25.0	24.1		ug/L		96	70 - 130	4	20
4-Isopropyltoluene	25.0	25.9		ug/L		104	70 - 130	7	20
4-Methyl-2-pentanone (MIBK)	125	126		ug/L		101	70 - 130	3	20
Acetone	125	166	*	ug/L		132	70 - 130	4	20
Benzene	25.0	25.3		ug/L		101	70 - 130	2	20
Bromobenzene	25.0	24.5		ug/L		98	70 - 130	2	20

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

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

**Lab Sample ID: LCSD 480-409631/6**

**Matrix: Water**

**Analysis Batch: 409631**

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

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	25.0	24.6		ug/L		98	70 - 130	8	20
Bromomethane	25.0	30.8		ug/L		123	70 - 130	6	20
Carbon disulfide	25.0	24.3		ug/L		97	70 - 130	4	20
Carbon tetrachloride	25.0	27.6		ug/L		110	70 - 130	4	20
Chlorobenzene	25.0	24.9		ug/L		100	70 - 130	2	20
Chlorobromomethane	25.0	26.9		ug/L		108	70 - 130	2	20
Chlorodibromomethane	25.0	25.3		ug/L		101	70 - 130	2	20
Chloroethane	25.0	29.8		ug/L		119	70 - 130	5	20
Chloroform	25.0	25.6		ug/L		102	70 - 130	2	20
Chloromethane	25.0	22.8		ug/L		91	70 - 130	4	20
cis-1,2-Dichloroethene	25.0	26.2		ug/L		105	70 - 130	2	20
cis-1,3-Dichloropropene	25.0	26.2		ug/L		105	70 - 130	4	20
Dichlorobromomethane	25.0	26.5		ug/L		106	70 - 130	4	20
Dichlorodifluoromethane	25.0	25.9		ug/L		103	70 - 130	2	20
Ethyl ether	25.0	25.5		ug/L		102	70 - 130	1	20
Ethylbenzene	25.0	24.6		ug/L		98	70 - 130	4	20
Ethylene Dibromide	25.0	25.2		ug/L		101	70 - 130	3	20
Hexachlorobutadiene	25.0	27.3		ug/L		109	70 - 130	10	20
Isopropyl ether	25.0	24.4		ug/L		98	70 - 130	2	20
Isopropylbenzene	25.0	24.3		ug/L		97	70 - 130	7	20
Methyl tert-butyl ether	25.0	25.1		ug/L		100	70 - 130	1	20
Methylene Chloride	25.0	23.3		ug/L		93	70 - 130	0	20
m-Xylene & p-Xylene	25.0	24.3		ug/L		97	70 - 130	2	20
Naphthalene	25.0	24.9		ug/L		100	70 - 130	2	20
n-Butylbenzene	25.0	25.4		ug/L		102	70 - 130	6	20
N-Propylbenzene	25.0	24.1		ug/L		96	70 - 130	5	20
o-Xylene	25.0	24.3		ug/L		97	70 - 130	3	20
sec-Butylbenzene	25.0	24.4		ug/L		98	70 - 130	3	20
Styrene	25.0	24.6		ug/L		99	70 - 130	0	20
Tert-amyl methyl ether	25.0	27.1		ug/L		108	70 - 130	0	20
Tert-butyl ethyl ether	25.0	25.9		ug/L		104	70 - 130	3	20
tert-Butylbenzene	25.0	25.1		ug/L		100	70 - 130	5	20
Tetrachloroethene	25.0	28.2		ug/L		113	70 - 130	7	20
Tetrahydrofuran	50.0	68.4 *		ug/L		137	70 - 130	4	20
Toluene	25.0	24.6		ug/L		98	70 - 130	4	20
trans-1,2-Dichloroethene	25.0	26.0		ug/L		104	70 - 130	8	20
trans-1,3-Dichloropropene	25.0	24.2		ug/L		97	70 - 130	3	20
Trichloroethene	25.0	26.3		ug/L		105	70 - 130	1	20
Trichlorofluoromethane	25.0	30.0		ug/L		120	70 - 130	6	20
Vinyl chloride	25.0	25.3		ug/L		101	70 - 130	6	20
Dibromomethane	25.0	26.9		ug/L		108	70 - 130	2	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	111		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

TestAmerica Buffalo



# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

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

Lab Sample ID: MB 200-128409/1-A  
Matrix: Water  
Analysis Batch: 128413

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 128409

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/12/18 13:25	04/12/18 21:53	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	94		46 - 130				04/12/18 13:25	04/12/18 21:53	1

Lab Sample ID: LCS 200-128409/2-A  
Matrix: Water  
Analysis Batch: 128413

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 128409

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.00	2.23		ug/L		112	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	100		46 - 130				

## Method: 6010 - Metals (ICP)

Lab Sample ID: MB 480-408769/1-A  
Matrix: Water  
Analysis Batch: 409179

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 408769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050		mg/L		04/14/18 09:34	04/16/18 14:59	1

Lab Sample ID: LCS 480-408769/2-A  
Matrix: Water  
Analysis Batch: 409179

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 408769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	9.47		mg/L		95	80 - 120

Lab Sample ID: LCSD 480-408769/25-A  
Matrix: Water  
Analysis Batch: 409179

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 408769

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	10.0	9.53		mg/L		95	80 - 120	1	20

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-408864/29  
Matrix: Water  
Analysis Batch: 408864

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			04/14/18 18:36	1
Sulfate	ND		2.0		mg/L			04/14/18 18:36	1

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: LCS 480-408864/28**

**Matrix: Water**

**Analysis Batch: 408864**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	52.9		mg/L		106	90 - 110
Sulfate	50.0	51.0		mg/L		102	90 - 110

**Lab Sample ID: 480-133988-9 MS**

**Matrix: Water**

**Analysis Batch: 408864**

**Client Sample ID: MW-561-20180411**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	33		250	312		mg/L		112	81 - 120
Sulfate	ND		250	265		mg/L		106	80 - 120

**Lab Sample ID: MB 480-408869/5**

**Matrix: Water**

**Analysis Batch: 408869**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			04/14/18 12:36	1
Sulfate	ND		2.0		mg/L			04/14/18 12:36	1

**Lab Sample ID: LCS 480-408869/4**

**Matrix: Water**

**Analysis Batch: 408869**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.0		mg/L		98	90 - 110
Sulfate	50.0	47.2		mg/L		94	90 - 110

**Lab Sample ID: 480-133988-17 MS**

**Matrix: Water**

**Analysis Batch: 408869**

**Client Sample ID: REW-12-20180411**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	25		100	127		mg/L		102	81 - 120
Sulfate	ND		100	98.8		mg/L		98	80 - 120

## Method: 350.1 - Nitrogen, Ammonia

**Lab Sample ID: MB 480-408609/1-A**

**Matrix: Water**

**Analysis Batch: 409125**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 408609**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		04/12/18 20:20	04/16/18 21:04	1

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

## Method: 350.1 - Nitrogen, Ammonia (Continued)

**Lab Sample ID:** LCS 480-408609/2-A  
**Matrix:** Water  
**Analysis Batch:** 409125

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 408609

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.06		mg/L		106	90 - 110

**Lab Sample ID:** 480-133988-10 MS  
**Matrix:** Water  
**Analysis Batch:** 409125

**Client Sample ID:** MW-563-20180411  
**Prep Type:** Total/NA  
**Prep Batch:** 408609

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.37		0.500	0.866		mg/L		99	90 - 110

**Lab Sample ID:** MB 480-409093/1-A  
**Matrix:** Water  
**Analysis Batch:** 409125

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 409093

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		04/16/18 18:18	04/16/18 21:12	1

**Lab Sample ID:** LCS 480-409093/2-A  
**Matrix:** Water  
**Analysis Batch:** 409125

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 409093

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.984		mg/L		98	90 - 110

**Lab Sample ID:** MB 480-409364/1-A  
**Matrix:** Water  
**Analysis Batch:** 409530

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 409364

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		04/17/18 16:09	04/18/18 13:33	1

**Lab Sample ID:** LCS 480-409364/2-A  
**Matrix:** Water  
**Analysis Batch:** 409530

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA  
**Prep Batch:** 409364

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.09		mg/L		109	90 - 110

**Lab Sample ID:** MB 480-409848/1-A  
**Matrix:** Water  
**Analysis Batch:** 410062

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 409848

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		04/19/18 16:36	04/20/18 17:02	1

**Lab Sample ID:** MB 480-409848/1-A  
**Matrix:** Water  
**Analysis Batch:** 410073

**Client Sample ID:** Method Blank  
**Prep Type:** Total/NA  
**Prep Batch:** 409848

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L		04/19/18 16:36	04/20/18 18:45	1

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

**Lab Sample ID: LCS 480-409848/2-A**  
**Matrix: Water**  
**Analysis Batch: 410062**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 409848**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.965		mg/L		97	90 - 110

**Lab Sample ID: LCS 480-409848/2-A**  
**Matrix: Water**  
**Analysis Batch: 410073**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 409848**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.927		mg/L		93	90 - 110

## Method: 9040C - pH

**Lab Sample ID: 480-133988-14 DU**  
**Matrix: Water**  
**Analysis Batch: 408831**

**Client Sample ID: REW-8-20180411**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.0	HF	6.9		SU		1	5
Temperature	21.0	HF	21.2		Degrees C		1	10

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

**Lab Sample ID: MB 480-408957/28**  
**Matrix: Water**  
**Analysis Batch: 408957**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			04/14/18 21:26	1
TOC Result 2	ND		1.0		mg/L			04/14/18 21:26	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/14/18 21:26	1

**Lab Sample ID: MB 480-408957/4**  
**Matrix: Water**  
**Analysis Batch: 408957**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			04/14/18 10:18	1
TOC Result 2	ND		1.0		mg/L			04/14/18 10:18	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/14/18 10:18	1

**Lab Sample ID: MB 480-408957/52**  
**Matrix: Water**  
**Analysis Batch: 408957**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			04/15/18 08:35	1
TOC Result 2	ND		1.0		mg/L			04/15/18 08:35	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/15/18 08:35	1

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

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

**Lab Sample ID: LCS 480-408957/29**

**Matrix: Water**

**Analysis Batch: 408957**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	58.5		mg/L		97	90 - 110
TOC Result 2	60.0	60.3		mg/L		101	90 - 110
Total Organic Carbon - Duplicates	60.0	59.4		mg/L		99	90 - 110

**Lab Sample ID: LCS 480-408957/5**

**Matrix: Water**

**Analysis Batch: 408957**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	58.4		mg/L		97	90 - 110
TOC Result 2	60.0	59.8		mg/L		100	90 - 110
Total Organic Carbon - Duplicates	60.0	59.1		mg/L		99	90 - 110

**Lab Sample ID: LCS 480-408957/53**

**Matrix: Water**

**Analysis Batch: 408957**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	59.6		mg/L		99	90 - 110
TOC Result 2	60.0	59.6		mg/L		99	90 - 110
Total Organic Carbon - Duplicates	60.0	59.6		mg/L		99	90 - 110

**Lab Sample ID: 480-133988-13 MS**

**Matrix: Water**

**Analysis Batch: 408957**

**Client Sample ID: REW-5-20180411**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	1.5		20.0	22.7		mg/L		106	54 - 131
TOC Result 2	1.4		20.0	23.2		mg/L		109	54 - 131
Total Organic Carbon - Duplicates	1.5		20.0	23.0		mg/L		107	54 - 131

**Lab Sample ID: 480-133988-12 DU**

**Matrix: Water**

**Analysis Batch: 408957**

**Client Sample ID: REW-4-20180411**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
TOC Result 1	ND		ND		mg/L		NC	20
TOC Result 2	ND		ND		mg/L		NC	20
Total Organic Carbon - Duplicates	ND		ND		mg/L		NC	20

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

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

**Lab Sample ID: 480-133988-17 DU**

**Matrix: Water**

**Analysis Batch: 408957**

**Client Sample ID: REW-12-20180411**

**Prep Type: Total/NA**

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
TOC Result 1	5.6		6.05		mg/L		8	20
TOC Result 2	5.6		5.63		mg/L		1	20
Total Organic Carbon - Duplicates	5.6		5.84		mg/L		5	20

**Lab Sample ID: MB 480-410102/28**

**Matrix: Water**

**Analysis Batch: 410102**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
TOC Result 1	ND		1.0		mg/L			04/18/18 21:49	1
TOC Result 2	ND		1.0		mg/L			04/18/18 21:49	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/18/18 21:49	1

**Lab Sample ID: MB 480-410102/4**

**Matrix: Water**

**Analysis Batch: 410102**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
TOC Result 1	ND		1.0		mg/L			04/18/18 10:45	1
TOC Result 2	ND		1.0		mg/L			04/18/18 10:45	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/18/18 10:45	1

**Lab Sample ID: LCS 480-410102/29**

**Matrix: Water**

**Analysis Batch: 410102**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 2	60.0	59.7		mg/L		99	90 - 110
Total Organic Carbon - Duplicates	60.0	60.0		mg/L		100	90 - 110

**Lab Sample ID: LCS 480-410102/5**

**Matrix: Water**

**Analysis Batch: 410102**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 2	60.0	60.9		mg/L		101	90 - 110
Total Organic Carbon - Duplicates	60.0	60.3		mg/L		100	90 - 110

TestAmerica Buffalo

# QC Sample Results

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

TestAmerica Job ID: 480-133988-1

## Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-409772/7

Matrix: Water

Analysis Batch: 409772

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			04/19/18 11:36	1

Lab Sample ID: LCS 480-409772/8

Matrix: Water

Analysis Batch: 409772

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	97.9		mg/L		98	90 - 110

## Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 480-408564/3

Matrix: Water

Analysis Batch: 408564

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ortho-Phosphate	ND		0.020		mg/L			04/12/18 08:23	1

Lab Sample ID: LCS 480-408564/4

Matrix: Water

Analysis Batch: 408564

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.200	0.193		mg/L		97	90 - 110

Lab Sample ID: 480-133988-12 MS

Matrix: Water

Analysis Batch: 408564

Client Sample ID: REW-4-20180411

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.090		1.00	1.11		mg/L		102	49 - 138

Lab Sample ID: 480-133988-12 MSD

Matrix: Water

Analysis Batch: 408564

Client Sample ID: REW-4-20180411

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
ortho-Phosphate	0.090		1.00	1.12		mg/L		103	49 - 138	1	20

TestAmerica Buffalo

# QC Association Summary

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

TestAmerica Job ID: 480-133988-1

## GC/MS VOA

### Analysis Batch: 409348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-1	DEP-21-20180411	Total/NA	Water	8260C	
480-133988-2	MW-264M-20180411	Total/NA	Water	8260C	
480-133988-3	MW-265S-20180411	Total/NA	Water	8260C	
480-133988-4	MW-265M-20180411	Total/NA	Water	8260C	
480-133988-5	MW-265D-20180411	Total/NA	Water	8260C	
480-133988-6	MW-266Ma-20180411	Total/NA	Water	8260C	
480-133988-7	MW-266Mb-20180411	Total/NA	Water	8260C	
480-133988-8	MW-269Ma-20180411	Total/NA	Water	8260C	
480-133988-9	MW-561-20180411	Total/NA	Water	8260C	
480-133988-10	MW-563-20180411	Total/NA	Water	8260C	
480-133988-11	REW-1-20180411	Total/NA	Water	8260C	
480-133988-12	REW-4-20180411	Total/NA	Water	8260C	
480-133988-13	REW-5-20180411	Total/NA	Water	8260C	
MB 480-409348/8	Method Blank	Total/NA	Water	8260C	
LCS 480-409348/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-409348/6	Lab Control Sample Dup	Total/NA	Water	8260C	

### Analysis Batch: 409387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-14	REW-8-20180411	Total/NA	Water	8260C	
480-133988-19	DUP4-20180411	Total/NA	Water	8260C	
MB 480-409387/8	Method Blank	Total/NA	Water	8260C	
LCS 480-409387/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-409387/6	Lab Control Sample Dup	Total/NA	Water	8260C	

### Analysis Batch: 409598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-15	REW-9-20180411	Total/NA	Water	8260C	
480-133988-16	REW-10-20180411	Total/NA	Water	8260C	
480-133988-20	Trip Blanks	Total/NA	Water	8260C	
MB 480-409598/8	Method Blank	Total/NA	Water	8260C	
LCS 480-409598/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-409598/6	Lab Control Sample Dup	Total/NA	Water	8260C	

### Analysis Batch: 409631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-17	REW-12-20180411	Total/NA	Water	8260C	
480-133988-18	DUP3-20180411	Total/NA	Water	8260C	
MB 480-409631/8	Method Blank	Total/NA	Water	8260C	
LCS 480-409631/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-409631/6	Lab Control Sample Dup	Total/NA	Water	8260C	

## GC/MS Semi VOA

### Prep Batch: 128409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-4	MW-265M-20180411	Total/NA	Water	3535A	
480-133988-6	MW-266Ma-20180411	Total/NA	Water	3535A	
480-133988-8	MW-269Ma-20180411	Total/NA	Water	3535A	
480-133988-19	DUP4-20180411	Total/NA	Water	3535A	

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# QC Association Summary

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

TestAmerica Job ID: 480-133988-1

## GC/MS Semi VOA (Continued)

### Prep Batch: 128409 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 200-128409/1-A	Method Blank	Total/NA	Water	3535A	
LCS 200-128409/2-A	Lab Control Sample	Total/NA	Water	3535A	

### Analysis Batch: 128413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-4	MW-265M-20180411	Total/NA	Water	522	128409
480-133988-6	MW-266Ma-20180411	Total/NA	Water	522	128409
480-133988-8	MW-269Ma-20180411	Total/NA	Water	522	128409
480-133988-19	DUP4-20180411	Total/NA	Water	522	128409
MB 200-128409/1-A	Method Blank	Total/NA	Water	522	128409
LCS 200-128409/2-A	Lab Control Sample	Total/NA	Water	522	128409

## Metals

### Prep Batch: 408769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-4	MW-265M-20180411	Total/NA	Water	3005A	
480-133988-9	MW-561-20180411	Total/NA	Water	3005A	
480-133988-10	MW-563-20180411	Total/NA	Water	3005A	
480-133988-11	REW-1-20180411	Total/NA	Water	3005A	
480-133988-12	REW-4-20180411	Total/NA	Water	3005A	
480-133988-13	REW-5-20180411	Total/NA	Water	3005A	
480-133988-14	REW-8-20180411	Total/NA	Water	3005A	
480-133988-15	REW-9-20180411	Total/NA	Water	3005A	
480-133988-16	REW-10-20180411	Total/NA	Water	3005A	
480-133988-17	REW-12-20180411	Total/NA	Water	3005A	
MB 480-408769/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-408769/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-408769/25-A	Lab Control Sample Dup	Total/NA	Water	3005A	

### Analysis Batch: 409179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-4	MW-265M-20180411	Total/NA	Water	6010	408769
480-133988-9	MW-561-20180411	Total/NA	Water	6010	408769
480-133988-10	MW-563-20180411	Total/NA	Water	6010	408769
480-133988-11	REW-1-20180411	Total/NA	Water	6010	408769
480-133988-12	REW-4-20180411	Total/NA	Water	6010	408769
480-133988-13	REW-5-20180411	Total/NA	Water	6010	408769
480-133988-14	REW-8-20180411	Total/NA	Water	6010	408769
480-133988-15	REW-9-20180411	Total/NA	Water	6010	408769
480-133988-16	REW-10-20180411	Total/NA	Water	6010	408769
480-133988-17	REW-12-20180411	Total/NA	Water	6010	408769
MB 480-408769/1-A	Method Blank	Total/NA	Water	6010	408769
LCS 480-408769/2-A	Lab Control Sample	Total/NA	Water	6010	408769
LCSD 480-408769/25-A	Lab Control Sample Dup	Total/NA	Water	6010	408769

TestAmerica Buffalo

# QC Association Summary

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

TestAmerica Job ID: 480-133988-1

## General Chemistry

### Analysis Batch: 408532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-4	MW-265M-20180411	Total/NA	Water	9040C	
480-133988-9	MW-561-20180411	Total/NA	Water	9040C	
480-133988-10	MW-563-20180411	Total/NA	Water	9040C	
480-133988-11	REW-1-20180411	Total/NA	Water	9040C	
480-133988-12	REW-4-20180411	Total/NA	Water	9040C	
480-133988-13	REW-5-20180411	Total/NA	Water	9040C	
LCS 480-408532/45	Lab Control Sample	Total/NA	Water	9040C	

### Analysis Batch: 408564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-4	MW-265M-20180411	Total/NA	Water	SM 4500 P E	
480-133988-9	MW-561-20180411	Total/NA	Water	SM 4500 P E	
480-133988-10	MW-563-20180411	Total/NA	Water	SM 4500 P E	
480-133988-11	REW-1-20180411	Total/NA	Water	SM 4500 P E	
480-133988-12	REW-4-20180411	Total/NA	Water	SM 4500 P E	
480-133988-13	REW-5-20180411	Total/NA	Water	SM 4500 P E	
480-133988-14	REW-8-20180411	Total/NA	Water	SM 4500 P E	
480-133988-15	REW-9-20180411	Total/NA	Water	SM 4500 P E	
480-133988-16	REW-10-20180411	Total/NA	Water	SM 4500 P E	
480-133988-17	REW-12-20180411	Total/NA	Water	SM 4500 P E	
MB 480-408564/3	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-408564/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	
480-133988-12 MS	REW-4-20180411	Total/NA	Water	SM 4500 P E	
480-133988-12 MSD	REW-4-20180411	Total/NA	Water	SM 4500 P E	

### Prep Batch: 408609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-10	MW-563-20180411	Total/NA	Water	Distill/Ammonia	
MB 480-408609/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-408609/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
480-133988-10 MS	MW-563-20180411	Total/NA	Water	Distill/Ammonia	

### Analysis Batch: 408628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-4	MW-265M-20180411	Total/NA	Water	353.2	
480-133988-9	MW-561-20180411	Total/NA	Water	353.2	
480-133988-10	MW-563-20180411	Total/NA	Water	353.2	
480-133988-11	REW-1-20180411	Total/NA	Water	353.2	
480-133988-12	REW-4-20180411	Total/NA	Water	353.2	
480-133988-13	REW-5-20180411	Total/NA	Water	353.2	
480-133988-14	REW-8-20180411	Total/NA	Water	353.2	
480-133988-15	REW-9-20180411	Total/NA	Water	353.2	
480-133988-16	REW-10-20180411	Total/NA	Water	353.2	
480-133988-17	REW-12-20180411	Total/NA	Water	353.2	

### Analysis Batch: 408831

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-14	REW-8-20180411	Total/NA	Water	9040C	
480-133988-15	REW-9-20180411	Total/NA	Water	9040C	
480-133988-16	REW-10-20180411	Total/NA	Water	9040C	
480-133988-17	REW-12-20180411	Total/NA	Water	9040C	

TestAmerica Buffalo

# QC Association Summary

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

TestAmerica Job ID: 480-133988-1

## General Chemistry (Continued)

### Analysis Batch: 408831 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-408831/1	Lab Control Sample	Total/NA	Water	9040C	
480-133988-14 DU	REW-8-20180411	Total/NA	Water	9040C	

### Analysis Batch: 408864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-4	MW-265M-20180411	Total/NA	Water	300.0	
480-133988-9	MW-561-20180411	Total/NA	Water	300.0	
MB 480-408864/29	Method Blank	Total/NA	Water	300.0	
LCS 480-408864/28	Lab Control Sample	Total/NA	Water	300.0	
480-133988-9 MS	MW-561-20180411	Total/NA	Water	300.0	

### Analysis Batch: 408869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-10	MW-563-20180411	Total/NA	Water	300.0	
480-133988-11	REW-1-20180411	Total/NA	Water	300.0	
480-133988-12	REW-4-20180411	Total/NA	Water	300.0	
480-133988-13	REW-5-20180411	Total/NA	Water	300.0	
480-133988-14	REW-8-20180411	Total/NA	Water	300.0	
480-133988-15	REW-9-20180411	Total/NA	Water	300.0	
480-133988-16	REW-10-20180411	Total/NA	Water	300.0	
480-133988-17	REW-12-20180411	Total/NA	Water	300.0	
MB 480-408869/5	Method Blank	Total/NA	Water	300.0	
LCS 480-408869/4	Lab Control Sample	Total/NA	Water	300.0	
480-133988-17 MS	REW-12-20180411	Total/NA	Water	300.0	

### Analysis Batch: 408957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-9	MW-561-20180411	Total/NA	Water	9060A	
480-133988-11	REW-1-20180411	Total/NA	Water	9060A	
480-133988-12	REW-4-20180411	Total/NA	Water	9060A	
480-133988-13	REW-5-20180411	Total/NA	Water	9060A	
480-133988-14	REW-8-20180411	Total/NA	Water	9060A	
480-133988-15	REW-9-20180411	Total/NA	Water	9060A	
480-133988-16	REW-10-20180411	Total/NA	Water	9060A	
480-133988-17	REW-12-20180411	Total/NA	Water	9060A	
MB 480-408957/28	Method Blank	Total/NA	Water	9060A	
MB 480-408957/4	Method Blank	Total/NA	Water	9060A	
MB 480-408957/52	Method Blank	Total/NA	Water	9060A	
LCS 480-408957/29	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-408957/5	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-408957/53	Lab Control Sample	Total/NA	Water	9060A	
480-133988-13 MS	REW-5-20180411	Total/NA	Water	9060A	
480-133988-12 DU	REW-4-20180411	Total/NA	Water	9060A	
480-133988-17 DU	REW-12-20180411	Total/NA	Water	9060A	

### Prep Batch: 409093

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-4	MW-265M-20180411	Total/NA	Water	Distill/Ammonia	
MB 480-409093/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-409093/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

TestAmerica Buffalo

# QC Association Summary

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

TestAmerica Job ID: 480-133988-1

## General Chemistry (Continued)

### Analysis Batch: 409125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-4	MW-265M-20180411	Total/NA	Water	350.1	409093
480-133988-10	MW-563-20180411	Total/NA	Water	350.1	408609
MB 480-408609/1-A	Method Blank	Total/NA	Water	350.1	408609
MB 480-409093/1-A	Method Blank	Total/NA	Water	350.1	409093
LCS 480-408609/2-A	Lab Control Sample	Total/NA	Water	350.1	408609
LCS 480-409093/2-A	Lab Control Sample	Total/NA	Water	350.1	409093
480-133988-10 MS	MW-563-20180411	Total/NA	Water	350.1	408609

### Prep Batch: 409364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-11	REW-1-20180411	Total/NA	Water	Distill/Ammonia	
480-133988-12	REW-4-20180411	Total/NA	Water	Distill/Ammonia	
480-133988-13	REW-5-20180411	Total/NA	Water	Distill/Ammonia	
480-133988-14	REW-8-20180411	Total/NA	Water	Distill/Ammonia	
480-133988-15	REW-9-20180411	Total/NA	Water	Distill/Ammonia	
480-133988-16	REW-10-20180411	Total/NA	Water	Distill/Ammonia	
MB 480-409364/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-409364/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

### Analysis Batch: 409530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-11	REW-1-20180411	Total/NA	Water	350.1	409364
480-133988-12	REW-4-20180411	Total/NA	Water	350.1	409364
480-133988-13	REW-5-20180411	Total/NA	Water	350.1	409364
480-133988-14	REW-8-20180411	Total/NA	Water	350.1	409364
480-133988-15	REW-9-20180411	Total/NA	Water	350.1	409364
480-133988-16	REW-10-20180411	Total/NA	Water	350.1	409364
MB 480-409364/1-A	Method Blank	Total/NA	Water	350.1	409364
LCS 480-409364/2-A	Lab Control Sample	Total/NA	Water	350.1	409364

### Analysis Batch: 409772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-4	MW-265M-20180411	Total/NA	Water	SM 2320B	
480-133988-9	MW-561-20180411	Total/NA	Water	SM 2320B	
480-133988-10	MW-563-20180411	Total/NA	Water	SM 2320B	
480-133988-11	REW-1-20180411	Total/NA	Water	SM 2320B	
480-133988-12	REW-4-20180411	Total/NA	Water	SM 2320B	
480-133988-13	REW-5-20180411	Total/NA	Water	SM 2320B	
480-133988-14	REW-8-20180411	Total/NA	Water	SM 2320B	
480-133988-15	REW-9-20180411	Total/NA	Water	SM 2320B	
480-133988-16	REW-10-20180411	Total/NA	Water	SM 2320B	
480-133988-17	REW-12-20180411	Total/NA	Water	SM 2320B	
MB 480-409772/7	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-409772/8	Lab Control Sample	Total/NA	Water	SM 2320B	

### Prep Batch: 409848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-9	MW-561-20180411	Total/NA	Water	Distill/Ammonia	
480-133988-17	REW-12-20180411	Total/NA	Water	Distill/Ammonia	
MB 480-409848/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 480-409848/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

TestAmerica Buffalo

# QC Association Summary

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

TestAmerica Job ID: 480-133988-1

## Analysis Batch: 410062

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-9	MW-561-20180411	Total/NA	Water	350.1	409848
MB 480-409848/1-A	Method Blank	Total/NA	Water	350.1	409848
LCS 480-409848/2-A	Lab Control Sample	Total/NA	Water	350.1	409848

## Analysis Batch: 410073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-17	REW-12-20180411	Total/NA	Water	350.1	409848
MB 480-409848/1-A	Method Blank	Total/NA	Water	350.1	409848
LCS 480-409848/2-A	Lab Control Sample	Total/NA	Water	350.1	409848

## Analysis Batch: 410102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-133988-4	MW-265M-20180411	Total/NA	Water	9060A	
480-133988-10	MW-563-20180411	Total/NA	Water	9060A	
MB 480-410102/28	Method Blank	Total/NA	Water	9060A	
MB 480-410102/4	Method Blank	Total/NA	Water	9060A	
LCS 480-410102/29	Lab Control Sample	Total/NA	Water	9060A	
LCS 480-410102/5	Lab Control Sample	Total/NA	Water	9060A	

- 1
- 2
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- 14
- 15

# Lab Chronicle

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

TestAmerica Job ID: 480-133988-1

## Client Sample ID: DEP-21-20180411

Lab Sample ID: 480-133988-1

Date Collected: 04/11/18 07:00

Matrix: Water

Date Received: 04/12/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409348	04/17/18 22:51	RRS	TAL BUF

## Client Sample ID: MW-264M-20180411

Lab Sample ID: 480-133988-2

Date Collected: 04/11/18 07:50

Matrix: Water

Date Received: 04/12/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409348	04/17/18 23:14	RRS	TAL BUF

## Client Sample ID: MW-265S-20180411

Lab Sample ID: 480-133988-3

Date Collected: 04/11/18 09:10

Matrix: Water

Date Received: 04/12/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409348	04/17/18 23:38	RRS	TAL BUF

## Client Sample ID: MW-265M-20180411

Lab Sample ID: 480-133988-4

Date Collected: 04/11/18 09:15

Matrix: Water

Date Received: 04/12/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	409348	04/18/18 00:02	RRS	TAL BUF
Total/NA	Prep	3535A			128409	04/12/18 13:25	AKH	TAL BUR
Total/NA	Analysis	522		1	128413	04/13/18 01:44	TPB	TAL BUR
Total/NA	Prep	3005A			408769	04/14/18 09:34	JAK	TAL BUF
Total/NA	Analysis	6010		1	409179	04/16/18 15:07	LMH	TAL BUF
Total/NA	Analysis	300.0		5	408864	04/14/18 22:58	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			409093	04/16/18 18:18	DCB	TAL BUF
Total/NA	Analysis	350.1		2	409125	04/16/18 22:00	DCB	TAL BUF
Total/NA	Analysis	353.2		1	408628	04/12/18 18:22	DCB	TAL BUF
Total/NA	Analysis	9040C		1	408532	04/12/18 13:15	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	410102	04/18/18 11:41	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	409772	04/19/18 11:55	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	408564	04/12/18 08:23	DSC	TAL BUF

## Client Sample ID: MW-265D-20180411

Lab Sample ID: 480-133988-5

Date Collected: 04/11/18 09:55

Matrix: Water

Date Received: 04/12/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409348	04/18/18 00:26	RRS	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

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

TestAmerica Job ID: 480-133988-1

## Client Sample ID: MW-266Ma-20180411

Lab Sample ID: 480-133988-6

Date Collected: 04/11/18 10:05

Matrix: Water

Date Received: 04/12/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409348	04/18/18 00:50	RRS	TAL BUF
Total/NA	Prep	3535A			128409	04/12/18 13:25	AKH	TAL BUR
Total/NA	Analysis	522		1	128413	04/13/18 01:59	TPB	TAL BUR

## Client Sample ID: MW-266Mb-20180411

Lab Sample ID: 480-133988-7

Date Collected: 04/11/18 09:20

Matrix: Water

Date Received: 04/12/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409348	04/18/18 01:13	RRS	TAL BUF

## Client Sample ID: MW-269Ma-20180411

Lab Sample ID: 480-133988-8

Date Collected: 04/11/18 10:15

Matrix: Water

Date Received: 04/12/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409348	04/18/18 01:37	RRS	TAL BUF
Total/NA	Prep	3535A			128409	04/12/18 13:25	AKH	TAL BUR
Total/NA	Analysis	522		1	128413	04/13/18 02:14	TPB	TAL BUR

## Client Sample ID: MW-561-20180411

Lab Sample ID: 480-133988-9

Date Collected: 04/11/18 08:30

Matrix: Water

Date Received: 04/12/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409348	04/18/18 02:00	RRS	TAL BUF
Total/NA	Prep	3005A			408769	04/14/18 09:34	JAK	TAL BUF
Total/NA	Analysis	6010		1	409179	04/16/18 15:10	LMH	TAL BUF
Total/NA	Analysis	300.0		5	408864	04/14/18 23:13	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			409848	04/19/18 16:36	DCB	TAL BUF
Total/NA	Analysis	350.1		1	410062	04/20/18 17:04	DCB	TAL BUF
Total/NA	Analysis	353.2		1	408628	04/12/18 22:47	DCB	TAL BUF
Total/NA	Analysis	9040C		1	408532	04/12/18 13:17	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	408957	04/14/18 19:08	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	409772	04/19/18 12:02	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	408564	04/12/18 08:23	DSC	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: MW-563-20180411**

**Lab Sample ID: 480-133988-10**

**Date Collected: 04/11/18 10:50**

**Matrix: Water**

**Date Received: 04/12/18 01:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409348	04/18/18 02:24	RRS	TAL BUF
Total/NA	Prep	3005A			408769	04/14/18 09:34	JAK	TAL BUF
Total/NA	Analysis	6010		1	409179	04/16/18 15:14	LMH	TAL BUF
Total/NA	Analysis	300.0		1	408869	04/14/18 14:53	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			408609	04/12/18 20:20	DCB	TAL BUF
Total/NA	Analysis	350.1		1	409125	04/16/18 21:09	DCB	TAL BUF
Total/NA	Analysis	353.2		1	408628	04/12/18 18:28	DCB	TAL BUF
Total/NA	Analysis	9040C		1	408532	04/12/18 13:20	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	410102	04/18/18 12:09	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	409772	04/19/18 12:08	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	408564	04/12/18 08:23	DSC	TAL BUF

**Client Sample ID: REW-1-20180411**

**Lab Sample ID: 480-133988-11**

**Date Collected: 04/11/18 12:20**

**Matrix: Water**

**Date Received: 04/12/18 01:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409348	04/18/18 02:47	RRS	TAL BUF
Total/NA	Prep	3005A			408769	04/14/18 09:34	JAK	TAL BUF
Total/NA	Analysis	6010		1	409179	04/16/18 15:17	LMH	TAL BUF
Total/NA	Analysis	300.0		2	408869	04/14/18 15:01	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			409364	04/17/18 16:09	DCB	TAL BUF
Total/NA	Analysis	350.1		1	409530	04/18/18 13:46	DCB	TAL BUF
Total/NA	Analysis	353.2		1	408628	04/12/18 18:29	DCB	TAL BUF
Total/NA	Analysis	9040C		1	408532	04/12/18 13:24	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	408957	04/14/18 20:03	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	409772	04/19/18 12:17	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	408564	04/12/18 08:23	DSC	TAL BUF

**Client Sample ID: REW-4-20180411**

**Lab Sample ID: 480-133988-12**

**Date Collected: 04/11/18 11:40**

**Matrix: Water**

**Date Received: 04/12/18 01:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409348	04/18/18 03:11	RRS	TAL BUF
Total/NA	Prep	3005A			408769	04/14/18 09:34	JAK	TAL BUF
Total/NA	Analysis	6010		1	409179	04/16/18 15:21	LMH	TAL BUF
Total/NA	Analysis	300.0		1	408869	04/14/18 15:09	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			409364	04/17/18 16:09	DCB	TAL BUF
Total/NA	Analysis	350.1		1	409530	04/18/18 13:47	DCB	TAL BUF
Total/NA	Analysis	353.2		1	408628	04/12/18 18:30	DCB	TAL BUF

TestAmerica Buffalo



# Lab Chronicle

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: REW-4-20180411**

**Lab Sample ID: 480-133988-12**

Date Collected: 04/11/18 11:40

Matrix: Water

Date Received: 04/12/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9040C		1	408532	04/12/18 13:26	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	408957	04/14/18 22:21	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	409772	04/19/18 12:24	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	408564	04/12/18 08:23	DSC	TAL BUF

**Client Sample ID: REW-5-20180411**

**Lab Sample ID: 480-133988-13**

Date Collected: 04/11/18 10:40

Matrix: Water

Date Received: 04/12/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409348	04/18/18 03:34	RRS	TAL BUF
Total/NA	Prep	3005A			408769	04/14/18 09:34	JAK	TAL BUF
Total/NA	Analysis	6010		1	409179	04/16/18 15:36	LMH	TAL BUF
Total/NA	Analysis	300.0		2	408869	04/14/18 15:17	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			409364	04/17/18 16:09	DCB	TAL BUF
Total/NA	Analysis	350.1		1	409530	04/18/18 13:48	DCB	TAL BUF
Total/NA	Analysis	353.2		1	408628	04/12/18 18:31	DCB	TAL BUF
Total/NA	Analysis	9040C		1	408532	04/12/18 13:30	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	408957	04/14/18 23:17	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	409772	04/19/18 12:30	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	408564	04/12/18 08:23	DSC	TAL BUF

**Client Sample ID: REW-8-20180411**

**Lab Sample ID: 480-133988-14**

Date Collected: 04/11/18 07:55

Matrix: Water

Date Received: 04/12/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409387	04/18/18 15:58	GSR	TAL BUF
Total/NA	Prep	3005A			408769	04/14/18 09:34	JAK	TAL BUF
Total/NA	Analysis	6010		1	409179	04/16/18 15:39	LMH	TAL BUF
Total/NA	Analysis	300.0		1	408869	04/14/18 15:25	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			409364	04/17/18 16:09	DCB	TAL BUF
Total/NA	Analysis	350.1		1	409530	04/18/18 13:48	DCB	TAL BUF
Total/NA	Analysis	353.2		1	408628	04/12/18 18:32	DCB	TAL BUF
Total/NA	Analysis	9040C		1	408831	04/13/18 16:55	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	408957	04/15/18 00:13	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	409772	04/19/18 12:37	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	408564	04/12/18 08:23	DSC	TAL BUF

# Lab Chronicle

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

TestAmerica Job ID: 480-133988-1

**Client Sample ID: REW-9-20180411**

**Lab Sample ID: 480-133988-15**

Date Collected: 04/11/18 08:40

Matrix: Water

Date Received: 04/12/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409598	04/19/18 01:38	RRS	TAL BUF
Total/NA	Prep	3005A			408769	04/14/18 09:34	JAK	TAL BUF
Total/NA	Analysis	6010		1	409179	04/16/18 15:43	LMH	TAL BUF
Total/NA	Analysis	300.0		1	408869	04/14/18 15:33	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			409364	04/17/18 16:09	DCB	TAL BUF
Total/NA	Analysis	350.1		1	409530	04/18/18 13:49	DCB	TAL BUF
Total/NA	Analysis	353.2		1	408628	04/12/18 18:33	DCB	TAL BUF
Total/NA	Analysis	9040C		1	408831	04/13/18 17:01	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	408957	04/15/18 00:41	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	409772	04/19/18 12:58	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	408564	04/12/18 08:23	DSC	TAL BUF

**Client Sample ID: REW-10-20180411**

**Lab Sample ID: 480-133988-16**

Date Collected: 04/11/18 09:25

Matrix: Water

Date Received: 04/12/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409598	04/19/18 02:02	RRS	TAL BUF
Total/NA	Prep	3005A			408769	04/14/18 09:34	JAK	TAL BUF
Total/NA	Analysis	6010		1	409179	04/16/18 15:47	LMH	TAL BUF
Total/NA	Analysis	300.0		1	408869	04/14/18 15:42	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			409364	04/17/18 16:09	DCB	TAL BUF
Total/NA	Analysis	350.1		1	409530	04/18/18 13:50	DCB	TAL BUF
Total/NA	Analysis	353.2		1	408628	04/12/18 18:35	DCB	TAL BUF
Total/NA	Analysis	9040C		1	408831	04/13/18 17:04	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	408957	04/15/18 01:09	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	409772	04/19/18 13:05	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	408564	04/12/18 08:23	DSC	TAL BUF

**Client Sample ID: REW-12-20180411**

**Lab Sample ID: 480-133988-17**

Date Collected: 04/11/18 11:05

Matrix: Water

Date Received: 04/12/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409631	04/19/18 11:50	AEM	TAL BUF
Total/NA	Prep	3005A			408769	04/14/18 09:34	JAK	TAL BUF
Total/NA	Analysis	6010		1	409179	04/16/18 15:50	LMH	TAL BUF
Total/NA	Analysis	300.0		2	408869	04/14/18 15:50	DMR	TAL BUF
Total/NA	Prep	Distill/Ammonia			409848	04/19/18 16:36	DCB	TAL BUF
Total/NA	Analysis	350.1		10	410073	04/20/18 18:50	DCB	TAL BUF
Total/NA	Analysis	353.2		1	408628	04/12/18 18:41	DCB	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

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

TestAmerica Job ID: 480-133988-1

## Client Sample ID: REW-12-20180411

Lab Sample ID: 480-133988-17

Date Collected: 04/11/18 11:05

Matrix: Water

Date Received: 04/12/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9040C		1	408831	04/13/18 17:08	ALZ	TAL BUF
Total/NA	Analysis	9060A		1	408957	04/15/18 03:01	EKB	TAL BUF
Total/NA	Analysis	SM 2320B		1	409772	04/19/18 13:13	ALZ	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	408564	04/12/18 08:23	DSC	TAL BUF

## Client Sample ID: DUP3-20180411

Lab Sample ID: 480-133988-18

Date Collected: 04/11/18 00:00

Matrix: Water

Date Received: 04/12/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409631	04/19/18 12:14	AEM	TAL BUF

## Client Sample ID: DUP4-20180411

Lab Sample ID: 480-133988-19

Date Collected: 04/11/18 00:00

Matrix: Water

Date Received: 04/12/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409387	04/18/18 16:21	GSR	TAL BUF
Total/NA	Prep	3535A			128409	04/12/18 13:25	AKH	TAL BUR
Total/NA	Analysis	522		1	128413	04/13/18 02:29	TPB	TAL BUR

## Client Sample ID: Trip Blanks

Lab Sample ID: 480-133988-20

Date Collected: 04/11/18 00:00

Matrix: Water

Date Received: 04/12/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	409598	04/19/18 03:12	RRS	TAL BUF

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

## Accreditation/Certification Summary

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

TestAmerica Job ID: 480-133988-1

### Laboratory: TestAmerica Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-18
California	State Program	9	2931	04-01-19
Connecticut	State Program	1	PH-0568	09-30-18
Florida	NELAP	4	E87672	06-30-18
Georgia	State Program	4	956	03-31-18 *
Illinois	NELAP	5	200003	09-30-18
Iowa	State Program	7	374	03-01-19
Kansas	NELAP	7	E-10187	01-31-19
Kentucky (DW)	State Program	4	90029	12-31-18
Kentucky (UST)	State Program	4	30	03-31-19
Kentucky (WW)	State Program	4	90029	12-31-18
Louisiana	NELAP	6	02031	06-30-18
Maine	State Program	1	NY00044	12-04-18
Maryland	State Program	3	294	03-31-19
Massachusetts	State Program	1	M-NY044	06-30-18
Michigan	State Program	5	9937	03-31-19
Minnesota	NELAP	5	036-999-337	12-31-18
New Hampshire	NELAP	1	2337	11-17-18
New Jersey	NELAP	2	NY455	06-30-18
New York	NELAP	2	10026	03-31-18 *
North Dakota	State Program	8	R-176	03-31-18 *
Oklahoma	State Program	6	9421	08-31-18
Oregon	NELAP	10	NY200003	06-09-18
Pennsylvania	NELAP	3	68-00281	07-31-18
Rhode Island	State Program	1	LAO00328	12-30-18
Tennessee	State Program	4	TN02970	03-31-19
Texas	NELAP	6	T104704412-15-6	07-31-18
USDA	Federal		P330-11-00386	02-06-21
Virginia	NELAP	3	460185	09-14-18
Washington	State Program	10	C784	02-10-19
Wisconsin	State Program	5	998310390	08-31-18

### Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
ANAB	DoD ELAP		L2336	02-25-20
Connecticut	State Program	1	PH-0751	09-30-19
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-01-19
Florida	NELAP	4	E87467	06-30-18
Maine	State Program	1	VT00008	04-17-19
Minnesota	NELAP	5	050-999-436	12-31-18
New Jersey	NELAP	2	VT972	06-30-18
New York	NELAP	2	10391	04-01-19
Pennsylvania	NELAP	3	68-00489	04-30-18 *
Rhode Island	State Program	1	LAO00298	12-30-18
US Fish & Wildlife	Federal		LE-058448-0	07-31-18
USDA	Federal		P330-11-00093	07-24-20
Vermont	State Program	1	VT-4000	12-31-18
Virginia	NELAP	3	460209	12-14-18

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Buffalo

# Method Summary

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

TestAmerica Job ID: 480-133988-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
522	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR
6010	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
9040C	pH	SW846	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 4500 P E	Orthophosphate	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3535A	Solid Phase Extraction (SPE)	SW846	TAL BUR
5030C	Purge and Trap	SW846	TAL BUF
Distill/Ammonia	Distillation, Ammonia	None	TAL BUF

**Protocol References:**

- EPA = US Environmental Protection Agency
- MA DEP = Massachusetts Department Of Environmental Protection
- MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
- None = None
- SM = "Standard Methods For The Examination Of Water And Wastewater"
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

- TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
- TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990



# Sample Summary

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

TestAmerica Job ID: 480-133988-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-133988-1	DEP-21-20180411	Water	04/11/18 07:00	04/12/18 01:00
480-133988-2	MW-264M-20180411	Water	04/11/18 07:50	04/12/18 01:00
480-133988-3	MW-265S-20180411	Water	04/11/18 09:10	04/12/18 01:00
480-133988-4	MW-265M-20180411	Water	04/11/18 09:15	04/12/18 01:00
480-133988-5	MW-265D-20180411	Water	04/11/18 09:55	04/12/18 01:00
480-133988-6	MW-266Ma-20180411	Water	04/11/18 10:05	04/12/18 01:00
480-133988-7	MW-266Mb-20180411	Water	04/11/18 09:20	04/12/18 01:00
480-133988-8	MW-269Ma-20180411	Water	04/11/18 10:15	04/12/18 01:00
480-133988-9	MW-561-20180411	Water	04/11/18 08:30	04/12/18 01:00
480-133988-10	MW-563-20180411	Water	04/11/18 10:50	04/12/18 01:00
480-133988-11	REW-1-20180411	Water	04/11/18 12:20	04/12/18 01:00
480-133988-12	REW-4-20180411	Water	04/11/18 11:40	04/12/18 01:00
480-133988-13	REW-5-20180411	Water	04/11/18 10:40	04/12/18 01:00
480-133988-14	REW-8-20180411	Water	04/11/18 07:55	04/12/18 01:00
480-133988-15	REW-9-20180411	Water	04/11/18 08:40	04/12/18 01:00
480-133988-16	REW-10-20180411	Water	04/11/18 09:25	04/12/18 01:00
480-133988-17	REW-12-20180411	Water	04/11/18 11:05	04/12/18 01:00
480-133988-18	DUP3-20180411	Water	04/11/18 00:00	04/12/18 01:00
480-133988-19	DUP4-20180411	Water	04/11/18 00:00	04/12/18 01:00
480-133988-20	Trip Blanks	Water	04/11/18 00:00	04/12/18 01:00

## Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-133988-1

**Login Number: 133988**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Kinecki, Kenneth P**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	IESI
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

## Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-133988-1

**Login Number: 133988**

**List Source: TestAmerica Burlington**

**List Number: 2**

**List Creation: 04/12/18 11:34 AM**

**Creator: Urbon, Sam A**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.



**TestAmerica Westfield**  
501 Southampton Road  
Westfield MA 01085  
Phone: (413) 572-4000 Fax: (303) 467-7247

**TestAmerica Boston**  
240 Bear Hill Road -- Suite 104  
Waltham MA 02451  
Phone: (781) 466-6900 Fax: (781) 466-6901

360325-Boston

### Chain of Custody Record

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

360325-Boston

<b>Client Information:</b>		Client Contact: <u>Vikki Pearson</u>		Sample Collector's Name (Please Print Neatly): <u>Debra Salsbery</u>		Lab COC Barcode Label: <u>40781</u>	
Company: <u>INNOVATIVE ENGINEERING SOLUTIONS INC</u>		Address: <u>85 Springs St</u>		City: <u>Wolpole</u>		Page: <u>1</u> of <u>2</u>	
State and Zip: <u>MA 02081</u>		Client's Phone: <u>508-678-0033</u>		Turnaround Time (TAT) Requested (business days): <u>5 dm</u>		Job #: <u>2</u>	
Client's Contact Email: <u>V.PEARSON@TESTONLINE.COM</u>		Client's Project Name/Number: <u>Radon at Workplaces RA-008</u>		Quote # or Project #: <u>RA-008</u>		Due Date Requested: <u>4/18/18</u>	
Sample Collection Site Name & Location: <u>Wolpole MA</u>		Sample Collection Date (MM/DD/YY)		Sample Collection Time (24 Hour Clock)		Sample Type: C=Comp G=Grab	
<b>Sample Identification</b>		Sample Collection Date		Sample Collection Time		Matrix Type **	
DEP-21-20180411		4/11/18		0700		G	
MW-264M-20180411		4/11/18		0750		G	
MW-265F-20180411		4/11/18		0910		G	
MW-265M-20180411		4/11/18		0915		G	
MW-265D-20180411		4/11/18		0955		G	
MW-266Ma-20180411		4/11/18		1005		G	
MW-266Mb-20180411		4/11/18		0920		G	
MW-268Ma-20180411		4/11/18		1615		G	
MW-561-20180411		4/11/18		0830		G	
MW-563-2018411		4/11/18		1050		G	
Possible Hazard Identification (please check off each that may apply):		<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	
		<input type="checkbox"/> W=Water		<input type="checkbox"/> O=Oil		<input type="checkbox"/> X=Waste (non-water)	
		<input type="checkbox"/> Z=Other:					
Relinquished by: <u>[Signature]</u>		Date/Time: <u>4/11/18 1335</u>		Company: <u>TEST</u>		Date/Time: <u>4/11/18 1400</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>4/11/18 1400</u>		Company: <u>[Signature]</u>		Date/Time: <u>4/11/18 0100</u>	
Relinquished by: <u>[Signature]</u>		Date/Time: <u>4/11/18 0100</u>		Company: <u>[Signature]</u>		Date/Time: <u>4/11/18 0100</u>	
Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:	
Δ Yes Δ No		Δ Yes Δ No		Δ Yes Δ No		Δ Yes Δ No	



**TestAmerica Westfield**  
 501 Southampton Road  
 Westfield MA 01085  
 Phone: (413) 572-4000 Fax: (303) 467-7247

**TestAmerica Boston**  
 240 Bear Hill Road - Suite 104  
 Waltham MA 02451  
 Phone: (781) 466-6900 Fax: (781) 466-6901

**Chain of Custody Record**

**TestAmerica**  
 THE LEADER IN ENVIRONMENTAL TESTING

**Client Information:**  
 Client Contact: Viggo Perinetti  
 Company: J Noninvasive Engineering Solutions Inc  
 Address: 23 Spring St Waltham  
 State and Zip: MA 02081  
 Client's Phone: 308-658-0033  
 Client's Contact Email: v.perinetti@jnoninvasive.com  
 Client's Project Name Number: RA-008  
 Sample Collection Site Name & Location: Waltham MA

**Sample Identification**

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Preservation Codes =>
REW-1 - 20180411	4/11/18	1220	G	W	A
REW-4 - 20180411	4/11/18	1140	G	W	N
REW-5 - 2018-0411	4/11/18	1040	G	W	D
REW-8 - 20180411	4/11/18	0755	G	W	N
REW-9 - 20180411	4/11/18	0840	G	W	N
REW-10 - 20180411	4/11/18	0925	G	W	N
Dup3 - 20180411	4/11/18	1105	G	W	N
Dup4 - 20180411	4/11/18	-	G	W	N
Trip Blanks	-	-	-	W	N

**Analysis Requested**

Analysis Requested	8260C	1,4 Dioxane	6010A TOC	9040C PH/3000-83D 903-C	3501 NH3	1010 MCP	Alkalinity	9390B	MS00-PC
	X	X	X	X	X	X	X	X	X

**Client Information:**  
 Lab COC Barcode Label: 40782  
 Page: 2 of 2  
 Job #:

**Preservation Codes:**  
 A - Hydrochloric Acid  
 B - Sodium Hydroxide  
 C - Zinc Acetate  
 D - Nitric Acid  
 E - Sodium Bisulfite  
 F - Methanol  
 H - Ascorbic Acid  
 J - Deionized Water  
 M - Hexane  
 N - No Preservative  
 P - Sodium Sulfate  
 Q - Sodium Sulfite  
 R - Sodium Thiosulfate  
 S - Sulfuric Acid  
 Z - other (specify)

**Regulatory Programs:**  
 MCP  GW/IS1   
 RCP  CT RSR   
 DEP Form  EDD Required   
 eDEP Filing  NPDES

**Special Instructions & Notes:**  
 SUBCONTRACT POLICY: Unless you provide in-advance to permit TestAmerica to use certified, subcontract labs, without specify which sub-contract labs are or are not to be used, we agree in to fulfill your work order.  
GW-3 Requirements

**Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):**  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

**NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!**

**Received by:**  
 Received by: To Test America Company  
 Received by: [Signature] Company  
 Received by: [Signature] Company  
 Cooler Temperature(s) °C and Other Remarks: 1.0, 1.8°C #4





**TestAmerica Westfield**  
501 Southampton Road  
Westfield MA 01085  
Phone: (413) 572-4000 Fax: (303) 467-7247

**TestAmerica Boston**  
240 Bear Hill Road -- Suite 104  
Waltham MA 02451  
Phone: (781) 466-6900 Fax: (781) 466-6901

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

**Chain of Custody Record**

**Client Information:**  
Client Contact: Viggo Perreault  
Company: INNOVATIVE ENGINEERING SOLUTIONS  
Address: 23 Spring St  
City: Waltham  
State and Zip: MA 02081  
Client's Phone: 508-658-0033  
Client's Contact Email: V.Perreault@IESolutions.com  
Client's Project Name/Number: Waltham Wastewater RA-008  
Sample Collection Site Name & Location: Waltham MA

**Sample Information:**  
Sample Collector's Name (Please Print Neatly): Dennis J. Perreault  
Sample Collector's Phone: 508-404-3194  
Lab POC: Walt  
E-Mail: Walt@testamerica.com

**Analysis Requested:**  
Turnaround Time (TAT) Requested (business days): 5 bus days  
Quote # or Project #: RA-008  
PO #: RA-008  
WO #:  
PWS ID #:

**Sample Identification**

Sample ID	Sample Collection Date (MM/DD/YYYY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Preservation Codes	Analysis Requested	Total Number of Containers (enter total for each line)	Special Instructions & Notes:
REW-1 - 20180411	4/11/18	1220	G	W		LO MCP Total 10	10	CW-3 Requirements
REW-4 - 20180411	4/11/18	1140	G	W		3501 NH3	10	
REW-5 - 2018-0411	4/11/18	1040	G	W		9090C PH/3003-930-930	10	
REW-8 - 20180411	4/11/18	0755	G	W		5010A TOC	10	
REW-9 - 20180411	4/11/18	0840	G	W		12 Dioxane	10	
REW-10 - 20180411	4/11/18	0935	G	W		13 Dioxane	10	
Dup3 - 20180411	4/11/18	1105	G	W			3	
DupH - 20180411	4/11/18	-	G	W			4	
Trip Blanks	-	-	-	W			2	

**Preservation Codes:**  
A - Hydrochloric Acid  
B - Sodium Hydroxide  
C - Zinc Acetate  
D - Nitric Acid  
E - Sodium Bisulfite  
F - Methanol  
H - Ascorbic Acid  
J - Deionized Water  
M - Hexane  
N - No Preservative  
P - Sodium Sulfate  
Q - Sodium Sulfite  
R - Sodium Thiosulfate  
S - Sulfuric Acid  
Z - other (specify)

**Regulatory Programs:**  
MCP  GW/ST   
RCP  CT RSR   
DEP Form  EDD Required   
eDEP Filing  NPDES

**Special Instructions & Notes:**  
SUBCONTRACT POLICY: advance to permit TestAmerica you provide instructions to the contrary, or subcontract labs, without specify which sub-contract any additional modification labs are or are not to be made by us, as necessary to fulfill your work order.

**Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):**  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

**NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!**

Relinquished by: [Signature] Date/Time: 4/11/18 1335 Company: TEST  
Relinquished by: [Signature] Date/Time: 4/11/18 1600 Company: TEST  
Relinquished by: [Signature] Date/Time: 4/11/18 1600 Company: TEST

Custody Seals Intact:  Yes  No  No #s  
Cooler Temperature(s) °C and Other Remarks: 1.9



ORIGIN ID:BXCA (781) 466-6900  
PAUL HOBART  
TESTAMERICA  
240 BEAR HILL ROAD  
SUITE 104  
WALTHAM, MA 02451  
UNITED STATES US

SHIP DATE: 11APR18  
ACTWGT: 29.85 LB  
CAD: 590687/CAFE3111

BILL RECEIPT

TO **SAMPLE RECEIVING**  
**TESTAMERICA BURLINGTON**  
**30 COMMUNITY DRIVE**  
**SUITE 11**  
**SOUTH BURLINGTON VT 05403**

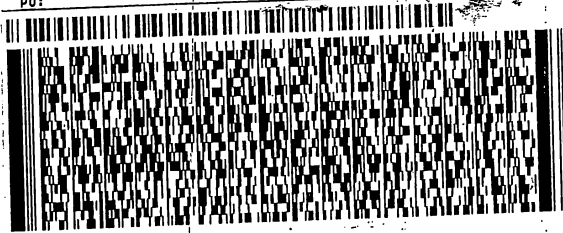
(802) 660-1990

INU:

PO:

REF:

DEPT:



**FedEx**  
Express



JT771016102001 14

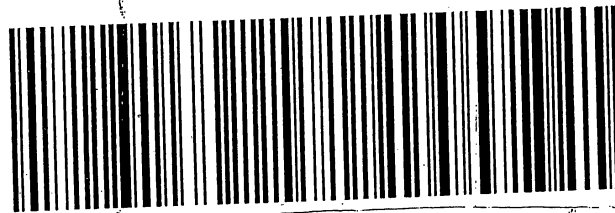
TRK# 4258 8393 0560

0201

THU - 12 APR 10:30A  
PRIORITY OVERNIGHT

**NC BTVA**

05403  
VT-US BTV



546C1/6132/33C

- 1
- 2
- 3
- 4
- 5
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