

**Environmental
Resources
Management**

One Beacon Street, 5th Floor
Boston, MA 02108
+1 617 646 7800
+1 617 267 6447 (fax)

<http://www.erm.com>



18 November 2014

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

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

Dear Mr. DeLuca:

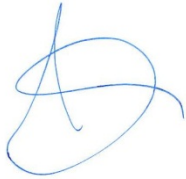
On behalf of Raytheon Company (Raytheon), Environmental Resources Management (ERM) is submitting the results of groundwater sample analyses related to the Former Raytheon Facility located at 430 Boston Post Road in Wayland, Massachusetts (Site). These results are submitted pursuant to 310 CMR 40.1403(10)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

Innovative Engineering Solutions, Inc. (IESI) collected 12 groundwater samples from wells on portions of the Site within the boundaries of your property from 13 July 2014 to 14 July 2014 and 29 samples from wells on portions of the Site within the boundaries of your property from 20 September 2014 to 23 September 2014. ERM collected 30 groundwater samples from wells on portions of the Site within the boundaries of your property from 4 September 2014 through 9 September 2014. Samples were submitted to TestAmerica Laboratories, Inc. of Westfield, Massachusetts, and Spectrum Analytical, Inc. of North Kingstown, RI. Analytical results are attached to this letter. These analytical data from the groundwater monitoring wells will be provided to the Massachusetts Department of Environmental Protection in the next MCP submittal.

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

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

Sincerely,



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



Lyndsey Colburn, P.G.
Project Manager

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

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



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

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

3 - 13302

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

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

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

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

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

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

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

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

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

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

(specify)

3. Description of property where sampling will be/has been conducted:
 residential commercial industrial school/playground Other _____
(specify)

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

Collection of groundwater samples from existing monitoring wells.

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

Contact Name: Louis J. Burkhardt
Street Address: 50 Apple Hill Drive
City/Town: Tewksbury Zip Code: 01876
Telephone: (978) 858-1885 Email: louis_j_burkhardt@raytheon.com



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

3 - 13302

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: 200-24102-1

Client Project/Site: IDS Wayland

For:

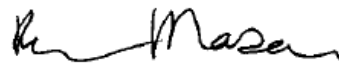
ERM-Northeast

One Beacon Steet

5th Floor

Boston, Massachusetts 02108

Attn: Lyndsey Colburn



Authorized for release by:

9/18/2014 1:25:16 PM

Becky Mason, Project Manager II

(413)572-4000

becky.mason@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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

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

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Case Narrative

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-24102-1

Job ID: 200-24102-1

Laboratory: TestAmerica Burlington

Narrative

Job Narrative
200-24102-1

Receipt

The samples were received on 9/10/2014 10:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8° 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.



Method Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-24102-1

Method	Method Description	Protocol	Laboratory
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

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: 200-24102-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-24102-1	MW-1034-20140909-01	Water	09/09/14 10:00	09/10/14 10:45
200-24102-2	MW-1020-20140909-01	Water	09/09/14 07:25	09/10/14 10:45
200-24102-3	MW-1025D-20140909-01	Water	09/09/14 07:45	09/10/14 10:45
200-24102-4	MW-1025M-20140909-01	Water	09/09/14 07:55	09/10/14 10:45
200-24102-5	MW-1033-20140909-01	Water	09/09/14 09:50	09/10/14 10:45
200-24102-6	MW-1022-20140909-01	Water	09/09/14 09:35	09/10/14 10:45
200-24102-7	MW-1023-20140909-01	Water	09/09/14 09:20	09/10/14 10:45
200-24102-8	MW-1011-20140909-01	Water	09/09/14 09:05	09/10/14 10:45
200-24102-9	MW-1024D-20140909-01	Water	09/09/14 08:20	09/10/14 10:45



Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-24102-1

Client Sample ID: MW-1034-20140909-01

Lab Sample ID: 200-24102-1

Date Collected: 09/09/14 10:00

Matrix: Water

Date Received: 09/10/14 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		09/12/14 08:33	09/14/14 17:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	93		70 - 130				09/12/14 08:33	09/14/14 17:09	1

Client Sample ID: MW-1020-20140909-01

Lab Sample ID: 200-24102-2

Date Collected: 09/09/14 07:25

Matrix: Water

Date Received: 09/10/14 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.23		0.20		ug/L		09/12/14 08:33	09/14/14 14:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	94		70 - 130				09/12/14 08:33	09/14/14 14:13	1

Client Sample ID: MW-1025D-20140909-01

Lab Sample ID: 200-24102-3

Date Collected: 09/09/14 07:45

Matrix: Water

Date Received: 09/10/14 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		09/12/14 08:33	09/14/14 14:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	72		70 - 130				09/12/14 08:33	09/14/14 14:29	1

Client Sample ID: MW-1025M-20140909-01

Lab Sample ID: 200-24102-4

Date Collected: 09/09/14 07:55

Matrix: Water

Date Received: 09/10/14 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.56		0.20		ug/L		09/12/14 08:33	09/14/14 14:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	82		70 - 130				09/12/14 08:33	09/14/14 14:45	1

Client Sample ID: MW-1033-20140909-01

Lab Sample ID: 200-24102-5

Date Collected: 09/09/14 09:50

Matrix: Water

Date Received: 09/10/14 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.50		0.20		ug/L		09/12/14 08:33	09/14/14 15:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	87		70 - 130				09/12/14 08:33	09/14/14 15:01	1

TestAmerica Burlington

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-24102-1

Client Sample ID: MW-1022-20140909-01

Lab Sample ID: 200-24102-6

Date Collected: 09/09/14 09:35

Matrix: Water

Date Received: 09/10/14 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		09/12/14 08:33	09/17/14 12:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	72		70 - 130				09/12/14 08:33	09/17/14 12:04	1

Client Sample ID: MW-1023-20140909-01

Lab Sample ID: 200-24102-7

Date Collected: 09/09/14 09:20

Matrix: Water

Date Received: 09/10/14 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		09/12/14 08:33	09/14/14 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	83		70 - 130				09/12/14 08:33	09/14/14 15:49	1

Client Sample ID: MW-1011-20140909-01

Lab Sample ID: 200-24102-8

Date Collected: 09/09/14 09:05

Matrix: Water

Date Received: 09/10/14 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.21		0.20		ug/L		09/12/14 08:33	09/14/14 16:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	89		70 - 130				09/12/14 08:33	09/14/14 16:05	1

Client Sample ID: MW-1024D-20140909-01

Lab Sample ID: 200-24102-9

Date Collected: 09/09/14 08:20

Matrix: Water

Date Received: 09/10/14 10:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		09/12/14 08:33	09/14/14 16:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	92		70 - 130				09/12/14 08:33	09/14/14 16:21	1

Definitions/Glossary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-24102-1

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-24102-1

GC/MS Semi VOA

Prep Batch: 77153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-24102-1	MW-1034-20140909-01	Total/NA	Water	3535A	
200-24102-2	MW-1020-20140909-01	Total/NA	Water	3535A	
200-24102-3	MW-1025D-20140909-01	Total/NA	Water	3535A	
200-24102-4	MW-1025M-20140909-01	Total/NA	Water	3535A	
200-24102-5	MW-1033-20140909-01	Total/NA	Water	3535A	
200-24102-6	MW-1022-20140909-01	Total/NA	Water	3535A	
200-24102-7	MW-1023-20140909-01	Total/NA	Water	3535A	
200-24102-8	MW-1011-20140909-01	Total/NA	Water	3535A	
200-24102-9	MW-1024D-20140909-01	Total/NA	Water	3535A	
LCS 200-77153/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-77153/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 77216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-24102-1	MW-1034-20140909-01	Total/NA	Water	522 MOD	77153
200-24102-2	MW-1020-20140909-01	Total/NA	Water	522 MOD	77153
200-24102-3	MW-1025D-20140909-01	Total/NA	Water	522 MOD	77153
200-24102-4	MW-1025M-20140909-01	Total/NA	Water	522 MOD	77153
200-24102-5	MW-1033-20140909-01	Total/NA	Water	522 MOD	77153
200-24102-7	MW-1023-20140909-01	Total/NA	Water	522 MOD	77153
200-24102-8	MW-1011-20140909-01	Total/NA	Water	522 MOD	77153
200-24102-9	MW-1024D-20140909-01	Total/NA	Water	522 MOD	77153
LCS 200-77153/2-A	Lab Control Sample	Total/NA	Water	522 MOD	77153
MB 200-77153/1-A	Method Blank	Total/NA	Water	522 MOD	77153

Analysis Batch: 77367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-24102-6	MW-1022-20140909-01	Total/NA	Water	522 MOD	77153

Surrogate Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-24102-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	14DD8 (70-130)
200-24102-1	MW-1034-20140909-01	93
200-24102-2	MW-1020-20140909-01	94
200-24102-3	MW-1025D-20140909-01	72
200-24102-4	MW-1025M-20140909-01	82
200-24102-5	MW-1033-20140909-01	87
200-24102-6	MW-1022-20140909-01	72
200-24102-7	MW-1023-20140909-01	83
200-24102-8	MW-1011-20140909-01	89
200-24102-9	MW-1024D-20140909-01	92
LCS 200-77153/2-A	Lab Control Sample	83
MB 200-77153/1-A	Method Blank	93

Surrogate Legend

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

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-24102-1

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

Lab Sample ID: MB 200-77153/1-A

Matrix: Water

Analysis Batch: 77216

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 77153

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		09/12/14 08:33	09/14/14 13:41	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	93		70 - 130				09/12/14 08:33	09/14/14 13:41	1

Lab Sample ID: LCS 200-77153/2-A

Matrix: Water

Analysis Batch: 77216

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 77153

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	8.00	7.63		ug/L		95	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	83		70 - 130				

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

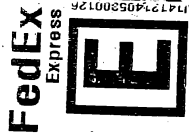
SHIP DATE: 09SEP14
ACTWGT: 25.4 LB
CAD: 590687/CAFE2805

BILL RECIPIENT

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

(802) 660-1890 REF:
YUN:
PO:

DEPT:

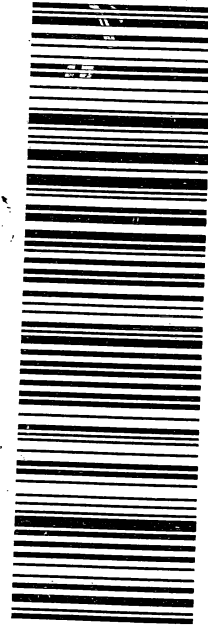


WED - 10 SEP AA
STANDARD OVERNIGHT

2 of 3
MPS# 4258 8387 9535
0263
Mstr# 4258 8387 9524

EK BTVA

05403
VT - US BTV



Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 200-24102-1

Login Number: 24102

List Source: TestAmerica Burlington

List Number: 1

Creator: Atherton, Joel E

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
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	1.8°C IR GUN 181 CF= -0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 200-24102-1

Login Number: 24102

List Source: TestAmerica Burlington

List Number: 2

Creator: Atherton, Joel E

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

Certification Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-24102-1

Laboratory: TestAmerica Burlington

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-15
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-15
L-A-B	DoD ELAP		L2336	02-26-17
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-14
New Hampshire	NELAP	1	2006	12-18-14
New Jersey	NELAP	2	VT972	06-30-15
New York	NELAP	2	10391	03-31-15
Pennsylvania	NELAP	3	68-00489	04-30-15
Rhode Island	State Program	1	LAO00298	12-30-14
US Fish & Wildlife	Federal		LE-058448-0	02-28-15
USDA	Federal		P330-11-00093	10-28-16
Vermont	State Program	1	VT-4000	12-31-14
Virginia	NELAP	3	460209	12-14-14

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-15
California	State Program	9	1169CA	09-30-14 *
Connecticut	State Program	1	PH-0568	09-30-14 *
Florida	NELAP	4	E87672	06-30-15
Georgia	State Program	4	N/A	03-31-15
Georgia	State Program	4	956	03-31-15
Illinois	NELAP	5	200003	09-30-14 *
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	01-31-15
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	03-31-15
Louisiana	NELAP	6	02031	06-30-14 *
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-15
Massachusetts	State Program	1	M-NY044	06-30-15
Michigan	State Program	5	9937	03-31-15
Minnesota	NELAP	5	036-999-337	12-31-14
New Hampshire	NELAP	1	2337	11-17-14
New Jersey	NELAP	2	NY455	06-30-15
New York	NELAP	2	10026	03-31-15
North Dakota	State Program	8	R-176	03-31-14 *
Oklahoma	State Program	6	9421	08-31-15
Oregon	NELAP	10	NY200003	06-09-15
Pennsylvania	NELAP	3	68-00281	07-31-15
Rhode Island	State Program	1	LAO00328	12-30-14
Tennessee	State Program	4	TN02970	03-31-15
Texas	NELAP	6	T104704412-11-2	07-31-15
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-15
Washington	State Program	10	C784	02-10-15

* Certification renewal pending - certification considered valid.

TestAmerica Burlington

Certification Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-24102-1

Laboratory: TestAmerica Buffalo (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
West Virginia DEP	State Program	3	252	09-30-14 *
Wisconsin	State Program	5	998310390	08-31-15

* Certification renewal pending - certification considered valid.



Definitions/Glossary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-24102-1

Glossary

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

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-24102-1

Client Sample ID: MW-1034-20140909-01

Lab Sample ID: 200-24102-1

No Detections.

Client Sample ID: MW-1020-20140909-01

Lab Sample ID: 200-24102-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.23		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-1025D-20140909-01

Lab Sample ID: 200-24102-3

No Detections.

Client Sample ID: MW-1025M-20140909-01

Lab Sample ID: 200-24102-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.56		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-1033-20140909-01

Lab Sample ID: 200-24102-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.50		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-1022-20140909-01

Lab Sample ID: 200-24102-6

No Detections.

Client Sample ID: MW-1023-20140909-01

Lab Sample ID: 200-24102-7

No Detections.

Client Sample ID: MW-1011-20140909-01

Lab Sample ID: 200-24102-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.21		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-1024D-20140909-01

Lab Sample ID: 200-24102-9

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Surrogate Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-24102-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	14DD8 (70-130)
200-24102-1	MW-1034-20140909-01	93
200-24102-2	MW-1020-20140909-01	94
200-24102-3	MW-1025D-20140909-01	72
200-24102-4	MW-1025M-20140909-01	82
200-24102-5	MW-1033-20140909-01	87
200-24102-6	MW-1022-20140909-01	72
200-24102-7	MW-1023-20140909-01	83
200-24102-8	MW-1011-20140909-01	89
200-24102-9	MW-1024D-20140909-01	92
LCS 200-77153/2-A	Lab Control Sample	83
MB 200-77153/1-A	Method Blank	93

Surrogate Legend

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

QC Association Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-24102-1

GC/MS Semi VOA

Prep Batch: 77153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-24102-1	MW-1034-20140909-01	Total/NA	Water	3535A	
200-24102-2	MW-1020-20140909-01	Total/NA	Water	3535A	
200-24102-3	MW-1025D-20140909-01	Total/NA	Water	3535A	
200-24102-4	MW-1025M-20140909-01	Total/NA	Water	3535A	
200-24102-5	MW-1033-20140909-01	Total/NA	Water	3535A	
200-24102-6	MW-1022-20140909-01	Total/NA	Water	3535A	
200-24102-7	MW-1023-20140909-01	Total/NA	Water	3535A	
200-24102-8	MW-1011-20140909-01	Total/NA	Water	3535A	
200-24102-9	MW-1024D-20140909-01	Total/NA	Water	3535A	
LCS 200-77153/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-77153/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 77216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-24102-1	MW-1034-20140909-01	Total/NA	Water	522 MOD	77153
200-24102-2	MW-1020-20140909-01	Total/NA	Water	522 MOD	77153
200-24102-3	MW-1025D-20140909-01	Total/NA	Water	522 MOD	77153
200-24102-4	MW-1025M-20140909-01	Total/NA	Water	522 MOD	77153
200-24102-5	MW-1033-20140909-01	Total/NA	Water	522 MOD	77153
200-24102-7	MW-1023-20140909-01	Total/NA	Water	522 MOD	77153
200-24102-8	MW-1011-20140909-01	Total/NA	Water	522 MOD	77153
200-24102-9	MW-1024D-20140909-01	Total/NA	Water	522 MOD	77153
LCS 200-77153/2-A	Lab Control Sample	Total/NA	Water	522 MOD	77153
MB 200-77153/1-A	Method Blank	Total/NA	Water	522 MOD	77153

Analysis Batch: 77367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-24102-6	MW-1022-20140909-01	Total/NA	Water	522 MOD	77153

Certification Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-24102-1

Laboratory: TestAmerica Burlington

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-15
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-15
L-A-B	DoD ELAP		L2336	02-26-17
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-14
New Hampshire	NELAP	1	2006	12-18-14
New Jersey	NELAP	2	VT972	06-30-15
New York	NELAP	2	10391	03-31-15
Pennsylvania	NELAP	3	68-00489	04-30-15
Rhode Island	State Program	1	LAO00298	12-30-14
US Fish & Wildlife	Federal		LE-058448-0	02-28-15
USDA	Federal		P330-11-00093	10-28-16
Vermont	State Program	1	VT-4000	12-31-14
Virginia	NELAP	3	460209	12-14-14

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-15
California	State Program	9	1169CA	09-30-14 *
Connecticut	State Program	1	PH-0568	09-30-14 *
Florida	NELAP	4	E87672	06-30-15
Georgia	State Program	4	N/A	03-31-15
Georgia	State Program	4	956	03-31-15
Illinois	NELAP	5	200003	09-30-14 *
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	01-31-15
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	03-31-15
Louisiana	NELAP	6	02031	06-30-14 *
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-15
Massachusetts	State Program	1	M-NY044	06-30-15
Michigan	State Program	5	9937	03-31-15
Minnesota	NELAP	5	036-999-337	12-31-14
New Hampshire	NELAP	1	2337	11-17-14
New Jersey	NELAP	2	NY455	06-30-15
New York	NELAP	2	10026	03-31-15
North Dakota	State Program	8	R-176	03-31-14 *
Oklahoma	State Program	6	9421	08-31-15
Oregon	NELAP	10	NY200003	06-09-15
Pennsylvania	NELAP	3	68-00281	07-31-15
Rhode Island	State Program	1	LAO00328	12-30-14
Tennessee	State Program	4	TN02970	03-31-15
Texas	NELAP	6	T104704412-11-2	07-31-15
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-15
Washington	State Program	10	C784	02-10-15

* Certification renewal pending - certification considered valid.

TestAmerica Burlington

Certification Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-24102-1

Laboratory: TestAmerica Buffalo (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
West Virginia DEP	State Program	3	252	09-30-14 *
Wisconsin	State Program	5	998310390	08-31-15

* Certification renewal pending - certification considered valid.



Method Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 200-24102-1

Method	Method Description	Protocol	Laboratory
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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



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: 480-63716-1

Client Project/Site: IDS Wayland

For:

Innovative Engineering Solutions, Inc

25 Spring Street

Walpole, Massachusetts 02081

Attn: Vicki Pariyar



Authorized for release by:

7/23/2014 2:55:21 PM

Rich Emerich, Analyst V

rich.emerich@testamericainc.com

Designee for

Becky Mason, Project Manager II

(413)572-4000

becky.mason@testamericainc.com

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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: 480-63716-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

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

Case Narrative

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

TestAmerica Job ID: 480-63716-1

Job ID: 480-63716-1

Laboratory: TestAmerica Buffalo

Narrative

Comments

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.

Receipt

The samples were received on 7/15/2014 at 1:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2° C.

Receipt Exceptions

Some container labels did not match the information for the samples as provided on the Chain of Custody (COC) form. The container labels lists MW-553-20140713 and REW-6-20140714 respectively, while the COC lists MW-561 553-20140713 and REW-12-20140714 respectively. Both samples were logged in pursuant to the information as given on the COC and sample REW-12 (COC) was matched by sample time listed on the bottle labels (matches that of the COC).

GC/MS VOA

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

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-267M-20140713 (480-63716-2), MW-267S-20140713 (480-63716-1), MW-561 553-20140713 (480-63716-5), DUP-20140714 (480-63716-13), MW-268M-20140713 (480-63716-3), MW-560-20140713 (480-63716-4), MW-561-20140713 (480-63716-6), REW-11-20140714 (480-63716-11), REW-12-20140714 (480-63716-12), REW-6-20140714 (480-63716-7) and REW-7-20140714 (480-63716-8). Elevated reporting limits (RLs) are provided.

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batches 193870, 193534 and 193729 exceeded control limits for the following analytes: 2-Butanone and 2-Hexanone. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate and N-butyl Acetate, respectively, in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample.

Method 8260C: The method blank for batch 193870 contained Carbon Disulfide 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.

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 #: **480-63716**

Project Location: **IDS Wayland** RTN:

This form provides certifications for the data set for the following Laboratory Sample ID Number(s):
480-63716 [1-13]

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

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

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


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

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

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

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

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

Signature:  Position: Technical Director, TestAmerica Westfield
 Printed Name: Richard Emerich Date: 7/23/14 14:51
 This form has been electronically signed and approved.

Detection Summary

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: MW-267S-20140713

Lab Sample ID: 480-63716-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	120	*	50	6.6	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	340		5.0	4.1	ug/L	5		8260C	Total/NA
m-Xylene & p-Xylene	7.4	J	10	3.3	ug/L	5		8260C	Total/NA
Toluene	340		5.0	2.6	ug/L	5		8260C	Total/NA
Vinyl chloride	14		5.0	4.5	ug/L	5		8260C	Total/NA

Client Sample ID: MW-267M-20140713

Lab Sample ID: 480-63716-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	190	*	50	6.6	ug/L	5		8260C	Total/NA
Acetone	43	J	250	15	ug/L	5		8260C	Total/NA
Carbon disulfide	2.3	J B	50	0.95	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	340		5.0	4.1	ug/L	5		8260C	Total/NA
Methylene Chloride	2.4	J	5.0	2.2	ug/L	5		8260C	Total/NA
m-Xylene & p-Xylene	3.9	J	10	3.3	ug/L	5		8260C	Total/NA
Toluene	74		5.0	2.6	ug/L	5		8260C	Total/NA
Vinyl chloride	44		5.0	4.5	ug/L	5		8260C	Total/NA

Client Sample ID: MW-268M-20140713

Lab Sample ID: 480-63716-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	68		40	18	ug/L	40		8260C	Total/NA
Vinyl chloride	260		40	36	ug/L	40		8260C	Total/NA
cis-1,2-Dichloroethene - DL	3600		80	65	ug/L	80		8260C	Total/NA

Client Sample ID: MW-560-20140713

Lab Sample ID: 480-63716-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	370		40	5.3	ug/L	4		8260C	Total/NA
Acetone	65	J	200	12	ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	76		4.0	3.2	ug/L	4		8260C	Total/NA
m-Xylene & p-Xylene	4.4	J	8.0	2.6	ug/L	4		8260C	Total/NA
Toluene	54		4.0	2.0	ug/L	4		8260C	Total/NA
Vinyl chloride	80		4.0	3.6	ug/L	4		8260C	Total/NA

Client Sample ID: MW-561 553-20140713

Lab Sample ID: 480-63716-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.65	J	1.0	0.38	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	150		10	1.3	ug/L	1		8260C	Total/NA
Acetone	130		50	3.0	ug/L	1		8260C	Total/NA
Benzene	1.1		1.0	0.41	ug/L	1		8260C	Total/NA
Chloroethane	0.53	J *	2.0	0.32	ug/L	1		8260C	Total/NA
Ethylbenzene	1.4		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	6.3		2.0	0.66	ug/L	1		8260C	Total/NA
o-Xylene	1.5		1.0	0.76	ug/L	1		8260C	Total/NA
Toluene	40		1.0	0.51	ug/L	1		8260C	Total/NA
Vinyl chloride	71		1.0	0.90	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	160		2.0	1.6	ug/L	2		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: 480-63716-1

Client Sample ID: MW-561-20140713

Lab Sample ID: 480-63716-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	140		100	13	ug/L	10		8260C	Total/NA
Acetone	280	J	500	30	ug/L	10		8260C	Total/NA
m-Xylene & p-Xylene	25		20	6.6	ug/L	10		8260C	Total/NA
Toluene	460		10	5.1	ug/L	10		8260C	Total/NA
Vinyl chloride	54		10	9.0	ug/L	10		8260C	Total/NA

Client Sample ID: REW-6-20140714

Lab Sample ID: 480-63716-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	80		50	6.6	ug/L	5		8260C	Total/NA
Acetone	26	J	250	15	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	390		5.0	4.1	ug/L	5		8260C	Total/NA
m-Xylene & p-Xylene	5.9	J	10	3.3	ug/L	5		8260C	Total/NA
Toluene	140		5.0	2.6	ug/L	5		8260C	Total/NA
Trichloroethene	37		5.0	2.3	ug/L	5		8260C	Total/NA
Vinyl chloride	22		5.0	4.5	ug/L	5		8260C	Total/NA

Client Sample ID: REW-7-20140714

Lab Sample ID: 480-63716-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	31	J	100	13	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	470		10	8.1	ug/L	10		8260C	Total/NA
Toluene	30		10	5.1	ug/L	10		8260C	Total/NA
Trichloroethene	41		10	4.6	ug/L	10		8260C	Total/NA
Vinyl chloride	90		10	9.0	ug/L	10		8260C	Total/NA

Client Sample ID: REW-8-20140714

Lab Sample ID: 480-63716-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.74	J	1.0	0.38	ug/L	1		8260C	Total/NA
2-Butanone (MEK)	89		10	1.3	ug/L	1		8260C	Total/NA
Acetone	70		50	3.0	ug/L	1		8260C	Total/NA
Benzene	0.53	J	1.0	0.41	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	79		1.0	0.81	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	1.5	J	2.0	0.66	ug/L	1		8260C	Total/NA
Toluene	19		1.0	0.51	ug/L	1		8260C	Total/NA
Trichloroethene	5.2		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	42		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: REW-9-20140714

Lab Sample ID: 480-63716-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	88		10	1.3	ug/L	1		8260C	Total/NA
Acetone	17	J	50	3.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	58		1.0	0.81	ug/L	1		8260C	Total/NA
Ethylbenzene	1.1		1.0	0.74	ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	4.5		2.0	0.66	ug/L	1		8260C	Total/NA
o-Xylene	1.0		1.0	0.76	ug/L	1		8260C	Total/NA
Toluene	58		1.0	0.51	ug/L	1		8260C	Total/NA
Vinyl chloride	30		1.0	0.90	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: 480-63716-1

Client Sample ID: REW-11-20140714

Lab Sample ID: 480-63716-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1800		25	20	ug/L	25		8260C	Total/NA
Tetrachloroethene	15	J	25	9.0	ug/L	25		8260C	Total/NA
Trichloroethene	500		25	12	ug/L	25		8260C	Total/NA
Vinyl chloride	140		25	23	ug/L	25		8260C	Total/NA

Client Sample ID: REW-12-20140714

Lab Sample ID: 480-63716-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.5	J	4.0	1.5	ug/L	4		8260C	Total/NA
2-Butanone (MEK)	16	J	40	5.3	ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	290		4.0	3.2	ug/L	4		8260C	Total/NA
Tetrachloroethene	3.1	J	4.0	1.4	ug/L	4		8260C	Total/NA
Toluene	39		4.0	2.0	ug/L	4		8260C	Total/NA
Trichloroethene	59		4.0	1.8	ug/L	4		8260C	Total/NA
Vinyl chloride	52		4.0	3.6	ug/L	4		8260C	Total/NA

Client Sample ID: DUP-20140714

Lab Sample ID: 480-63716-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1600		20	16	ug/L	20		8260C	Total/NA
Trichloroethene	450		20	9.2	ug/L	20		8260C	Total/NA
Vinyl chloride	130		20	18	ug/L	20		8260C	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 480-63716-14

No Detections.

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: MW-267S-20140713

Lab Sample ID: 480-63716-1

Date Collected: 07/13/14 12:25

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.8	ug/L			07/19/14 15:54	5
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			07/19/14 15:54	5
1,1,2,2-Tetrachloroethane	ND		2.5	1.1	ug/L			07/19/14 15:54	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/19/14 15:54	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			07/19/14 15:54	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			07/19/14 15:54	5
1,1-Dichloropropene	ND		5.0	3.6	ug/L			07/19/14 15:54	5
1,2,3-Trichlorobenzene	ND		5.0	2.1	ug/L			07/19/14 15:54	5
1,2,3-Trichloropropane	ND		5.0	4.5	ug/L			07/19/14 15:54	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			07/19/14 15:54	5
1,2,4-Trimethylbenzene	ND		5.0	3.8	ug/L			07/19/14 15:54	5
1,2-Dibromo-3-Chloropropane	ND		25	2.0	ug/L			07/19/14 15:54	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			07/19/14 15:54	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			07/19/14 15:54	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			07/19/14 15:54	5
1,3,5-Trimethylbenzene	ND		5.0	3.9	ug/L			07/19/14 15:54	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			07/19/14 15:54	5
1,3-Dichloropropane	ND		5.0	3.8	ug/L			07/19/14 15:54	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			07/19/14 15:54	5
1,4-Dioxane	ND		250	47	ug/L			07/19/14 15:54	5
2,2-Dichloropropane	ND		5.0	2.0	ug/L			07/19/14 15:54	5
2-Butanone (MEK)	120	*	50	6.6	ug/L			07/19/14 15:54	5
2-Chlorotoluene	ND		5.0	4.3	ug/L			07/19/14 15:54	5
2-Hexanone	ND	*	50	6.2	ug/L			07/19/14 15:54	5
4-Chlorotoluene	ND		5.0	4.2	ug/L			07/19/14 15:54	5
4-Isopropyltoluene	ND		5.0	1.6	ug/L			07/19/14 15:54	5
4-Methyl-2-pentanone (MIBK)	ND		50	11	ug/L			07/19/14 15:54	5
Acetone	ND		250	15	ug/L			07/19/14 15:54	5
Benzene	ND		5.0	2.1	ug/L			07/19/14 15:54	5
Bromobenzene	ND		5.0	4.0	ug/L			07/19/14 15:54	5
Bromoform	ND		5.0	1.3	ug/L			07/19/14 15:54	5
Bromomethane	ND		10	3.5	ug/L			07/19/14 15:54	5
Carbon disulfide	ND		50	0.95	ug/L			07/19/14 15:54	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			07/19/14 15:54	5
Chlorobenzene	ND		5.0	3.8	ug/L			07/19/14 15:54	5
Chlorobromomethane	ND		5.0	4.4	ug/L			07/19/14 15:54	5
Chlorodibromomethane	ND		2.5	1.6	ug/L			07/19/14 15:54	5
Chloroethane	ND		10	1.6	ug/L			07/19/14 15:54	5
Chloroform	ND		5.0	1.7	ug/L			07/19/14 15:54	5
Chloromethane	ND		10	1.8	ug/L			07/19/14 15:54	5
cis-1,2-Dichloroethene	340		5.0	4.1	ug/L			07/19/14 15:54	5
cis-1,3-Dichloropropene	ND		2.0	1.8	ug/L			07/19/14 15:54	5
Dichlorobromomethane	ND		2.5	2.0	ug/L			07/19/14 15:54	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			07/19/14 15:54	5
Ethyl ether	ND		5.0	3.6	ug/L			07/19/14 15:54	5
Ethylbenzene	ND		5.0	3.7	ug/L			07/19/14 15:54	5
Ethylene Dibromide	ND		5.0	3.7	ug/L			07/19/14 15:54	5
Hexachlorobutadiene	ND		2.0	1.4	ug/L			07/19/14 15:54	5
Isopropyl ether	ND		50	3.0	ug/L			07/19/14 15:54	5

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: MW-267S-20140713

Lab Sample ID: 480-63716-1

Date Collected: 07/13/14 12:25

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		5.0	4.0	ug/L			07/19/14 15:54	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			07/19/14 15:54	5
Methylene Chloride	ND		5.0	2.2	ug/L			07/19/14 15:54	5
m-Xylene & p-Xylene	7.4	J	10	3.3	ug/L			07/19/14 15:54	5
Naphthalene	ND		25	2.2	ug/L			07/19/14 15:54	5
n-Butylbenzene	ND		5.0	3.2	ug/L			07/19/14 15:54	5
N-Propylbenzene	ND		5.0	3.5	ug/L			07/19/14 15:54	5
o-Xylene	ND		5.0	3.8	ug/L			07/19/14 15:54	5
sec-Butylbenzene	ND		5.0	3.8	ug/L			07/19/14 15:54	5
Styrene	ND		5.0	3.7	ug/L			07/19/14 15:54	5
Tert-amyl methyl ether	ND		25	1.4	ug/L			07/19/14 15:54	5
Tert-butyl ethyl ether	ND		25	1.5	ug/L			07/19/14 15:54	5
tert-Butylbenzene	ND		5.0	4.1	ug/L			07/19/14 15:54	5
Tetrachloroethene	ND		5.0	1.8	ug/L			07/19/14 15:54	5
Tetrahydrofuran	ND		50	6.3	ug/L			07/19/14 15:54	5
Toluene	340		5.0	2.6	ug/L			07/19/14 15:54	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			07/19/14 15:54	5
trans-1,3-Dichloropropene	ND		2.0	1.9	ug/L			07/19/14 15:54	5
Trichloroethene	ND		5.0	2.3	ug/L			07/19/14 15:54	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			07/19/14 15:54	5
Vinyl chloride	14		5.0	4.5	ug/L			07/19/14 15:54	5
Dibromomethane	ND		5.0	2.1	ug/L			07/19/14 15:54	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	94		70 - 130		07/19/14 15:54	5
<i>1,2-Dichloroethane-d4 (Surr)</i>	88		70 - 130		07/19/14 15:54	5
<i>4-Bromofluorobenzene (Surr)</i>	98		70 - 130		07/19/14 15:54	5

Client Sample ID: MW-267M-20140713

Lab Sample ID: 480-63716-2

Date Collected: 07/13/14 16:40

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.8	ug/L			07/21/14 13:43	5
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			07/21/14 13:43	5
1,1,1,2,2-Tetrachloroethane	ND		2.5	1.1	ug/L			07/21/14 13:43	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/21/14 13:43	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			07/21/14 13:43	5
1,1-Dichloroethane	ND		5.0	1.5	ug/L			07/21/14 13:43	5
1,1-Dichloropropene	ND		5.0	3.6	ug/L			07/21/14 13:43	5
1,2,3-Trichlorobenzene	ND		5.0	2.1	ug/L			07/21/14 13:43	5
1,2,3-Trichloropropane	ND		5.0	4.5	ug/L			07/21/14 13:43	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			07/21/14 13:43	5
1,2,4-Trimethylbenzene	ND		5.0	3.8	ug/L			07/21/14 13:43	5
1,2-Dibromo-3-Chloropropane	ND		25	2.0	ug/L			07/21/14 13:43	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			07/21/14 13:43	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			07/21/14 13:43	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			07/21/14 13:43	5
1,3,5-Trimethylbenzene	ND		5.0	3.9	ug/L			07/21/14 13:43	5

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: MW-267M-20140713

Lab Sample ID: 480-63716-2

Date Collected: 07/13/14 16:40

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			07/21/14 13:43	5
1,3-Dichloropropane	ND		5.0	3.8	ug/L			07/21/14 13:43	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			07/21/14 13:43	5
1,4-Dioxane	ND		250	47	ug/L			07/21/14 13:43	5
2,2-Dichloropropane	ND		5.0	2.0	ug/L			07/21/14 13:43	5
2-Butanone (MEK)	190	*	50	6.6	ug/L			07/21/14 13:43	5
2-Chlorotoluene	ND		5.0	4.3	ug/L			07/21/14 13:43	5
2-Hexanone	ND	*	50	6.2	ug/L			07/21/14 13:43	5
4-Chlorotoluene	ND		5.0	4.2	ug/L			07/21/14 13:43	5
4-Isopropyltoluene	ND		5.0	1.6	ug/L			07/21/14 13:43	5
4-Methyl-2-pentanone (MIBK)	ND		50	11	ug/L			07/21/14 13:43	5
Acetone	43	J	250	15	ug/L			07/21/14 13:43	5
Benzene	ND		5.0	2.1	ug/L			07/21/14 13:43	5
Bromobenzene	ND		5.0	4.0	ug/L			07/21/14 13:43	5
Bromoform	ND		5.0	1.3	ug/L			07/21/14 13:43	5
Bromomethane	ND		10	3.5	ug/L			07/21/14 13:43	5
Carbon disulfide	2.3	J B	50	0.95	ug/L			07/21/14 13:43	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			07/21/14 13:43	5
Chlorobenzene	ND		5.0	3.8	ug/L			07/21/14 13:43	5
Chlorobromomethane	ND		5.0	4.4	ug/L			07/21/14 13:43	5
Chlorodibromomethane	ND		2.5	1.6	ug/L			07/21/14 13:43	5
Chloroethane	ND		10	1.6	ug/L			07/21/14 13:43	5
Chloroform	ND		5.0	1.7	ug/L			07/21/14 13:43	5
Chloromethane	ND		10	1.8	ug/L			07/21/14 13:43	5
cis-1,2-Dichloroethene	340		5.0	4.1	ug/L			07/21/14 13:43	5
cis-1,3-Dichloropropene	ND		2.0	1.8	ug/L			07/21/14 13:43	5
Dichlorobromomethane	ND		2.5	2.0	ug/L			07/21/14 13:43	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			07/21/14 13:43	5
Ethyl ether	ND		5.0	3.6	ug/L			07/21/14 13:43	5
Ethylbenzene	ND		5.0	3.7	ug/L			07/21/14 13:43	5
Ethylene Dibromide	ND		5.0	3.7	ug/L			07/21/14 13:43	5
Hexachlorobutadiene	ND		2.0	1.4	ug/L			07/21/14 13:43	5
Isopropyl ether	ND		50	3.0	ug/L			07/21/14 13:43	5
Isopropylbenzene	ND		5.0	4.0	ug/L			07/21/14 13:43	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			07/21/14 13:43	5
Methylene Chloride	2.4	J	5.0	2.2	ug/L			07/21/14 13:43	5
m-Xylene & p-Xylene	3.9	J	10	3.3	ug/L			07/21/14 13:43	5
Naphthalene	ND		25	2.2	ug/L			07/21/14 13:43	5
n-Butylbenzene	ND		5.0	3.2	ug/L			07/21/14 13:43	5
N-Propylbenzene	ND		5.0	3.5	ug/L			07/21/14 13:43	5
o-Xylene	ND		5.0	3.8	ug/L			07/21/14 13:43	5
sec-Butylbenzene	ND		5.0	3.8	ug/L			07/21/14 13:43	5
Styrene	ND		5.0	3.7	ug/L			07/21/14 13:43	5
Tert-amyl methyl ether	ND		25	1.4	ug/L			07/21/14 13:43	5
Tert-butyl ethyl ether	ND		25	1.5	ug/L			07/21/14 13:43	5
tert-Butylbenzene	ND		5.0	4.1	ug/L			07/21/14 13:43	5
Tetrachloroethene	ND		5.0	1.8	ug/L			07/21/14 13:43	5
Tetrahydrofuran	ND		50	6.3	ug/L			07/21/14 13:43	5
Toluene	74		5.0	2.6	ug/L			07/21/14 13:43	5

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: MW-267M-20140713

Lab Sample ID: 480-63716-2

Date Collected: 07/13/14 16:40

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			07/21/14 13:43	5
trans-1,3-Dichloropropene	ND		2.0	1.9	ug/L			07/21/14 13:43	5
Trichloroethene	ND		5.0	2.3	ug/L			07/21/14 13:43	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			07/21/14 13:43	5
Vinyl chloride	44		5.0	4.5	ug/L			07/21/14 13:43	5
Dibromomethane	ND		5.0	2.1	ug/L			07/21/14 13:43	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130		07/21/14 13:43	5
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		07/21/14 13:43	5
4-Bromofluorobenzene (Surr)	97		70 - 130		07/21/14 13:43	5

Client Sample ID: MW-268M-20140713

Lab Sample ID: 480-63716-3

Date Collected: 07/13/14 15:45

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		40	14	ug/L			07/17/14 14:48	40
1,1,1-Trichloroethane	ND		40	33	ug/L			07/17/14 14:48	40
1,1,2,2-Tetrachloroethane	ND		20	8.4	ug/L			07/17/14 14:48	40
1,1,2-Trichloroethane	ND		40	9.2	ug/L			07/17/14 14:48	40
1,1-Dichloroethane	ND		40	15	ug/L			07/17/14 14:48	40
1,1-Dichloroethene	ND		40	12	ug/L			07/17/14 14:48	40
1,1-Dichloropropene	ND		40	29	ug/L			07/17/14 14:48	40
1,2,3-Trichlorobenzene	ND		40	16	ug/L			07/17/14 14:48	40
1,2,3-Trichloropropane	ND		40	36	ug/L			07/17/14 14:48	40
1,2,4-Trichlorobenzene	ND		40	16	ug/L			07/17/14 14:48	40
1,2,4-Trimethylbenzene	ND		40	30	ug/L			07/17/14 14:48	40
1,2-Dibromo-3-Chloropropane	ND		200	16	ug/L			07/17/14 14:48	40
1,2-Dichlorobenzene	ND		40	32	ug/L			07/17/14 14:48	40
1,2-Dichloroethane	ND		40	8.4	ug/L			07/17/14 14:48	40
1,2-Dichloropropane	ND		40	29	ug/L			07/17/14 14:48	40
1,3,5-Trimethylbenzene	ND		40	31	ug/L			07/17/14 14:48	40
1,3-Dichlorobenzene	ND		40	31	ug/L			07/17/14 14:48	40
1,3-Dichloropropane	ND		40	30	ug/L			07/17/14 14:48	40
1,4-Dichlorobenzene	ND		40	34	ug/L			07/17/14 14:48	40
1,4-Dioxane	ND		2000	370	ug/L			07/17/14 14:48	40
2,2-Dichloropropane	ND		40	16	ug/L			07/17/14 14:48	40
2-Butanone (MEK)	ND		400	53	ug/L			07/17/14 14:48	40
2-Chlorotoluene	ND		40	34	ug/L			07/17/14 14:48	40
2-Hexanone	ND		400	50	ug/L			07/17/14 14:48	40
4-Chlorotoluene	ND		40	34	ug/L			07/17/14 14:48	40
4-Isopropyltoluene	ND		40	12	ug/L			07/17/14 14:48	40
4-Methyl-2-pentanone (MIBK)	ND		400	84	ug/L			07/17/14 14:48	40
Acetone	ND		2000	120	ug/L			07/17/14 14:48	40
Benzene	ND		40	16	ug/L			07/17/14 14:48	40
Bromobenzene	ND		40	32	ug/L			07/17/14 14:48	40
Bromoform	ND		40	10	ug/L			07/17/14 14:48	40
Bromomethane	ND		80	28	ug/L			07/17/14 14:48	40

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: MW-268M-20140713

Lab Sample ID: 480-63716-3

Date Collected: 07/13/14 15:45

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		400	7.6	ug/L			07/17/14 14:48	40
Carbon tetrachloride	ND		40	11	ug/L			07/17/14 14:48	40
Chlorobenzene	ND		40	30	ug/L			07/17/14 14:48	40
Chlorobromomethane	ND		40	35	ug/L			07/17/14 14:48	40
Chlorodibromomethane	ND		20	13	ug/L			07/17/14 14:48	40
Chloroethane	ND	*	80	13	ug/L			07/17/14 14:48	40
Chloroform	ND		40	14	ug/L			07/17/14 14:48	40
Chloromethane	ND	*	80	14	ug/L			07/17/14 14:48	40
cis-1,3-Dichloropropene	ND		16	14	ug/L			07/17/14 14:48	40
Dichlorobromomethane	ND		20	16	ug/L			07/17/14 14:48	40
Dichlorodifluoromethane	ND	*	40	27	ug/L			07/17/14 14:48	40
Ethyl ether	ND		40	29	ug/L			07/17/14 14:48	40
Ethylbenzene	ND		40	30	ug/L			07/17/14 14:48	40
Ethylene Dibromide	ND		40	29	ug/L			07/17/14 14:48	40
Hexachlorobutadiene	ND		16	11	ug/L			07/17/14 14:48	40
Isopropyl ether	ND	*	400	24	ug/L			07/17/14 14:48	40
Isopropylbenzene	ND		40	32	ug/L			07/17/14 14:48	40
Methyl tert-butyl ether	ND		40	6.4	ug/L			07/17/14 14:48	40
Methylene Chloride	ND		40	18	ug/L			07/17/14 14:48	40
m-Xylene & p-Xylene	ND		80	26	ug/L			07/17/14 14:48	40
Naphthalene	ND		200	17	ug/L			07/17/14 14:48	40
n-Butylbenzene	ND		40	26	ug/L			07/17/14 14:48	40
N-Propylbenzene	ND		40	28	ug/L			07/17/14 14:48	40
o-Xylene	ND		40	30	ug/L			07/17/14 14:48	40
sec-Butylbenzene	ND		40	30	ug/L			07/17/14 14:48	40
Styrene	ND		40	29	ug/L			07/17/14 14:48	40
Tert-amyl methyl ether	ND		200	11	ug/L			07/17/14 14:48	40
Tert-butyl ethyl ether	ND		200	12	ug/L			07/17/14 14:48	40
tert-Butylbenzene	ND		40	32	ug/L			07/17/14 14:48	40
Tetrachloroethene	ND		40	14	ug/L			07/17/14 14:48	40
Tetrahydrofuran	ND	*	400	50	ug/L			07/17/14 14:48	40
Toluene	ND		40	20	ug/L			07/17/14 14:48	40
trans-1,2-Dichloroethene	ND		40	36	ug/L			07/17/14 14:48	40
trans-1,3-Dichloropropene	ND		16	15	ug/L			07/17/14 14:48	40
Trichloroethene	68		40	18	ug/L			07/17/14 14:48	40
Trichlorofluoromethane	ND		40	35	ug/L			07/17/14 14:48	40
Vinyl chloride	260		40	36	ug/L			07/17/14 14:48	40
Dibromomethane	ND		40	16	ug/L			07/17/14 14:48	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		07/17/14 14:48	40
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		07/17/14 14:48	40
4-Bromofluorobenzene (Surr)	98		70 - 130		07/17/14 14:48	40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	3600		80	65	ug/L			07/18/14 14:05	80

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		07/18/14 14:05	80

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: MW-268M-20140713

Lab Sample ID: 480-63716-3

Date Collected: 07/13/14 15:45

Matrix: Water

Date Received: 07/15/14 01:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		07/18/14 14:05	80
4-Bromofluorobenzene (Surr)	88		70 - 130		07/18/14 14:05	80

Client Sample ID: MW-560-20140713

Lab Sample ID: 480-63716-4

Date Collected: 07/13/14 14:10

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0	1.4	ug/L			07/17/14 15:12	4
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			07/17/14 15:12	4
1,1,2,2-Tetrachloroethane	ND		2.0	0.84	ug/L			07/17/14 15:12	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			07/17/14 15:12	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			07/17/14 15:12	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			07/17/14 15:12	4
1,1-Dichloropropene	ND		4.0	2.9	ug/L			07/17/14 15:12	4
1,2,3-Trichlorobenzene	ND		4.0	1.6	ug/L			07/17/14 15:12	4
1,2,3-Trichloropropane	ND		4.0	3.6	ug/L			07/17/14 15:12	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			07/17/14 15:12	4
1,2,4-Trimethylbenzene	ND		4.0	3.0	ug/L			07/17/14 15:12	4
1,2-Dibromo-3-Chloropropane	ND		20	1.6	ug/L			07/17/14 15:12	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			07/17/14 15:12	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			07/17/14 15:12	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			07/17/14 15:12	4
1,3,5-Trimethylbenzene	ND		4.0	3.1	ug/L			07/17/14 15:12	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			07/17/14 15:12	4
1,3-Dichloropropane	ND		4.0	3.0	ug/L			07/17/14 15:12	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			07/17/14 15:12	4
1,4-Dioxane	ND		200	37	ug/L			07/17/14 15:12	4
2,2-Dichloropropane	ND		4.0	1.6	ug/L			07/17/14 15:12	4
2-Butanone (MEK)	370		40	5.3	ug/L			07/17/14 15:12	4
2-Chlorotoluene	ND		4.0	3.4	ug/L			07/17/14 15:12	4
2-Hexanone	ND		40	5.0	ug/L			07/17/14 15:12	4
4-Chlorotoluene	ND		4.0	3.4	ug/L			07/17/14 15:12	4
4-Isopropyltoluene	ND		4.0	1.2	ug/L			07/17/14 15:12	4
4-Methyl-2-pentanone (MIBK)	ND		40	8.4	ug/L			07/17/14 15:12	4
Acetone	65 J		200	12	ug/L			07/17/14 15:12	4
Benzene	ND		4.0	1.6	ug/L			07/17/14 15:12	4
Bromobenzene	ND		4.0	3.2	ug/L			07/17/14 15:12	4
Bromoform	ND		4.0	1.0	ug/L			07/17/14 15:12	4
Bromomethane	ND		8.0	2.8	ug/L			07/17/14 15:12	4
Carbon disulfide	ND		40	0.76	ug/L			07/17/14 15:12	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			07/17/14 15:12	4
Chlorobenzene	ND		4.0	3.0	ug/L			07/17/14 15:12	4
Chlorobromomethane	ND		4.0	3.5	ug/L			07/17/14 15:12	4
Chlorodibromomethane	ND		2.0	1.3	ug/L			07/17/14 15:12	4
Chloroethane	ND *		8.0	1.3	ug/L			07/17/14 15:12	4
Chloroform	ND		4.0	1.4	ug/L			07/17/14 15:12	4
Chloromethane	ND *		8.0	1.4	ug/L			07/17/14 15:12	4

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: MW-560-20140713

Lab Sample ID: 480-63716-4

Date Collected: 07/13/14 14:10

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	76		4.0	3.2	ug/L			07/17/14 15:12	4
cis-1,3-Dichloropropene	ND		1.6	1.4	ug/L			07/17/14 15:12	4
Dichlorobromomethane	ND		2.0	1.6	ug/L			07/17/14 15:12	4
Dichlorodifluoromethane	ND	*	4.0	2.7	ug/L			07/17/14 15:12	4
Ethyl ether	ND		4.0	2.9	ug/L			07/17/14 15:12	4
Ethylbenzene	ND		4.0	3.0	ug/L			07/17/14 15:12	4
Ethylene Dibromide	ND		4.0	2.9	ug/L			07/17/14 15:12	4
Hexachlorobutadiene	ND		1.6	1.1	ug/L			07/17/14 15:12	4
Isopropyl ether	ND	*	40	2.4	ug/L			07/17/14 15:12	4
Isopropylbenzene	ND		4.0	3.2	ug/L			07/17/14 15:12	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			07/17/14 15:12	4
Methylene Chloride	ND		4.0	1.8	ug/L			07/17/14 15:12	4
m-Xylene & p-Xylene	4.4	J	8.0	2.6	ug/L			07/17/14 15:12	4
Naphthalene	ND		20	1.7	ug/L			07/17/14 15:12	4
n-Butylbenzene	ND		4.0	2.6	ug/L			07/17/14 15:12	4
N-Propylbenzene	ND		4.0	2.8	ug/L			07/17/14 15:12	4
o-Xylene	ND		4.0	3.0	ug/L			07/17/14 15:12	4
sec-Butylbenzene	ND		4.0	3.0	ug/L			07/17/14 15:12	4
Styrene	ND		4.0	2.9	ug/L			07/17/14 15:12	4
Tert-amyl methyl ether	ND		20	1.1	ug/L			07/17/14 15:12	4
Tert-butyl ethyl ether	ND		20	1.2	ug/L			07/17/14 15:12	4
tert-Butylbenzene	ND		4.0	3.2	ug/L			07/17/14 15:12	4
Tetrachloroethene	ND		4.0	1.4	ug/L			07/17/14 15:12	4
Tetrahydrofuran	ND	*	40	5.0	ug/L			07/17/14 15:12	4
Toluene	54		4.0	2.0	ug/L			07/17/14 15:12	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			07/17/14 15:12	4
trans-1,3-Dichloropropene	ND		1.6	1.5	ug/L			07/17/14 15:12	4
Trichloroethene	ND		4.0	1.8	ug/L			07/17/14 15:12	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			07/17/14 15:12	4
Vinyl chloride	80		4.0	3.6	ug/L			07/17/14 15:12	4
Dibromomethane	ND		4.0	1.6	ug/L			07/17/14 15:12	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		07/17/14 15:12	4
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		07/17/14 15:12	4
4-Bromofluorobenzene (Surr)	97		70 - 130		07/17/14 15:12	4

Client Sample ID: MW-561 553-20140713

Lab Sample ID: 480-63716-5

Date Collected: 07/13/14 14:55

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			07/17/14 15:36	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/17/14 15:36	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.21	ug/L			07/17/14 15:36	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/17/14 15:36	1
1,1-Dichloroethane	0.65	J	1.0	0.38	ug/L			07/17/14 15:36	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/17/14 15:36	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			07/17/14 15:36	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: MW-561 553-20140713

Lab Sample ID: 480-63716-5

Date Collected: 07/13/14 14:55

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/14 15:36	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			07/17/14 15:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/14 15:36	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			07/17/14 15:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.39	ug/L			07/17/14 15:36	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/17/14 15:36	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/17/14 15:36	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/17/14 15:36	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			07/17/14 15:36	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/17/14 15:36	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			07/17/14 15:36	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/17/14 15:36	1
1,4-Dioxane	ND		50	9.3	ug/L			07/17/14 15:36	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			07/17/14 15:36	1
2-Butanone (MEK)	150		10	1.3	ug/L			07/17/14 15:36	1
2-Chlorotoluene	ND		1.0	0.86	ug/L			07/17/14 15:36	1
2-Hexanone	ND		10	1.2	ug/L			07/17/14 15:36	1
4-Chlorotoluene	ND		1.0	0.84	ug/L			07/17/14 15:36	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			07/17/14 15:36	1
4-Methyl-2-pentanone (MIBK)	ND		10	2.1	ug/L			07/17/14 15:36	1
Acetone	130		50	3.0	ug/L			07/17/14 15:36	1
Benzene	1.1		1.0	0.41	ug/L			07/17/14 15:36	1
Bromobenzene	ND		1.0	0.80	ug/L			07/17/14 15:36	1
Bromoform	ND		1.0	0.26	ug/L			07/17/14 15:36	1
Bromomethane	ND		2.0	0.69	ug/L			07/17/14 15:36	1
Carbon disulfide	ND		10	0.19	ug/L			07/17/14 15:36	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/17/14 15:36	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/17/14 15:36	1
Chlorobromomethane	ND		1.0	0.87	ug/L			07/17/14 15:36	1
Chlorodibromomethane	ND		0.50	0.32	ug/L			07/17/14 15:36	1
Chloroethane	0.53 J *		2.0	0.32	ug/L			07/17/14 15:36	1
Chloroform	ND		1.0	0.34	ug/L			07/17/14 15:36	1
Chloromethane	ND *		2.0	0.35	ug/L			07/17/14 15:36	1
cis-1,3-Dichloropropene	ND		0.40	0.36	ug/L			07/17/14 15:36	1
Dichlorobromomethane	ND		0.50	0.39	ug/L			07/17/14 15:36	1
Dichlorodifluoromethane	ND *		1.0	0.68	ug/L			07/17/14 15:36	1
Ethyl ether	ND		1.0	0.72	ug/L			07/17/14 15:36	1
Ethylbenzene	1.4		1.0	0.74	ug/L			07/17/14 15:36	1
Ethylene Dibromide	ND		1.0	0.73	ug/L			07/17/14 15:36	1
Hexachlorobutadiene	ND		0.40	0.28	ug/L			07/17/14 15:36	1
Isopropyl ether	ND *		10	0.59	ug/L			07/17/14 15:36	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/17/14 15:36	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/17/14 15:36	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/17/14 15:36	1
m-Xylene & p-Xylene	6.3		2.0	0.66	ug/L			07/17/14 15:36	1
Naphthalene	ND		5.0	0.43	ug/L			07/17/14 15:36	1
n-Butylbenzene	ND		1.0	0.64	ug/L			07/17/14 15:36	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/17/14 15:36	1
o-Xylene	1.5		1.0	0.76	ug/L			07/17/14 15:36	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: MW-561 553-20140713

Lab Sample ID: 480-63716-5

Date Collected: 07/13/14 14:55

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0	0.75	ug/L			07/17/14 15:36	1
Styrene	ND		1.0	0.73	ug/L			07/17/14 15:36	1
Tert-amyl methyl ether	ND		5.0	0.27	ug/L			07/17/14 15:36	1
Tert-butyl ethyl ether	ND		5.0	0.29	ug/L			07/17/14 15:36	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			07/17/14 15:36	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/17/14 15:36	1
Tetrahydrofuran	ND *		10	1.3	ug/L			07/17/14 15:36	1
Toluene	40		1.0	0.51	ug/L			07/17/14 15:36	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/17/14 15:36	1
trans-1,3-Dichloropropene	ND		0.40	0.37	ug/L			07/17/14 15:36	1
Trichloroethene	ND		1.0	0.46	ug/L			07/17/14 15:36	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/17/14 15:36	1
Vinyl chloride	71		1.0	0.90	ug/L			07/17/14 15:36	1
Dibromomethane	ND		1.0	0.41	ug/L			07/17/14 15:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130					07/17/14 15:36	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130					07/17/14 15:36	1
4-Bromofluorobenzene (Surr)	95		70 - 130					07/17/14 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	160		2.0	1.6	ug/L			07/18/14 14:30	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130					07/18/14 14:30	2
1,2-Dichloroethane-d4 (Surr)	95		70 - 130					07/18/14 14:30	2
4-Bromofluorobenzene (Surr)	91		70 - 130					07/18/14 14:30	2

Client Sample ID: MW-561-20140713

Lab Sample ID: 480-63716-6

Date Collected: 07/13/14 13:25

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10	3.5	ug/L			07/17/14 16:00	10
1,1,1-Trichloroethane	ND		10	8.2	ug/L			07/17/14 16:00	10
1,1,2,2-Tetrachloroethane	ND		5.0	2.1	ug/L			07/17/14 16:00	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			07/17/14 16:00	10
1,1-Dichloroethane	ND		10	3.8	ug/L			07/17/14 16:00	10
1,1-Dichloroethene	ND		10	2.9	ug/L			07/17/14 16:00	10
1,1-Dichloropropene	ND		10	7.2	ug/L			07/17/14 16:00	10
1,2,3-Trichlorobenzene	ND		10	4.1	ug/L			07/17/14 16:00	10
1,2,3-Trichloropropane	ND		10	8.9	ug/L			07/17/14 16:00	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			07/17/14 16:00	10
1,2,4-Trimethylbenzene	ND		10	7.5	ug/L			07/17/14 16:00	10
1,2-Dibromo-3-Chloropropane	ND		50	3.9	ug/L			07/17/14 16:00	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			07/17/14 16:00	10
1,2-Dichloroethane	ND		10	2.1	ug/L			07/17/14 16:00	10
1,2-Dichloropropane	ND		10	7.2	ug/L			07/17/14 16:00	10

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: MW-561-20140713

Lab Sample ID: 480-63716-6

Date Collected: 07/13/14 13:25

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	ND		10	7.7	ug/L			07/17/14 16:00	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			07/17/14 16:00	10
1,3-Dichloropropane	ND		10	7.5	ug/L			07/17/14 16:00	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			07/17/14 16:00	10
1,4-Dioxane	ND		500	93	ug/L			07/17/14 16:00	10
2,2-Dichloropropane	ND		10	4.0	ug/L			07/17/14 16:00	10
2-Butanone (MEK)	140		100	13	ug/L			07/17/14 16:00	10
2-Chlorotoluene	ND		10	8.6	ug/L			07/17/14 16:00	10
2-Hexanone	ND		100	12	ug/L			07/17/14 16:00	10
4-Chlorotoluene	ND		10	8.4	ug/L			07/17/14 16:00	10
4-Isopropyltoluene	ND		10	3.1	ug/L			07/17/14 16:00	10
4-Methyl-2-pentanone (MIBK)	ND		100	21	ug/L			07/17/14 16:00	10
Acetone	280	J	500	30	ug/L			07/17/14 16:00	10
Benzene	ND		10	4.1	ug/L			07/17/14 16:00	10
Bromobenzene	ND		10	8.0	ug/L			07/17/14 16:00	10
Bromoform	ND		10	2.6	ug/L			07/17/14 16:00	10
Bromomethane	ND		20	6.9	ug/L			07/17/14 16:00	10
Carbon disulfide	ND		100	1.9	ug/L			07/17/14 16:00	10
Carbon tetrachloride	ND		10	2.7	ug/L			07/17/14 16:00	10
Chlorobenzene	ND		10	7.5	ug/L			07/17/14 16:00	10
Chlorobromomethane	ND		10	8.7	ug/L			07/17/14 16:00	10
Chlorodibromomethane	ND		5.0	3.2	ug/L			07/17/14 16:00	10
Chloroethane	ND	*	20	3.2	ug/L			07/17/14 16:00	10
Chloroform	ND		10	3.4	ug/L			07/17/14 16:00	10
Chloromethane	ND	*	20	3.5	ug/L			07/17/14 16:00	10
cis-1,2-Dichloroethene	ND		10	8.1	ug/L			07/17/14 16:00	10
cis-1,3-Dichloropropene	ND		4.0	3.6	ug/L			07/17/14 16:00	10
Dichlorobromomethane	ND		5.0	3.9	ug/L			07/17/14 16:00	10
Dichlorodifluoromethane	ND	*	10	6.8	ug/L			07/17/14 16:00	10
Ethyl ether	ND		10	7.2	ug/L			07/17/14 16:00	10
Ethylbenzene	ND		10	7.4	ug/L			07/17/14 16:00	10
Ethylene Dibromide	ND		10	7.3	ug/L			07/17/14 16:00	10
Hexachlorobutadiene	ND		4.0	2.8	ug/L			07/17/14 16:00	10
Isopropyl ether	ND	*	100	5.9	ug/L			07/17/14 16:00	10
Isopropylbenzene	ND		10	7.9	ug/L			07/17/14 16:00	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			07/17/14 16:00	10
Methylene Chloride	ND		10	4.4	ug/L			07/17/14 16:00	10
m-Xylene & p-Xylene	25		20	6.6	ug/L			07/17/14 16:00	10
Naphthalene	ND		50	4.3	ug/L			07/17/14 16:00	10
n-Butylbenzene	ND		10	6.4	ug/L			07/17/14 16:00	10
N-Propylbenzene	ND		10	6.9	ug/L			07/17/14 16:00	10
o-Xylene	ND		10	7.6	ug/L			07/17/14 16:00	10
sec-Butylbenzene	ND		10	7.5	ug/L			07/17/14 16:00	10
Styrene	ND		10	7.3	ug/L			07/17/14 16:00	10
Tert-amyl methyl ether	ND		50	2.7	ug/L			07/17/14 16:00	10
Tert-butyl ethyl ether	ND		50	2.9	ug/L			07/17/14 16:00	10
tert-Butylbenzene	ND		10	8.1	ug/L			07/17/14 16:00	10
Tetrachloroethene	ND		10	3.6	ug/L			07/17/14 16:00	10
Tetrahydrofuran	ND	*	100	13	ug/L			07/17/14 16:00	10

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: MW-561-20140713

Lab Sample ID: 480-63716-6

Date Collected: 07/13/14 13:25

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	460		10	5.1	ug/L			07/17/14 16:00	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			07/17/14 16:00	10
trans-1,3-Dichloropropene	ND		4.0	3.7	ug/L			07/17/14 16:00	10
Trichloroethene	ND		10	4.6	ug/L			07/17/14 16:00	10
Trichlorofluoromethane	ND		10	8.8	ug/L			07/17/14 16:00	10
Vinyl chloride	54		10	9.0	ug/L			07/17/14 16:00	10
Dibromomethane	ND		10	4.1	ug/L			07/17/14 16:00	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	97		70 - 130					07/17/14 16:00	10
<i>1,2-Dichloroethane-d4 (Surr)</i>	109		70 - 130					07/17/14 16:00	10
<i>4-Bromofluorobenzene (Surr)</i>	99		70 - 130					07/17/14 16:00	10

Client Sample ID: REW-6-20140714

Lab Sample ID: 480-63716-7

Date Collected: 07/14/14 09:30

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.8	ug/L			07/17/14 16:24	5
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			07/17/14 16:24	5
1,1,2,2-Tetrachloroethane	ND		2.5	1.1	ug/L			07/17/14 16:24	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			07/17/14 16:24	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			07/17/14 16:24	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			07/17/14 16:24	5
1,1-Dichloropropene	ND		5.0	3.6	ug/L			07/17/14 16:24	5
1,2,3-Trichlorobenzene	ND		5.0	2.1	ug/L			07/17/14 16:24	5
1,2,3-Trichloropropane	ND		5.0	4.5	ug/L			07/17/14 16:24	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			07/17/14 16:24	5
1,2,4-Trimethylbenzene	ND		5.0	3.8	ug/L			07/17/14 16:24	5
1,2-Dibromo-3-Chloropropane	ND		25	2.0	ug/L			07/17/14 16:24	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			07/17/14 16:24	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			07/17/14 16:24	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			07/17/14 16:24	5
1,3,5-Trimethylbenzene	ND		5.0	3.9	ug/L			07/17/14 16:24	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			07/17/14 16:24	5
1,3-Dichloropropane	ND		5.0	3.8	ug/L			07/17/14 16:24	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			07/17/14 16:24	5
1,4-Dioxane	ND		250	47	ug/L			07/17/14 16:24	5
2,2-Dichloropropane	ND		5.0	2.0	ug/L			07/17/14 16:24	5
2-Butanone (MEK)	80		50	6.6	ug/L			07/17/14 16:24	5
2-Chlorotoluene	ND		5.0	4.3	ug/L			07/17/14 16:24	5
2-Hexanone	ND		50	6.2	ug/L			07/17/14 16:24	5
4-Chlorotoluene	ND		5.0	4.2	ug/L			07/17/14 16:24	5
4-Isopropyltoluene	ND		5.0	1.6	ug/L			07/17/14 16:24	5
4-Methyl-2-pentanone (MIBK)	ND		50	11	ug/L			07/17/14 16:24	5
Acetone	26 J		250	15	ug/L			07/17/14 16:24	5
Benzene	ND		5.0	2.1	ug/L			07/17/14 16:24	5
Bromobenzene	ND		5.0	4.0	ug/L			07/17/14 16:24	5
Bromoform	ND		5.0	1.3	ug/L			07/17/14 16:24	5

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: REW-6-20140714

Lab Sample ID: 480-63716-7

Date Collected: 07/14/14 09:30

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		10	3.5	ug/L			07/17/14 16:24	5
Carbon disulfide	ND		50	0.95	ug/L			07/17/14 16:24	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			07/17/14 16:24	5
Chlorobenzene	ND		5.0	3.8	ug/L			07/17/14 16:24	5
Chlorobromomethane	ND		5.0	4.4	ug/L			07/17/14 16:24	5
Chlorodibromomethane	ND		2.5	1.6	ug/L			07/17/14 16:24	5
Chloroethane	ND	*	10	1.6	ug/L			07/17/14 16:24	5
Chloroform	ND		5.0	1.7	ug/L			07/17/14 16:24	5
Chloromethane	ND	*	10	1.8	ug/L			07/17/14 16:24	5
cis-1,2-Dichloroethene	390		5.0	4.1	ug/L			07/17/14 16:24	5
cis-1,3-Dichloropropene	ND		2.0	1.8	ug/L			07/17/14 16:24	5
Dichlorobromomethane	ND		2.5	2.0	ug/L			07/17/14 16:24	5
Dichlorodifluoromethane	ND	*	5.0	3.4	ug/L			07/17/14 16:24	5
Ethyl ether	ND		5.0	3.6	ug/L			07/17/14 16:24	5
Ethylbenzene	ND		5.0	3.7	ug/L			07/17/14 16:24	5
Ethylene Dibromide	ND		5.0	3.7	ug/L			07/17/14 16:24	5
Hexachlorobutadiene	ND		2.0	1.4	ug/L			07/17/14 16:24	5
Isopropyl ether	ND	*	50	3.0	ug/L			07/17/14 16:24	5
Isopropylbenzene	ND		5.0	4.0	ug/L			07/17/14 16:24	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			07/17/14 16:24	5
Methylene Chloride	ND		5.0	2.2	ug/L			07/17/14 16:24	5
m-Xylene & p-Xylene	5.9 J		10	3.3	ug/L			07/17/14 16:24	5
Naphthalene	ND		25	2.2	ug/L			07/17/14 16:24	5
n-Butylbenzene	ND		5.0	3.2	ug/L			07/17/14 16:24	5
N-Propylbenzene	ND		5.0	3.5	ug/L			07/17/14 16:24	5
o-Xylene	ND		5.0	3.8	ug/L			07/17/14 16:24	5
sec-Butylbenzene	ND		5.0	3.8	ug/L			07/17/14 16:24	5
Styrene	ND		5.0	3.7	ug/L			07/17/14 16:24	5
Tert-amyl methyl ether	ND		25	1.4	ug/L			07/17/14 16:24	5
Tert-butyl ethyl ether	ND		25	1.5	ug/L			07/17/14 16:24	5
tert-Butylbenzene	ND		5.0	4.1	ug/L			07/17/14 16:24	5
Tetrachloroethene	ND		5.0	1.8	ug/L			07/17/14 16:24	5
Tetrahydrofuran	ND	*	50	6.3	ug/L			07/17/14 16:24	5
Toluene	140		5.0	2.6	ug/L			07/17/14 16:24	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			07/17/14 16:24	5
trans-1,3-Dichloropropene	ND		2.0	1.9	ug/L			07/17/14 16:24	5
Trichloroethene	37		5.0	2.3	ug/L			07/17/14 16:24	5
Trichlorofluoromethane	ND		5.0	4.4	ug/L			07/17/14 16:24	5
Vinyl chloride	22		5.0	4.5	ug/L			07/17/14 16:24	5
Dibromomethane	ND		5.0	2.1	ug/L			07/17/14 16:24	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		07/17/14 16:24	5
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		07/17/14 16:24	5
4-Bromofluorobenzene (Surr)	96		70 - 130		07/17/14 16:24	5

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: REW-7-20140714

Lab Sample ID: 480-63716-8

Date Collected: 07/14/14 09:00

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10	3.5	ug/L			07/17/14 16:47	10
1,1,1-Trichloroethane	ND		10	8.2	ug/L			07/17/14 16:47	10
1,1,2,2-Tetrachloroethane	ND		5.0	2.1	ug/L			07/17/14 16:47	10
1,1,2-Trichloroethane	ND		10	2.3	ug/L			07/17/14 16:47	10
1,1-Dichloroethane	ND		10	3.8	ug/L			07/17/14 16:47	10
1,1-Dichloroethene	ND		10	2.9	ug/L			07/17/14 16:47	10
1,1-Dichloropropene	ND		10	7.2	ug/L			07/17/14 16:47	10
1,2,3-Trichlorobenzene	ND		10	4.1	ug/L			07/17/14 16:47	10
1,2,3-Trichloropropane	ND		10	8.9	ug/L			07/17/14 16:47	10
1,2,4-Trichlorobenzene	ND		10	4.1	ug/L			07/17/14 16:47	10
1,2,4-Trimethylbenzene	ND		10	7.5	ug/L			07/17/14 16:47	10
1,2-Dibromo-3-Chloropropane	ND		50	3.9	ug/L			07/17/14 16:47	10
1,2-Dichlorobenzene	ND		10	7.9	ug/L			07/17/14 16:47	10
1,2-Dichloroethane	ND		10	2.1	ug/L			07/17/14 16:47	10
1,2-Dichloropropane	ND		10	7.2	ug/L			07/17/14 16:47	10
1,3,5-Trimethylbenzene	ND		10	7.7	ug/L			07/17/14 16:47	10
1,3-Dichlorobenzene	ND		10	7.8	ug/L			07/17/14 16:47	10
1,3-Dichloropropane	ND		10	7.5	ug/L			07/17/14 16:47	10
1,4-Dichlorobenzene	ND		10	8.4	ug/L			07/17/14 16:47	10
1,4-Dioxane	ND		500	93	ug/L			07/17/14 16:47	10
2,2-Dichloropropane	ND		10	4.0	ug/L			07/17/14 16:47	10
2-Butanone (MEK)	31	J	100	13	ug/L			07/17/14 16:47	10
2-Chlorotoluene	ND		10	8.6	ug/L			07/17/14 16:47	10
2-Hexanone	ND		100	12	ug/L			07/17/14 16:47	10
4-Chlorotoluene	ND		10	8.4	ug/L			07/17/14 16:47	10
4-Isopropyltoluene	ND		10	3.1	ug/L			07/17/14 16:47	10
4-Methyl-2-pentanone (MIBK)	ND		100	21	ug/L			07/17/14 16:47	10
Acetone	ND		500	30	ug/L			07/17/14 16:47	10
Benzene	ND		10	4.1	ug/L			07/17/14 16:47	10
Bromobenzene	ND		10	8.0	ug/L			07/17/14 16:47	10
Bromoform	ND		10	2.6	ug/L			07/17/14 16:47	10
Bromomethane	ND		20	6.9	ug/L			07/17/14 16:47	10
Carbon disulfide	ND		100	1.9	ug/L			07/17/14 16:47	10
Carbon tetrachloride	ND		10	2.7	ug/L			07/17/14 16:47	10
Chlorobenzene	ND		10	7.5	ug/L			07/17/14 16:47	10
Chlorobromomethane	ND		10	8.7	ug/L			07/17/14 16:47	10
Chlorodibromomethane	ND		5.0	3.2	ug/L			07/17/14 16:47	10
Chloroethane	ND	*	20	3.2	ug/L			07/17/14 16:47	10
Chloroform	ND		10	3.4	ug/L			07/17/14 16:47	10
Chloromethane	ND	*	20	3.5	ug/L			07/17/14 16:47	10
cis-1,2-Dichloroethene	470		10	8.1	ug/L			07/17/14 16:47	10
cis-1,3-Dichloropropene	ND		4.0	3.6	ug/L			07/17/14 16:47	10
Dichlorobromomethane	ND		5.0	3.9	ug/L			07/17/14 16:47	10
Dichlorodifluoromethane	ND	*	10	6.8	ug/L			07/17/14 16:47	10
Ethyl ether	ND		10	7.2	ug/L			07/17/14 16:47	10
Ethylbenzene	ND		10	7.4	ug/L			07/17/14 16:47	10
Ethylene Dibromide	ND		10	7.3	ug/L			07/17/14 16:47	10
Hexachlorobutadiene	ND		4.0	2.8	ug/L			07/17/14 16:47	10
Isopropyl ether	ND	*	100	5.9	ug/L			07/17/14 16:47	10

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: REW-7-20140714

Lab Sample ID: 480-63716-8

Date Collected: 07/14/14 09:00

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		10	7.9	ug/L			07/17/14 16:47	10
Methyl tert-butyl ether	ND		10	1.6	ug/L			07/17/14 16:47	10
Methylene Chloride	ND		10	4.4	ug/L			07/17/14 16:47	10
m-Xylene & p-Xylene	ND		20	6.6	ug/L			07/17/14 16:47	10
Naphthalene	ND		50	4.3	ug/L			07/17/14 16:47	10
n-Butylbenzene	ND		10	6.4	ug/L			07/17/14 16:47	10
N-Propylbenzene	ND		10	6.9	ug/L			07/17/14 16:47	10
o-Xylene	ND		10	7.6	ug/L			07/17/14 16:47	10
sec-Butylbenzene	ND		10	7.5	ug/L			07/17/14 16:47	10
Styrene	ND		10	7.3	ug/L			07/17/14 16:47	10
Tert-amyl methyl ether	ND		50	2.7	ug/L			07/17/14 16:47	10
Tert-butyl ethyl ether	ND		50	2.9	ug/L			07/17/14 16:47	10
tert-Butylbenzene	ND		10	8.1	ug/L			07/17/14 16:47	10
Tetrachloroethene	ND		10	3.6	ug/L			07/17/14 16:47	10
Tetrahydrofuran	ND	*	100	13	ug/L			07/17/14 16:47	10
Toluene	30		10	5.1	ug/L			07/17/14 16:47	10
trans-1,2-Dichloroethene	ND		10	9.0	ug/L			07/17/14 16:47	10
trans-1,3-Dichloropropene	ND		4.0	3.7	ug/L			07/17/14 16:47	10
Trichloroethene	41		10	4.6	ug/L			07/17/14 16:47	10
Trichlorofluoromethane	ND		10	8.8	ug/L			07/17/14 16:47	10
Vinyl chloride	90		10	9.0	ug/L			07/17/14 16:47	10
Dibromomethane	ND		10	4.1	ug/L			07/17/14 16:47	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		07/17/14 16:47	10
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		07/17/14 16:47	10
4-Bromofluorobenzene (Surr)	98		70 - 130		07/17/14 16:47	10

Client Sample ID: REW-8-20140714

Lab Sample ID: 480-63716-9

Date Collected: 07/14/14 08:30

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			07/17/14 17:11	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/17/14 17:11	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.21	ug/L			07/17/14 17:11	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/17/14 17:11	1
1,1-Dichloroethane	0.74	J	1.0	0.38	ug/L			07/17/14 17:11	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/17/14 17:11	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			07/17/14 17:11	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/14 17:11	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			07/17/14 17:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/14 17:11	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			07/17/14 17:11	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.39	ug/L			07/17/14 17:11	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/17/14 17:11	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/17/14 17:11	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/17/14 17:11	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			07/17/14 17:11	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: REW-8-20140714

Lab Sample ID: 480-63716-9

Date Collected: 07/14/14 08:30

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/17/14 17:11	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			07/17/14 17:11	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/17/14 17:11	1
1,4-Dioxane	ND		50	9.3	ug/L			07/17/14 17:11	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			07/17/14 17:11	1
2-Butanone (MEK)	89		10	1.3	ug/L			07/17/14 17:11	1
2-Chlorotoluene	ND		1.0	0.86	ug/L			07/17/14 17:11	1
2-Hexanone	ND		10	1.2	ug/L			07/17/14 17:11	1
4-Chlorotoluene	ND		1.0	0.84	ug/L			07/17/14 17:11	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			07/17/14 17:11	1
4-Methyl-2-pentanone (MIBK)	ND		10	2.1	ug/L			07/17/14 17:11	1
Acetone	70		50	3.0	ug/L			07/17/14 17:11	1
Benzene	0.53	J	1.0	0.41	ug/L			07/17/14 17:11	1
Bromobenzene	ND		1.0	0.80	ug/L			07/17/14 17:11	1
Bromoform	ND		1.0	0.26	ug/L			07/17/14 17:11	1
Bromomethane	ND		2.0	0.69	ug/L			07/17/14 17:11	1
Carbon disulfide	ND		10	0.19	ug/L			07/17/14 17:11	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/17/14 17:11	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/17/14 17:11	1
Chlorobromomethane	ND		1.0	0.87	ug/L			07/17/14 17:11	1
Chlorodibromomethane	ND		0.50	0.32	ug/L			07/17/14 17:11	1
Chloroethane	ND	*	2.0	0.32	ug/L			07/17/14 17:11	1
Chloroform	ND		1.0	0.34	ug/L			07/17/14 17:11	1
Chloromethane	ND	*	2.0	0.35	ug/L			07/17/14 17:11	1
cis-1,2-Dichloroethene	79		1.0	0.81	ug/L			07/17/14 17:11	1
cis-1,3-Dichloropropene	ND		0.40	0.36	ug/L			07/17/14 17:11	1
Dichlorobromomethane	ND		0.50	0.39	ug/L			07/17/14 17:11	1
Dichlorodifluoromethane	ND	*	1.0	0.68	ug/L			07/17/14 17:11	1
Ethyl ether	ND		1.0	0.72	ug/L			07/17/14 17:11	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/17/14 17:11	1
Ethylene Dibromide	ND		1.0	0.73	ug/L			07/17/14 17:11	1
Hexachlorobutadiene	ND		0.40	0.28	ug/L			07/17/14 17:11	1
Isopropyl ether	ND	*	10	0.59	ug/L			07/17/14 17:11	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/17/14 17:11	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/17/14 17:11	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/17/14 17:11	1
m-Xylene & p-Xylene	1.5	J	2.0	0.66	ug/L			07/17/14 17:11	1
Naphthalene	ND		5.0	0.43	ug/L			07/17/14 17:11	1
n-Butylbenzene	ND		1.0	0.64	ug/L			07/17/14 17:11	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/17/14 17:11	1
o-Xylene	ND		1.0	0.76	ug/L			07/17/14 17:11	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			07/17/14 17:11	1
Styrene	ND		1.0	0.73	ug/L			07/17/14 17:11	1
Tert-amyl methyl ether	ND		5.0	0.27	ug/L			07/17/14 17:11	1
Tert-butyl ethyl ether	ND		5.0	0.29	ug/L			07/17/14 17:11	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			07/17/14 17:11	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/17/14 17:11	1
Tetrahydrofuran	ND	*	10	1.3	ug/L			07/17/14 17:11	1
Toluene	19		1.0	0.51	ug/L			07/17/14 17:11	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: REW-8-20140714

Lab Sample ID: 480-63716-9

Date Collected: 07/14/14 08:30

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/17/14 17:11	1
trans-1,3-Dichloropropene	ND		0.40	0.37	ug/L			07/17/14 17:11	1
Trichloroethene	5.2		1.0	0.46	ug/L			07/17/14 17:11	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/17/14 17:11	1
Vinyl chloride	42		1.0	0.90	ug/L			07/17/14 17:11	1
Dibromomethane	ND		1.0	0.41	ug/L			07/17/14 17:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130					07/17/14 17:11	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130					07/17/14 17:11	1
4-Bromofluorobenzene (Surr)	99		70 - 130					07/17/14 17:11	1

Client Sample ID: REW-9-20140714

Lab Sample ID: 480-63716-10

Date Collected: 07/14/14 07:50

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			07/17/14 17:35	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/17/14 17:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.21	ug/L			07/17/14 17:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/17/14 17:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/17/14 17:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/17/14 17:35	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			07/17/14 17:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/14 17:35	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			07/17/14 17:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/14 17:35	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			07/17/14 17:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.39	ug/L			07/17/14 17:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/17/14 17:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/17/14 17:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/17/14 17:35	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			07/17/14 17:35	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/17/14 17:35	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			07/17/14 17:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/17/14 17:35	1
1,4-Dioxane	ND		50	9.3	ug/L			07/17/14 17:35	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			07/17/14 17:35	1
2-Butanone (MEK)	88		10	1.3	ug/L			07/17/14 17:35	1
2-Chlorotoluene	ND		1.0	0.86	ug/L			07/17/14 17:35	1
2-Hexanone	ND		10	1.2	ug/L			07/17/14 17:35	1
4-Chlorotoluene	ND		1.0	0.84	ug/L			07/17/14 17:35	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			07/17/14 17:35	1
4-Methyl-2-pentanone (MIBK)	ND		10	2.1	ug/L			07/17/14 17:35	1
Acetone	17 J		50	3.0	ug/L			07/17/14 17:35	1
Benzene	ND		1.0	0.41	ug/L			07/17/14 17:35	1
Bromobenzene	ND		1.0	0.80	ug/L			07/17/14 17:35	1
Bromoform	ND		1.0	0.26	ug/L			07/17/14 17:35	1
Bromomethane	ND		2.0	0.69	ug/L			07/17/14 17:35	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: REW-9-20140714

Lab Sample ID: 480-63716-10

Date Collected: 07/14/14 07:50

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10	0.19	ug/L			07/17/14 17:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/17/14 17:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/17/14 17:35	1
Chlorobromomethane	ND		1.0	0.87	ug/L			07/17/14 17:35	1
Chlorodibromomethane	ND		0.50	0.32	ug/L			07/17/14 17:35	1
Chloroethane	ND	*	2.0	0.32	ug/L			07/17/14 17:35	1
Chloroform	ND		1.0	0.34	ug/L			07/17/14 17:35	1
Chloromethane	ND	*	2.0	0.35	ug/L			07/17/14 17:35	1
cis-1,2-Dichloroethene	58		1.0	0.81	ug/L			07/17/14 17:35	1
cis-1,3-Dichloropropene	ND		0.40	0.36	ug/L			07/17/14 17:35	1
Dichlorobromomethane	ND		0.50	0.39	ug/L			07/17/14 17:35	1
Dichlorodifluoromethane	ND	*	1.0	0.68	ug/L			07/17/14 17:35	1
Ethyl ether	ND		1.0	0.72	ug/L			07/17/14 17:35	1
Ethylbenzene	1.1		1.0	0.74	ug/L			07/17/14 17:35	1
Ethylene Dibromide	ND		1.0	0.73	ug/L			07/17/14 17:35	1
Hexachlorobutadiene	ND		0.40	0.28	ug/L			07/17/14 17:35	1
Isopropyl ether	ND	*	10	0.59	ug/L			07/17/14 17:35	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/17/14 17:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/17/14 17:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/17/14 17:35	1
m-Xylene & p-Xylene	4.5		2.0	0.66	ug/L			07/17/14 17:35	1
Naphthalene	ND		5.0	0.43	ug/L			07/17/14 17:35	1
n-Butylbenzene	ND		1.0	0.64	ug/L			07/17/14 17:35	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/17/14 17:35	1
o-Xylene	1.0		1.0	0.76	ug/L			07/17/14 17:35	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			07/17/14 17:35	1
Styrene	ND		1.0	0.73	ug/L			07/17/14 17:35	1
Tert-amyl methyl ether	ND		5.0	0.27	ug/L			07/17/14 17:35	1
Tert-butyl ethyl ether	ND		5.0	0.29	ug/L			07/17/14 17:35	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			07/17/14 17:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/17/14 17:35	1
Tetrahydrofuran	ND	*	10	1.3	ug/L			07/17/14 17:35	1
Toluene	58		1.0	0.51	ug/L			07/17/14 17:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/17/14 17:35	1
trans-1,3-Dichloropropene	ND		0.40	0.37	ug/L			07/17/14 17:35	1
Trichloroethene	ND		1.0	0.46	ug/L			07/17/14 17:35	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/17/14 17:35	1
Vinyl chloride	30		1.0	0.90	ug/L			07/17/14 17:35	1
Dibromomethane	ND		1.0	0.41	ug/L			07/17/14 17:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		07/17/14 17:35	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		07/17/14 17:35	1
4-Bromofluorobenzene (Surr)	96		70 - 130		07/17/14 17:35	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: REW-11-20140714

Lab Sample ID: 480-63716-11

Date Collected: 07/14/14 10:10

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		25	8.8	ug/L			07/17/14 17:59	25
1,1,1-Trichloroethane	ND		25	21	ug/L			07/17/14 17:59	25
1,1,2,2-Tetrachloroethane	ND		13	5.3	ug/L			07/17/14 17:59	25
1,1,2-Trichloroethane	ND		25	5.8	ug/L			07/17/14 17:59	25
1,1-Dichloroethane	ND		25	9.5	ug/L			07/17/14 17:59	25
1,1-Dichloroethene	ND		25	7.3	ug/L			07/17/14 17:59	25
1,1-Dichloropropene	ND		25	18	ug/L			07/17/14 17:59	25
1,2,3-Trichlorobenzene	ND		25	10	ug/L			07/17/14 17:59	25
1,2,3-Trichloropropane	ND		25	22	ug/L			07/17/14 17:59	25
1,2,4-Trichlorobenzene	ND		25	10	ug/L			07/17/14 17:59	25
1,2,4-Trimethylbenzene	ND		25	19	ug/L			07/17/14 17:59	25
1,2-Dibromo-3-Chloropropane	ND		130	9.8	ug/L			07/17/14 17:59	25
1,2-Dichlorobenzene	ND		25	20	ug/L			07/17/14 17:59	25
1,2-Dichloroethane	ND		25	5.3	ug/L			07/17/14 17:59	25
1,2-Dichloropropane	ND		25	18	ug/L			07/17/14 17:59	25
1,3,5-Trimethylbenzene	ND		25	19	ug/L			07/17/14 17:59	25
1,3-Dichlorobenzene	ND		25	20	ug/L			07/17/14 17:59	25
1,3-Dichloropropane	ND		25	19	ug/L			07/17/14 17:59	25
1,4-Dichlorobenzene	ND		25	21	ug/L			07/17/14 17:59	25
1,4-Dioxane	ND		1300	230	ug/L			07/17/14 17:59	25
2,2-Dichloropropane	ND		25	10	ug/L			07/17/14 17:59	25
2-Butanone (MEK)	ND		250	33	ug/L			07/17/14 17:59	25
2-Chlorotoluene	ND		25	22	ug/L			07/17/14 17:59	25
2-Hexanone	ND		250	31	ug/L			07/17/14 17:59	25
4-Chlorotoluene	ND		25	21	ug/L			07/17/14 17:59	25
4-Isopropyltoluene	ND		25	7.8	ug/L			07/17/14 17:59	25
4-Methyl-2-pentanone (MIBK)	ND		250	53	ug/L			07/17/14 17:59	25
Acetone	ND		1300	75	ug/L			07/17/14 17:59	25
Benzene	ND		25	10	ug/L			07/17/14 17:59	25
Bromobenzene	ND		25	20	ug/L			07/17/14 17:59	25
Bromoform	ND		25	6.5	ug/L			07/17/14 17:59	25
Bromomethane	ND		50	17	ug/L			07/17/14 17:59	25
Carbon disulfide	ND		250	4.8	ug/L			07/17/14 17:59	25
Carbon tetrachloride	ND		25	6.8	ug/L			07/17/14 17:59	25
Chlorobenzene	ND		25	19	ug/L			07/17/14 17:59	25
Chlorobromomethane	ND		25	22	ug/L			07/17/14 17:59	25
Chlorodibromomethane	ND		13	8.0	ug/L			07/17/14 17:59	25
Chloroethane	ND	*	50	8.0	ug/L			07/17/14 17:59	25
Chloroform	ND		25	8.5	ug/L			07/17/14 17:59	25
Chloromethane	ND	*	50	8.8	ug/L			07/17/14 17:59	25
cis-1,2-Dichloroethene	1800		25	20	ug/L			07/17/14 17:59	25
cis-1,3-Dichloropropene	ND		10	9.0	ug/L			07/17/14 17:59	25
Dichlorobromomethane	ND		13	9.8	ug/L			07/17/14 17:59	25
Dichlorodifluoromethane	ND	*	25	17	ug/L			07/17/14 17:59	25
Ethyl ether	ND		25	18	ug/L			07/17/14 17:59	25
Ethylbenzene	ND		25	19	ug/L			07/17/14 17:59	25
Ethylene Dibromide	ND		25	18	ug/L			07/17/14 17:59	25
Hexachlorobutadiene	ND		10	7.0	ug/L			07/17/14 17:59	25
Isopropyl ether	ND	*	250	15	ug/L			07/17/14 17:59	25

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: REW-11-20140714

Lab Sample ID: 480-63716-11

Date Collected: 07/14/14 10:10

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		25	20	ug/L			07/17/14 17:59	25
Methyl tert-butyl ether	ND		25	4.0	ug/L			07/17/14 17:59	25
Methylene Chloride	ND		25	11	ug/L			07/17/14 17:59	25
m-Xylene & p-Xylene	ND		50	17	ug/L			07/17/14 17:59	25
Naphthalene	ND		130	11	ug/L			07/17/14 17:59	25
n-Butylbenzene	ND		25	16	ug/L			07/17/14 17:59	25
N-Propylbenzene	ND		25	17	ug/L			07/17/14 17:59	25
o-Xylene	ND		25	19	ug/L			07/17/14 17:59	25
sec-Butylbenzene	ND		25	19	ug/L			07/17/14 17:59	25
Styrene	ND		25	18	ug/L			07/17/14 17:59	25
Tert-amyl methyl ether	ND		130	6.8	ug/L			07/17/14 17:59	25
Tert-butyl ethyl ether	ND		130	7.4	ug/L			07/17/14 17:59	25
tert-Butylbenzene	ND		25	20	ug/L			07/17/14 17:59	25
Tetrachloroethene	15	J	25	9.0	ug/L			07/17/14 17:59	25
Tetrahydrofuran	ND	*	250	31	ug/L			07/17/14 17:59	25
Toluene	ND		25	13	ug/L			07/17/14 17:59	25
trans-1,2-Dichloroethene	ND		25	23	ug/L			07/17/14 17:59	25
trans-1,3-Dichloropropene	ND		10	9.3	ug/L			07/17/14 17:59	25
Trichloroethene	500		25	12	ug/L			07/17/14 17:59	25
Trichlorofluoromethane	ND		25	22	ug/L			07/17/14 17:59	25
Vinyl chloride	140		25	23	ug/L			07/17/14 17:59	25
Dibromomethane	ND		25	10	ug/L			07/17/14 17:59	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		07/17/14 17:59	25
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		07/17/14 17:59	25
4-Bromofluorobenzene (Surr)	97		70 - 130		07/17/14 17:59	25

Client Sample ID: REW-12-20140714

Lab Sample ID: 480-63716-12

Date Collected: 07/14/14 07:05

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0	1.4	ug/L			07/17/14 18:23	4
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			07/17/14 18:23	4
1,1,1,2-Tetrachloroethane	ND		2.0	0.84	ug/L			07/17/14 18:23	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			07/17/14 18:23	4
1,1-Dichloroethane	1.5	J	4.0	1.5	ug/L			07/17/14 18:23	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			07/17/14 18:23	4
1,1-Dichloropropene	ND		4.0	2.9	ug/L			07/17/14 18:23	4
1,2,3-Trichlorobenzene	ND		4.0	1.6	ug/L			07/17/14 18:23	4
1,2,3-Trichloropropane	ND		4.0	3.6	ug/L			07/17/14 18:23	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			07/17/14 18:23	4
1,2,4-Trimethylbenzene	ND		4.0	3.0	ug/L			07/17/14 18:23	4
1,2-Dibromo-3-Chloropropane	ND		20	1.6	ug/L			07/17/14 18:23	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			07/17/14 18:23	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			07/17/14 18:23	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			07/17/14 18:23	4
1,3,5-Trimethylbenzene	ND		4.0	3.1	ug/L			07/17/14 18:23	4

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: REW-12-20140714

Lab Sample ID: 480-63716-12

Date Collected: 07/14/14 07:05

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			07/17/14 18:23	4
1,3-Dichloropropane	ND		4.0	3.0	ug/L			07/17/14 18:23	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			07/17/14 18:23	4
1,4-Dioxane	ND		200	37	ug/L			07/17/14 18:23	4
2,2-Dichloropropane	ND		4.0	1.6	ug/L			07/17/14 18:23	4
2-Butanone (MEK)	16	J	40	5.3	ug/L			07/17/14 18:23	4
2-Chlorotoluene	ND		4.0	3.4	ug/L			07/17/14 18:23	4
2-Hexanone	ND		40	5.0	ug/L			07/17/14 18:23	4
4-Chlorotoluene	ND		4.0	3.4	ug/L			07/17/14 18:23	4
4-Isopropyltoluene	ND		4.0	1.2	ug/L			07/17/14 18:23	4
4-Methyl-2-pentanone (MIBK)	ND		40	8.4	ug/L			07/17/14 18:23	4
Acetone	ND		200	12	ug/L			07/17/14 18:23	4
Benzene	ND		4.0	1.6	ug/L			07/17/14 18:23	4
Bromobenzene	ND		4.0	3.2	ug/L			07/17/14 18:23	4
Bromoform	ND		4.0	1.0	ug/L			07/17/14 18:23	4
Bromomethane	ND		8.0	2.8	ug/L			07/17/14 18:23	4
Carbon disulfide	ND		40	0.76	ug/L			07/17/14 18:23	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			07/17/14 18:23	4
Chlorobenzene	ND		4.0	3.0	ug/L			07/17/14 18:23	4
Chlorobromomethane	ND		4.0	3.5	ug/L			07/17/14 18:23	4
Chlorodibromomethane	ND		2.0	1.3	ug/L			07/17/14 18:23	4
Chloroethane	ND	*	8.0	1.3	ug/L			07/17/14 18:23	4
Chloroform	ND		4.0	1.4	ug/L			07/17/14 18:23	4
Chloromethane	ND	*	8.0	1.4	ug/L			07/17/14 18:23	4
cis-1,2-Dichloroethene	290		4.0	3.2	ug/L			07/17/14 18:23	4
cis-1,3-Dichloropropene	ND		1.6	1.4	ug/L			07/17/14 18:23	4
Dichlorobromomethane	ND		2.0	1.6	ug/L			07/17/14 18:23	4
Dichlorodifluoromethane	ND	*	4.0	2.7	ug/L			07/17/14 18:23	4
Ethyl ether	ND		4.0	2.9	ug/L			07/17/14 18:23	4
Ethylbenzene	ND		4.0	3.0	ug/L			07/17/14 18:23	4
Ethylene Dibromide	ND		4.0	2.9	ug/L			07/17/14 18:23	4
Hexachlorobutadiene	ND		1.6	1.1	ug/L			07/17/14 18:23	4
Isopropyl ether	ND	*	40	2.4	ug/L			07/17/14 18:23	4
Isopropylbenzene	ND		4.0	3.2	ug/L			07/17/14 18:23	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			07/17/14 18:23	4
Methylene Chloride	ND		4.0	1.8	ug/L			07/17/14 18:23	4
m-Xylene & p-Xylene	ND		8.0	2.6	ug/L			07/17/14 18:23	4
Naphthalene	ND		20	1.7	ug/L			07/17/14 18:23	4
n-Butylbenzene	ND		4.0	2.6	ug/L			07/17/14 18:23	4
N-Propylbenzene	ND		4.0	2.8	ug/L			07/17/14 18:23	4
o-Xylene	ND		4.0	3.0	ug/L			07/17/14 18:23	4
sec-Butylbenzene	ND		4.0	3.0	ug/L			07/17/14 18:23	4
Styrene	ND		4.0	2.9	ug/L			07/17/14 18:23	4
Tert-amyl methyl ether	ND		20	1.1	ug/L			07/17/14 18:23	4
Tert-butyl ethyl ether	ND		20	1.2	ug/L			07/17/14 18:23	4
tert-Butylbenzene	ND		4.0	3.2	ug/L			07/17/14 18:23	4
Tetrachloroethene	3.1	J	4.0	1.4	ug/L			07/17/14 18:23	4
Tetrahydrofuran	ND	*	40	5.0	ug/L			07/17/14 18:23	4
Toluene	39		4.0	2.0	ug/L			07/17/14 18:23	4

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: REW-12-20140714

Lab Sample ID: 480-63716-12

Date Collected: 07/14/14 07:05

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			07/17/14 18:23	4
trans-1,3-Dichloropropene	ND		1.6	1.5	ug/L			07/17/14 18:23	4
Trichloroethene	59		4.0	1.8	ug/L			07/17/14 18:23	4
Trichlorofluoromethane	ND		4.0	3.5	ug/L			07/17/14 18:23	4
Vinyl chloride	52		4.0	3.6	ug/L			07/17/14 18:23	4
Dibromomethane	ND		4.0	1.6	ug/L			07/17/14 18:23	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130					07/17/14 18:23	4
1,2-Dichloroethane-d4 (Surr)	110		70 - 130					07/17/14 18:23	4
4-Bromofluorobenzene (Surr)	97		70 - 130					07/17/14 18:23	4

Client Sample ID: DUP-20140714

Lab Sample ID: 480-63716-13

Date Collected: 07/14/14 00:00

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20	7.0	ug/L			07/17/14 18:47	20
1,1,1-Trichloroethane	ND		20	16	ug/L			07/17/14 18:47	20
1,1,2,2-Tetrachloroethane	ND		10	4.2	ug/L			07/17/14 18:47	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			07/17/14 18:47	20
1,1-Dichloroethane	ND		20	7.6	ug/L			07/17/14 18:47	20
1,1-Dichloroethene	ND		20	5.8	ug/L			07/17/14 18:47	20
1,1-Dichloropropene	ND		20	14	ug/L			07/17/14 18:47	20
1,2,3-Trichlorobenzene	ND		20	8.2	ug/L			07/17/14 18:47	20
1,2,3-Trichloropropane	ND		20	18	ug/L			07/17/14 18:47	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			07/17/14 18:47	20
1,2,4-Trimethylbenzene	ND		20	15	ug/L			07/17/14 18:47	20
1,2-Dibromo-3-Chloropropane	ND		100	7.8	ug/L			07/17/14 18:47	20
1,2-Dichlorobenzene	ND		20	16	ug/L			07/17/14 18:47	20
1,2-Dichloroethane	ND		20	4.2	ug/L			07/17/14 18:47	20
1,2-Dichloropropane	ND		20	14	ug/L			07/17/14 18:47	20
1,3,5-Trimethylbenzene	ND		20	15	ug/L			07/17/14 18:47	20
1,3-Dichlorobenzene	ND		20	16	ug/L			07/17/14 18:47	20
1,3-Dichloropropane	ND		20	15	ug/L			07/17/14 18:47	20
1,4-Dichlorobenzene	ND		20	17	ug/L			07/17/14 18:47	20
1,4-Dioxane	ND		1000	190	ug/L			07/17/14 18:47	20
2,2-Dichloropropane	ND		20	8.0	ug/L			07/17/14 18:47	20
2-Butanone (MEK)	ND		200	26	ug/L			07/17/14 18:47	20
2-Chlorotoluene	ND		20	17	ug/L			07/17/14 18:47	20
2-Hexanone	ND		200	25	ug/L			07/17/14 18:47	20
4-Chlorotoluene	ND		20	17	ug/L			07/17/14 18:47	20
4-Isopropyltoluene	ND		20	6.2	ug/L			07/17/14 18:47	20
4-Methyl-2-pentanone (MIBK)	ND		200	42	ug/L			07/17/14 18:47	20
Acetone	ND		1000	60	ug/L			07/17/14 18:47	20
Benzene	ND		20	8.2	ug/L			07/17/14 18:47	20
Bromobenzene	ND		20	16	ug/L			07/17/14 18:47	20
Bromoform	ND		20	5.2	ug/L			07/17/14 18:47	20
Bromomethane	ND		40	14	ug/L			07/17/14 18:47	20

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: DUP-20140714

Lab Sample ID: 480-63716-13

Date Collected: 07/14/14 00:00

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		200	3.8	ug/L			07/17/14 18:47	20
Carbon tetrachloride	ND		20	5.4	ug/L			07/17/14 18:47	20
Chlorobenzene	ND		20	15	ug/L			07/17/14 18:47	20
Chlorobromomethane	ND		20	17	ug/L			07/17/14 18:47	20
Chlorodibromomethane	ND		10	6.4	ug/L			07/17/14 18:47	20
Chloroethane	ND	*	40	6.4	ug/L			07/17/14 18:47	20
Chloroform	ND		20	6.8	ug/L			07/17/14 18:47	20
Chloromethane	ND	*	40	7.0	ug/L			07/17/14 18:47	20
cis-1,2-Dichloroethene	1600		20	16	ug/L			07/17/14 18:47	20
cis-1,3-Dichloropropene	ND		8.0	7.2	ug/L			07/17/14 18:47	20
Dichlorobromomethane	ND		10	7.8	ug/L			07/17/14 18:47	20
Dichlorodifluoromethane	ND	*	20	14	ug/L			07/17/14 18:47	20
Ethyl ether	ND		20	14	ug/L			07/17/14 18:47	20
Ethylbenzene	ND		20	15	ug/L			07/17/14 18:47	20
Ethylene Dibromide	ND		20	15	ug/L			07/17/14 18:47	20
Hexachlorobutadiene	ND		8.0	5.6	ug/L			07/17/14 18:47	20
Isopropyl ether	ND	*	200	12	ug/L			07/17/14 18:47	20
Isopropylbenzene	ND		20	16	ug/L			07/17/14 18:47	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			07/17/14 18:47	20
Methylene Chloride	ND		20	8.8	ug/L			07/17/14 18:47	20
m-Xylene & p-Xylene	ND		40	13	ug/L			07/17/14 18:47	20
Naphthalene	ND		100	8.6	ug/L			07/17/14 18:47	20
n-Butylbenzene	ND		20	13	ug/L			07/17/14 18:47	20
N-Propylbenzene	ND		20	14	ug/L			07/17/14 18:47	20
o-Xylene	ND		20	15	ug/L			07/17/14 18:47	20
sec-Butylbenzene	ND		20	15	ug/L			07/17/14 18:47	20
Styrene	ND		20	15	ug/L			07/17/14 18:47	20
Tert-amyl methyl ether	ND		100	5.4	ug/L			07/17/14 18:47	20
Tert-butyl ethyl ether	ND		100	5.9	ug/L			07/17/14 18:47	20
tert-Butylbenzene	ND		20	16	ug/L			07/17/14 18:47	20
Tetrachloroethene	ND		20	7.2	ug/L			07/17/14 18:47	20
Tetrahydrofuran	ND	*	200	25	ug/L			07/17/14 18:47	20
Toluene	ND		20	10	ug/L			07/17/14 18:47	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			07/17/14 18:47	20
trans-1,3-Dichloropropene	ND		8.0	7.4	ug/L			07/17/14 18:47	20
Trichloroethene	450		20	9.2	ug/L			07/17/14 18:47	20
Trichlorofluoromethane	ND		20	18	ug/L			07/17/14 18:47	20
Vinyl chloride	130		20	18	ug/L			07/17/14 18:47	20
Dibromomethane	ND		20	8.2	ug/L			07/17/14 18:47	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		07/17/14 18:47	20
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		07/17/14 18:47	20
4-Bromofluorobenzene (Surr)	96		70 - 130		07/17/14 18:47	20

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-63716-14

Date Collected: 07/14/14 00:00

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.35	ug/L			07/17/14 19:10	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/17/14 19:10	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.21	ug/L			07/17/14 19:10	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/17/14 19:10	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/17/14 19:10	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/17/14 19:10	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			07/17/14 19:10	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/14 19:10	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			07/17/14 19:10	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/14 19:10	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			07/17/14 19:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.39	ug/L			07/17/14 19:10	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/17/14 19:10	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/17/14 19:10	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/17/14 19:10	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			07/17/14 19:10	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/17/14 19:10	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			07/17/14 19:10	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/17/14 19:10	1
1,4-Dioxane	ND		50	9.3	ug/L			07/17/14 19:10	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			07/17/14 19:10	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/17/14 19:10	1
2-Chlorotoluene	ND		1.0	0.86	ug/L			07/17/14 19:10	1
2-Hexanone	ND		10	1.2	ug/L			07/17/14 19:10	1
4-Chlorotoluene	ND		1.0	0.84	ug/L			07/17/14 19:10	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			07/17/14 19:10	1
4-Methyl-2-pentanone (MIBK)	ND		10	2.1	ug/L			07/17/14 19:10	1
Acetone	ND		50	3.0	ug/L			07/17/14 19:10	1
Benzene	ND		1.0	0.41	ug/L			07/17/14 19:10	1
Bromobenzene	ND		1.0	0.80	ug/L			07/17/14 19:10	1
Bromoform	ND		1.0	0.26	ug/L			07/17/14 19:10	1
Bromomethane	ND		2.0	0.69	ug/L			07/17/14 19:10	1
Carbon disulfide	ND		10	0.19	ug/L			07/17/14 19:10	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/17/14 19:10	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/17/14 19:10	1
Chlorobromomethane	ND		1.0	0.87	ug/L			07/17/14 19:10	1
Chlorodibromomethane	ND		0.50	0.32	ug/L			07/17/14 19:10	1
Chloroethane	ND *		2.0	0.32	ug/L			07/17/14 19:10	1
Chloroform	ND		1.0	0.34	ug/L			07/17/14 19:10	1
Chloromethane	ND *		2.0	0.35	ug/L			07/17/14 19:10	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/17/14 19:10	1
cis-1,3-Dichloropropene	ND		0.40	0.36	ug/L			07/17/14 19:10	1
Dichlorobromomethane	ND		0.50	0.39	ug/L			07/17/14 19:10	1
Dichlorodifluoromethane	ND *		1.0	0.68	ug/L			07/17/14 19:10	1
Ethyl ether	ND		1.0	0.72	ug/L			07/17/14 19:10	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/17/14 19:10	1
Ethylene Dibromide	ND		1.0	0.73	ug/L			07/17/14 19:10	1
Hexachlorobutadiene	ND		0.40	0.28	ug/L			07/17/14 19:10	1
Isopropyl ether	ND *		10	0.59	ug/L			07/17/14 19:10	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-63716-14

Date Collected: 07/14/14 00:00

Matrix: Water

Date Received: 07/15/14 01:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0	0.79	ug/L			07/17/14 19:10	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/17/14 19:10	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/17/14 19:10	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			07/17/14 19:10	1
Naphthalene	ND		5.0	0.43	ug/L			07/17/14 19:10	1
n-Butylbenzene	ND		1.0	0.64	ug/L			07/17/14 19:10	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/17/14 19:10	1
o-Xylene	ND		1.0	0.76	ug/L			07/17/14 19:10	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			07/17/14 19:10	1
Styrene	ND		1.0	0.73	ug/L			07/17/14 19:10	1
Tert-amyl methyl ether	ND		5.0	0.27	ug/L			07/17/14 19:10	1
Tert-butyl ethyl ether	ND		5.0	0.29	ug/L			07/17/14 19:10	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			07/17/14 19:10	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/17/14 19:10	1
Tetrahydrofuran	ND *		10	1.3	ug/L			07/17/14 19:10	1
Toluene	ND		1.0	0.51	ug/L			07/17/14 19:10	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/17/14 19:10	1
trans-1,3-Dichloropropene	ND		0.40	0.37	ug/L			07/17/14 19:10	1
Trichloroethene	ND		1.0	0.46	ug/L			07/17/14 19:10	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/17/14 19:10	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/17/14 19:10	1
Dibromomethane	ND		1.0	0.41	ug/L			07/17/14 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		07/17/14 19:10	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		07/17/14 19:10	1
4-Bromofluorobenzene (Surr)	94		70 - 130		07/17/14 19:10	1

Surrogate Summary

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

TestAmerica Job ID: 480-63716-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (70-130)	12DCE (70-130)	BFB (70-130)
480-63716-1	MW-267S-20140713	94	88	98
480-63716-2	MW-267M-20140713	92	89	97
480-63716-3	MW-268M-20140713	100	109	98
480-63716-3 - DL	MW-268M-20140713	91	95	88
480-63716-4	MW-560-20140713	100	108	97
480-63716-5	MW-561 553-20140713	98	109	95
480-63716-5 - DL	MW-561 553-20140713	94	95	91
480-63716-6	MW-561-20140713	97	109	99
480-63716-7	REW-6-20140714	98	110	96
480-63716-8	REW-7-20140714	98	110	98
480-63716-9	REW-8-20140714	98	107	99
480-63716-10	REW-9-20140714	97	111	96
480-63716-11	REW-11-20140714	97	111	97
480-63716-12	REW-12-20140714	101	110	97
480-63716-13	DUP-20140714	97	109	96
480-63716-14	Trip Blank	98	110	94
LCS 480-193289/10	Lab Control Sample	96	108	101
LCS 480-193534/5	Lab Control Sample	92	104	95
LCS 480-193729/4	Lab Control Sample	96	92	103
LCS 480-193870/6	Lab Control Sample	93	95	98
LCSD 480-193289/11	Lab Control Sample Dup	96	110	99
LCSD 480-193534/6	Lab Control Sample Dup	92	102	94
LCSD 480-193729/5	Lab Control Sample Dup	93	99	103
LCSD 480-193870/44	Lab Control Sample Dup	93	103	100
MB 480-193289/8	Method Blank	96	107	98
MB 480-193534/8	Method Blank	90	97	91
MB 480-193729/7	Method Blank	93	89	99
MB 480-193870/8	Method Blank	91	91	95

Surrogate Legend

TOL = Toluene-d8 (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

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

TestAmerica Job ID: 480-63716-1

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

Lab Sample ID: MB 480-193289/8

Matrix: Water

Analysis Batch: 193289

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	0.35	ug/L			07/17/14 14:02	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/17/14 14:02	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.21	ug/L			07/17/14 14:02	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/17/14 14:02	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/17/14 14:02	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/17/14 14:02	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			07/17/14 14:02	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/14 14:02	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			07/17/14 14:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/17/14 14:02	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			07/17/14 14:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.39	ug/L			07/17/14 14:02	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/17/14 14:02	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/17/14 14:02	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/17/14 14:02	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			07/17/14 14:02	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/17/14 14:02	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			07/17/14 14:02	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/17/14 14:02	1
1,4-Dioxane	ND		50	9.3	ug/L			07/17/14 14:02	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			07/17/14 14:02	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/17/14 14:02	1
2-Chlorotoluene	ND		1.0	0.86	ug/L			07/17/14 14:02	1
2-Hexanone	ND		10	1.2	ug/L			07/17/14 14:02	1
4-Chlorotoluene	ND		1.0	0.84	ug/L			07/17/14 14:02	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			07/17/14 14:02	1
4-Methyl-2-pentanone (MIBK)	ND		10	2.1	ug/L			07/17/14 14:02	1
Acetone	ND		50	3.0	ug/L			07/17/14 14:02	1
Benzene	ND		1.0	0.41	ug/L			07/17/14 14:02	1
Bromobenzene	ND		1.0	0.80	ug/L			07/17/14 14:02	1
Bromoform	ND		1.0	0.26	ug/L			07/17/14 14:02	1
Bromomethane	ND		2.0	0.69	ug/L			07/17/14 14:02	1
Carbon disulfide	ND		10	0.19	ug/L			07/17/14 14:02	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/17/14 14:02	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/17/14 14:02	1
Chlorobromomethane	ND		1.0	0.87	ug/L			07/17/14 14:02	1
Chlorodibromomethane	ND		0.50	0.32	ug/L			07/17/14 14:02	1
Chloroethane	ND		2.0	0.32	ug/L			07/17/14 14:02	1
Chloroform	ND		1.0	0.34	ug/L			07/17/14 14:02	1
Chloromethane	ND		2.0	0.35	ug/L			07/17/14 14:02	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/17/14 14:02	1
cis-1,3-Dichloropropene	ND		0.40	0.36	ug/L			07/17/14 14:02	1
Dichlorobromomethane	ND		0.50	0.39	ug/L			07/17/14 14:02	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/17/14 14:02	1
Ethyl ether	ND		1.0	0.72	ug/L			07/17/14 14:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/17/14 14:02	1
Ethylene Dibromide	ND		1.0	0.73	ug/L			07/17/14 14:02	1
Hexachlorobutadiene	ND		0.40	0.28	ug/L			07/17/14 14:02	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-63716-1

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

Lab Sample ID: MB 480-193289/8

Matrix: Water

Analysis Batch: 193289

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	0.59	ug/L			07/17/14 14:02	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/17/14 14:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/17/14 14:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/17/14 14:02	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			07/17/14 14:02	1
Naphthalene	ND		5.0	0.43	ug/L			07/17/14 14:02	1
n-Butylbenzene	ND		1.0	0.64	ug/L			07/17/14 14:02	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/17/14 14:02	1
o-Xylene	ND		1.0	0.76	ug/L			07/17/14 14:02	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			07/17/14 14:02	1
Styrene	ND		1.0	0.73	ug/L			07/17/14 14:02	1
Tert-amyl methyl ether	ND		5.0	0.27	ug/L			07/17/14 14:02	1
Tert-butyl ethyl ether	ND		5.0	0.29	ug/L			07/17/14 14:02	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			07/17/14 14:02	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/17/14 14:02	1
Tetrahydrofuran	ND		10	1.3	ug/L			07/17/14 14:02	1
Toluene	ND		1.0	0.51	ug/L			07/17/14 14:02	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/17/14 14:02	1
trans-1,3-Dichloropropene	ND		0.40	0.37	ug/L			07/17/14 14:02	1
Trichloroethene	ND		1.0	0.46	ug/L			07/17/14 14:02	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/17/14 14:02	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/17/14 14:02	1
Dibromomethane	ND		1.0	0.41	ug/L			07/17/14 14:02	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	96		70 - 130		07/17/14 14:02	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		07/17/14 14:02	1
4-Bromofluorobenzene (Surr)	98		70 - 130		07/17/14 14:02	1

Lab Sample ID: LCS 480-193289/10

Matrix: Water

Analysis Batch: 193289

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	21.9		ug/L		88	70 - 130
1,1,1-Trichloroethane	25.0	23.7		ug/L		95	70 - 130
1,1,1,2-Tetrachloroethane	25.0	24.4		ug/L		98	70 - 130
1,1,2-Trichloroethane	25.0	24.3		ug/L		97	70 - 130
1,1-Dichloroethane	25.0	27.9		ug/L		112	70 - 130
1,1-Dichloroethane	25.0	25.7		ug/L		103	70 - 130
1,1-Dichloropropene	25.0	27.1		ug/L		108	70 - 130
1,2,3-Trichlorobenzene	25.0	27.3		ug/L		109	70 - 130
1,2,3-Trichloropropane	25.0	25.7		ug/L		103	70 - 130
1,2,4-Trichlorobenzene	25.0	28.0		ug/L		112	70 - 130
1,2,4-Trimethylbenzene	25.0	26.2		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	21.0		ug/L		84	70 - 130
1,2-Dichlorobenzene	25.0	26.7		ug/L		107	70 - 130
1,2-Dichloroethane	25.0	28.3		ug/L		113	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-63716-1

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

Lab Sample ID: LCS 480-193289/10

Matrix: Water

Analysis Batch: 193289

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	27.9		ug/L		112	70 - 130
1,3,5-Trimethylbenzene	25.0	26.4		ug/L		106	70 - 130
1,3-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,3-Dichloropropane	25.0	25.1		ug/L		100	70 - 130
1,4-Dichlorobenzene	25.0	27.0		ug/L		108	70 - 130
1,4-Dioxane	500	436		ug/L		87	70 - 130
2,2-Dichloropropane	25.0	21.6		ug/L		86	70 - 130
2-Butanone (MEK)	125	147		ug/L		118	70 - 130
2-Chlorotoluene	25.0	26.3		ug/L		105	70 - 130
2-Hexanone	125	136		ug/L		109	70 - 130
4-Chlorotoluene	25.0	24.7		ug/L		99	70 - 130
4-Isopropyltoluene	25.0	27.4		ug/L		110	70 - 130
4-Methyl-2-pentanone (MIBK)	125	136		ug/L		109	70 - 130
Acetone	125	159		ug/L		127	70 - 130
Benzene	25.0	26.4		ug/L		106	70 - 130
Bromobenzene	25.0	26.3		ug/L		105	70 - 130
Bromoform	25.0	20.9		ug/L		84	70 - 130
Bromomethane	25.0	30.8		ug/L		123	70 - 130
Carbon disulfide	25.0	26.0		ug/L		104	70 - 130
Carbon tetrachloride	25.0	22.2		ug/L		89	70 - 130
Chlorobenzene	25.0	25.8		ug/L		103	70 - 130
Chlorobromomethane	25.0	27.0		ug/L		108	70 - 130
Chlorodibromomethane	25.0	23.6		ug/L		94	70 - 130
Chloroethane	25.0	34.7	*	ug/L		139	70 - 130
Chloroform	25.0	27.0		ug/L		108	70 - 130
Chloromethane	25.0	33.2	*	ug/L		133	70 - 130
cis-1,2-Dichloroethene	25.0	26.7		ug/L		107	70 - 130
cis-1,3-Dichloropropene	25.0	24.9		ug/L		100	70 - 130
Dichlorobromomethane	25.0	27.7		ug/L		111	70 - 130
Dichlorodifluoromethane	25.0	33.5	*	ug/L		134	70 - 130
Ethyl ether	25.0	26.1		ug/L		104	70 - 130
Ethylbenzene	25.0	25.6		ug/L		103	70 - 130
Ethylene Dibromide	25.0	22.4		ug/L		90	70 - 130
Hexachlorobutadiene	25.0	28.6		ug/L		115	70 - 130
Isopropyl ether	25.0	33.5	*	ug/L		134	70 - 130
Isopropylbenzene	25.0	25.3		ug/L		101	70 - 130
Methyl tert-butyl ether	25.0	26.3		ug/L		105	70 - 130
Methylene Chloride	25.0	28.9		ug/L		115	70 - 130
m-Xylene & p-Xylene	25.0	25.2		ug/L		101	70 - 130
Naphthalene	25.0	25.4		ug/L		101	70 - 130
n-Butylbenzene	25.0	26.7		ug/L		107	70 - 130
N-Propylbenzene	25.0	26.1		ug/L		104	70 - 130
o-Xylene	25.0	24.9		ug/L		100	70 - 130
sec-Butylbenzene	25.0	26.2		ug/L		105	70 - 130
Styrene	25.0	25.3		ug/L		101	70 - 130
Tert-amyl methyl ether	25.0	18.9		ug/L		76	70 - 130
Tert-butyl ethyl ether	25.0	27.8		ug/L		111	70 - 130
tert-Butylbenzene	25.0	25.2		ug/L		101	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-63716-1

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

Lab Sample ID: LCS 480-193289/10

Matrix: Water

Analysis Batch: 193289

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Tetrachloroethene	25.0	25.8		ug/L		103	70 - 130	
Tetrahydrofuran	50.0	77.3	*	ug/L		155	70 - 130	
Toluene	25.0	24.4		ug/L		98	70 - 130	
trans-1,2-Dichloroethene	25.0	25.9		ug/L		104	70 - 130	
trans-1,3-Dichloropropene	25.0	22.0		ug/L		88	70 - 130	
Trichloroethene	25.0	26.6		ug/L		106	70 - 130	
Trichlorofluoromethane	25.0	29.3		ug/L		117	70 - 130	
Vinyl chloride	25.0	31.7		ug/L		127	70 - 130	
Dibromomethane	25.0	25.9		ug/L		104	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 480-193289/11

Matrix: Water

Analysis Batch: 193289

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	Limit
1,1,1,2-Tetrachloroethane	25.0	22.2		ug/L		89	70 - 130	2	20	
1,1,1-Trichloroethane	25.0	23.5		ug/L		94	70 - 130	1	20	
1,1,1,2,2-Tetrachloroethane	25.0	23.4		ug/L		94	70 - 130	4	20	
1,1,1,2-Trichloroethane	25.0	25.2		ug/L		101	70 - 130	4	20	
1,1-Dichloroethane	25.0	26.9		ug/L		108	70 - 130	4	20	
1,1-Dichloroethene	25.0	24.0		ug/L		96	70 - 130	7	20	
1,1-Dichloropropene	25.0	25.3		ug/L		101	70 - 130	7	20	
1,2,3-Trichlorobenzene	25.0	26.6		ug/L		106	70 - 130	3	20	
1,2,3-Trichloropropane	25.0	23.8		ug/L		95	70 - 130	8	20	
1,2,4-Trichlorobenzene	25.0	27.1		ug/L		108	70 - 130	3	20	
1,2,4-Trimethylbenzene	25.0	25.1		ug/L		100	70 - 130	4	20	
1,2-Dibromo-3-Chloropropane	25.0	21.3		ug/L		85	70 - 130	2	20	
1,2-Dichlorobenzene	25.0	25.9		ug/L		103	70 - 130	3	20	
1,2-Dichloroethane	25.0	27.9		ug/L		112	70 - 130	1	20	
1,2-Dichloropropane	25.0	27.1		ug/L		108	70 - 130	3	20	
1,3,5-Trimethylbenzene	25.0	24.9		ug/L		100	70 - 130	6	20	
1,3-Dichlorobenzene	25.0	25.5		ug/L		102	70 - 130	3	20	
1,3-Dichloropropane	25.0	24.2		ug/L		97	70 - 130	4	20	
1,4-Dichlorobenzene	25.0	25.8		ug/L		103	70 - 130	4	20	
1,4-Dioxane	500	513		ug/L		103	70 - 130	16	20	
2,2-Dichloropropane	25.0	21.6		ug/L		87	70 - 130	0	20	
2-Butanone (MEK)	125	139		ug/L		111	70 - 130	6	20	
2-Chlorotoluene	25.0	24.4		ug/L		98	70 - 130	7	20	
2-Hexanone	125	137		ug/L		110	70 - 130	1	20	
4-Chlorotoluene	25.0	23.4		ug/L		94	70 - 130	5	20	
4-Isopropyltoluene	25.0	25.7		ug/L		103	70 - 130	7	20	
4-Methyl-2-pentanone (MIBK)	125	138		ug/L		110	70 - 130	2	20	
Acetone	125	156		ug/L		125	70 - 130	2	20	

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-63716-1

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

Lab Sample ID: LCSD 480-193289/11

Matrix: Water

Analysis Batch: 193289

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	25.6		ug/L		102	70 - 130	3	20	
Bromobenzene	25.0	25.1		ug/L		100	70 - 130	5	20	
Bromoform	25.0	20.8		ug/L		83	70 - 130	1	20	
Bromomethane	25.0	29.5		ug/L		118	70 - 130	4	20	
Carbon disulfide	25.0	25.0		ug/L		100	70 - 130	4	20	
Carbon tetrachloride	25.0	20.9		ug/L		84	70 - 130	6	20	
Chlorobenzene	25.0	25.1		ug/L		100	70 - 130	3	20	
Chlorobromomethane	25.0	26.3		ug/L		105	70 - 130	3	20	
Chlorodibromomethane	25.0	24.7		ug/L		99	70 - 130	4	20	
Chloroethane	25.0	34.2	*	ug/L		137	70 - 130	2	20	
Chloroform	25.0	26.4		ug/L		106	70 - 130	2	20	
Chloromethane	25.0	33.6	*	ug/L		135	70 - 130	1	20	
cis-1,2-Dichloroethene	25.0	26.1		ug/L		104	70 - 130	2	20	
cis-1,3-Dichloropropene	25.0	24.2		ug/L		97	70 - 130	3	20	
Dichlorobromomethane	25.0	27.1		ug/L		109	70 - 130	2	20	
Dichlorodifluoromethane	25.0	32.6		ug/L		130	70 - 130	3	20	
Ethyl ether	25.0	25.4		ug/L		102	70 - 130	2	20	
Ethylbenzene	25.0	25.0		ug/L		100	70 - 130	3	20	
Ethylene Dibromide	25.0	22.9		ug/L		92	70 - 130	3	20	
Hexachlorobutadiene	25.0	26.5		ug/L		106	70 - 130	8	20	
Isopropyl ether	25.0	32.8	*	ug/L		131	70 - 130	2	20	
Isopropylbenzene	25.0	24.7		ug/L		99	70 - 130	2	20	
Methyl tert-butyl ether	25.0	25.7		ug/L		103	70 - 130	3	20	
Methylene Chloride	25.0	26.9		ug/L		108	70 - 130	7	20	
m-Xylene & p-Xylene	25.0	24.4		ug/L		98	70 - 130	3	20	
Naphthalene	25.0	24.8		ug/L		99	70 - 130	2	20	
n-Butylbenzene	25.0	25.3		ug/L		101	70 - 130	5	20	
N-Propylbenzene	25.0	24.4		ug/L		98	70 - 130	7	20	
o-Xylene	25.0	24.3		ug/L		97	70 - 130	3	20	
sec-Butylbenzene	25.0	24.3		ug/L		97	70 - 130	7	20	
Styrene	25.0	24.7		ug/L		99	70 - 130	2	20	
Tert-amyl methyl ether	25.0	18.8		ug/L		75	70 - 130	1	20	
Tert-butyl ethyl ether	25.0	27.1		ug/L		108	70 - 130	2	20	
tert-Butylbenzene	25.0	24.2		ug/L		97	70 - 130	4	20	
Tetrachloroethene	25.0	25.8		ug/L		103	70 - 130	0	20	
Tetrahydrofuran	50.0	74.2	*	ug/L		148	70 - 130	4	20	
Toluene	25.0	24.3		ug/L		97	70 - 130	1	20	
trans-1,2-Dichloroethene	25.0	24.6		ug/L		99	70 - 130	5	20	
trans-1,3-Dichloropropene	25.0	22.7		ug/L		91	70 - 130	3	20	
Trichloroethene	25.0	26.2		ug/L		105	70 - 130	2	20	
Trichlorofluoromethane	25.0	29.4		ug/L		117	70 - 130	0	20	
Vinyl chloride	25.0	30.8		ug/L		123	70 - 130	3	20	
Dibromomethane	25.0	25.5		ug/L		102	70 - 130	2	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	110		70 - 130
4-Bromofluorobenzene (Surr)	99		70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-63716-1

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

Lab Sample ID: MB 480-193534/8

Matrix: Water

Analysis Batch: 193534

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	0.35	ug/L			07/18/14 13:26	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/18/14 13:26	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.21	ug/L			07/18/14 13:26	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/18/14 13:26	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/18/14 13:26	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/18/14 13:26	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			07/18/14 13:26	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/14 13:26	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			07/18/14 13:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/18/14 13:26	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			07/18/14 13:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.39	ug/L			07/18/14 13:26	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/18/14 13:26	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/18/14 13:26	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/18/14 13:26	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			07/18/14 13:26	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/18/14 13:26	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			07/18/14 13:26	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/18/14 13:26	1
1,4-Dioxane	ND		50	9.3	ug/L			07/18/14 13:26	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			07/18/14 13:26	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/18/14 13:26	1
2-Chlorotoluene	ND		1.0	0.86	ug/L			07/18/14 13:26	1
2-Hexanone	ND		10	1.2	ug/L			07/18/14 13:26	1
4-Chlorotoluene	ND		1.0	0.84	ug/L			07/18/14 13:26	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			07/18/14 13:26	1
4-Methyl-2-pentanone (MIBK)	ND		10	2.1	ug/L			07/18/14 13:26	1
Acetone	ND		50	3.0	ug/L			07/18/14 13:26	1
Benzene	ND		1.0	0.41	ug/L			07/18/14 13:26	1
Bromobenzene	ND		1.0	0.80	ug/L			07/18/14 13:26	1
Bromoform	ND		1.0	0.26	ug/L			07/18/14 13:26	1
Bromomethane	ND		2.0	0.69	ug/L			07/18/14 13:26	1
Carbon disulfide	ND		10	0.19	ug/L			07/18/14 13:26	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/18/14 13:26	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/18/14 13:26	1
Chlorobromomethane	ND		1.0	0.87	ug/L			07/18/14 13:26	1
Chlorodibromomethane	ND		0.50	0.32	ug/L			07/18/14 13:26	1
Chloroethane	ND		2.0	0.32	ug/L			07/18/14 13:26	1
Chloroform	ND		1.0	0.34	ug/L			07/18/14 13:26	1
Chloromethane	ND		2.0	0.35	ug/L			07/18/14 13:26	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/18/14 13:26	1
cis-1,3-Dichloropropene	ND		0.40	0.36	ug/L			07/18/14 13:26	1
Dichlorobromomethane	ND		0.50	0.39	ug/L			07/18/14 13:26	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/18/14 13:26	1
Ethyl ether	ND		1.0	0.72	ug/L			07/18/14 13:26	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/18/14 13:26	1
Ethylene Dibromide	ND		1.0	0.73	ug/L			07/18/14 13:26	1
Hexachlorobutadiene	ND		0.40	0.28	ug/L			07/18/14 13:26	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-63716-1

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

Lab Sample ID: MB 480-193534/8

Matrix: Water

Analysis Batch: 193534

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	0.59	ug/L			07/18/14 13:26	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/18/14 13:26	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/18/14 13:26	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/18/14 13:26	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			07/18/14 13:26	1
Naphthalene	ND		5.0	0.43	ug/L			07/18/14 13:26	1
n-Butylbenzene	ND		1.0	0.64	ug/L			07/18/14 13:26	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/18/14 13:26	1
o-Xylene	ND		1.0	0.76	ug/L			07/18/14 13:26	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			07/18/14 13:26	1
Styrene	ND		1.0	0.73	ug/L			07/18/14 13:26	1
Tert-amyl methyl ether	ND		5.0	0.27	ug/L			07/18/14 13:26	1
Tert-butyl ethyl ether	ND		5.0	0.29	ug/L			07/18/14 13:26	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			07/18/14 13:26	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/18/14 13:26	1
Tetrahydrofuran	ND		10	1.3	ug/L			07/18/14 13:26	1
Toluene	ND		1.0	0.51	ug/L			07/18/14 13:26	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/18/14 13:26	1
trans-1,3-Dichloropropene	ND		0.40	0.37	ug/L			07/18/14 13:26	1
Trichloroethene	ND		1.0	0.46	ug/L			07/18/14 13:26	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/18/14 13:26	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/18/14 13:26	1
Dibromomethane	ND		1.0	0.41	ug/L			07/18/14 13:26	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	90		70 - 130		07/18/14 13:26	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		07/18/14 13:26	1
4-Bromofluorobenzene (Surr)	91		70 - 130		07/18/14 13:26	1

Lab Sample ID: LCS 480-193534/5

Matrix: Water

Analysis Batch: 193534

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-Trichloroethane	25.0	23.9		ug/L		96	70 - 130
1,1,2,2-Tetrachloroethane	25.0	26.6		ug/L		107	70 - 130
1,1,2-Trichloroethane	25.0	26.2		ug/L		105	70 - 130
1,1-Dichloroethane	25.0	25.2		ug/L		101	70 - 130
1,1-Dichloroethane	25.0	24.5		ug/L		98	70 - 130
1,1-Dichloropropene	25.0	24.4		ug/L		98	70 - 130
1,2,3-Trichlorobenzene	25.0	23.7		ug/L		95	70 - 130
1,2,3-Trichloropropane	25.0	26.2		ug/L		105	70 - 130
1,2,4-Trichlorobenzene	25.0	23.2		ug/L		93	70 - 130
1,2,4-Trimethylbenzene	25.0	25.6		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.9		ug/L		100	70 - 130
1,2-Dichlorobenzene	25.0	25.0		ug/L		100	70 - 130
1,2-Dichloroethane	25.0	23.9		ug/L		96	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-63716-1

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

Lab Sample ID: LCS 480-193534/5

Matrix: Water

Analysis Batch: 193534

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	25.6		ug/L		102	70 - 130
1,3,5-Trimethylbenzene	25.0	25.1		ug/L		100	70 - 130
1,3-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130
1,3-Dichloropropane	25.0	25.3		ug/L		101	70 - 130
1,4-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130
1,4-Dioxane	500	569		ug/L		114	70 - 130
2,2-Dichloropropane	25.0	25.5		ug/L		102	70 - 130
2-Butanone (MEK)	125	245	*	ug/L		196	70 - 130
2-Chlorotoluene	25.0	25.1		ug/L		100	70 - 130
2-Hexanone	125	187	*	ug/L		150	70 - 130
4-Chlorotoluene	25.0	26.1		ug/L		104	70 - 130
4-Isopropyltoluene	25.0	25.2		ug/L		101	70 - 130
4-Methyl-2-pentanone (MIBK)	125	133		ug/L		106	70 - 130
Acetone	125	131		ug/L		105	70 - 130
Benzene	25.0	25.3		ug/L		101	70 - 130
Bromobenzene	25.0	24.9		ug/L		99	70 - 130
Bromoform	25.0	26.3		ug/L		105	70 - 130
Bromomethane	25.0	25.1		ug/L		100	70 - 130
Carbon disulfide	25.0	26.5		ug/L		106	70 - 130
Carbon tetrachloride	25.0	24.4		ug/L		98	70 - 130
Chlorobenzene	25.0	25.1		ug/L		100	70 - 130
Chlorobromomethane	25.0	25.0		ug/L		100	70 - 130
Chlorodibromomethane	25.0	26.0		ug/L		104	70 - 130
Chloroethane	25.0	25.5		ug/L		102	70 - 130
Chloroform	25.0	24.7		ug/L		99	70 - 130
Chloromethane	25.0	25.5		ug/L		102	70 - 130
cis-1,2-Dichloroethene	25.0	25.2		ug/L		101	70 - 130
cis-1,3-Dichloropropene	25.0	26.9		ug/L		108	70 - 130
Dichlorobromomethane	25.0	25.5		ug/L		102	70 - 130
Dichlorodifluoromethane	25.0	25.9		ug/L		104	70 - 130
Ethyl ether	25.0	26.6		ug/L		106	70 - 130
Ethylbenzene	25.0	24.3		ug/L		97	70 - 130
Ethylene Dibromide	25.0	25.1		ug/L		100	70 - 130
Hexachlorobutadiene	25.0	25.0		ug/L		100	70 - 130
Isopropyl ether	25.0	26.7		ug/L		107	70 - 130
Isopropylbenzene	25.0	24.5		ug/L		98	70 - 130
Methyl tert-butyl ether	25.0	24.2		ug/L		97	70 - 130
Methylene Chloride	25.0	25.5		ug/L		102	70 - 130
m-Xylene & p-Xylene	25.0	25.0		ug/L		100	70 - 130
Naphthalene	25.0	23.6		ug/L		94	70 - 130
n-Butylbenzene	25.0	25.0		ug/L		100	70 - 130
N-Propylbenzene	25.0	24.9		ug/L		100	70 - 130
o-Xylene	25.0	24.7		ug/L		99	70 - 130
sec-Butylbenzene	25.0	24.8		ug/L		99	70 - 130
Styrene	25.0	24.5		ug/L		98	70 - 130
Tert-amyl methyl ether	25.0	26.1		ug/L		104	70 - 130
Tert-butyl ethyl ether	25.0	25.1		ug/L		100	70 - 130
tert-Butylbenzene	25.0	25.3		ug/L		101	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-63716-1

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

Lab Sample ID: LCS 480-193534/5

Matrix: Water

Analysis Batch: 193534

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	25.0		ug/L		100	70 - 130
Tetrahydrofuran	50.0	54.6		ug/L		109	70 - 130
Toluene	25.0	24.9		ug/L		99	70 - 130
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	70 - 130
trans-1,3-Dichloropropene	25.0	26.1		ug/L		104	70 - 130
Trichloroethene	25.0	25.8		ug/L		103	70 - 130
Trichlorofluoromethane	25.0	23.7		ug/L		95	70 - 130
Vinyl chloride	25.0	24.9		ug/L		100	70 - 130
Dibromomethane	25.0	24.9		ug/L		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	92		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
4-Bromofluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 480-193534/6

Matrix: Water

Analysis Batch: 193534

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	25.6		ug/L		102	70 - 130	0	20
1,1,1-Trichloroethane	25.0	24.5		ug/L		98	70 - 130	2	20
1,1,1,2-Tetrachloroethane	25.0	25.2		ug/L		101	70 - 130	6	20
1,1,1,2-Trichloroethane	25.0	25.9		ug/L		104	70 - 130	1	20
1,1-Dichloroethane	25.0	25.6		ug/L		102	70 - 130	1	20
1,1-Dichloroethene	25.0	24.4		ug/L		98	70 - 130	0	20
1,1-Dichloropropene	25.0	24.8		ug/L		99	70 - 130	2	20
1,2,3-Trichlorobenzene	25.0	24.1		ug/L		96	70 - 130	2	20
1,2,3-Trichloropropane	25.0	24.9		ug/L		100	70 - 130	5	20
1,2,4-Trichlorobenzene	25.0	23.1		ug/L		92	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	25.3		ug/L		101	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	23.8		ug/L		95	70 - 130	5	20
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130	2	20
1,2-Dichloroethane	25.0	23.7		ug/L		95	70 - 130	1	20
1,2-Dichloropropane	25.0	25.6		ug/L		102	70 - 130	0	20
1,3,5-Trimethylbenzene	25.0	24.8		ug/L		99	70 - 130	1	20
1,3-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130	1	20
1,3-Dichloropropane	25.0	25.1		ug/L		100	70 - 130	1	20
1,4-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130	3	20
1,4-Dioxane	500	593		ug/L		119	70 - 130	4	20
2,2-Dichloropropane	25.0	25.7		ug/L		103	70 - 130	1	20
2-Butanone (MEK)	125	236	*	ug/L		189	70 - 130	3	20
2-Chlorotoluene	25.0	24.9		ug/L		100	70 - 130	1	20
2-Hexanone	125	183	*	ug/L		147	70 - 130	2	20
4-Chlorotoluene	25.0	25.4		ug/L		101	70 - 130	3	20
4-Isopropyltoluene	25.0	24.9		ug/L		99	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	129		ug/L		103	70 - 130	3	20
Acetone	125	126		ug/L		100	70 - 130	4	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-63716-1

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

Lab Sample ID: LCSD 480-193534/6

Matrix: Water

Analysis Batch: 193534

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Benzene	25.0	25.5		ug/L		102	70 - 130	1	20	
Bromobenzene	25.0	24.2		ug/L		97	70 - 130	3	20	
Bromoform	25.0	26.0		ug/L		104	70 - 130	1	20	
Bromomethane	25.0	24.6		ug/L		99	70 - 130	2	20	
Carbon disulfide	25.0	26.8		ug/L		107	70 - 130	1	20	
Carbon tetrachloride	25.0	25.0		ug/L		100	70 - 130	2	20	
Chlorobenzene	25.0	25.2		ug/L		101	70 - 130	0	20	
Chlorobromomethane	25.0	25.8		ug/L		103	70 - 130	3	20	
Chlorodibromomethane	25.0	25.9		ug/L		104	70 - 130	0	20	
Chloroethane	25.0	24.8		ug/L		99	70 - 130	3	20	
Chloroform	25.0	24.6		ug/L		98	70 - 130	0	20	
Chloromethane	25.0	25.3		ug/L		101	70 - 130	1	20	
cis-1,2-Dichloroethene	25.0	25.6		ug/L		102	70 - 130	2	20	
cis-1,3-Dichloropropene	25.0	26.9		ug/L		108	70 - 130	0	20	
Dichlorobromomethane	25.0	25.5		ug/L		102	70 - 130	0	20	
Dichlorodifluoromethane	25.0	25.4		ug/L		102	70 - 130	2	20	
Ethyl ether	25.0	26.0		ug/L		104	70 - 130	2	20	
Ethylbenzene	25.0	24.7		ug/L		99	70 - 130	2	20	
Ethylene Dibromide	25.0	25.1		ug/L		100	70 - 130	0	20	
Hexachlorobutadiene	25.0	24.6		ug/L		99	70 - 130	2	20	
Isopropyl ether	25.0	26.7		ug/L		107	70 - 130	0	20	
Isopropylbenzene	25.0	24.3		ug/L		97	70 - 130	1	20	
Methyl tert-butyl ether	25.0	24.0		ug/L		96	70 - 130	1	20	
Methylene Chloride	25.0	25.0		ug/L		100	70 - 130	2	20	
m-Xylene & p-Xylene	25.0	25.4		ug/L		102	70 - 130	2	20	
Naphthalene	25.0	23.5		ug/L		94	70 - 130	0	20	
n-Butylbenzene	25.0	24.8		ug/L		99	70 - 130	1	20	
N-Propylbenzene	25.0	24.3		ug/L		97	70 - 130	2	20	
o-Xylene	25.0	25.3		ug/L		101	70 - 130	2	20	
sec-Butylbenzene	25.0	24.7		ug/L		99	70 - 130	0	20	
Styrene	25.0	25.3		ug/L		101	70 - 130	3	20	
Tert-amyl methyl ether	25.0	26.4		ug/L		105	70 - 130	1	20	
Tert-butyl ethyl ether	25.0	25.7		ug/L		103	70 - 130	2	20	
tert-Butylbenzene	25.0	24.9		ug/L		100	70 - 130	1	20	
Tetrachloroethene	25.0	25.1		ug/L		100	70 - 130	0	20	
Tetrahydrofuran	50.0	53.3		ug/L		107	70 - 130	3	20	
Toluene	25.0	25.3		ug/L		101	70 - 130	2	20	
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	70 - 130	2	20	
trans-1,3-Dichloropropene	25.0	26.3		ug/L		105	70 - 130	1	20	
Trichloroethene	25.0	26.1		ug/L		104	70 - 130	1	20	
Trichlorofluoromethane	25.0	23.6		ug/L		94	70 - 130	1	20	
Vinyl chloride	25.0	24.4		ug/L		98	70 - 130	2	20	
Dibromomethane	25.0	25.0		ug/L		100	70 - 130	0	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	92		70 - 130
1,2-Dichloroethane-d4 (Surr)	102		70 - 130
4-Bromofluorobenzene (Surr)	94		70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-63716-1

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

Lab Sample ID: MB 480-193729/7

Matrix: Water

Analysis Batch: 193729

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	0.35	ug/L			07/19/14 15:17	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/19/14 15:17	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.21	ug/L			07/19/14 15:17	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/19/14 15:17	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/19/14 15:17	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/19/14 15:17	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			07/19/14 15:17	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/19/14 15:17	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			07/19/14 15:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/19/14 15:17	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			07/19/14 15:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.39	ug/L			07/19/14 15:17	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/19/14 15:17	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/19/14 15:17	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/19/14 15:17	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			07/19/14 15:17	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/19/14 15:17	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			07/19/14 15:17	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/19/14 15:17	1
1,4-Dioxane	ND		50	9.3	ug/L			07/19/14 15:17	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			07/19/14 15:17	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/19/14 15:17	1
2-Chlorotoluene	ND		1.0	0.86	ug/L			07/19/14 15:17	1
2-Hexanone	ND		10	1.2	ug/L			07/19/14 15:17	1
4-Chlorotoluene	ND		1.0	0.84	ug/L			07/19/14 15:17	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			07/19/14 15:17	1
4-Methyl-2-pentanone (MIBK)	ND		10	2.1	ug/L			07/19/14 15:17	1
Acetone	ND		50	3.0	ug/L			07/19/14 15:17	1
Benzene	ND		1.0	0.41	ug/L			07/19/14 15:17	1
Bromobenzene	ND		1.0	0.80	ug/L			07/19/14 15:17	1
Bromoform	ND		1.0	0.26	ug/L			07/19/14 15:17	1
Bromomethane	ND		2.0	0.69	ug/L			07/19/14 15:17	1
Carbon disulfide	ND		10	0.19	ug/L			07/19/14 15:17	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/19/14 15:17	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/19/14 15:17	1
Chlorobromomethane	ND		1.0	0.87	ug/L			07/19/14 15:17	1
Chlorodibromomethane	ND		0.50	0.32	ug/L			07/19/14 15:17	1
Chloroethane	ND		2.0	0.32	ug/L			07/19/14 15:17	1
Chloroform	ND		1.0	0.34	ug/L			07/19/14 15:17	1
Chloromethane	ND		2.0	0.35	ug/L			07/19/14 15:17	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/19/14 15:17	1
cis-1,3-Dichloropropene	ND		0.40	0.36	ug/L			07/19/14 15:17	1
Dichlorobromomethane	ND		0.50	0.39	ug/L			07/19/14 15:17	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/19/14 15:17	1
Ethyl ether	ND		1.0	0.72	ug/L			07/19/14 15:17	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/19/14 15:17	1
Ethylene Dibromide	ND		1.0	0.73	ug/L			07/19/14 15:17	1
Hexachlorobutadiene	ND		0.40	0.28	ug/L			07/19/14 15:17	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-63716-1

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

Lab Sample ID: MB 480-193729/7

Matrix: Water

Analysis Batch: 193729

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	0.59	ug/L			07/19/14 15:17	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/19/14 15:17	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/19/14 15:17	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/19/14 15:17	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			07/19/14 15:17	1
Naphthalene	ND		5.0	0.43	ug/L			07/19/14 15:17	1
n-Butylbenzene	ND		1.0	0.64	ug/L			07/19/14 15:17	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/19/14 15:17	1
o-Xylene	ND		1.0	0.76	ug/L			07/19/14 15:17	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			07/19/14 15:17	1
Styrene	ND		1.0	0.73	ug/L			07/19/14 15:17	1
Tert-amyl methyl ether	ND		5.0	0.27	ug/L			07/19/14 15:17	1
Tert-butyl ethyl ether	ND		5.0	0.29	ug/L			07/19/14 15:17	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			07/19/14 15:17	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/19/14 15:17	1
Tetrahydrofuran	ND		10	1.3	ug/L			07/19/14 15:17	1
Toluene	ND		1.0	0.51	ug/L			07/19/14 15:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/19/14 15:17	1
trans-1,3-Dichloropropene	ND		0.40	0.37	ug/L			07/19/14 15:17	1
Trichloroethene	ND		1.0	0.46	ug/L			07/19/14 15:17	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/19/14 15:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/19/14 15:17	1
Dibromomethane	ND		1.0	0.41	ug/L			07/19/14 15:17	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	93		70 - 130		07/19/14 15:17	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 130		07/19/14 15:17	1
4-Bromofluorobenzene (Surr)	99		70 - 130		07/19/14 15:17	1

Lab Sample ID: LCS 480-193729/4

Matrix: Water

Analysis Batch: 193729

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	25.8		ug/L		103	70 - 130
1,1,1-Trichloroethane	25.0	24.5		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.3		ug/L		93	70 - 130
1,1,2-Trichloroethane	25.0	24.5		ug/L		98	70 - 130
1,1-Dichloroethane	25.0	23.3		ug/L		93	70 - 130
1,1-Dichloroethane	25.0	24.1		ug/L		96	70 - 130
1,1-Dichloropropene	25.0	24.1		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	25.0	24.1		ug/L		96	70 - 130
1,2,3-Trichloropropane	25.0	24.3		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	25.0	24.1		ug/L		96	70 - 130
1,2,4-Trimethylbenzene	25.0	24.9		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	22.2		ug/L		89	70 - 130
1,2-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,2-Dichloroethane	25.0	22.2		ug/L		89	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-63716-1

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

Lab Sample ID: LCS 480-193729/4

Matrix: Water

Analysis Batch: 193729

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	23.6		ug/L		94	70 - 130
1,3,5-Trimethylbenzene	25.0	24.9		ug/L		100	70 - 130
1,3-Dichlorobenzene	25.0	23.7		ug/L		95	70 - 130
1,3-Dichloropropane	25.0	23.9		ug/L		96	70 - 130
1,4-Dichlorobenzene	25.0	24.1		ug/L		97	70 - 130
1,4-Dioxane	500	450		ug/L		90	70 - 130
2,2-Dichloropropane	25.0	25.6		ug/L		102	70 - 130
2-Butanone (MEK)	125	208	*	ug/L		167	70 - 130
2-Chlorotoluene	25.0	24.2		ug/L		97	70 - 130
2-Hexanone	125	164	*	ug/L		131	70 - 130
4-Chlorotoluene	25.0	24.7		ug/L		99	70 - 130
4-Isopropyltoluene	25.0	25.2		ug/L		101	70 - 130
4-Methyl-2-pentanone (MIBK)	125	116		ug/L		93	70 - 130
Acetone	125	108		ug/L		86	70 - 130
Benzene	25.0	23.9		ug/L		96	70 - 130
Bromobenzene	25.0	23.7		ug/L		95	70 - 130
Bromoform	25.0	25.8		ug/L		103	70 - 130
Bromomethane	25.0	25.1		ug/L		100	70 - 130
Carbon disulfide	25.0	23.2		ug/L		93	70 - 130
Carbon tetrachloride	25.0	25.3		ug/L		101	70 - 130
Chlorobenzene	25.0	24.8		ug/L		99	70 - 130
Chlorobromomethane	25.0	24.8		ug/L		99	70 - 130
Chlorodibromomethane	25.0	25.6		ug/L		103	70 - 130
Chloroethane	25.0	24.9		ug/L		100	70 - 130
Chloroform	25.0	23.7		ug/L		95	70 - 130
Chloromethane	25.0	22.0		ug/L		88	70 - 130
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	70 - 130
cis-1,3-Dichloropropene	25.0	25.6		ug/L		103	70 - 130
Dichlorobromomethane	25.0	24.1		ug/L		96	70 - 130
Dichlorodifluoromethane	25.0	25.0		ug/L		100	70 - 130
Ethyl ether	25.0	24.1		ug/L		97	70 - 130
Ethylbenzene	25.0	24.7		ug/L		99	70 - 130
Ethylene Dibromide	25.0	24.6		ug/L		98	70 - 130
Hexachlorobutadiene	25.0	25.6		ug/L		102	70 - 130
Isopropyl ether	25.0	25.2		ug/L		101	70 - 130
Isopropylbenzene	25.0	24.9		ug/L		100	70 - 130
Methyl tert-butyl ether	25.0	24.1		ug/L		96	70 - 130
Methylene Chloride	25.0	23.5		ug/L		94	70 - 130
m-Xylene & p-Xylene	25.0	25.7		ug/L		103	70 - 130
Naphthalene	25.0	23.7		ug/L		95	70 - 130
n-Butylbenzene	25.0	24.4		ug/L		98	70 - 130
N-Propylbenzene	25.0	24.5		ug/L		98	70 - 130
o-Xylene	25.0	25.9		ug/L		103	70 - 130
sec-Butylbenzene	25.0	24.7		ug/L		99	70 - 130
Styrene	25.0	25.1		ug/L		100	70 - 130
Tert-amyl methyl ether	25.0	26.2		ug/L		105	70 - 130
Tert-butyl ethyl ether	25.0	24.9		ug/L		100	70 - 130
tert-Butylbenzene	25.0	25.4		ug/L		102	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-63716-1

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

Lab Sample ID: LCS 480-193729/4

Matrix: Water

Analysis Batch: 193729

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Tetrachloroethene	25.0	26.1		ug/L		105	70 - 130	
Tetrahydrofuran	50.0	46.2		ug/L		92	70 - 130	
Toluene	25.0	24.9		ug/L		100	70 - 130	
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130	
trans-1,3-Dichloropropene	25.0	25.2		ug/L		101	70 - 130	
Trichloroethene	25.0	25.3		ug/L		101	70 - 130	
Trichlorofluoromethane	25.0	25.9		ug/L		104	70 - 130	
Vinyl chloride	25.0	23.7		ug/L		95	70 - 130	
Dibromomethane	25.0	23.3		ug/L		93	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	92		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 480-193729/5

Matrix: Water

Analysis Batch: 193729

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	26.2		ug/L		105	70 - 130	1	20	
1,1,1-Trichloroethane	25.0	25.3		ug/L		101	70 - 130	3	20	
1,1,1,2,2-Tetrachloroethane	25.0	23.6		ug/L		94	70 - 130	1	20	
1,1,1,2-Trichloroethane	25.0	24.9		ug/L		100	70 - 130	2	20	
1,1-Dichloroethane	25.0	23.9		ug/L		96	70 - 130	2	20	
1,1-Dichloroethene	25.0	24.7		ug/L		99	70 - 130	2	20	
1,1-Dichloropropene	25.0	25.2		ug/L		101	70 - 130	4	20	
1,2,3-Trichlorobenzene	25.0	25.1		ug/L		101	70 - 130	4	20	
1,2,3-Trichloropropane	25.0	24.4		ug/L		98	70 - 130	1	20	
1,2,4-Trichlorobenzene	25.0	24.9		ug/L		100	70 - 130	3	20	
1,2,4-Trimethylbenzene	25.0	25.6		ug/L		103	70 - 130	3	20	
1,2-Dibromo-3-Chloropropane	25.0	22.5		ug/L		90	70 - 130	1	20	
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	70 - 130	2	20	
1,2-Dichloroethane	25.0	22.3		ug/L		89	70 - 130	0	20	
1,2-Dichloropropane	25.0	23.8		ug/L		95	70 - 130	1	20	
1,3,5-Trimethylbenzene	25.0	25.9		ug/L		104	70 - 130	4	20	
1,3-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130	4	20	
1,3-Dichloropropane	25.0	24.0		ug/L		96	70 - 130	0	20	
1,4-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130	2	20	
1,4-Dioxane	500	553		ug/L		111	70 - 130	20	20	
2,2-Dichloropropane	25.0	25.9		ug/L		104	70 - 130	1	20	
2-Butanone (MEK)	125	209	*	ug/L		167	70 - 130	0	20	
2-Chlorotoluene	25.0	25.0		ug/L		100	70 - 130	3	20	
2-Hexanone	125	164	*	ug/L		132	70 - 130	1	20	
4-Chlorotoluene	25.0	25.4		ug/L		102	70 - 130	3	20	
4-Isopropyltoluene	25.0	26.2		ug/L		105	70 - 130	4	20	
4-Methyl-2-pentanone (MIBK)	125	116		ug/L		93	70 - 130	0	20	
Acetone	125	109		ug/L		87	70 - 130	1	20	

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-63716-1

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

Lab Sample ID: LCSD 480-193729/5

Matrix: Water

Analysis Batch: 193729

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	24.2		ug/L		97	70 - 130	1	20	
Bromobenzene	25.0	24.7		ug/L		99	70 - 130	4	20	
Bromoform	25.0	26.1		ug/L		104	70 - 130	1	20	
Bromomethane	25.0	25.3		ug/L		101	70 - 130	1	20	
Carbon disulfide	25.0	24.0		ug/L		96	70 - 130	4	20	
Carbon tetrachloride	25.0	25.8		ug/L		103	70 - 130	2	20	
Chlorobenzene	25.0	25.1		ug/L		100	70 - 130	1	20	
Chlorobromomethane	25.0	24.6		ug/L		98	70 - 130	1	20	
Chlorodibromomethane	25.0	25.8		ug/L		103	70 - 130	1	20	
Chloroethane	25.0	25.2		ug/L		101	70 - 130	1	20	
Chloroform	25.0	24.1		ug/L		96	70 - 130	2	20	
Chloromethane	25.0	22.1		ug/L		88	70 - 130	0	20	
cis-1,2-Dichloroethene	25.0	25.1		ug/L		100	70 - 130	2	20	
cis-1,3-Dichloropropene	25.0	26.3		ug/L		105	70 - 130	2	20	
Dichlorobromomethane	25.0	24.4		ug/L		98	70 - 130	1	20	
Dichlorodifluoromethane	25.0	25.3		ug/L		101	70 - 130	1	20	
Ethyl ether	25.0	24.1		ug/L		96	70 - 130	0	20	
Ethylbenzene	25.0	25.6		ug/L		102	70 - 130	4	20	
Ethylene Dibromide	25.0	25.0		ug/L		100	70 - 130	1	20	
Hexachlorobutadiene	25.0	26.3		ug/L		105	70 - 130	3	20	
Isopropyl ether	25.0	25.0		ug/L		100	70 - 130	1	20	
Isopropylbenzene	25.0	25.7		ug/L		103	70 - 130	3	20	
Methyl tert-butyl ether	25.0	24.3		ug/L		97	70 - 130	1	20	
Methylene Chloride	25.0	23.7		ug/L		95	70 - 130	1	20	
m-Xylene & p-Xylene	25.0	26.0		ug/L		104	70 - 130	1	20	
Naphthalene	25.0	25.0		ug/L		100	70 - 130	5	20	
n-Butylbenzene	25.0	25.1		ug/L		101	70 - 130	3	20	
N-Propylbenzene	25.0	25.1		ug/L		100	70 - 130	2	20	
o-Xylene	25.0	25.8		ug/L		103	70 - 130	0	20	
sec-Butylbenzene	25.0	25.4		ug/L		102	70 - 130	3	20	
Styrene	25.0	25.6		ug/L		102	70 - 130	2	20	
Tert-amyl methyl ether	25.0	26.4		ug/L		105	70 - 130	1	20	
Tert-butyl ethyl ether	25.0	25.2		ug/L		101	70 - 130	1	20	
tert-Butylbenzene	25.0	26.3		ug/L		105	70 - 130	4	20	
Tetrachloroethene	25.0	27.1		ug/L		108	70 - 130	4	20	
Tetrahydrofuran	50.0	45.6		ug/L		91	70 - 130	1	20	
Toluene	25.0	25.3		ug/L		101	70 - 130	2	20	
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	70 - 130	0	20	
trans-1,3-Dichloropropene	25.0	26.1		ug/L		104	70 - 130	3	20	
Trichloroethene	25.0	25.9		ug/L		104	70 - 130	2	20	
Trichlorofluoromethane	25.0	26.1		ug/L		104	70 - 130	1	20	
Vinyl chloride	25.0	23.7		ug/L		95	70 - 130	0	20	
Dibromomethane	25.0	24.2		ug/L		97	70 - 130	4	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	93		70 - 130
1,2-Dichloroethane-d4 (Surr)	99		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: 480-63716-1

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

Lab Sample ID: MB 480-193870/8

Matrix: Water

Analysis Batch: 193870

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	0.35	ug/L			07/21/14 12:52	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			07/21/14 12:52	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.21	ug/L			07/21/14 12:52	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			07/21/14 12:52	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			07/21/14 12:52	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			07/21/14 12:52	1
1,1-Dichloropropene	ND		1.0	0.72	ug/L			07/21/14 12:52	1
1,2,3-Trichlorobenzene	ND		1.0	0.41	ug/L			07/21/14 12:52	1
1,2,3-Trichloropropane	ND		1.0	0.89	ug/L			07/21/14 12:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			07/21/14 12:52	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			07/21/14 12:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0	0.39	ug/L			07/21/14 12:52	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			07/21/14 12:52	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			07/21/14 12:52	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			07/21/14 12:52	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			07/21/14 12:52	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			07/21/14 12:52	1
1,3-Dichloropropane	ND		1.0	0.75	ug/L			07/21/14 12:52	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			07/21/14 12:52	1
1,4-Dioxane	ND		50	9.3	ug/L			07/21/14 12:52	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			07/21/14 12:52	1
2-Butanone (MEK)	ND		10	1.3	ug/L			07/21/14 12:52	1
2-Chlorotoluene	ND		1.0	0.86	ug/L			07/21/14 12:52	1
2-Hexanone	ND		10	1.2	ug/L			07/21/14 12:52	1
4-Chlorotoluene	ND		1.0	0.84	ug/L			07/21/14 12:52	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			07/21/14 12:52	1
4-Methyl-2-pentanone (MIBK)	ND		10	2.1	ug/L			07/21/14 12:52	1
Acetone	ND		50	3.0	ug/L			07/21/14 12:52	1
Benzene	ND		1.0	0.41	ug/L			07/21/14 12:52	1
Bromobenzene	ND		1.0	0.80	ug/L			07/21/14 12:52	1
Bromoform	ND		1.0	0.26	ug/L			07/21/14 12:52	1
Bromomethane	ND		2.0	0.69	ug/L			07/21/14 12:52	1
Carbon disulfide	0.328	J	10	0.19	ug/L			07/21/14 12:52	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			07/21/14 12:52	1
Chlorobenzene	ND		1.0	0.75	ug/L			07/21/14 12:52	1
Chlorobromomethane	ND		1.0	0.87	ug/L			07/21/14 12:52	1
Chlorodibromomethane	ND		0.50	0.32	ug/L			07/21/14 12:52	1
Chloroethane	ND		2.0	0.32	ug/L			07/21/14 12:52	1
Chloroform	ND		1.0	0.34	ug/L			07/21/14 12:52	1
Chloromethane	ND		2.0	0.35	ug/L			07/21/14 12:52	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			07/21/14 12:52	1
cis-1,3-Dichloropropene	ND		0.40	0.36	ug/L			07/21/14 12:52	1
Dichlorobromomethane	ND		0.50	0.39	ug/L			07/21/14 12:52	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			07/21/14 12:52	1
Ethyl ether	ND		1.0	0.72	ug/L			07/21/14 12:52	1
Ethylbenzene	ND		1.0	0.74	ug/L			07/21/14 12:52	1
Ethylene Dibromide	ND		1.0	0.73	ug/L			07/21/14 12:52	1
Hexachlorobutadiene	ND		0.40	0.28	ug/L			07/21/14 12:52	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-63716-1

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

Lab Sample ID: MB 480-193870/8

Matrix: Water

Analysis Batch: 193870

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	0.59	ug/L			07/21/14 12:52	1
Isopropylbenzene	ND		1.0	0.79	ug/L			07/21/14 12:52	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			07/21/14 12:52	1
Methylene Chloride	ND		1.0	0.44	ug/L			07/21/14 12:52	1
m-Xylene & p-Xylene	ND		2.0	0.66	ug/L			07/21/14 12:52	1
Naphthalene	ND		5.0	0.43	ug/L			07/21/14 12:52	1
n-Butylbenzene	ND		1.0	0.64	ug/L			07/21/14 12:52	1
N-Propylbenzene	ND		1.0	0.69	ug/L			07/21/14 12:52	1
o-Xylene	ND		1.0	0.76	ug/L			07/21/14 12:52	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			07/21/14 12:52	1
Styrene	ND		1.0	0.73	ug/L			07/21/14 12:52	1
Tert-amyl methyl ether	ND		5.0	0.27	ug/L			07/21/14 12:52	1
Tert-butyl ethyl ether	ND		5.0	0.29	ug/L			07/21/14 12:52	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			07/21/14 12:52	1
Tetrachloroethene	ND		1.0	0.36	ug/L			07/21/14 12:52	1
Tetrahydrofuran	ND		10	1.3	ug/L			07/21/14 12:52	1
Toluene	ND		1.0	0.51	ug/L			07/21/14 12:52	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			07/21/14 12:52	1
trans-1,3-Dichloropropene	ND		0.40	0.37	ug/L			07/21/14 12:52	1
Trichloroethene	ND		1.0	0.46	ug/L			07/21/14 12:52	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			07/21/14 12:52	1
Vinyl chloride	ND		1.0	0.90	ug/L			07/21/14 12:52	1
Dibromomethane	ND		1.0	0.41	ug/L			07/21/14 12:52	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	91		70 - 130		07/21/14 12:52	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		07/21/14 12:52	1
4-Bromofluorobenzene (Surr)	95		70 - 130		07/21/14 12:52	1

Lab Sample ID: LCS 480-193870/6

Matrix: Water

Analysis Batch: 193870

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-Trichloroethane	25.0	27.0		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	25.0	25.8		ug/L		103	70 - 130
1,1,2-Trichloroethane	25.0	26.3		ug/L		105	70 - 130
1,1-Dichloroethane	25.0	27.3		ug/L		109	70 - 130
1,1-Dichloroethane	25.0	28.4		ug/L		114	70 - 130
1,1-Dichloropropene	25.0	27.5		ug/L		110	70 - 130
1,2,3-Trichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,2,3-Trichloropropane	25.0	25.0		ug/L		100	70 - 130
1,2,4-Trichlorobenzene	25.0	24.5		ug/L		98	70 - 130
1,2,4-Trimethylbenzene	25.0	26.3		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	23.9		ug/L		96	70 - 130
1,2-Dichlorobenzene	25.0	24.9		ug/L		100	70 - 130
1,2-Dichloroethane	25.0	24.7		ug/L		99	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-63716-1

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

Lab Sample ID: LCS 480-193870/6

Matrix: Water

Analysis Batch: 193870

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	26.6		ug/L		107	70 - 130
1,3-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130
1,3-Dichloropropane	25.0	25.4		ug/L		102	70 - 130
1,4-Dichlorobenzene	25.0	25.6		ug/L		102	70 - 130
1,4-Dioxane	500	454		ug/L		91	70 - 130
2,2-Dichloropropane	25.0	28.4		ug/L		114	70 - 130
2-Butanone (MEK)	125	164	*	ug/L		132	70 - 130
2-Chlorotoluene	25.0	25.8		ug/L		103	70 - 130
2-Hexanone	125	185	*	ug/L		148	70 - 130
4-Chlorotoluene	25.0	26.6		ug/L		107	70 - 130
4-Isopropyltoluene	25.0	26.9		ug/L		107	70 - 130
4-Methyl-2-pentanone (MIBK)	125	130		ug/L		104	70 - 130
Acetone	125	128		ug/L		103	70 - 130
Benzene	25.0	27.1		ug/L		108	70 - 130
Bromobenzene	25.0	25.4		ug/L		102	70 - 130
Bromoform	25.0	27.0		ug/L		108	70 - 130
Bromomethane	25.0	25.2		ug/L		101	70 - 130
Carbon disulfide	25.0	30.6		ug/L		122	70 - 130
Carbon tetrachloride	25.0	28.0		ug/L		112	70 - 130
Chlorobenzene	25.0	26.0		ug/L		104	70 - 130
Chlorobromomethane	25.0	27.1		ug/L		108	70 - 130
Chlorodibromomethane	25.0	27.1		ug/L		108	70 - 130
Chloroethane	25.0	25.8		ug/L		103	70 - 130
Chloroform	25.0	26.1		ug/L		105	70 - 130
Chloromethane	25.0	24.2		ug/L		97	70 - 130
cis-1,2-Dichloroethene	25.0	27.6		ug/L		110	70 - 130
cis-1,3-Dichloropropene	25.0	28.8		ug/L		115	70 - 130
Dichlorobromomethane	25.0	27.0		ug/L		108	70 - 130
Dichlorodifluoromethane	25.0	24.6		ug/L		98	70 - 130
Ethyl ether	25.0	28.7		ug/L		115	70 - 130
Ethylbenzene	25.0	26.1		ug/L		104	70 - 130
Ethylene Dibromide	25.0	26.0		ug/L		104	70 - 130
Hexachlorobutadiene	25.0	26.3		ug/L		105	70 - 130
Isopropyl ether	25.0	27.4		ug/L		110	70 - 130
Isopropylbenzene	25.0	26.1		ug/L		104	70 - 130
Methyl tert-butyl ether	25.0	26.3		ug/L		105	70 - 130
Methylene Chloride	25.0	26.8		ug/L		107	70 - 130
m-Xylene & p-Xylene	25.0	26.6		ug/L		106	70 - 130
Naphthalene	25.0	24.3		ug/L		97	70 - 130
n-Butylbenzene	25.0	26.2		ug/L		105	70 - 130
N-Propylbenzene	25.0	26.2		ug/L		105	70 - 130
o-Xylene	25.0	26.5		ug/L		106	70 - 130
sec-Butylbenzene	25.0	26.4		ug/L		106	70 - 130
Styrene	25.0	25.8		ug/L		103	70 - 130
Tert-amyl methyl ether	25.0	27.2		ug/L		109	70 - 130
Tert-butyl ethyl ether	25.0	26.5		ug/L		106	70 - 130
tert-Butylbenzene	25.0	26.8		ug/L		107	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-63716-1

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

Lab Sample ID: LCS 480-193870/6

Matrix: Water

Analysis Batch: 193870

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	27.4		ug/L		110	70 - 130
Tetrahydrofuran	50.0	54.8		ug/L		110	70 - 130
Toluene	25.0	26.6		ug/L		107	70 - 130
trans-1,2-Dichloroethene	25.0	27.8		ug/L		111	70 - 130
trans-1,3-Dichloropropene	25.0	27.3		ug/L		109	70 - 130
Trichloroethene	25.0	27.8		ug/L		111	70 - 130
Trichlorofluoromethane	25.0	25.9		ug/L		104	70 - 130
Vinyl chloride	25.0	24.8		ug/L		99	70 - 130
Dibromomethane	25.0	26.0		ug/L		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	93		70 - 130
1,2-Dichloroethane-d4 (Surr)	95		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130

Lab Sample ID: LCSD 480-193870/44

Matrix: Water

Analysis Batch: 193870

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		105	70 - 130	2	20
1,1,1-Trichloroethane	25.0	25.6		ug/L		103	70 - 130	5	20
1,1,1,2,2-Tetrachloroethane	25.0	25.2		ug/L		101	70 - 130	2	20
1,1,1,2-Trichloroethane	25.0	25.7		ug/L		103	70 - 130	2	20
1,1-Dichloroethane	25.0	26.1		ug/L		104	70 - 130	5	20
1,1-Dichloroethene	25.0	26.6		ug/L		107	70 - 130	7	20
1,1-Dichloropropene	25.0	26.4		ug/L		105	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	25.3		ug/L		101	70 - 130	4	20
1,2,3-Trichloropropane	25.0	25.4		ug/L		101	70 - 130	2	20
1,2,4-Trichlorobenzene	25.0	24.9		ug/L		100	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	25.8		ug/L		103	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	23.7		ug/L		95	70 - 130	1	20
1,2-Dichlorobenzene	25.0	25.0		ug/L		100	70 - 130	0	20
1,2-Dichloroethane	25.0	24.5		ug/L		98	70 - 130	1	20
1,2-Dichloropropane	25.0	26.4		ug/L		106	70 - 130	0	20
1,3,5-Trimethylbenzene	25.0	25.7		ug/L		103	70 - 130	4	20
1,3-Dichlorobenzene	25.0	24.9		ug/L		100	70 - 130	1	20
1,3-Dichloropropane	25.0	25.2		ug/L		101	70 - 130	1	20
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	2	20
1,4-Dioxane	500	522		ug/L		104	70 - 130	14	20
2,2-Dichloropropane	25.0	27.2		ug/L		109	70 - 130	4	20
2-Butanone (MEK)	125	165	*	ug/L		132	70 - 130	0	20
2-Chlorotoluene	25.0	25.2		ug/L		101	70 - 130	3	20
2-Hexanone	125	179	*	ug/L		143	70 - 130	3	20
4-Chlorotoluene	25.0	25.7		ug/L		103	70 - 130	4	20
4-Isopropyltoluene	25.0	26.0		ug/L		104	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	125	127		ug/L		101	70 - 130	2	20
Acetone	125	124		ug/L		99	70 - 130	4	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-63716-1

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

Lab Sample ID: LCSD 480-193870/44

Matrix: Water

Analysis Batch: 193870

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	26.2		ug/L		105	70 - 130	3	20	
Bromobenzene	25.0	25.0		ug/L		100	70 - 130	2	20	
Bromoform	25.0	26.2		ug/L		105	70 - 130	3	20	
Bromomethane	25.0	23.4		ug/L		93	70 - 130	8	20	
Carbon disulfide	25.0	29.4		ug/L		118	70 - 130	4	20	
Carbon tetrachloride	25.0	26.8		ug/L		107	70 - 130	4	20	
Chlorobenzene	25.0	25.4		ug/L		102	70 - 130	2	20	
Chlorobromomethane	25.0	26.9		ug/L		108	70 - 130	1	20	
Chlorodibromomethane	25.0	26.8		ug/L		107	70 - 130	1	20	
Chloroethane	25.0	24.3		ug/L		97	70 - 130	6	20	
Chloroform	25.0	25.2		ug/L		101	70 - 130	4	20	
Chloromethane	25.0	22.1		ug/L		88	70 - 130	9	20	
cis-1,2-Dichloroethene	25.0	26.4		ug/L		106	70 - 130	4	20	
cis-1,3-Dichloropropene	25.0	28.2		ug/L		113	70 - 130	2	20	
Dichlorobromomethane	25.0	26.4		ug/L		106	70 - 130	2	20	
Dichlorodifluoromethane	25.0	22.8		ug/L		91	70 - 130	7	20	
Ethyl ether	25.0	27.4		ug/L		110	70 - 130	5	20	
Ethylbenzene	25.0	25.2		ug/L		101	70 - 130	4	20	
Ethylene Dibromide	25.0	25.3		ug/L		101	70 - 130	3	20	
Hexachlorobutadiene	25.0	26.5		ug/L		106	70 - 130	1	20	
Isopropyl ether	25.0	26.6		ug/L		106	70 - 130	3	20	
Isopropylbenzene	25.0	25.5		ug/L		102	70 - 130	2	20	
Methyl tert-butyl ether	25.0	25.8		ug/L		103	70 - 130	2	20	
Methylene Chloride	25.0	25.6		ug/L		102	70 - 130	5	20	
m-Xylene & p-Xylene	25.0	26.1		ug/L		104	70 - 130	2	20	
Naphthalene	25.0	25.1		ug/L		100	70 - 130	3	20	
n-Butylbenzene	25.0	25.4		ug/L		101	70 - 130	3	20	
N-Propylbenzene	25.0	25.5		ug/L		102	70 - 130	3	20	
o-Xylene	25.0	26.1		ug/L		104	70 - 130	1	20	
sec-Butylbenzene	25.0	25.8		ug/L		103	70 - 130	2	20	
Styrene	25.0	25.5		ug/L		102	70 - 130	1	20	
Tert-amyl methyl ether	25.0	26.8		ug/L		107	70 - 130	1	20	
Tert-butyl ethyl ether	25.0	25.8		ug/L		103	70 - 130	3	20	
tert-Butylbenzene	25.0	26.1		ug/L		104	70 - 130	3	20	
Tetrachloroethene	25.0	26.5		ug/L		106	70 - 130	3	20	
Tetrahydrofuran	50.0	53.9		ug/L		108	70 - 130	2	20	
Toluene	25.0	25.9		ug/L		104	70 - 130	3	20	
trans-1,2-Dichloroethene	25.0	26.4		ug/L		105	70 - 130	5	20	
trans-1,3-Dichloropropene	25.0	26.9		ug/L		108	70 - 130	1	20	
Trichloroethene	25.0	26.9		ug/L		108	70 - 130	3	20	
Trichlorofluoromethane	25.0	23.9		ug/L		96	70 - 130	8	20	
Vinyl chloride	25.0	23.0		ug/L		92	70 - 130	8	20	
Dibromomethane	25.0	25.9		ug/L		104	70 - 130	0	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	93		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

TestAmerica Buffalo

QC Association Summary

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

TestAmerica Job ID: 480-63716-1

GC/MS VOA

Analysis Batch: 193289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-63716-3	MW-268M-20140713	Total/NA	Water	8260C	
480-63716-4	MW-560-20140713	Total/NA	Water	8260C	
480-63716-5	MW-561 553-20140713	Total/NA	Water	8260C	
480-63716-6	MW-561-20140713	Total/NA	Water	8260C	
480-63716-7	REW-6-20140714	Total/NA	Water	8260C	
480-63716-8	REW-7-20140714	Total/NA	Water	8260C	
480-63716-9	REW-8-20140714	Total/NA	Water	8260C	
480-63716-10	REW-9-20140714	Total/NA	Water	8260C	
480-63716-11	REW-11-20140714	Total/NA	Water	8260C	
480-63716-12	REW-12-20140714	Total/NA	Water	8260C	
480-63716-13	DUP-20140714	Total/NA	Water	8260C	
480-63716-14	Trip Blank	Total/NA	Water	8260C	
LCS 480-193289/10	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-193289/11	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-193289/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 193534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-63716-3 - DL	MW-268M-20140713	Total/NA	Water	8260C	
480-63716-5 - DL	MW-561 553-20140713	Total/NA	Water	8260C	
LCS 480-193534/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-193534/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-193534/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 193729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-63716-1	MW-267S-20140713	Total/NA	Water	8260C	
LCS 480-193729/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-193729/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-193729/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 193870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-63716-2	MW-267M-20140713	Total/NA	Water	8260C	
LCS 480-193870/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-193870/44	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-193870/8	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: MW-267S-20140713

Lab Sample ID: 480-63716-1

Date Collected: 07/13/14 12:25

Matrix: Water

Date Received: 07/15/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	193729	07/19/14 15:54	LCH	TAL BUF

Client Sample ID: MW-267M-20140713

Lab Sample ID: 480-63716-2

Date Collected: 07/13/14 16:40

Matrix: Water

Date Received: 07/15/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	193870	07/21/14 13:43	LCH	TAL BUF

Client Sample ID: MW-268M-20140713

Lab Sample ID: 480-63716-3

Date Collected: 07/13/14 15:45

Matrix: Water

Date Received: 07/15/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C	DL	80	193534	07/18/14 14:05	GTG	TAL BUF
Total/NA	Analysis	8260C		40	193289	07/17/14 14:48	CXM	TAL BUF

Client Sample ID: MW-560-20140713

Lab Sample ID: 480-63716-4

Date Collected: 07/13/14 14:10

Matrix: Water

Date Received: 07/15/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	193289	07/17/14 15:12	CXM	TAL BUF

Client Sample ID: MW-561 553-20140713

Lab Sample ID: 480-63716-5

Date Collected: 07/13/14 14:55

Matrix: Water

Date Received: 07/15/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C	DL	2	193534	07/18/14 14:30	GTG	TAL BUF
Total/NA	Analysis	8260C		1	193289	07/17/14 15:36	CXM	TAL BUF

Client Sample ID: MW-561-20140713

Lab Sample ID: 480-63716-6

Date Collected: 07/13/14 13:25

Matrix: Water

Date Received: 07/15/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	193289	07/17/14 16:00	CXM	TAL BUF

Lab Chronicle

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: REW-6-20140714

Lab Sample ID: 480-63716-7

Date Collected: 07/14/14 09:30

Matrix: Water

Date Received: 07/15/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	193289	07/17/14 16:24	CXM	TAL BUF

Client Sample ID: REW-7-20140714

Lab Sample ID: 480-63716-8

Date Collected: 07/14/14 09:00

Matrix: Water

Date Received: 07/15/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	193289	07/17/14 16:47	CXM	TAL BUF

Client Sample ID: REW-8-20140714

Lab Sample ID: 480-63716-9

Date Collected: 07/14/14 08:30

Matrix: Water

Date Received: 07/15/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	193289	07/17/14 17:11	CXM	TAL BUF

Client Sample ID: REW-9-20140714

Lab Sample ID: 480-63716-10

Date Collected: 07/14/14 07:50

Matrix: Water

Date Received: 07/15/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	193289	07/17/14 17:35	CXM	TAL BUF

Client Sample ID: REW-11-20140714

Lab Sample ID: 480-63716-11

Date Collected: 07/14/14 10:10

Matrix: Water

Date Received: 07/15/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		25	193289	07/17/14 17:59	CXM	TAL BUF

Client Sample ID: REW-12-20140714

Lab Sample ID: 480-63716-12

Date Collected: 07/14/14 07:05

Matrix: Water

Date Received: 07/15/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	193289	07/17/14 18:23	CXM	TAL BUF

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-63716-1

Client Sample ID: DUP-20140714

Lab Sample ID: 480-63716-13

Date Collected: 07/14/14 00:00

Matrix: Water

Date Received: 07/15/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	193289	07/17/14 18:47	CXM	TAL BUF

Client Sample ID: Trip Blank

Lab Sample ID: 480-63716-14

Date Collected: 07/14/14 00:00

Matrix: Water

Date Received: 07/15/14 01:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	193289	07/17/14 19:10	CXM	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Certification Summary

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

TestAmerica Job ID: 480-63716-1

Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Massachusetts	State Program	1	M-NY044	06-30-15

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Method Summary

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

TestAmerica Job ID: 480-63716-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF

Protocol References:

MA DEP = Massachusetts Department Of Environmental Protection

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Sample Summary

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

TestAmerica Job ID: 480-63716-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-63716-1	MW-267S-20140713	Water	07/13/14 12:25	07/15/14 01:30
480-63716-2	MW-267M-20140713	Water	07/13/14 16:40	07/15/14 01:30
480-63716-3	MW-268M-20140713	Water	07/13/14 15:45	07/15/14 01:30
480-63716-4	MW-560-20140713	Water	07/13/14 14:10	07/15/14 01:30
480-63716-5	MW-561 553-20140713	Water	07/13/14 14:55	07/15/14 01:30
480-63716-6	MW-561-20140713	Water	07/13/14 13:25	07/15/14 01:30
480-63716-7	REW-6-20140714	Water	07/14/14 09:30	07/15/14 01:30
480-63716-8	REW-7-20140714	Water	07/14/14 09:00	07/15/14 01:30
480-63716-9	REW-8-20140714	Water	07/14/14 08:30	07/15/14 01:30
480-63716-10	REW-9-20140714	Water	07/14/14 07:50	07/15/14 01:30
480-63716-11	REW-11-20140714	Water	07/14/14 10:10	07/15/14 01:30
480-63716-12	REW-12-20140714	Water	07/14/14 07:05	07/15/14 01:30
480-63716-13	DUP-20140714	Water	07/14/14 00:00	07/15/14 01:30
480-63716-14	Trip Blank	Water	07/14/14 00:00	07/15/14 01:30

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-63716-1

Login Number: 63716

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert K

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

Temperature on Reanalysis

Chain of Custody Record

TAL-4124 (1007)

Client: Environmental Engineering Solutions Inc

Address: 25 Spring St

City: Woburn MA State: MA Zip Code: 02081

Project: Providence - Woburn, Weymouth MA

Telephone: 508-668-0033 / 508-668-5075

Date: 7/14/14 Chain of Custody Number: 280161

Site Contact: Deshaun Jones Lab Contact: 38608

Carrier/Waybill Number: RA-008

Page 1 of 2

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives					Special Instructions/ Conditions of Receipt		
			Air	Aqueous	Sed	Soil	Unpres.	H2SO4	HNO3	HCl		NaOH	ZnAc/NaOH
MA-2673 - 2014 0713	7/13/14	1225	X										
MA-2674 - 2014 0713	7/13/14	1640	X										
MA-2675 - 2014 0713	7/13/14	1545	X										
MA-2676 - 2014 0713	7/13/14	1410	X										
MA-2677 - 2014 0713	7/13/14	1455	X										
MA-2678 - 2014 0714	7/14/14	0930	X										
MA-2679 - 2014 0714	7/14/14	0900	X										
MA-2680 - 2014 0714	7/14/14	0830	X										
MA-2681 - 2014 0714	7/14/14	0750	X										
MA-2682 - 2014 0714	7/14/14	1010	X										
MA-2683 - 2014 0714	7/14/14	0705	X										

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal:
 Return To Client Disposal By Lab Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

1. Relinquished By: [Signature] Date: 7/14/14 Time: 1203

2. Relinquished By: [Signature] Date: 7/14/14 Time: 1630

3. Relinquished By: [Signature] Date: 7/14/14 Time: 1630

Received By: [Signature] Date: 7/14/14 Time: 1203

Received By: [Signature] Date: 7/15/14 Time: 0130

Received By: [Signature] Date: 7/15/14 Time: 0130

Comments: 2-2-14



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____
 Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client: **Industrial Engineering Solutions Inc**
 Address: **25 Seely St**
 City: **Woburn MA** State: **MA** Zip Code: **02091**
 Project Name and Location (State): **Woburn**
 Contract/Purchase Order/Quote No.: **RA-008**

Project Manager: **Vicki Poolina**
 Telephone Number (Area Code/Fax Number): **808-668-0023** (508-668-5175)
 Site Contact: **Dan Jones**
 Carrier/Vendor Number: **1 Woburn MA**

Date: **7/14/14**
 Lab Number: **280162**
 Page: **2** of **2**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Matrix				Containers & Preservatives				Special Instructions/ Conditions of Receipt			
		Air	Aqueous	Sed	Soil	Unpres.	H2SO4	HNO3	HCl		NaOH	ZnAc/NaOH	
DUP-20140714		X											
Trig Blank		X											

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Disposal By Lab Archive For _____ Months Return To Client (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

QC Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
<i>[Signature]</i>	7/14/14	1203	<i>[Signature]</i>	7/14/14	1203
2. Relinquished By	7/14/14	1630	2. Received By	7-15-14	0130
3. Relinquished By			3. Received By		

Comments: **202 #1**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



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: 480-66696-1
Client Project/Site: IDS Wayland

For:
ERM-Northeast
One Beacon Steet
5th Floor
Boston, Massachusetts 02108

Attn: Lyndsey Colburn



Authorized for release by:
9/12/2014 11:03:15 AM
Rich Emerich, Analyst V
rich.emerich@testamericainc.com
Designee for
Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

30 samples were collected from the Koffler Group, Inc. property. All other samples have been grayed out for ease of review.

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

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

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



LINKS

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www.testamericainc.com

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Definitions/Glossary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
*	RPD of the LCS and LCSD exceeds the control limits

Glossary

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

Case Narrative

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Job ID: 480-66696-1

Laboratory: TestAmerica Buffalo

Narrative

Comments

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.

Receipt

The samples were received on 9/5/2014 at 12:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain of Custody (COC): MW-1010D-20140904-02 (480-66696-33). The container labels lists MW-1010D-20140904-01 while the COC lists MW-1010D-20140904-02 (association made by comparing date and time of collection). The sample was logged in as shown on the COC.

GC/MS VOA

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

Method 8260C: The continuing calibration verification (CCV) for 1,4dioxane associated with batch 200987 recovered above the MCP upper control limit. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 60% difference for difficult compounds.

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 200987 exceeded control limits for the following analytes: 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 analyte is ND in the affected samples.

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 201080 exceeded control limits for the following analyte: 2-Hexanone. Unlike the calibration standards, this is due to the coelution with n-Butyl Acetate in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample.

Method 8260C: The continuing calibration verification (CCV) for Dichlorodifluoromethane and Bromoform associated with batch 201129 recovered above the MCP upper control limit. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference.

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 201129 exceeded control limits for the following analytes: 2-Butanone and 2-Hexanone. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate and n-butyl Acetate, respectively, 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 coeluted compounds can be distinguished from one another if present in a client sample.

Method 8260C: The laboratory control sample duplicate (LCSD) for batch 201129 exceeded control limits for the following analyte: Dichlorodifluoromethane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-1017D-20140904-01 (480-66696-11). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) for Bromoform and Chlorodibromomethane associated with batch 201180 recovered above the MCP upper control limit. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference.

Case Narrative

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Job ID: 480-66696-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 201180 exceeded control limits for the following analyte: 2-Hexanone. Unlike the calibration standards, this is due to the coelution with n-butyl Acetate in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample.

Method 8260C: The continuing calibration verification (CCV) for Bromoform and Chlorodibromomethane associated with batch 201080 recovered above the MCP upper control limit. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference.

Method 8260C: The %RPD of the laboratory control standard duplicate (LCSD) for preparation batch 201129 recovered outside control limits for the following analyte: 1,4-Dioxane .

Method 8260C: The laboratory control sample duplicate (LCSD) for batch 201180 exceeded control limits for the following analyte: Dichlorodifluoromethane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%.

Method 8260C: The laboratory control sample duplicate (LCSD) for batch 201180 exceeded control limits for the following analyte: 2-Butanone. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample

Method 8260C: The %RPD of the laboratory control standard duplicate (LCSD) for preparation batch 201180 recovered outside control limits for the following analyte: 2-Butanone.

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 #: **480-66696-1**

Project Location: **IDS Wayland** RTN:

This form provides certifications for the data set for the following Laboratory Sample ID Number(s):
480-66696-1 [1-41]

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

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

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


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

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

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

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

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

Signature:  Position: Technical Director, TestAmerica Westfield
 Printed Name: Richard Emerich Date: 9/12/14 10:55
 This form has been electronically signed and approved.

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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Client Sample ID: MW-1024D-20140904-01

Lab Sample ID: 480-66696-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.0		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	9.2		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1025M-20140904-01

Lab Sample ID: 480-66696-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.4		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethane	1.1		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	5.1		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	70		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1025D-20140904-01

Lab Sample ID: 480-66696-7

No Detections.

Client Sample ID: MW-1019B-20140904-01

Lab Sample ID: 480-66696-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.1		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1020-20140904-01

Lab Sample ID: 480-66696-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3.9		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethane	1.2		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	28		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1018-20140904-01

Lab Sample ID: 480-66696-10

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1018-20140904-01 (Continued)

Lab Sample ID: 480-66696-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.8		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	7.8		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1017D-20140904-01

Lab Sample ID: 480-66696-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	1.4		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	2.2		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	130		2.0		ug/L	2		8260C	Total/NA

Client Sample ID: MW-1015D-20140904-01

Lab Sample ID: 480-66696-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.0		1.0		ug/L	1		8260C	Total/NA
Tetrachloroethene	2.1		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	24		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1033-20140904-01

Lab Sample ID: 480-66696-13

No Detections.

Client Sample ID: MW-1027-20140904-01

Lab Sample ID: 480-66696-14

No Detections.

Client Sample ID: MW-1028-20140904-01

Lab Sample ID: 480-66696-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.3		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	6.0		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1030-20140904-01

Lab Sample ID: 480-66696-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	5.7		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	2.2		1.0		ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	2.5		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	41		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1031-20140904-01

Lab Sample ID: 480-66696-17

No Detections.

Client Sample ID: MW-1032-20140904-01

Lab Sample ID: 480-66696-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.4		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	2.0		1.0		ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	4.4		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	8.6		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: 480-66696-1

Client Sample ID: MW-1022-20140904-01

Lab Sample ID: 480-66696-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.6		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1023-20140904-01

Lab Sample ID: 480-66696-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.9		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	29		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1013-20140904-01

Lab Sample ID: 480-66696-21

No Detections.

Client Sample ID: MW-1034-20140904-01

Lab Sample ID: 480-66696-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	9.0		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	29		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: DUP-004-20140904-01

Lab Sample ID: 480-66696-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	9.4		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	30		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: DUP-003-20140904-01

Lab Sample ID: 480-66696-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.5		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethane	1.1		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	5.1		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	70		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1001M-20140904-01

Lab Sample ID: 480-66696-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	17		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	6.7		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1001B-20140904-01

Lab Sample ID: 480-66696-26

No Detections.

Client Sample ID: MW-1003-20140904-01

Lab Sample ID: 480-66696-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.1		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	7.4		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1004-20140904-01

Lab Sample ID: 480-66696-28

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: 480-66696-1

Client Sample ID: MW-1005-20140904-01

Lab Sample ID: 480-66696-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.4		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	13		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1006-20140904-01

Lab Sample ID: 480-66696-30

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

Client Sample ID: MW-1008-20140904-01

Lab Sample ID: 480-66696-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.6		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1010M-20140904-01

Lab Sample ID: 480-66696-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.3		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1010D-20140904-02

Lab Sample ID: 480-66696-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.4		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	8.9		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	24		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1011-20140904-01

Lab Sample ID: 480-66696-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8.9		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	17		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1016D-20140904-01

Lab Sample ID: 480-66696-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.8		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	31		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	9.3		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1009-20140904-01

Lab Sample ID: 480-66696-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	1.1		1.0		ug/L	1		8260C	Total/NA
Trichlorofluoromethane	2.5		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: DUP-001-20140904-01

Lab Sample ID: 480-66696-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.6		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	13		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

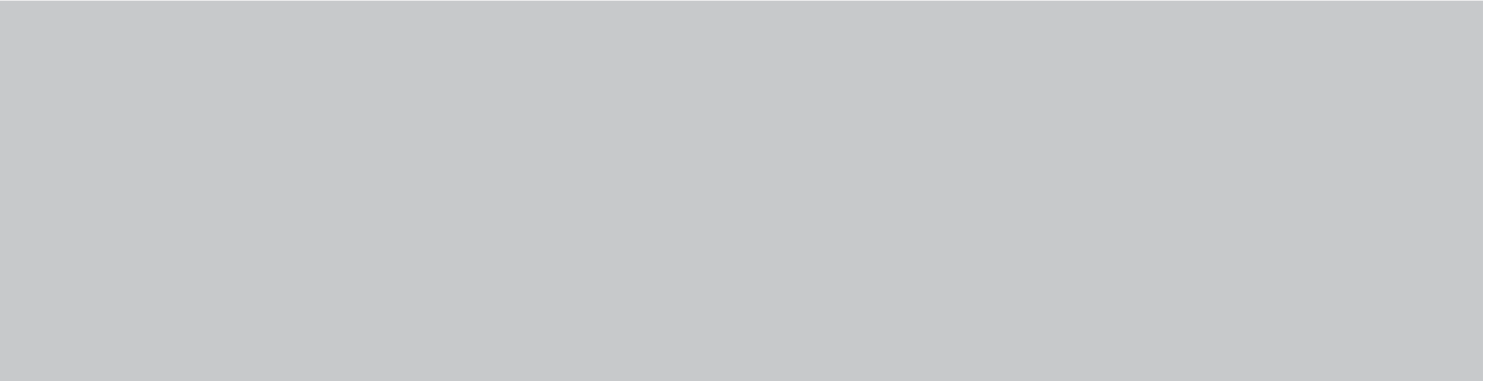
Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: DUP-002-20140904-01

Lab Sample ID: 480-66696-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.7		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	31		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	8.7		1.0		ug/L	1		8260C	Total/NA



This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

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Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: TB-001-20140904-01

Lab Sample ID: 480-66696-1

Date Collected: 09/04/14 11:11

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/05/14 16:41	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/05/14 16:41	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/05/14 16:41	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/05/14 16:41	1
1,1-Dichloroethane	ND		1.0		ug/L			09/05/14 16:41	1
1,1-Dichloroethene	ND		1.0		ug/L			09/05/14 16:41	1
1,1-Dichloropropene	ND		1.0		ug/L			09/05/14 16:41	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/05/14 16:41	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/05/14 16:41	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/05/14 16:41	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/05/14 16:41	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/05/14 16:41	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/05/14 16:41	1
1,2-Dichloroethane	ND		1.0		ug/L			09/05/14 16:41	1
1,2-Dichloropropane	ND		1.0		ug/L			09/05/14 16:41	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/05/14 16:41	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/05/14 16:41	1
1,3-Dichloropropane	ND		1.0		ug/L			09/05/14 16:41	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/05/14 16:41	1
1,4-Dioxane	ND	*	50		ug/L			09/05/14 16:41	1
2,2-Dichloropropane	ND		1.0		ug/L			09/05/14 16:41	1
2-Butanone (MEK)	ND		10		ug/L			09/05/14 16:41	1
2-Chlorotoluene	ND		1.0		ug/L			09/05/14 16:41	1
2-Hexanone	ND		10		ug/L			09/05/14 16:41	1
4-Chlorotoluene	ND		1.0		ug/L			09/05/14 16:41	1
4-Isopropyltoluene	ND		1.0		ug/L			09/05/14 16:41	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/05/14 16:41	1
Acetone	ND		50		ug/L			09/05/14 16:41	1
Benzene	ND		1.0		ug/L			09/05/14 16:41	1
Bromobenzene	ND		1.0		ug/L			09/05/14 16:41	1
Bromoform	ND		1.0		ug/L			09/05/14 16:41	1
Bromomethane	ND		2.0		ug/L			09/05/14 16:41	1
Carbon disulfide	ND		10		ug/L			09/05/14 16:41	1
Carbon tetrachloride	ND		1.0		ug/L			09/05/14 16:41	1
Chlorobenzene	ND		1.0		ug/L			09/05/14 16:41	1
Chlorobromomethane	ND		1.0		ug/L			09/05/14 16:41	1
Chlorodibromomethane	ND		0.50		ug/L			09/05/14 16:41	1
Chloroethane	ND		2.0		ug/L			09/05/14 16:41	1
Chloroform	ND		1.0		ug/L			09/05/14 16:41	1
Chloromethane	ND		2.0		ug/L			09/05/14 16:41	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/05/14 16:41	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/05/14 16:41	1
Dichlorobromomethane	ND		0.50		ug/L			09/05/14 16:41	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/05/14 16:41	1
Ethyl ether	ND		1.0		ug/L			09/05/14 16:41	1
Ethylbenzene	ND		1.0		ug/L			09/05/14 16:41	1
Ethylene Dibromide	ND		1.0		ug/L			09/05/14 16:41	1
Hexachlorobutadiene	ND		0.40		ug/L			09/05/14 16:41	1
Isopropyl ether	ND		10		ug/L			09/05/14 16:41	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: TB-001-20140904-01

Lab Sample ID: 480-66696-1

Date Collected: 09/04/14 11:11

Matrix: Water

Date Received: 09/05/14 00:30

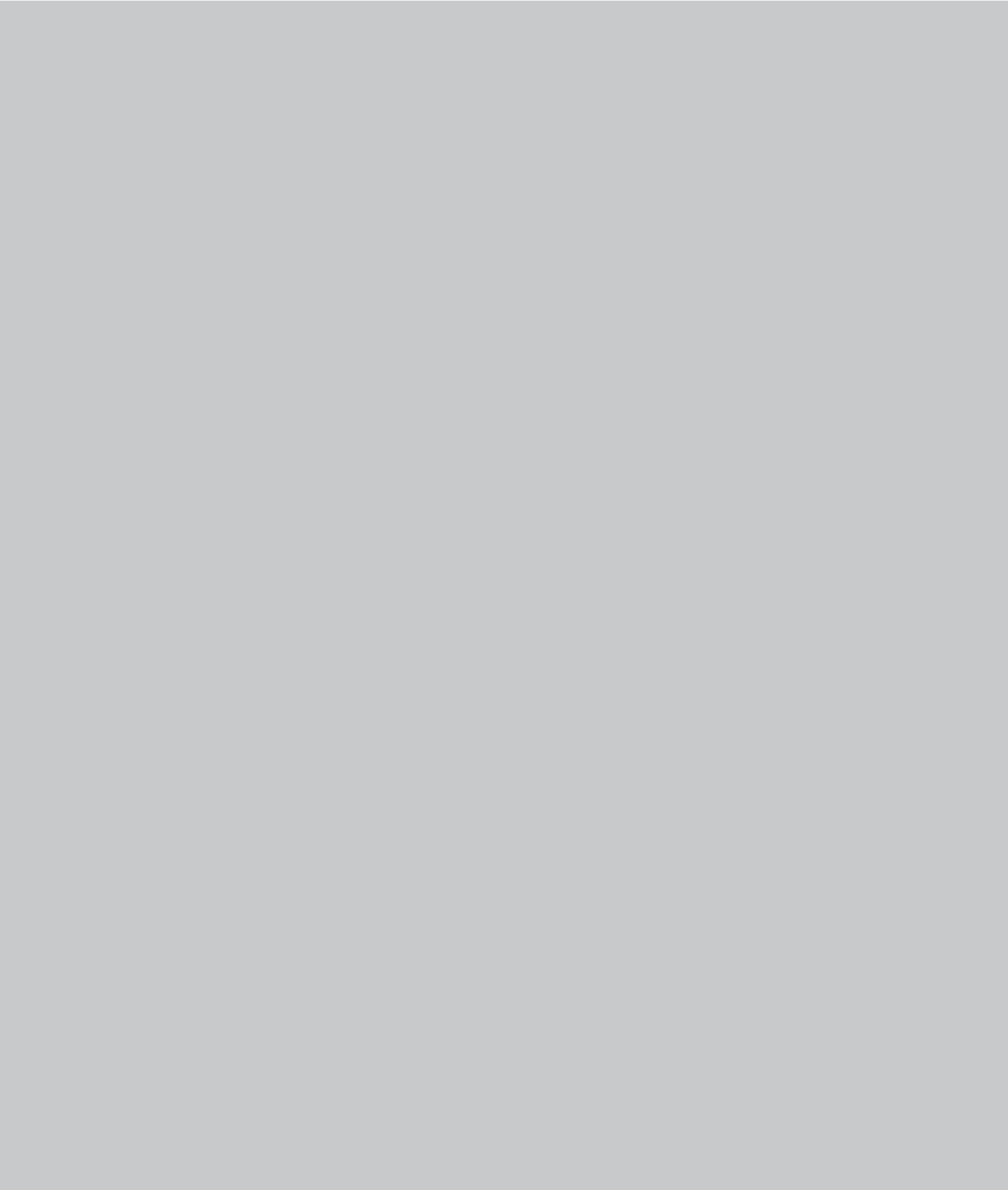
Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			09/05/14 16:41	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/05/14 16:41	1
Methylene Chloride	ND		1.0		ug/L			09/05/14 16:41	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/05/14 16:41	1
Naphthalene	ND		5.0		ug/L			09/05/14 16:41	1
n-Butylbenzene	ND		1.0		ug/L			09/05/14 16:41	1
N-Propylbenzene	ND		1.0		ug/L			09/05/14 16:41	1
o-Xylene	ND		1.0		ug/L			09/05/14 16:41	1
sec-Butylbenzene	ND		1.0		ug/L			09/05/14 16:41	1
Styrene	ND		1.0		ug/L			09/05/14 16:41	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/05/14 16:41	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/05/14 16:41	1
tert-Butylbenzene	ND		1.0		ug/L			09/05/14 16:41	1
Tetrachloroethene	ND		1.0		ug/L			09/05/14 16:41	1
Tetrahydrofuran	ND		10		ug/L			09/05/14 16:41	1
Toluene	ND		1.0		ug/L			09/05/14 16:41	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/05/14 16:41	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/05/14 16:41	1
Trichloroethene	ND		1.0		ug/L			09/05/14 16:41	1
Trichlorofluoromethane	ND		1.0		ug/L			09/05/14 16:41	1
Vinyl chloride	ND		1.0		ug/L			09/05/14 16:41	1
Dibromomethane	ND		1.0		ug/L			09/05/14 16:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	120		70 - 130					09/05/14 16:41	1
1,2-Dichloroethane-d4 (Surr)	119		70 - 130					09/05/14 16:41	1
4-Bromofluorobenzene (Surr)	130		70 - 130					09/05/14 16:41	1

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1



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Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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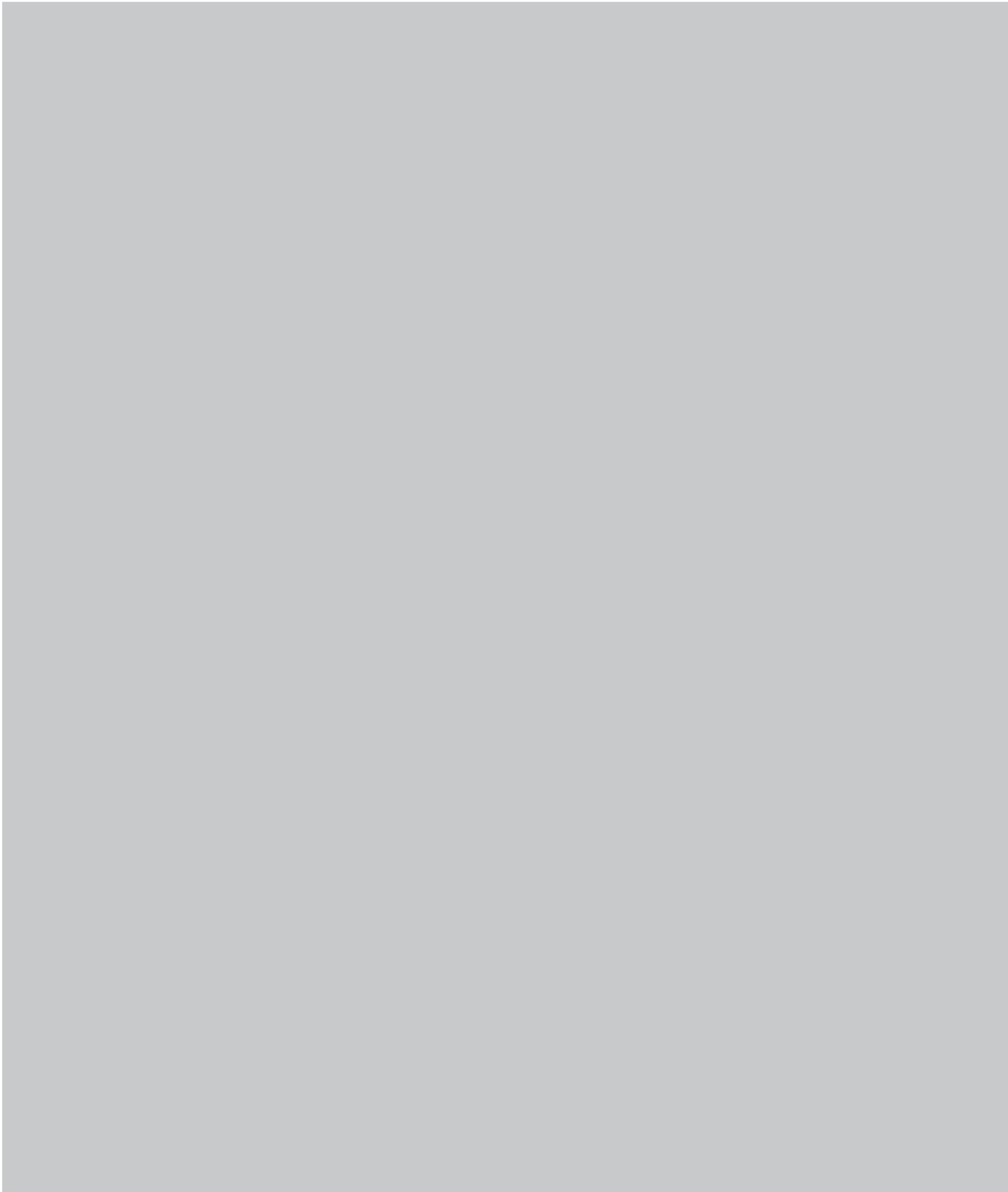
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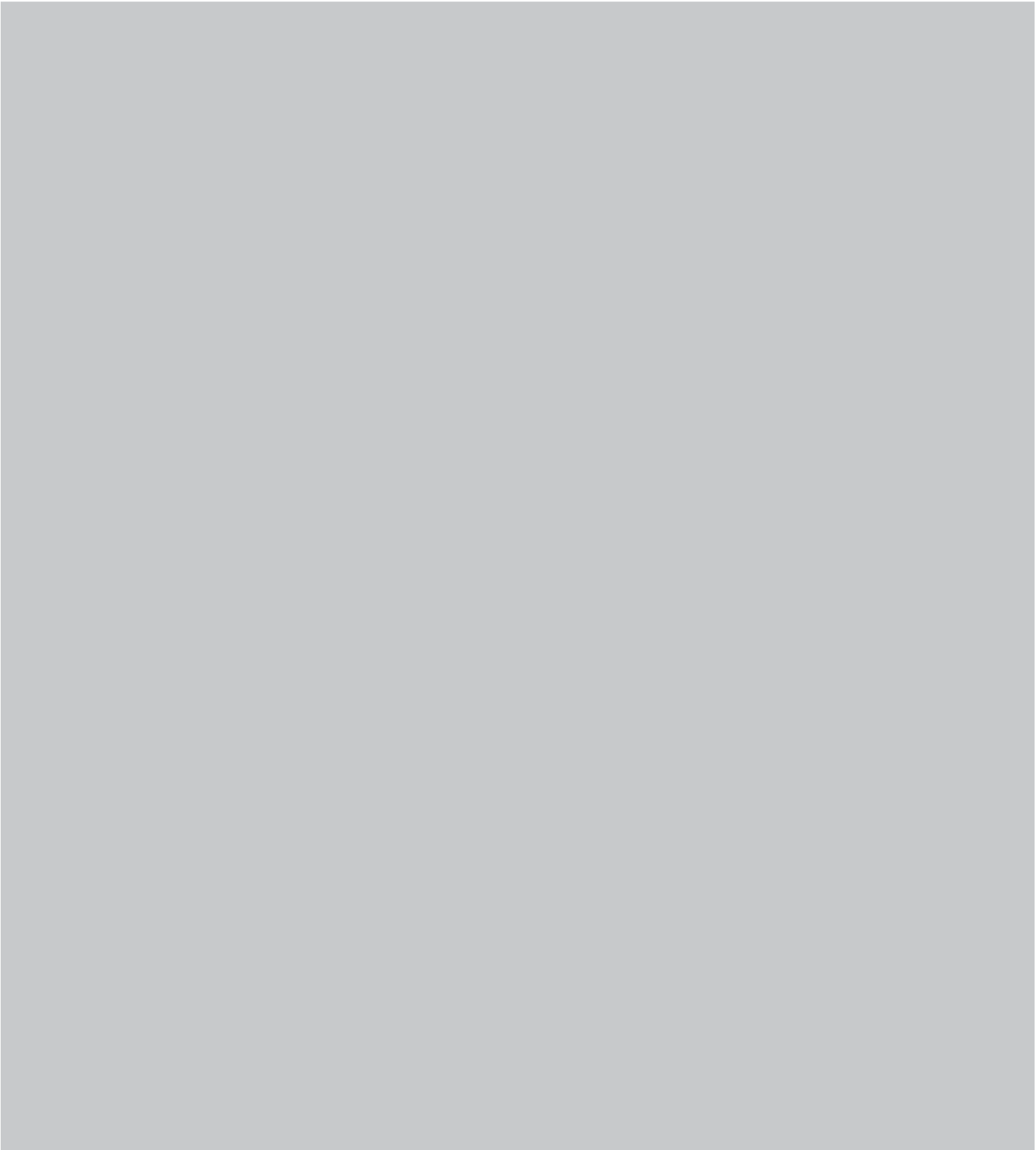


TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1



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Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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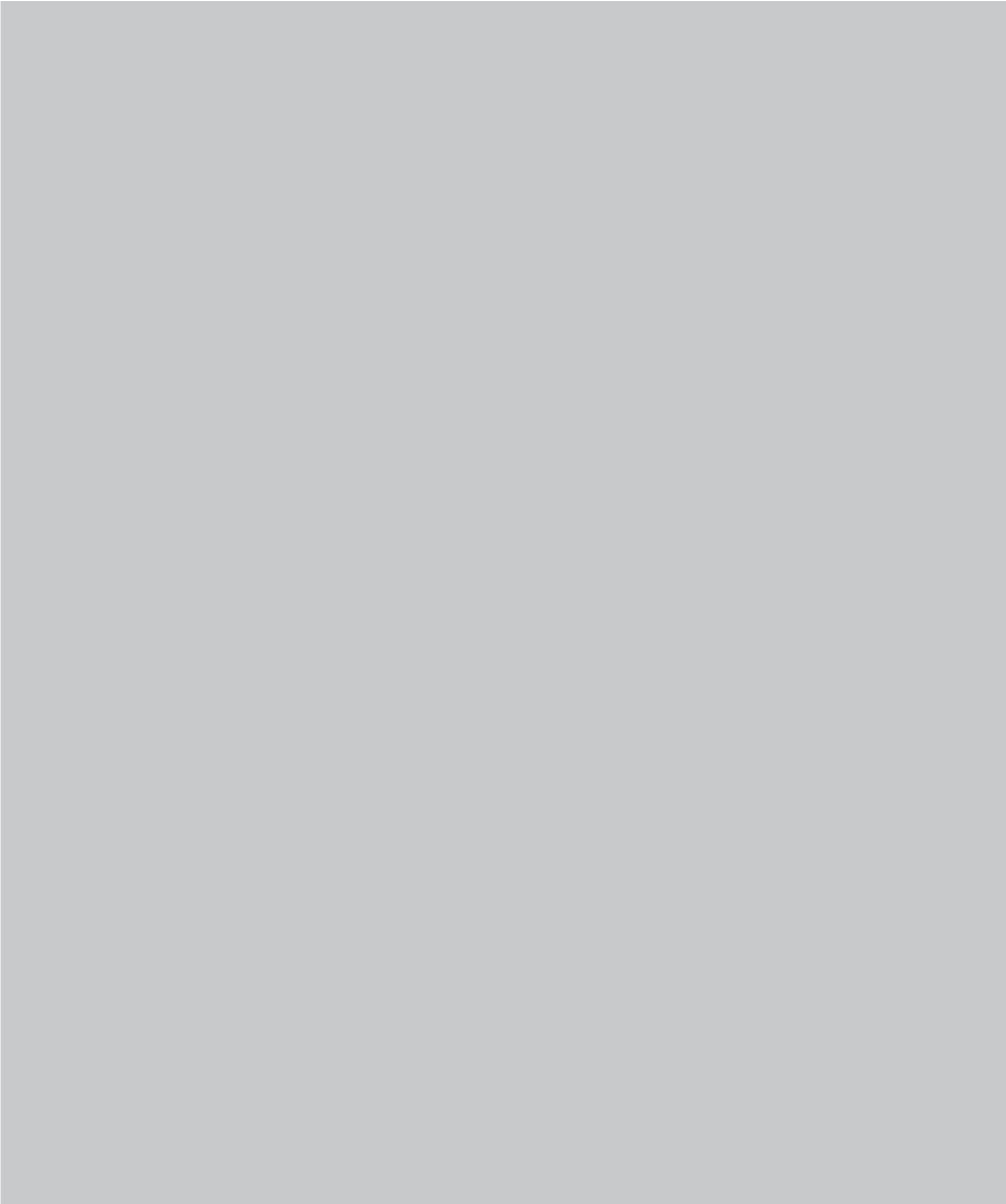
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TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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Client Sample ID: MW-1024D-20140904-01

Lab Sample ID: 480-66696-5

Date Collected: 09/04/14 09:50

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/05/14 18:16	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/05/14 18:16	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/05/14 18:16	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/05/14 18:16	1
1,1-Dichloroethane	ND		1.0		ug/L			09/05/14 18:16	1
1,1-Dichloroethene	ND		1.0		ug/L			09/05/14 18:16	1
1,1-Dichloropropene	ND		1.0		ug/L			09/05/14 18:16	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/05/14 18:16	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/05/14 18:16	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/05/14 18:16	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/05/14 18:16	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/05/14 18:16	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/05/14 18:16	1
1,2-Dichloroethane	ND		1.0		ug/L			09/05/14 18:16	1
1,2-Dichloropropane	ND		1.0		ug/L			09/05/14 18:16	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/05/14 18:16	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1024D-20140904-01

Lab Sample ID: 480-66696-5

Date Collected: 09/04/14 09:50

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			09/05/14 18:16	1
1,3-Dichloropropane	ND		1.0		ug/L			09/05/14 18:16	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/05/14 18:16	1
1,4-Dioxane	ND	*	50		ug/L			09/05/14 18:16	1
2,2-Dichloropropane	ND		1.0		ug/L			09/05/14 18:16	1
2-Butanone (MEK)	ND		10		ug/L			09/05/14 18:16	1
2-Chlorotoluene	ND		1.0		ug/L			09/05/14 18:16	1
2-Hexanone	ND		10		ug/L			09/05/14 18:16	1
4-Chlorotoluene	ND		1.0		ug/L			09/05/14 18:16	1
4-Isopropyltoluene	ND		1.0		ug/L			09/05/14 18:16	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/05/14 18:16	1
Acetone	ND		50		ug/L			09/05/14 18:16	1
Benzene	ND		1.0		ug/L			09/05/14 18:16	1
Bromobenzene	ND		1.0		ug/L			09/05/14 18:16	1
Bromoform	ND		1.0		ug/L			09/05/14 18:16	1
Bromomethane	ND		2.0		ug/L			09/05/14 18:16	1
Carbon disulfide	ND		10		ug/L			09/05/14 18:16	1
Carbon tetrachloride	ND		1.0		ug/L			09/05/14 18:16	1
Chlorobenzene	ND		1.0		ug/L			09/05/14 18:16	1
Chlorobromomethane	ND		1.0		ug/L			09/05/14 18:16	1
Chlorodibromomethane	ND		0.50		ug/L			09/05/14 18:16	1
Chloroethane	ND		2.0		ug/L			09/05/14 18:16	1
Chloroform	ND		1.0		ug/L			09/05/14 18:16	1
Chloromethane	ND		2.0		ug/L			09/05/14 18:16	1
cis-1,2-Dichloroethene	2.0		1.0		ug/L			09/05/14 18:16	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/05/14 18:16	1
Dichlorobromomethane	ND		0.50		ug/L			09/05/14 18:16	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/05/14 18:16	1
Ethyl ether	ND		1.0		ug/L			09/05/14 18:16	1
Ethylbenzene	ND		1.0		ug/L			09/05/14 18:16	1
Ethylene Dibromide	ND		1.0		ug/L			09/05/14 18:16	1
Hexachlorobutadiene	ND		0.40		ug/L			09/05/14 18:16	1
Isopropyl ether	ND		10		ug/L			09/05/14 18:16	1
Isopropylbenzene	ND		1.0		ug/L			09/05/14 18:16	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/05/14 18:16	1
Methylene Chloride	ND		1.0		ug/L			09/05/14 18:16	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/05/14 18:16	1
Naphthalene	ND		5.0		ug/L			09/05/14 18:16	1
n-Butylbenzene	ND		1.0		ug/L			09/05/14 18:16	1
N-Propylbenzene	ND		1.0		ug/L			09/05/14 18:16	1
o-Xylene	ND		1.0		ug/L			09/05/14 18:16	1
sec-Butylbenzene	ND		1.0		ug/L			09/05/14 18:16	1
Styrene	ND		1.0		ug/L			09/05/14 18:16	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/05/14 18:16	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/05/14 18:16	1
tert-Butylbenzene	ND		1.0		ug/L			09/05/14 18:16	1
Tetrachloroethene	ND		1.0		ug/L			09/05/14 18:16	1
Tetrahydrofuran	ND		10		ug/L			09/05/14 18:16	1
Toluene	ND		1.0		ug/L			09/05/14 18:16	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1024D-20140904-01

Lab Sample ID: 480-66696-5

Date Collected: 09/04/14 09:50

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/05/14 18:16	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/05/14 18:16	1
Trichloroethene	9.2		1.0		ug/L			09/05/14 18:16	1
Trichlorofluoromethane	ND		1.0		ug/L			09/05/14 18:16	1
Vinyl chloride	ND		1.0		ug/L			09/05/14 18:16	1
Dibromomethane	ND		1.0		ug/L			09/05/14 18:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	103		70 - 130					09/05/14 18:16	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	100		70 - 130					09/05/14 18:16	1
<i>4-Bromofluorobenzene (Surr)</i>	94		70 - 130					09/05/14 18:16	1

Client Sample ID: MW-1025M-20140904-01

Lab Sample ID: 480-66696-6

Date Collected: 09/04/14 09:20

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 14:35	1
1,1,1-Trichloroethane	1.4		1.0		ug/L			09/06/14 14:35	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 14:35	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 14:35	1
1,1-Dichloroethane	1.1		1.0		ug/L			09/06/14 14:35	1
1,1-Dichloroethene	5.1		1.0		ug/L			09/06/14 14:35	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 14:35	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 14:35	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 14:35	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 14:35	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 14:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 14:35	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 14:35	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 14:35	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 14:35	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 14:35	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 14:35	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 14:35	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 14:35	1
1,4-Dioxane	ND *		50		ug/L			09/06/14 14:35	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 14:35	1
2-Butanone (MEK)	ND *		10		ug/L			09/06/14 14:35	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 14:35	1
2-Hexanone	ND *		10		ug/L			09/06/14 14:35	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 14:35	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 14:35	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 14:35	1
Acetone	ND		50		ug/L			09/06/14 14:35	1
Benzene	ND		1.0		ug/L			09/06/14 14:35	1
Bromobenzene	ND		1.0		ug/L			09/06/14 14:35	1
Bromoform	ND		1.0		ug/L			09/06/14 14:35	1
Bromomethane	ND		2.0		ug/L			09/06/14 14:35	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1025M-20140904-01

Lab Sample ID: 480-66696-6

Date Collected: 09/04/14 09:20

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			09/06/14 14:35	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 14:35	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 14:35	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 14:35	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 14:35	1
Chloroethane	ND		2.0		ug/L			09/06/14 14:35	1
Chloroform	ND		1.0		ug/L			09/06/14 14:35	1
Chloromethane	ND		2.0		ug/L			09/06/14 14:35	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 14:35	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 14:35	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 14:35	1
Dichlorodifluoromethane	ND *		1.0		ug/L			09/06/14 14:35	1
Ethyl ether	ND		1.0		ug/L			09/06/14 14:35	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 14:35	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 14:35	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 14:35	1
Isopropyl ether	ND		10		ug/L			09/06/14 14:35	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 14:35	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 14:35	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 14:35	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 14:35	1
Naphthalene	ND		5.0		ug/L			09/06/14 14:35	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 14:35	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 14:35	1
o-Xylene	ND		1.0		ug/L			09/06/14 14:35	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 14:35	1
Styrene	ND		1.0		ug/L			09/06/14 14:35	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 14:35	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 14:35	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 14:35	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 14:35	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 14:35	1
Toluene	ND		1.0		ug/L			09/06/14 14:35	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 14:35	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 14:35	1
Trichloroethene	70		1.0		ug/L			09/06/14 14:35	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 14:35	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 14:35	1
Dibromomethane	ND		1.0		ug/L			09/06/14 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130		09/06/14 14:35	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 130		09/06/14 14:35	1
4-Bromofluorobenzene (Surr)	108		70 - 130		09/06/14 14:35	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1025D-20140904-01

Lab Sample ID: 480-66696-7

Date Collected: 09/04/14 09:00

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 03:44	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/14 03:44	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 03:44	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 03:44	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/14 03:44	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/14 03:44	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 03:44	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 03:44	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 03:44	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 03:44	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 03:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 03:44	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 03:44	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 03:44	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 03:44	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 03:44	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 03:44	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 03:44	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 03:44	1
1,4-Dioxane	ND		50		ug/L			09/06/14 03:44	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 03:44	1
2-Butanone (MEK)	ND		10		ug/L			09/06/14 03:44	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 03:44	1
2-Hexanone	ND *		10		ug/L			09/06/14 03:44	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 03:44	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 03:44	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 03:44	1
Acetone	ND		50		ug/L			09/06/14 03:44	1
Benzene	ND		1.0		ug/L			09/06/14 03:44	1
Bromobenzene	ND		1.0		ug/L			09/06/14 03:44	1
Bromoform	ND		1.0		ug/L			09/06/14 03:44	1
Bromomethane	ND		2.0		ug/L			09/06/14 03:44	1
Carbon disulfide	ND		10		ug/L			09/06/14 03:44	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 03:44	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 03:44	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 03:44	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 03:44	1
Chloroethane	ND		2.0		ug/L			09/06/14 03:44	1
Chloroform	ND		1.0		ug/L			09/06/14 03:44	1
Chloromethane	ND		2.0		ug/L			09/06/14 03:44	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 03:44	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 03:44	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 03:44	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/06/14 03:44	1
Ethyl ether	ND		1.0		ug/L			09/06/14 03:44	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 03:44	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 03:44	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 03:44	1
Isopropyl ether	ND		10		ug/L			09/06/14 03:44	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1025D-20140904-01

Lab Sample ID: 480-66696-7

Date Collected: 09/04/14 09:00

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			09/06/14 03:44	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 03:44	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 03:44	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 03:44	1
Naphthalene	ND		5.0		ug/L			09/06/14 03:44	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 03:44	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 03:44	1
o-Xylene	ND		1.0		ug/L			09/06/14 03:44	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 03:44	1
Styrene	ND		1.0		ug/L			09/06/14 03:44	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 03:44	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 03:44	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 03:44	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 03:44	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 03:44	1
Toluene	ND		1.0		ug/L			09/06/14 03:44	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 03:44	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 03:44	1
Trichloroethene	ND		1.0		ug/L			09/06/14 03:44	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 03:44	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 03:44	1
Dibromomethane	ND		1.0		ug/L			09/06/14 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		09/06/14 03:44	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		09/06/14 03:44	1
4-Bromofluorobenzene (Surr)	111		70 - 130		09/06/14 03:44	1

Client Sample ID: MW-1019B-20140904-01

Lab Sample ID: 480-66696-8

Date Collected: 09/04/14 08:50

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 04:10	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/14 04:10	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 04:10	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 04:10	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/14 04:10	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/14 04:10	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 04:10	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 04:10	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 04:10	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 04:10	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 04:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 04:10	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 04:10	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 04:10	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 04:10	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 04:10	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1019B-20140904-01

Lab Sample ID: 480-66696-8

Date Collected: 09/04/14 08:50

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 04:10	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 04:10	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 04:10	1
1,4-Dioxane	ND		50		ug/L			09/06/14 04:10	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 04:10	1
2-Butanone (MEK)	ND		10		ug/L			09/06/14 04:10	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 04:10	1
2-Hexanone	ND	*	10		ug/L			09/06/14 04:10	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 04:10	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 04:10	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 04:10	1
Acetone	ND		50		ug/L			09/06/14 04:10	1
Benzene	ND		1.0		ug/L			09/06/14 04:10	1
Bromobenzene	ND		1.0		ug/L			09/06/14 04:10	1
Bromoform	ND		1.0		ug/L			09/06/14 04:10	1
Bromomethane	ND		2.0		ug/L			09/06/14 04:10	1
Carbon disulfide	ND		10		ug/L			09/06/14 04:10	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 04:10	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 04:10	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 04:10	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 04:10	1
Chloroethane	ND		2.0		ug/L			09/06/14 04:10	1
Chloroform	ND		1.0		ug/L			09/06/14 04:10	1
Chloromethane	ND		2.0		ug/L			09/06/14 04:10	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 04:10	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 04:10	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 04:10	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/06/14 04:10	1
Ethyl ether	ND		1.0		ug/L			09/06/14 04:10	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 04:10	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 04:10	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 04:10	1
Isopropyl ether	ND		10		ug/L			09/06/14 04:10	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 04:10	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 04:10	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 04:10	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 04:10	1
Naphthalene	ND		5.0		ug/L			09/06/14 04:10	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 04:10	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 04:10	1
o-Xylene	ND		1.0		ug/L			09/06/14 04:10	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 04:10	1
Styrene	ND		1.0		ug/L			09/06/14 04:10	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 04:10	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 04:10	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 04:10	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 04:10	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 04:10	1
Toluene	ND		1.0		ug/L			09/06/14 04:10	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1019B-20140904-01

Lab Sample ID: 480-66696-8

Date Collected: 09/04/14 08:50

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 04:10	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 04:10	1
Trichloroethene	2.1		1.0		ug/L			09/06/14 04:10	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 04:10	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 04:10	1
Dibromomethane	ND		1.0		ug/L			09/06/14 04:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130					09/06/14 04:10	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 130					09/06/14 04:10	1
4-Bromofluorobenzene (Surr)	109		70 - 130					09/06/14 04:10	1

Client Sample ID: MW-1020-20140904-01

Lab Sample ID: 480-66696-9

Date Collected: 09/04/14 08:20

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 04:36	1
1,1,1-Trichloroethane	3.9		1.0		ug/L			09/06/14 04:36	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 04:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 04:36	1
1,1-Dichloroethane	1.2		1.0		ug/L			09/06/14 04:36	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/14 04:36	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 04:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 04:36	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 04:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 04:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 04:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 04:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 04:36	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 04:36	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 04:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 04:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 04:36	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 04:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 04:36	1
1,4-Dioxane	ND		50		ug/L			09/06/14 04:36	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 04:36	1
2-Butanone (MEK)	ND		10		ug/L			09/06/14 04:36	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 04:36	1
2-Hexanone	ND *		10		ug/L			09/06/14 04:36	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 04:36	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 04:36	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 04:36	1
Acetone	ND		50		ug/L			09/06/14 04:36	1
Benzene	ND		1.0		ug/L			09/06/14 04:36	1
Bromobenzene	ND		1.0		ug/L			09/06/14 04:36	1
Bromoform	ND		1.0		ug/L			09/06/14 04:36	1
Bromomethane	ND		2.0		ug/L			09/06/14 04:36	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1020-20140904-01

Lab Sample ID: 480-66696-9

Date Collected: 09/04/14 08:20

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			09/06/14 04:36	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 04:36	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 04:36	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 04:36	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 04:36	1
Chloroethane	ND		2.0		ug/L			09/06/14 04:36	1
Chloroform	ND		1.0		ug/L			09/06/14 04:36	1
Chloromethane	ND		2.0		ug/L			09/06/14 04:36	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 04:36	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 04:36	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 04:36	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/06/14 04:36	1
Ethyl ether	ND		1.0		ug/L			09/06/14 04:36	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 04:36	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 04:36	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 04:36	1
Isopropyl ether	ND		10		ug/L			09/06/14 04:36	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 04:36	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 04:36	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 04:36	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 04:36	1
Naphthalene	ND		5.0		ug/L			09/06/14 04:36	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 04:36	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 04:36	1
o-Xylene	ND		1.0		ug/L			09/06/14 04:36	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 04:36	1
Styrene	ND		1.0		ug/L			09/06/14 04:36	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 04:36	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 04:36	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 04:36	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 04:36	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 04:36	1
Toluene	ND		1.0		ug/L			09/06/14 04:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 04:36	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 04:36	1
Trichloroethene	28		1.0		ug/L			09/06/14 04:36	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 04:36	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 04:36	1
Dibromomethane	ND		1.0		ug/L			09/06/14 04:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130		09/06/14 04:36	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		09/06/14 04:36	1
4-Bromofluorobenzene (Surr)	110		70 - 130		09/06/14 04:36	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1018-20140904-01

Lab Sample ID: 480-66696-10

Date Collected: 09/04/14 10:45

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 15:00	1
1,1,1-Trichloroethane	1.8		1.0		ug/L			09/06/14 15:00	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 15:00	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 15:00	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/14 15:00	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/14 15:00	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 15:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 15:00	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 15:00	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 15:00	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 15:00	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 15:00	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 15:00	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 15:00	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 15:00	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 15:00	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 15:00	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 15:00	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 15:00	1
1,4-Dioxane	ND *		50		ug/L			09/06/14 15:00	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 15:00	1
2-Butanone (MEK)	ND *		10		ug/L			09/06/14 15:00	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 15:00	1
2-Hexanone	ND *		10		ug/L			09/06/14 15:00	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 15:00	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 15:00	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 15:00	1
Acetone	ND		50		ug/L			09/06/14 15:00	1
Benzene	ND		1.0		ug/L			09/06/14 15:00	1
Bromobenzene	ND		1.0		ug/L			09/06/14 15:00	1
Bromoform	ND		1.0		ug/L			09/06/14 15:00	1
Bromomethane	ND		2.0		ug/L			09/06/14 15:00	1
Carbon disulfide	ND		10		ug/L			09/06/14 15:00	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 15:00	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 15:00	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 15:00	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 15:00	1
Chloroethane	ND		2.0		ug/L			09/06/14 15:00	1
Chloroform	ND		1.0		ug/L			09/06/14 15:00	1
Chloromethane	ND		2.0		ug/L			09/06/14 15:00	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 15:00	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 15:00	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 15:00	1
Dichlorodifluoromethane	ND *		1.0		ug/L			09/06/14 15:00	1
Ethyl ether	ND		1.0		ug/L			09/06/14 15:00	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 15:00	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 15:00	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 15:00	1
Isopropyl ether	ND		10		ug/L			09/06/14 15:00	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1018-20140904-01

Lab Sample ID: 480-66696-10

Date Collected: 09/04/14 10:45

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			09/06/14 15:00	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 15:00	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 15:00	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 15:00	1
Naphthalene	ND		5.0		ug/L			09/06/14 15:00	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 15:00	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 15:00	1
o-Xylene	ND		1.0		ug/L			09/06/14 15:00	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 15:00	1
Styrene	ND		1.0		ug/L			09/06/14 15:00	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 15:00	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 15:00	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 15:00	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 15:00	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 15:00	1
Toluene	ND		1.0		ug/L			09/06/14 15:00	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 15:00	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 15:00	1
Trichloroethene	7.8		1.0		ug/L			09/06/14 15:00	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 15:00	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 15:00	1
Dibromomethane	ND		1.0		ug/L			09/06/14 15:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130					09/06/14 15:00	1
1,2-Dichloroethane-d4 (Surr)	83		70 - 130					09/06/14 15:00	1
4-Bromofluorobenzene (Surr)	112		70 - 130					09/06/14 15:00	1

Client Sample ID: MW-1017D-20140904-01

Lab Sample ID: 480-66696-11

Date Collected: 09/04/14 10:30

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 05:27	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/14 05:27	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 05:27	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 05:27	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/14 05:27	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/14 05:27	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 05:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 05:27	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 05:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 05:27	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 05:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 05:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 05:27	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 05:27	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 05:27	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 05:27	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1017D-20140904-01

Lab Sample ID: 480-66696-11

Date Collected: 09/04/14 10:30

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 05:27	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 05:27	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 05:27	1
1,4-Dioxane	ND		50		ug/L			09/06/14 05:27	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 05:27	1
2-Butanone (MEK)	ND		10		ug/L			09/06/14 05:27	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 05:27	1
2-Hexanone	ND	*	10		ug/L			09/06/14 05:27	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 05:27	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 05:27	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 05:27	1
Acetone	ND		50		ug/L			09/06/14 05:27	1
Benzene	ND		1.0		ug/L			09/06/14 05:27	1
Bromobenzene	ND		1.0		ug/L			09/06/14 05:27	1
Bromoform	ND		1.0		ug/L			09/06/14 05:27	1
Bromomethane	ND		2.0		ug/L			09/06/14 05:27	1
Carbon disulfide	ND		10		ug/L			09/06/14 05:27	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 05:27	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 05:27	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 05:27	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 05:27	1
Chloroethane	ND		2.0		ug/L			09/06/14 05:27	1
Chloroform	ND		1.0		ug/L			09/06/14 05:27	1
Chloromethane	ND		2.0		ug/L			09/06/14 05:27	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 05:27	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 05:27	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/06/14 05:27	1
Ethyl ether	ND		1.0		ug/L			09/06/14 05:27	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 05:27	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 05:27	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 05:27	1
Isopropyl ether	ND		10		ug/L			09/06/14 05:27	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 05:27	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 05:27	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 05:27	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 05:27	1
Naphthalene	ND		5.0		ug/L			09/06/14 05:27	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 05:27	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 05:27	1
o-Xylene	ND		1.0		ug/L			09/06/14 05:27	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 05:27	1
Styrene	ND		1.0		ug/L			09/06/14 05:27	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 05:27	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 05:27	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 05:27	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 05:27	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 05:27	1
Toluene	ND		1.0		ug/L			09/06/14 05:27	1
trans-1,2-Dichloroethene	1.4		1.0		ug/L			09/06/14 05:27	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1017D-20140904-01

Lab Sample ID: 480-66696-11

Date Collected: 09/04/14 10:30

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 05:27	1
Trichloroethene	2.2		1.0		ug/L			09/06/14 05:27	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 05:27	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 05:27	1
Dibromomethane	ND		1.0		ug/L			09/06/14 05:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130					09/06/14 05:27	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 130					09/06/14 05:27	1
4-Bromofluorobenzene (Surr)	110		70 - 130					09/06/14 05:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	130		2.0		ug/L			09/06/14 15:26	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130					09/06/14 15:26	2
1,2-Dichloroethane-d4 (Surr)	85		70 - 130					09/06/14 15:26	2
4-Bromofluorobenzene (Surr)	109		70 - 130					09/06/14 15:26	2

Client Sample ID: MW-1015D-20140904-01

Lab Sample ID: 480-66696-12

Date Collected: 09/04/14 10:10

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 05:52	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/14 05:52	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 05:52	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 05:52	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/14 05:52	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/14 05:52	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 05:52	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 05:52	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 05:52	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 05:52	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 05:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 05:52	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 05:52	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 05:52	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 05:52	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 05:52	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 05:52	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 05:52	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 05:52	1
1,4-Dioxane	ND		50		ug/L			09/06/14 05:52	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 05:52	1
2-Butanone (MEK)	ND		10		ug/L			09/06/14 05:52	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 05:52	1
2-Hexanone	ND *		10		ug/L			09/06/14 05:52	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1015D-20140904-01

Lab Sample ID: 480-66696-12

Date Collected: 09/04/14 10:10

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 05:52	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 05:52	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 05:52	1
Acetone	ND		50		ug/L			09/06/14 05:52	1
Benzene	ND		1.0		ug/L			09/06/14 05:52	1
Bromobenzene	ND		1.0		ug/L			09/06/14 05:52	1
Bromoform	ND		1.0		ug/L			09/06/14 05:52	1
Bromomethane	ND		2.0		ug/L			09/06/14 05:52	1
Carbon disulfide	ND		10		ug/L			09/06/14 05:52	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 05:52	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 05:52	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 05:52	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 05:52	1
Chloroethane	ND		2.0		ug/L			09/06/14 05:52	1
Chloroform	ND		1.0		ug/L			09/06/14 05:52	1
Chloromethane	ND		2.0		ug/L			09/06/14 05:52	1
cis-1,2-Dichloroethene	2.0		1.0		ug/L			09/06/14 05:52	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 05:52	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 05:52	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/06/14 05:52	1
Ethyl ether	ND		1.0		ug/L			09/06/14 05:52	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 05:52	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 05:52	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 05:52	1
Isopropyl ether	ND		10		ug/L			09/06/14 05:52	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 05:52	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 05:52	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 05:52	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 05:52	1
Naphthalene	ND		5.0		ug/L			09/06/14 05:52	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 05:52	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 05:52	1
o-Xylene	ND		1.0		ug/L			09/06/14 05:52	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 05:52	1
Styrene	ND		1.0		ug/L			09/06/14 05:52	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 05:52	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 05:52	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 05:52	1
Tetrachloroethene	2.1		1.0		ug/L			09/06/14 05:52	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 05:52	1
Toluene	ND		1.0		ug/L			09/06/14 05:52	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 05:52	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 05:52	1
Trichloroethene	24		1.0		ug/L			09/06/14 05:52	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 05:52	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 05:52	1
Dibromomethane	ND		1.0		ug/L			09/06/14 05:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130					09/06/14 05:52	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1015D-20140904-01

Lab Sample ID: 480-66696-12

Date Collected: 09/04/14 10:10

Matrix: Water

Date Received: 09/05/14 00:30

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		09/06/14 05:52	1
4-Bromofluorobenzene (Surr)	109		70 - 130		09/06/14 05:52	1

Client Sample ID: MW-1033-20140904-01

Lab Sample ID: 480-66696-13

Date Collected: 09/04/14 08:50

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 06:18	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/14 06:18	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 06:18	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 06:18	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/14 06:18	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/14 06:18	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 06:18	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 06:18	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 06:18	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 06:18	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 06:18	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 06:18	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 06:18	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 06:18	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 06:18	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 06:18	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 06:18	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 06:18	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 06:18	1
1,4-Dioxane	ND		50		ug/L			09/06/14 06:18	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 06:18	1
2-Butanone (MEK)	ND		10		ug/L			09/06/14 06:18	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 06:18	1
2-Hexanone	ND *		10		ug/L			09/06/14 06:18	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 06:18	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 06:18	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 06:18	1
Acetone	ND		50		ug/L			09/06/14 06:18	1
Benzene	ND		1.0		ug/L			09/06/14 06:18	1
Bromobenzene	ND		1.0		ug/L			09/06/14 06:18	1
Bromoform	ND		1.0		ug/L			09/06/14 06:18	1
Bromomethane	ND		2.0		ug/L			09/06/14 06:18	1
Carbon disulfide	ND		10		ug/L			09/06/14 06:18	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 06:18	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 06:18	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 06:18	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 06:18	1
Chloroethane	ND		2.0		ug/L			09/06/14 06:18	1
Chloroform	ND		1.0		ug/L			09/06/14 06:18	1
Chloromethane	ND		2.0		ug/L			09/06/14 06:18	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1033-20140904-01

Lab Sample ID: 480-66696-13

Date Collected: 09/04/14 08:50

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 06:18	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 06:18	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 06:18	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/06/14 06:18	1
Ethyl ether	ND		1.0		ug/L			09/06/14 06:18	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 06:18	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 06:18	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 06:18	1
Isopropyl ether	ND		10		ug/L			09/06/14 06:18	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 06:18	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 06:18	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 06:18	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 06:18	1
Naphthalene	ND		5.0		ug/L			09/06/14 06:18	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 06:18	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 06:18	1
o-Xylene	ND		1.0		ug/L			09/06/14 06:18	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 06:18	1
Styrene	ND		1.0		ug/L			09/06/14 06:18	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 06:18	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 06:18	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 06:18	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 06:18	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 06:18	1
Toluene	ND		1.0		ug/L			09/06/14 06:18	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 06:18	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 06:18	1
Trichloroethene	ND		1.0		ug/L			09/06/14 06:18	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 06:18	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 06:18	1
Dibromomethane	ND		1.0		ug/L			09/06/14 06:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		09/06/14 06:18	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		09/06/14 06:18	1
4-Bromofluorobenzene (Surr)	105		70 - 130		09/06/14 06:18	1

Client Sample ID: MW-1027-20140904-01

Lab Sample ID: 480-66696-14

Date Collected: 09/04/14 09:25

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 06:43	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/14 06:43	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 06:43	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 06:43	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/14 06:43	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/14 06:43	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 06:43	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1027-20140904-01

Lab Sample ID: 480-66696-14

Date Collected: 09/04/14 09:25

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 06:43	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 06:43	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 06:43	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 06:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 06:43	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 06:43	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 06:43	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 06:43	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 06:43	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 06:43	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 06:43	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 06:43	1
1,4-Dioxane	ND		50		ug/L			09/06/14 06:43	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 06:43	1
2-Butanone (MEK)	ND		10		ug/L			09/06/14 06:43	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 06:43	1
2-Hexanone	ND *		10		ug/L			09/06/14 06:43	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 06:43	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 06:43	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 06:43	1
Acetone	ND		50		ug/L			09/06/14 06:43	1
Benzene	ND		1.0		ug/L			09/06/14 06:43	1
Bromobenzene	ND		1.0		ug/L			09/06/14 06:43	1
Bromoform	ND		1.0		ug/L			09/06/14 06:43	1
Bromomethane	ND		2.0		ug/L			09/06/14 06:43	1
Carbon disulfide	ND		10		ug/L			09/06/14 06:43	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 06:43	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 06:43	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 06:43	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 06:43	1
Chloroethane	ND		2.0		ug/L			09/06/14 06:43	1
Chloroform	ND		1.0		ug/L			09/06/14 06:43	1
Chloromethane	ND		2.0		ug/L			09/06/14 06:43	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 06:43	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 06:43	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 06:43	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/06/14 06:43	1
Ethyl ether	ND		1.0		ug/L			09/06/14 06:43	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 06:43	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 06:43	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 06:43	1
Isopropyl ether	ND		10		ug/L			09/06/14 06:43	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 06:43	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 06:43	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 06:43	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 06:43	1
Naphthalene	ND		5.0		ug/L			09/06/14 06:43	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 06:43	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 06:43	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1027-20140904-01

Lab Sample ID: 480-66696-14

Date Collected: 09/04/14 09:25

Matrix: Water

Date Received: 09/05/14 00:30

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			09/06/14 06:43	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 06:43	1
Styrene	ND		1.0		ug/L			09/06/14 06:43	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 06:43	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 06:43	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 06:43	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 06:43	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 06:43	1
Toluene	ND		1.0		ug/L			09/06/14 06:43	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 06:43	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 06:43	1
Trichloroethene	ND		1.0		ug/L			09/06/14 06:43	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 06:43	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 06:43	1
Dibromomethane	ND		1.0		ug/L			09/06/14 06:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130					09/06/14 06:43	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 130					09/06/14 06:43	1
4-Bromofluorobenzene (Surr)	104		70 - 130					09/06/14 06:43	1

Client Sample ID: MW-1028-20140904-01

Lab Sample ID: 480-66696-15

Date Collected: 09/04/14 09:10

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 07:08	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/14 07:08	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 07:08	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 07:08	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/14 07:08	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/14 07:08	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 07:08	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 07:08	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 07:08	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 07:08	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 07:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 07:08	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 07:08	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 07:08	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 07:08	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 07:08	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 07:08	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 07:08	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 07:08	1
1,4-Dioxane	ND		50		ug/L			09/06/14 07:08	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 07:08	1
2-Butanone (MEK)	ND		10		ug/L			09/06/14 07:08	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 07:08	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1028-20140904-01

Lab Sample ID: 480-66696-15

Date Collected: 09/04/14 09:10

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	10		ug/L			09/06/14 07:08	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 07:08	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 07:08	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 07:08	1
Acetone	ND		50		ug/L			09/06/14 07:08	1
Benzene	ND		1.0		ug/L			09/06/14 07:08	1
Bromobenzene	ND		1.0		ug/L			09/06/14 07:08	1
Bromoform	ND		1.0		ug/L			09/06/14 07:08	1
Bromomethane	ND		2.0		ug/L			09/06/14 07:08	1
Carbon disulfide	ND		10		ug/L			09/06/14 07:08	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 07:08	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 07:08	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 07:08	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 07:08	1
Chloroethane	ND		2.0		ug/L			09/06/14 07:08	1
Chloroform	ND		1.0		ug/L			09/06/14 07:08	1
Chloromethane	ND		2.0		ug/L			09/06/14 07:08	1
cis-1,2-Dichloroethene	1.3		1.0		ug/L			09/06/14 07:08	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 07:08	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 07:08	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/06/14 07:08	1
Ethyl ether	ND		1.0		ug/L			09/06/14 07:08	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 07:08	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 07:08	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 07:08	1
Isopropyl ether	ND		10		ug/L			09/06/14 07:08	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 07:08	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 07:08	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 07:08	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 07:08	1
Naphthalene	ND		5.0		ug/L			09/06/14 07:08	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 07:08	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 07:08	1
o-Xylene	ND		1.0		ug/L			09/06/14 07:08	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 07:08	1
Styrene	ND		1.0		ug/L			09/06/14 07:08	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 07:08	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 07:08	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 07:08	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 07:08	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 07:08	1
Toluene	ND		1.0		ug/L			09/06/14 07:08	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 07:08	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 07:08	1
Trichloroethene	6.0		1.0		ug/L			09/06/14 07:08	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 07:08	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 07:08	1
Dibromomethane	ND		1.0		ug/L			09/06/14 07:08	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1028-20140904-01

Lab Sample ID: 480-66696-15

Date Collected: 09/04/14 09:10

Matrix: Water

Date Received: 09/05/14 00:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130		09/06/14 07:08	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		09/06/14 07:08	1
4-Bromofluorobenzene (Surr)	107		70 - 130		09/06/14 07:08	1

Client Sample ID: MW-1030-20140904-01

Lab Sample ID: 480-66696-16

Date Collected: 09/04/14 09:50

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 07:34	1
1,1,1-Trichloroethane	5.7		1.0		ug/L			09/06/14 07:34	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 07:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 07:34	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/14 07:34	1
1,1-Dichloroethene	2.2		1.0		ug/L			09/06/14 07:34	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 07:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 07:34	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 07:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 07:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 07:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 07:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 07:34	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 07:34	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 07:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 07:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 07:34	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 07:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 07:34	1
1,4-Dioxane	ND		50		ug/L			09/06/14 07:34	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 07:34	1
2-Butanone (MEK)	ND		10		ug/L			09/06/14 07:34	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 07:34	1
2-Hexanone	ND *		10		ug/L			09/06/14 07:34	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 07:34	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 07:34	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 07:34	1
Acetone	ND		50		ug/L			09/06/14 07:34	1
Benzene	ND		1.0		ug/L			09/06/14 07:34	1
Bromobenzene	ND		1.0		ug/L			09/06/14 07:34	1
Bromoform	ND		1.0		ug/L			09/06/14 07:34	1
Bromomethane	ND		2.0		ug/L			09/06/14 07:34	1
Carbon disulfide	ND		10		ug/L			09/06/14 07:34	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 07:34	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 07:34	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 07:34	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 07:34	1
Chloroethane	ND		2.0		ug/L			09/06/14 07:34	1
Chloroform	ND		1.0		ug/L			09/06/14 07:34	1
Chloromethane	ND		2.0		ug/L			09/06/14 07:34	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1030-20140904-01

Lab Sample ID: 480-66696-16

Date Collected: 09/04/14 09:50

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 07:34	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 07:34	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 07:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/06/14 07:34	1
Ethyl ether	ND		1.0		ug/L			09/06/14 07:34	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 07:34	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 07:34	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 07:34	1
Isopropyl ether	ND		10		ug/L			09/06/14 07:34	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 07:34	1
Methyl tert-butyl ether	2.5		1.0		ug/L			09/06/14 07:34	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 07:34	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 07:34	1
Naphthalene	ND		5.0		ug/L			09/06/14 07:34	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 07:34	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 07:34	1
o-Xylene	ND		1.0		ug/L			09/06/14 07:34	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 07:34	1
Styrene	ND		1.0		ug/L			09/06/14 07:34	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 07:34	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 07:34	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 07:34	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 07:34	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 07:34	1
Toluene	ND		1.0		ug/L			09/06/14 07:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 07:34	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 07:34	1
Trichloroethene	41		1.0		ug/L			09/06/14 07:34	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 07:34	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 07:34	1
Dibromomethane	ND		1.0		ug/L			09/06/14 07:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130		09/06/14 07:34	1
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		09/06/14 07:34	1
4-Bromofluorobenzene (Surr)	108		70 - 130		09/06/14 07:34	1

Client Sample ID: MW-1031-20140904-01

Lab Sample ID: 480-66696-17

Date Collected: 09/04/14 10:10

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 15:52	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/14 15:52	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 15:52	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 15:52	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/14 15:52	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/14 15:52	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 15:52	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1031-20140904-01

Lab Sample ID: 480-66696-17

Date Collected: 09/04/14 10:10

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 15:52	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 15:52	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 15:52	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 15:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 15:52	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 15:52	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 15:52	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 15:52	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 15:52	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 15:52	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 15:52	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 15:52	1
1,4-Dioxane	ND	*	50		ug/L			09/06/14 15:52	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 15:52	1
2-Butanone (MEK)	ND	*	10		ug/L			09/06/14 15:52	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 15:52	1
2-Hexanone	ND	*	10		ug/L			09/06/14 15:52	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 15:52	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 15:52	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 15:52	1
Acetone	ND		50		ug/L			09/06/14 15:52	1
Benzene	ND		1.0		ug/L			09/06/14 15:52	1
Bromobenzene	ND		1.0		ug/L			09/06/14 15:52	1
Bromoform	ND		1.0		ug/L			09/06/14 15:52	1
Bromomethane	ND		2.0		ug/L			09/06/14 15:52	1
Carbon disulfide	ND		10		ug/L			09/06/14 15:52	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 15:52	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 15:52	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 15:52	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 15:52	1
Chloroethane	ND		2.0		ug/L			09/06/14 15:52	1
Chloroform	ND		1.0		ug/L			09/06/14 15:52	1
Chloromethane	ND		2.0		ug/L			09/06/14 15:52	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 15:52	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 15:52	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 15:52	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			09/06/14 15:52	1
Ethyl ether	ND		1.0		ug/L			09/06/14 15:52	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 15:52	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 15:52	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 15:52	1
Isopropyl ether	ND		10		ug/L			09/06/14 15:52	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 15:52	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 15:52	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 15:52	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 15:52	1
Naphthalene	ND		5.0		ug/L			09/06/14 15:52	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 15:52	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 15:52	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1031-20140904-01

Lab Sample ID: 480-66696-17

Date Collected: 09/04/14 10:10

Matrix: Water

Date Received: 09/05/14 00:30

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			09/06/14 15:52	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 15:52	1
Styrene	ND		1.0		ug/L			09/06/14 15:52	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 15:52	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 15:52	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 15:52	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 15:52	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 15:52	1
Toluene	ND		1.0		ug/L			09/06/14 15:52	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 15:52	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 15:52	1
Trichloroethene	ND		1.0		ug/L			09/06/14 15:52	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 15:52	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 15:52	1
Dibromomethane	ND		1.0		ug/L			09/06/14 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130					09/06/14 15:52	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 130					09/06/14 15:52	1
4-Bromofluorobenzene (Surr)	108		70 - 130					09/06/14 15:52	1

Client Sample ID: MW-1032-20140904-01

Lab Sample ID: 480-66696-18

Date Collected: 09/04/14 10:25

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 16:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/14 16:17	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 16:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 16:17	1
1,1-Dichloroethane	1.4		1.0		ug/L			09/06/14 16:17	1
1,1-Dichloroethene	2.0		1.0		ug/L			09/06/14 16:17	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 16:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 16:17	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 16:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 16:17	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 16:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 16:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 16:17	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 16:17	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 16:17	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 16:17	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 16:17	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 16:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 16:17	1
1,4-Dioxane	ND *		50		ug/L			09/06/14 16:17	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 16:17	1
2-Butanone (MEK)	ND *		10		ug/L			09/06/14 16:17	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 16:17	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1032-20140904-01

Lab Sample ID: 480-66696-18

Date Collected: 09/04/14 10:25

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	10		ug/L			09/06/14 16:17	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 16:17	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 16:17	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 16:17	1
Acetone	ND		50		ug/L			09/06/14 16:17	1
Benzene	ND		1.0		ug/L			09/06/14 16:17	1
Bromobenzene	ND		1.0		ug/L			09/06/14 16:17	1
Bromoform	ND		1.0		ug/L			09/06/14 16:17	1
Bromomethane	ND		2.0		ug/L			09/06/14 16:17	1
Carbon disulfide	ND		10		ug/L			09/06/14 16:17	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 16:17	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 16:17	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 16:17	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 16:17	1
Chloroethane	ND		2.0		ug/L			09/06/14 16:17	1
Chloroform	ND		1.0		ug/L			09/06/14 16:17	1
Chloromethane	ND		2.0		ug/L			09/06/14 16:17	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 16:17	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 16:17	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 16:17	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			09/06/14 16:17	1
Ethyl ether	ND		1.0		ug/L			09/06/14 16:17	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 16:17	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 16:17	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 16:17	1
Isopropyl ether	ND		10		ug/L			09/06/14 16:17	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 16:17	1
Methyl tert-butyl ether	4.4		1.0		ug/L			09/06/14 16:17	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 16:17	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 16:17	1
Naphthalene	ND		5.0		ug/L			09/06/14 16:17	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 16:17	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 16:17	1
o-Xylene	ND		1.0		ug/L			09/06/14 16:17	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 16:17	1
Styrene	ND		1.0		ug/L			09/06/14 16:17	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 16:17	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 16:17	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 16:17	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 16:17	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 16:17	1
Toluene	ND		1.0		ug/L			09/06/14 16:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 16:17	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 16:17	1
Trichloroethene	8.6		1.0		ug/L			09/06/14 16:17	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 16:17	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 16:17	1
Dibromomethane	ND		1.0		ug/L			09/06/14 16:17	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1032-20140904-01

Lab Sample ID: 480-66696-18

Date Collected: 09/04/14 10:25

Matrix: Water

Date Received: 09/05/14 00:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130		09/06/14 16:17	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 130		09/06/14 16:17	1
4-Bromofluorobenzene (Surr)	110		70 - 130		09/06/14 16:17	1

Client Sample ID: MW-1022-20140904-01

Lab Sample ID: 480-66696-19

Date Collected: 09/04/14 11:00

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 16:43	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/14 16:43	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 16:43	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 16:43	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/14 16:43	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/14 16:43	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 16:43	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 16:43	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 16:43	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 16:43	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 16:43	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 16:43	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 16:43	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 16:43	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 16:43	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 16:43	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 16:43	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 16:43	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 16:43	1
1,4-Dioxane	ND *		50		ug/L			09/06/14 16:43	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 16:43	1
2-Butanone (MEK)	ND *		10		ug/L			09/06/14 16:43	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 16:43	1
2-Hexanone	ND *		10		ug/L			09/06/14 16:43	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 16:43	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 16:43	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 16:43	1
Acetone	ND		50		ug/L			09/06/14 16:43	1
Benzene	ND		1.0		ug/L			09/06/14 16:43	1
Bromobenzene	ND		1.0		ug/L			09/06/14 16:43	1
Bromoform	ND		1.0		ug/L			09/06/14 16:43	1
Bromomethane	ND		2.0		ug/L			09/06/14 16:43	1
Carbon disulfide	ND		10		ug/L			09/06/14 16:43	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 16:43	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 16:43	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 16:43	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 16:43	1
Chloroethane	ND		2.0		ug/L			09/06/14 16:43	1
Chloroform	ND		1.0		ug/L			09/06/14 16:43	1
Chloromethane	ND		2.0		ug/L			09/06/14 16:43	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1022-20140904-01

Lab Sample ID: 480-66696-19

Date Collected: 09/04/14 11:00

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 16:43	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 16:43	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 16:43	1
Dichlorodifluoromethane	ND *		1.0		ug/L			09/06/14 16:43	1
Ethyl ether	ND		1.0		ug/L			09/06/14 16:43	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 16:43	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 16:43	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 16:43	1
Isopropyl ether	ND		10		ug/L			09/06/14 16:43	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 16:43	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 16:43	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 16:43	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 16:43	1
Naphthalene	ND		5.0		ug/L			09/06/14 16:43	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 16:43	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 16:43	1
o-Xylene	ND		1.0		ug/L			09/06/14 16:43	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 16:43	1
Styrene	ND		1.0		ug/L			09/06/14 16:43	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 16:43	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 16:43	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 16:43	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 16:43	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 16:43	1
Toluene	ND		1.0		ug/L			09/06/14 16:43	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 16:43	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 16:43	1
Trichloroethene	2.6		1.0		ug/L			09/06/14 16:43	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 16:43	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 16:43	1
Dibromomethane	ND		1.0		ug/L			09/06/14 16:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		09/06/14 16:43	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 130		09/06/14 16:43	1
4-Bromofluorobenzene (Surr)	110		70 - 130		09/06/14 16:43	1

Client Sample ID: MW-1023-20140904-01

Lab Sample ID: 480-66696-20

Date Collected: 09/04/14 10:40

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 17:09	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/14 17:09	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 17:09	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 17:09	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/14 17:09	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/14 17:09	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 17:09	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1023-20140904-01

Lab Sample ID: 480-66696-20

Date Collected: 09/04/14 10:40

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 17:09	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 17:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 17:09	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 17:09	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 17:09	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 17:09	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 17:09	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 17:09	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 17:09	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 17:09	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 17:09	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 17:09	1
1,4-Dioxane	ND	*	50		ug/L			09/06/14 17:09	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 17:09	1
2-Butanone (MEK)	ND	*	10		ug/L			09/06/14 17:09	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 17:09	1
2-Hexanone	ND	*	10		ug/L			09/06/14 17:09	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 17:09	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 17:09	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 17:09	1
Acetone	ND		50		ug/L			09/06/14 17:09	1
Benzene	ND		1.0		ug/L			09/06/14 17:09	1
Bromobenzene	ND		1.0		ug/L			09/06/14 17:09	1
Bromoform	ND		1.0		ug/L			09/06/14 17:09	1
Bromomethane	ND		2.0		ug/L			09/06/14 17:09	1
Carbon disulfide	ND		10		ug/L			09/06/14 17:09	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 17:09	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 17:09	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 17:09	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 17:09	1
Chloroethane	ND		2.0		ug/L			09/06/14 17:09	1
Chloroform	ND		1.0		ug/L			09/06/14 17:09	1
Chloromethane	ND		2.0		ug/L			09/06/14 17:09	1
cis-1,2-Dichloroethene	7.9		1.0		ug/L			09/06/14 17:09	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 17:09	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 17:09	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			09/06/14 17:09	1
Ethyl ether	ND		1.0		ug/L			09/06/14 17:09	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 17:09	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 17:09	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 17:09	1
Isopropyl ether	ND		10		ug/L			09/06/14 17:09	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 17:09	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 17:09	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 17:09	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 17:09	1
Naphthalene	ND		5.0		ug/L			09/06/14 17:09	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 17:09	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 17:09	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1023-20140904-01

Lab Sample ID: 480-66696-20

Date Collected: 09/04/14 10:40

Matrix: Water

Date Received: 09/05/14 00:30

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			09/06/14 17:09	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 17:09	1
Styrene	ND		1.0		ug/L			09/06/14 17:09	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 17:09	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 17:09	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 17:09	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 17:09	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 17:09	1
Toluene	ND		1.0		ug/L			09/06/14 17:09	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 17:09	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 17:09	1
Trichloroethene	29		1.0		ug/L			09/06/14 17:09	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 17:09	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 17:09	1
Dibromomethane	ND		1.0		ug/L			09/06/14 17:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130					09/06/14 17:09	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 130					09/06/14 17:09	1
4-Bromofluorobenzene (Surr)	109		70 - 130					09/06/14 17:09	1

Client Sample ID: MW-1013-20140904-01

Lab Sample ID: 480-66696-21

Date Collected: 09/04/14 10:50

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 17:35	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/14 17:35	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 17:35	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 17:35	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/14 17:35	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/14 17:35	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 17:35	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 17:35	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 17:35	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 17:35	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 17:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 17:35	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 17:35	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 17:35	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 17:35	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 17:35	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 17:35	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 17:35	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 17:35	1
1,4-Dioxane	ND *		50		ug/L			09/06/14 17:35	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 17:35	1
2-Butanone (MEK)	ND *		10		ug/L			09/06/14 17:35	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 17:35	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1013-20140904-01

Lab Sample ID: 480-66696-21

Date Collected: 09/04/14 10:50

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	10		ug/L			09/06/14 17:35	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 17:35	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 17:35	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 17:35	1
Acetone	ND		50		ug/L			09/06/14 17:35	1
Benzene	ND		1.0		ug/L			09/06/14 17:35	1
Bromobenzene	ND		1.0		ug/L			09/06/14 17:35	1
Bromoform	ND		1.0		ug/L			09/06/14 17:35	1
Bromomethane	ND		2.0		ug/L			09/06/14 17:35	1
Carbon disulfide	ND		10		ug/L			09/06/14 17:35	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 17:35	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 17:35	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 17:35	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 17:35	1
Chloroethane	ND		2.0		ug/L			09/06/14 17:35	1
Chloroform	ND		1.0		ug/L			09/06/14 17:35	1
Chloromethane	ND		2.0		ug/L			09/06/14 17:35	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 17:35	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 17:35	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 17:35	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			09/06/14 17:35	1
Ethyl ether	ND		1.0		ug/L			09/06/14 17:35	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 17:35	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 17:35	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 17:35	1
Isopropyl ether	ND		10		ug/L			09/06/14 17:35	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 17:35	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 17:35	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 17:35	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 17:35	1
Naphthalene	ND		5.0		ug/L			09/06/14 17:35	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 17:35	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 17:35	1
o-Xylene	ND		1.0		ug/L			09/06/14 17:35	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 17:35	1
Styrene	ND		1.0		ug/L			09/06/14 17:35	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 17:35	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 17:35	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 17:35	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 17:35	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 17:35	1
Toluene	ND		1.0		ug/L			09/06/14 17:35	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 17:35	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 17:35	1
Trichloroethene	ND		1.0		ug/L			09/06/14 17:35	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 17:35	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 17:35	1
Dibromomethane	ND		1.0		ug/L			09/06/14 17:35	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1013-20140904-01

Lab Sample ID: 480-66696-21

Date Collected: 09/04/14 10:50

Matrix: Water

Date Received: 09/05/14 00:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130		09/06/14 17:35	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 130		09/06/14 17:35	1
4-Bromofluorobenzene (Surr)	109		70 - 130		09/06/14 17:35	1

Client Sample ID: MW-1034-20140904-01

Lab Sample ID: 480-66696-22

Date Collected: 09/04/14 11:30

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 18:00	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/14 18:00	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 18:00	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 18:00	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/14 18:00	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/14 18:00	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 18:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 18:00	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 18:00	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 18:00	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 18:00	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 18:00	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 18:00	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 18:00	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 18:00	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 18:00	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 18:00	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 18:00	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 18:00	1
1,4-Dioxane	ND	*	50		ug/L			09/06/14 18:00	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 18:00	1
2-Butanone (MEK)	ND	*	10		ug/L			09/06/14 18:00	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 18:00	1
2-Hexanone	ND	*	10		ug/L			09/06/14 18:00	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 18:00	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 18:00	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 18:00	1
Acetone	ND		50		ug/L			09/06/14 18:00	1
Benzene	ND		1.0		ug/L			09/06/14 18:00	1
Bromobenzene	ND		1.0		ug/L			09/06/14 18:00	1
Bromoform	ND		1.0		ug/L			09/06/14 18:00	1
Bromomethane	ND		2.0		ug/L			09/06/14 18:00	1
Carbon disulfide	ND		10		ug/L			09/06/14 18:00	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 18:00	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 18:00	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 18:00	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 18:00	1
Chloroethane	ND		2.0		ug/L			09/06/14 18:00	1
Chloroform	ND		1.0		ug/L			09/06/14 18:00	1
Chloromethane	ND		2.0		ug/L			09/06/14 18:00	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1034-20140904-01

Lab Sample ID: 480-66696-22

Date Collected: 09/04/14 11:30

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	9.0		1.0		ug/L			09/06/14 18:00	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 18:00	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 18:00	1
Dichlorodifluoromethane	ND *		1.0		ug/L			09/06/14 18:00	1
Ethyl ether	ND		1.0		ug/L			09/06/14 18:00	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 18:00	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 18:00	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 18:00	1
Isopropyl ether	ND		10		ug/L			09/06/14 18:00	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 18:00	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 18:00	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 18:00	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 18:00	1
Naphthalene	ND		5.0		ug/L			09/06/14 18:00	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 18:00	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 18:00	1
o-Xylene	ND		1.0		ug/L			09/06/14 18:00	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 18:00	1
Styrene	ND		1.0		ug/L			09/06/14 18:00	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 18:00	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 18:00	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 18:00	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 18:00	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 18:00	1
Toluene	ND		1.0		ug/L			09/06/14 18:00	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 18:00	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 18:00	1
Trichloroethene	29		1.0		ug/L			09/06/14 18:00	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 18:00	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 18:00	1
Dibromomethane	ND		1.0		ug/L			09/06/14 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130		09/06/14 18:00	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 130		09/06/14 18:00	1
4-Bromofluorobenzene (Surr)	111		70 - 130		09/06/14 18:00	1

Client Sample ID: DUP-004-20140904-01

Lab Sample ID: 480-66696-23

Date Collected: 09/04/14 11:11

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 18:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/14 18:26	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 18:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 18:26	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/14 18:26	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/14 18:26	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 18:26	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: DUP-004-20140904-01

Lab Sample ID: 480-66696-23

Date Collected: 09/04/14 11:11

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 18:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 18:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 18:26	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 18:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 18:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 18:26	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 18:26	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 18:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 18:26	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 18:26	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 18:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 18:26	1
1,4-Dioxane	ND	*	50		ug/L			09/06/14 18:26	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 18:26	1
2-Butanone (MEK)	ND	*	10		ug/L			09/06/14 18:26	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 18:26	1
2-Hexanone	ND	*	10		ug/L			09/06/14 18:26	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 18:26	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 18:26	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 18:26	1
Acetone	ND		50		ug/L			09/06/14 18:26	1
Benzene	ND		1.0		ug/L			09/06/14 18:26	1
Bromobenzene	ND		1.0		ug/L			09/06/14 18:26	1
Bromoform	ND		1.0		ug/L			09/06/14 18:26	1
Bromomethane	ND		2.0		ug/L			09/06/14 18:26	1
Carbon disulfide	ND		10		ug/L			09/06/14 18:26	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 18:26	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 18:26	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 18:26	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 18:26	1
Chloroethane	ND		2.0		ug/L			09/06/14 18:26	1
Chloroform	ND		1.0		ug/L			09/06/14 18:26	1
Chloromethane	ND		2.0		ug/L			09/06/14 18:26	1
cis-1,2-Dichloroethene	9.4		1.0		ug/L			09/06/14 18:26	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 18:26	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 18:26	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			09/06/14 18:26	1
Ethyl ether	ND		1.0		ug/L			09/06/14 18:26	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 18:26	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 18:26	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 18:26	1
Isopropyl ether	ND		10		ug/L			09/06/14 18:26	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 18:26	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 18:26	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 18:26	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 18:26	1
Naphthalene	ND		5.0		ug/L			09/06/14 18:26	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 18:26	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 18:26	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: DUP-004-20140904-01

Lab Sample ID: 480-66696-23

Date Collected: 09/04/14 11:11

Matrix: Water

Date Received: 09/05/14 00:30

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			09/06/14 18:26	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 18:26	1
Styrene	ND		1.0		ug/L			09/06/14 18:26	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 18:26	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 18:26	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 18:26	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 18:26	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 18:26	1
Toluene	ND		1.0		ug/L			09/06/14 18:26	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 18:26	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 18:26	1
Trichloroethene	30		1.0		ug/L			09/06/14 18:26	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 18:26	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 18:26	1
Dibromomethane	ND		1.0		ug/L			09/06/14 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130					09/06/14 18:26	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 130					09/06/14 18:26	1
4-Bromofluorobenzene (Surr)	108		70 - 130					09/06/14 18:26	1

Client Sample ID: DUP-003-20140904-01

Lab Sample ID: 480-66696-24

Date Collected: 09/04/14 11:11

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 18:51	1
1,1,1-Trichloroethane	1.5		1.0		ug/L			09/06/14 18:51	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 18:51	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 18:51	1
1,1-Dichloroethane	1.1		1.0		ug/L			09/06/14 18:51	1
1,1-Dichloroethene	5.1		1.0		ug/L			09/06/14 18:51	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 18:51	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 18:51	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 18:51	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 18:51	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 18:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 18:51	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 18:51	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 18:51	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 18:51	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 18:51	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 18:51	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 18:51	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 18:51	1
1,4-Dioxane	ND *		50		ug/L			09/06/14 18:51	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 18:51	1
2-Butanone (MEK)	ND *		10		ug/L			09/06/14 18:51	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 18:51	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: DUP-003-20140904-01

Lab Sample ID: 480-66696-24

Date Collected: 09/04/14 11:11

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	10		ug/L			09/06/14 18:51	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 18:51	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 18:51	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 18:51	1
Acetone	ND		50		ug/L			09/06/14 18:51	1
Benzene	ND		1.0		ug/L			09/06/14 18:51	1
Bromobenzene	ND		1.0		ug/L			09/06/14 18:51	1
Bromoform	ND		1.0		ug/L			09/06/14 18:51	1
Bromomethane	ND		2.0		ug/L			09/06/14 18:51	1
Carbon disulfide	ND		10		ug/L			09/06/14 18:51	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 18:51	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 18:51	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 18:51	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 18:51	1
Chloroethane	ND		2.0		ug/L			09/06/14 18:51	1
Chloroform	ND		1.0		ug/L			09/06/14 18:51	1
Chloromethane	ND		2.0		ug/L			09/06/14 18:51	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 18:51	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 18:51	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 18:51	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			09/06/14 18:51	1
Ethyl ether	ND		1.0		ug/L			09/06/14 18:51	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 18:51	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 18:51	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 18:51	1
Isopropyl ether	ND		10		ug/L			09/06/14 18:51	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 18:51	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 18:51	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 18:51	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 18:51	1
Naphthalene	ND		5.0		ug/L			09/06/14 18:51	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 18:51	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 18:51	1
o-Xylene	ND		1.0		ug/L			09/06/14 18:51	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 18:51	1
Styrene	ND		1.0		ug/L			09/06/14 18:51	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 18:51	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 18:51	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 18:51	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 18:51	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 18:51	1
Toluene	ND		1.0		ug/L			09/06/14 18:51	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 18:51	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 18:51	1
Trichloroethene	70		1.0		ug/L			09/06/14 18:51	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 18:51	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 18:51	1
Dibromomethane	ND		1.0		ug/L			09/06/14 18:51	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: DUP-003-20140904-01

Lab Sample ID: 480-66696-24

Date Collected: 09/04/14 11:11

Matrix: Water

Date Received: 09/05/14 00:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		09/06/14 18:51	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 130		09/06/14 18:51	1
4-Bromofluorobenzene (Surr)	107		70 - 130		09/06/14 18:51	1

Client Sample ID: MW-1001M-20140904-01

Lab Sample ID: 480-66696-25

Date Collected: 09/04/14 13:25

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 19:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/14 19:17	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 19:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 19:17	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/14 19:17	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/14 19:17	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 19:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 19:17	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 19:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 19:17	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 19:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 19:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 19:17	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 19:17	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 19:17	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 19:17	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 19:17	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 19:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 19:17	1
1,4-Dioxane	ND *		50		ug/L			09/06/14 19:17	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 19:17	1
2-Butanone (MEK)	ND *		10		ug/L			09/06/14 19:17	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 19:17	1
2-Hexanone	ND *		10		ug/L			09/06/14 19:17	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 19:17	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 19:17	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 19:17	1
Acetone	ND		50		ug/L			09/06/14 19:17	1
Benzene	ND		1.0		ug/L			09/06/14 19:17	1
Bromobenzene	ND		1.0		ug/L			09/06/14 19:17	1
Bromoform	ND		1.0		ug/L			09/06/14 19:17	1
Bromomethane	ND		2.0		ug/L			09/06/14 19:17	1
Carbon disulfide	ND		10		ug/L			09/06/14 19:17	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 19:17	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 19:17	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 19:17	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 19:17	1
Chloroethane	ND		2.0		ug/L			09/06/14 19:17	1
Chloroform	ND		1.0		ug/L			09/06/14 19:17	1
Chloromethane	ND		2.0		ug/L			09/06/14 19:17	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1001M-20140904-01

Lab Sample ID: 480-66696-25

Date Collected: 09/04/14 13:25

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	17		1.0		ug/L			09/06/14 19:17	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 19:17	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 19:17	1
Dichlorodifluoromethane	ND *		1.0		ug/L			09/06/14 19:17	1
Ethyl ether	ND		1.0		ug/L			09/06/14 19:17	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 19:17	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 19:17	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 19:17	1
Isopropyl ether	ND		10		ug/L			09/06/14 19:17	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 19:17	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 19:17	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 19:17	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 19:17	1
Naphthalene	ND		5.0		ug/L			09/06/14 19:17	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 19:17	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 19:17	1
o-Xylene	ND		1.0		ug/L			09/06/14 19:17	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 19:17	1
Styrene	ND		1.0		ug/L			09/06/14 19:17	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 19:17	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 19:17	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 19:17	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 19:17	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 19:17	1
Toluene	ND		1.0		ug/L			09/06/14 19:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 19:17	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 19:17	1
Trichloroethene	6.7		1.0		ug/L			09/06/14 19:17	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 19:17	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 19:17	1
Dibromomethane	ND		1.0		ug/L			09/06/14 19:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130		09/06/14 19:17	1
1,2-Dichloroethane-d4 (Surr)	87		70 - 130		09/06/14 19:17	1
4-Bromofluorobenzene (Surr)	106		70 - 130		09/06/14 19:17	1

Client Sample ID: MW-1001B-20140904-01

Lab Sample ID: 480-66696-26

Date Collected: 09/04/14 09:00

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 19:42	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/14 19:42	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 19:42	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 19:42	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/14 19:42	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/14 19:42	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 19:42	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1001B-20140904-01

Lab Sample ID: 480-66696-26

Date Collected: 09/04/14 09:00

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 19:42	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 19:42	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 19:42	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 19:42	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 19:42	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 19:42	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 19:42	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 19:42	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 19:42	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 19:42	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 19:42	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 19:42	1
1,4-Dioxane	ND	*	50		ug/L			09/06/14 19:42	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 19:42	1
2-Butanone (MEK)	ND	*	10		ug/L			09/06/14 19:42	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 19:42	1
2-Hexanone	ND	*	10		ug/L			09/06/14 19:42	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 19:42	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 19:42	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 19:42	1
Acetone	ND		50		ug/L			09/06/14 19:42	1
Benzene	ND		1.0		ug/L			09/06/14 19:42	1
Bromobenzene	ND		1.0		ug/L			09/06/14 19:42	1
Bromoform	ND		1.0		ug/L			09/06/14 19:42	1
Bromomethane	ND		2.0		ug/L			09/06/14 19:42	1
Carbon disulfide	ND		10		ug/L			09/06/14 19:42	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 19:42	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 19:42	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 19:42	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 19:42	1
Chloroethane	ND		2.0		ug/L			09/06/14 19:42	1
Chloroform	ND		1.0		ug/L			09/06/14 19:42	1
Chloromethane	ND		2.0		ug/L			09/06/14 19:42	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 19:42	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 19:42	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 19:42	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			09/06/14 19:42	1
Ethyl ether	ND		1.0		ug/L			09/06/14 19:42	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 19:42	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 19:42	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 19:42	1
Isopropyl ether	ND		10		ug/L			09/06/14 19:42	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 19:42	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 19:42	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 19:42	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 19:42	1
Naphthalene	ND		5.0		ug/L			09/06/14 19:42	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 19:42	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 19:42	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1001B-20140904-01

Lab Sample ID: 480-66696-26

Date Collected: 09/04/14 09:00

Matrix: Water

Date Received: 09/05/14 00:30

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			09/06/14 19:42	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 19:42	1
Styrene	ND		1.0		ug/L			09/06/14 19:42	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 19:42	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 19:42	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 19:42	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 19:42	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 19:42	1
Toluene	ND		1.0		ug/L			09/06/14 19:42	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 19:42	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 19:42	1
Trichloroethene	ND		1.0		ug/L			09/06/14 19:42	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 19:42	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 19:42	1
Dibromomethane	ND		1.0		ug/L			09/06/14 19:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130					09/06/14 19:42	1
1,2-Dichloroethane-d4 (Surr)	89		70 - 130					09/06/14 19:42	1
4-Bromofluorobenzene (Surr)	108		70 - 130					09/06/14 19:42	1

Client Sample ID: MW-1003-20140904-01

Lab Sample ID: 480-66696-27

Date Collected: 09/04/14 08:50

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 20:08	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/14 20:08	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 20:08	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 20:08	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/14 20:08	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/14 20:08	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 20:08	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 20:08	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 20:08	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 20:08	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 20:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 20:08	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 20:08	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 20:08	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 20:08	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 20:08	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 20:08	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 20:08	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 20:08	1
1,4-Dioxane	ND *		50		ug/L			09/06/14 20:08	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 20:08	1
2-Butanone (MEK)	ND *		10		ug/L			09/06/14 20:08	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 20:08	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1003-20140904-01

Lab Sample ID: 480-66696-27

Date Collected: 09/04/14 08:50

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	10		ug/L			09/06/14 20:08	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 20:08	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 20:08	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 20:08	1
Acetone	ND		50		ug/L			09/06/14 20:08	1
Benzene	ND		1.0		ug/L			09/06/14 20:08	1
Bromobenzene	ND		1.0		ug/L			09/06/14 20:08	1
Bromoform	ND		1.0		ug/L			09/06/14 20:08	1
Bromomethane	ND		2.0		ug/L			09/06/14 20:08	1
Carbon disulfide	ND		10		ug/L			09/06/14 20:08	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 20:08	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 20:08	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 20:08	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 20:08	1
Chloroethane	ND		2.0		ug/L			09/06/14 20:08	1
Chloroform	ND		1.0		ug/L			09/06/14 20:08	1
Chloromethane	ND		2.0		ug/L			09/06/14 20:08	1
cis-1,2-Dichloroethene	4.1		1.0		ug/L			09/06/14 20:08	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 20:08	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 20:08	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			09/06/14 20:08	1
Ethyl ether	ND		1.0		ug/L			09/06/14 20:08	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 20:08	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 20:08	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 20:08	1
Isopropyl ether	ND		10		ug/L			09/06/14 20:08	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 20:08	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 20:08	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 20:08	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 20:08	1
Naphthalene	ND		5.0		ug/L			09/06/14 20:08	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 20:08	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 20:08	1
o-Xylene	ND		1.0		ug/L			09/06/14 20:08	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 20:08	1
Styrene	ND		1.0		ug/L			09/06/14 20:08	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 20:08	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 20:08	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 20:08	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 20:08	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 20:08	1
Toluene	ND		1.0		ug/L			09/06/14 20:08	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 20:08	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 20:08	1
Trichloroethene	7.4		1.0		ug/L			09/06/14 20:08	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 20:08	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 20:08	1
Dibromomethane	ND		1.0		ug/L			09/06/14 20:08	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1003-20140904-01

Lab Sample ID: 480-66696-27

Date Collected: 09/04/14 08:50

Matrix: Water

Date Received: 09/05/14 00:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130		09/06/14 20:08	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		09/06/14 20:08	1
4-Bromofluorobenzene (Surr)	107		70 - 130		09/06/14 20:08	1

Client Sample ID: MW-1004-20140904-01

Lab Sample ID: 480-66696-28

Date Collected: 09/04/14 08:45

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 20:33	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/14 20:33	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 20:33	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 20:33	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/14 20:33	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/14 20:33	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 20:33	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 20:33	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 20:33	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 20:33	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 20:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 20:33	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 20:33	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 20:33	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 20:33	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 20:33	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 20:33	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 20:33	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 20:33	1
1,4-Dioxane	ND *		50		ug/L			09/06/14 20:33	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 20:33	1
2-Butanone (MEK)	ND *		10		ug/L			09/06/14 20:33	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 20:33	1
2-Hexanone	ND *		10		ug/L			09/06/14 20:33	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 20:33	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 20:33	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 20:33	1
Acetone	ND		50		ug/L			09/06/14 20:33	1
Benzene	ND		1.0		ug/L			09/06/14 20:33	1
Bromobenzene	ND		1.0		ug/L			09/06/14 20:33	1
Bromoform	ND		1.0		ug/L			09/06/14 20:33	1
Bromomethane	ND		2.0		ug/L			09/06/14 20:33	1
Carbon disulfide	ND		10		ug/L			09/06/14 20:33	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 20:33	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 20:33	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 20:33	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 20:33	1
Chloroethane	ND		2.0		ug/L			09/06/14 20:33	1
Chloroform	ND		1.0		ug/L			09/06/14 20:33	1
Chloromethane	ND		2.0		ug/L			09/06/14 20:33	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1004-20140904-01

Lab Sample ID: 480-66696-28

Date Collected: 09/04/14 08:45

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 20:33	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 20:33	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 20:33	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			09/06/14 20:33	1
Ethyl ether	ND		1.0		ug/L			09/06/14 20:33	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 20:33	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 20:33	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 20:33	1
Isopropyl ether	ND		10		ug/L			09/06/14 20:33	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 20:33	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 20:33	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 20:33	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 20:33	1
Naphthalene	ND		5.0		ug/L			09/06/14 20:33	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 20:33	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 20:33	1
o-Xylene	ND		1.0		ug/L			09/06/14 20:33	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 20:33	1
Styrene	ND		1.0		ug/L			09/06/14 20:33	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 20:33	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 20:33	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 20:33	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 20:33	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 20:33	1
Toluene	ND		1.0		ug/L			09/06/14 20:33	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 20:33	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 20:33	1
Trichloroethene	ND		1.0		ug/L			09/06/14 20:33	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 20:33	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 20:33	1
Dibromomethane	ND		1.0		ug/L			09/06/14 20:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130		09/06/14 20:33	1
1,2-Dichloroethane-d4 (Surr)	88		70 - 130		09/06/14 20:33	1
4-Bromofluorobenzene (Surr)	108		70 - 130		09/06/14 20:33	1

Client Sample ID: MW-1005-20140904-01

Lab Sample ID: 480-66696-29

Date Collected: 09/04/14 09:45

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 20:58	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/14 20:58	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 20:58	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 20:58	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/14 20:58	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/14 20:58	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 20:58	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1005-20140904-01

Lab Sample ID: 480-66696-29

Date Collected: 09/04/14 09:45

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 20:58	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 20:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 20:58	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 20:58	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 20:58	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 20:58	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 20:58	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 20:58	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 20:58	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 20:58	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 20:58	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 20:58	1
1,4-Dioxane	ND	*	50		ug/L			09/06/14 20:58	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 20:58	1
2-Butanone (MEK)	ND	*	10		ug/L			09/06/14 20:58	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 20:58	1
2-Hexanone	ND	*	10		ug/L			09/06/14 20:58	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 20:58	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 20:58	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 20:58	1
Acetone	ND		50		ug/L			09/06/14 20:58	1
Benzene	ND		1.0		ug/L			09/06/14 20:58	1
Bromobenzene	ND		1.0		ug/L			09/06/14 20:58	1
Bromoform	ND		1.0		ug/L			09/06/14 20:58	1
Bromomethane	ND		2.0		ug/L			09/06/14 20:58	1
Carbon disulfide	ND		10		ug/L			09/06/14 20:58	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 20:58	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 20:58	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 20:58	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 20:58	1
Chloroethane	ND		2.0		ug/L			09/06/14 20:58	1
Chloroform	ND		1.0		ug/L			09/06/14 20:58	1
Chloromethane	ND		2.0		ug/L			09/06/14 20:58	1
cis-1,2-Dichloroethene	6.4		1.0		ug/L			09/06/14 20:58	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 20:58	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 20:58	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			09/06/14 20:58	1
Ethyl ether	ND		1.0		ug/L			09/06/14 20:58	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 20:58	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 20:58	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 20:58	1
Isopropyl ether	ND		10		ug/L			09/06/14 20:58	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 20:58	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 20:58	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 20:58	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 20:58	1
Naphthalene	ND		5.0		ug/L			09/06/14 20:58	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 20:58	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 20:58	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1005-20140904-01

Lab Sample ID: 480-66696-29

Date Collected: 09/04/14 09:45

Matrix: Water

Date Received: 09/05/14 00:30

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			09/06/14 20:58	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 20:58	1
Styrene	ND		1.0		ug/L			09/06/14 20:58	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 20:58	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 20:58	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 20:58	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 20:58	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 20:58	1
Toluene	ND		1.0		ug/L			09/06/14 20:58	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 20:58	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 20:58	1
Trichloroethene	13		1.0		ug/L			09/06/14 20:58	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 20:58	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 20:58	1
Dibromomethane	ND		1.0		ug/L			09/06/14 20:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130					09/06/14 20:58	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 130					09/06/14 20:58	1
4-Bromofluorobenzene (Surr)	107		70 - 130					09/06/14 20:58	1

Client Sample ID: MW-1006-20140904-01

Lab Sample ID: 480-66696-30

Date Collected: 09/04/14 09:25

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/06/14 21:24	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/14 21:24	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 21:24	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 21:24	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/14 21:24	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/14 21:24	1
1,1-Dichloropropene	ND		1.0		ug/L			09/06/14 21:24	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/06/14 21:24	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/06/14 21:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 21:24	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 21:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/06/14 21:24	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 21:24	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 21:24	1
1,2-Dichloropropane	ND		1.0		ug/L			09/06/14 21:24	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 21:24	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/06/14 21:24	1
1,3-Dichloropropane	ND		1.0		ug/L			09/06/14 21:24	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 21:24	1
1,4-Dioxane	ND *		50		ug/L			09/06/14 21:24	1
2,2-Dichloropropane	ND		1.0		ug/L			09/06/14 21:24	1
2-Butanone (MEK)	ND *		10		ug/L			09/06/14 21:24	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 21:24	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1006-20140904-01

Lab Sample ID: 480-66696-30

Date Collected: 09/04/14 09:25

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	10		ug/L			09/06/14 21:24	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 21:24	1
4-Isopropyltoluene	ND		1.0		ug/L			09/06/14 21:24	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/06/14 21:24	1
Acetone	ND		50		ug/L			09/06/14 21:24	1
Benzene	ND		1.0		ug/L			09/06/14 21:24	1
Bromobenzene	ND		1.0		ug/L			09/06/14 21:24	1
Bromoform	ND		1.0		ug/L			09/06/14 21:24	1
Bromomethane	ND		2.0		ug/L			09/06/14 21:24	1
Carbon disulfide	ND		10		ug/L			09/06/14 21:24	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 21:24	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 21:24	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 21:24	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 21:24	1
Chloroethane	ND		2.0		ug/L			09/06/14 21:24	1
Chloroform	ND		1.0		ug/L			09/06/14 21:24	1
Chloromethane	ND		2.0		ug/L			09/06/14 21:24	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 21:24	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 21:24	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 21:24	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			09/06/14 21:24	1
Ethyl ether	ND		1.0		ug/L			09/06/14 21:24	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 21:24	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 21:24	1
Hexachlorobutadiene	ND		0.40		ug/L			09/06/14 21:24	1
Isopropyl ether	ND		10		ug/L			09/06/14 21:24	1
Isopropylbenzene	ND		1.0		ug/L			09/06/14 21:24	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 21:24	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 21:24	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/06/14 21:24	1
Naphthalene	ND		5.0		ug/L			09/06/14 21:24	1
n-Butylbenzene	ND		1.0		ug/L			09/06/14 21:24	1
N-Propylbenzene	ND		1.0		ug/L			09/06/14 21:24	1
o-Xylene	ND		1.0		ug/L			09/06/14 21:24	1
sec-Butylbenzene	ND		1.0		ug/L			09/06/14 21:24	1
Styrene	ND		1.0		ug/L			09/06/14 21:24	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 21:24	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 21:24	1
tert-Butylbenzene	ND		1.0		ug/L			09/06/14 21:24	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 21:24	1
Tetrahydrofuran	ND		10		ug/L			09/06/14 21:24	1
Toluene	ND		1.0		ug/L			09/06/14 21:24	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 21:24	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/06/14 21:24	1
Trichloroethene	1.7		1.0		ug/L			09/06/14 21:24	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 21:24	1
Vinyl chloride	ND		1.0		ug/L			09/06/14 21:24	1
Dibromomethane	ND		1.0		ug/L			09/06/14 21:24	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1006-20140904-01

Lab Sample ID: 480-66696-30

Date Collected: 09/04/14 09:25

Matrix: Water

Date Received: 09/05/14 00:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130		09/06/14 21:24	1
1,2-Dichloroethane-d4 (Surr)	90		70 - 130		09/06/14 21:24	1
4-Bromofluorobenzene (Surr)	106		70 - 130		09/06/14 21:24	1

Client Sample ID: MW-1008-20140904-01

Lab Sample ID: 480-66696-31

Date Collected: 09/04/14 09:35

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/08/14 00:51	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/08/14 00:51	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/08/14 00:51	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/08/14 00:51	1
1,1-Dichloroethane	ND		1.0		ug/L			09/08/14 00:51	1
1,1-Dichloroethene	ND		1.0		ug/L			09/08/14 00:51	1
1,1-Dichloropropene	ND		1.0		ug/L			09/08/14 00:51	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/08/14 00:51	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/08/14 00:51	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/08/14 00:51	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/08/14 00:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/08/14 00:51	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/08/14 00:51	1
1,2-Dichloroethane	ND		1.0		ug/L			09/08/14 00:51	1
1,2-Dichloropropane	ND		1.0		ug/L			09/08/14 00:51	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/08/14 00:51	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/08/14 00:51	1
1,3-Dichloropropane	ND		1.0		ug/L			09/08/14 00:51	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/08/14 00:51	1
1,4-Dioxane	ND		50		ug/L			09/08/14 00:51	1
2,2-Dichloropropane	ND		1.0		ug/L			09/08/14 00:51	1
2-Butanone (MEK)	ND	*	10		ug/L			09/08/14 00:51	1
2-Chlorotoluene	ND		1.0		ug/L			09/08/14 00:51	1
2-Hexanone	ND	*	10		ug/L			09/08/14 00:51	1
4-Chlorotoluene	ND		1.0		ug/L			09/08/14 00:51	1
4-Isopropyltoluene	ND		1.0		ug/L			09/08/14 00:51	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/08/14 00:51	1
Acetone	ND		50		ug/L			09/08/14 00:51	1
Benzene	ND		1.0		ug/L			09/08/14 00:51	1
Bromobenzene	ND		1.0		ug/L			09/08/14 00:51	1
Bromoform	ND		1.0		ug/L			09/08/14 00:51	1
Bromomethane	ND		2.0		ug/L			09/08/14 00:51	1
Carbon disulfide	ND		10		ug/L			09/08/14 00:51	1
Carbon tetrachloride	ND		1.0		ug/L			09/08/14 00:51	1
Chlorobenzene	ND		1.0		ug/L			09/08/14 00:51	1
Chlorobromomethane	ND		1.0		ug/L			09/08/14 00:51	1
Chlorodibromomethane	ND		0.50		ug/L			09/08/14 00:51	1
Chloroethane	ND		2.0		ug/L			09/08/14 00:51	1
Chloroform	ND		1.0		ug/L			09/08/14 00:51	1
Chloromethane	ND		2.0		ug/L			09/08/14 00:51	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1008-20140904-01

Lab Sample ID: 480-66696-31

Date Collected: 09/04/14 09:35

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/08/14 00:51	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/08/14 00:51	1
Dichlorobromomethane	ND		0.50		ug/L			09/08/14 00:51	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			09/08/14 00:51	1
Ethyl ether	ND		1.0		ug/L			09/08/14 00:51	1
Ethylbenzene	ND		1.0		ug/L			09/08/14 00:51	1
Ethylene Dibromide	ND		1.0		ug/L			09/08/14 00:51	1
Hexachlorobutadiene	ND		0.40		ug/L			09/08/14 00:51	1
Isopropyl ether	ND		10		ug/L			09/08/14 00:51	1
Isopropylbenzene	ND		1.0		ug/L			09/08/14 00:51	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/08/14 00:51	1
Methylene Chloride	ND		1.0		ug/L			09/08/14 00:51	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/08/14 00:51	1
Naphthalene	ND		5.0		ug/L			09/08/14 00:51	1
n-Butylbenzene	ND		1.0		ug/L			09/08/14 00:51	1
N-Propylbenzene	ND		1.0		ug/L			09/08/14 00:51	1
o-Xylene	ND		1.0		ug/L			09/08/14 00:51	1
sec-Butylbenzene	ND		1.0		ug/L			09/08/14 00:51	1
Styrene	ND		1.0		ug/L			09/08/14 00:51	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/08/14 00:51	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/08/14 00:51	1
tert-Butylbenzene	ND		1.0		ug/L			09/08/14 00:51	1
Tetrachloroethene	ND		1.0		ug/L			09/08/14 00:51	1
Tetrahydrofuran	ND		10		ug/L			09/08/14 00:51	1
Toluene	ND		1.0		ug/L			09/08/14 00:51	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/08/14 00:51	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/08/14 00:51	1
Trichloroethene	3.6		1.0		ug/L			09/08/14 00:51	1
Trichlorofluoromethane	ND		1.0		ug/L			09/08/14 00:51	1
Vinyl chloride	ND		1.0		ug/L			09/08/14 00:51	1
Dibromomethane	ND		1.0		ug/L			09/08/14 00:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130		09/08/14 00:51	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 130		09/08/14 00:51	1
4-Bromofluorobenzene (Surr)	114		70 - 130		09/08/14 00:51	1

Client Sample ID: MW-1010M-20140904-01

Lab Sample ID: 480-66696-32

Date Collected: 09/04/14 12:45

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/08/14 01:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/08/14 01:17	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/08/14 01:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/08/14 01:17	1
1,1-Dichloroethane	ND		1.0		ug/L			09/08/14 01:17	1
1,1-Dichloroethene	ND		1.0		ug/L			09/08/14 01:17	1
1,1-Dichloropropene	ND		1.0		ug/L			09/08/14 01:17	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1010M-20140904-01

Lab Sample ID: 480-66696-32

Date Collected: 09/04/14 12:45

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/08/14 01:17	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/08/14 01:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/08/14 01:17	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/08/14 01:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/08/14 01:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/08/14 01:17	1
1,2-Dichloroethane	ND		1.0		ug/L			09/08/14 01:17	1
1,2-Dichloropropane	ND		1.0		ug/L			09/08/14 01:17	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/08/14 01:17	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/08/14 01:17	1
1,3-Dichloropropane	ND		1.0		ug/L			09/08/14 01:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/08/14 01:17	1
1,4-Dioxane	ND		50		ug/L			09/08/14 01:17	1
2,2-Dichloropropane	ND		1.0		ug/L			09/08/14 01:17	1
2-Butanone (MEK)	ND	*	10		ug/L			09/08/14 01:17	1
2-Chlorotoluene	ND		1.0		ug/L			09/08/14 01:17	1
2-Hexanone	ND	*	10		ug/L			09/08/14 01:17	1
4-Chlorotoluene	ND		1.0		ug/L			09/08/14 01:17	1
4-Isopropyltoluene	ND		1.0		ug/L			09/08/14 01:17	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/08/14 01:17	1
Acetone	ND		50		ug/L			09/08/14 01:17	1
Benzene	ND		1.0		ug/L			09/08/14 01:17	1
Bromobenzene	ND		1.0		ug/L			09/08/14 01:17	1
Bromoform	ND		1.0		ug/L			09/08/14 01:17	1
Bromomethane	ND		2.0		ug/L			09/08/14 01:17	1
Carbon disulfide	ND		10		ug/L			09/08/14 01:17	1
Carbon tetrachloride	ND		1.0		ug/L			09/08/14 01:17	1
Chlorobenzene	ND		1.0		ug/L			09/08/14 01:17	1
Chlorobromomethane	ND		1.0		ug/L			09/08/14 01:17	1
Chlorodibromomethane	ND		0.50		ug/L			09/08/14 01:17	1
Chloroethane	ND		2.0		ug/L			09/08/14 01:17	1
Chloroform	ND		1.0		ug/L			09/08/14 01:17	1
Chloromethane	ND		2.0		ug/L			09/08/14 01:17	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/08/14 01:17	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/08/14 01:17	1
Dichlorobromomethane	ND		0.50		ug/L			09/08/14 01:17	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			09/08/14 01:17	1
Ethyl ether	ND		1.0		ug/L			09/08/14 01:17	1
Ethylbenzene	ND		1.0		ug/L			09/08/14 01:17	1
Ethylene Dibromide	ND		1.0		ug/L			09/08/14 01:17	1
Hexachlorobutadiene	ND		0.40		ug/L			09/08/14 01:17	1
Isopropyl ether	ND		10		ug/L			09/08/14 01:17	1
Isopropylbenzene	ND		1.0		ug/L			09/08/14 01:17	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/08/14 01:17	1
Methylene Chloride	ND		1.0		ug/L			09/08/14 01:17	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/08/14 01:17	1
Naphthalene	ND		5.0		ug/L			09/08/14 01:17	1
n-Butylbenzene	ND		1.0		ug/L			09/08/14 01:17	1
N-Propylbenzene	ND		1.0		ug/L			09/08/14 01:17	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1010M-20140904-01

Lab Sample ID: 480-66696-32

Date Collected: 09/04/14 12:45

Matrix: Water

Date Received: 09/05/14 00:30

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			09/08/14 01:17	1
sec-Butylbenzene	ND		1.0		ug/L			09/08/14 01:17	1
Styrene	ND		1.0		ug/L			09/08/14 01:17	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/08/14 01:17	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/08/14 01:17	1
tert-Butylbenzene	ND		1.0		ug/L			09/08/14 01:17	1
Tetrachloroethene	ND		1.0		ug/L			09/08/14 01:17	1
Tetrahydrofuran	ND		10		ug/L			09/08/14 01:17	1
Toluene	ND		1.0		ug/L			09/08/14 01:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/08/14 01:17	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/08/14 01:17	1
Trichloroethene	3.3		1.0		ug/L			09/08/14 01:17	1
Trichlorofluoromethane	ND		1.0		ug/L			09/08/14 01:17	1
Vinyl chloride	ND		1.0		ug/L			09/08/14 01:17	1
Dibromomethane	ND		1.0		ug/L			09/08/14 01:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	91		70 - 130					09/08/14 01:17	1
1,2-Dichloroethane-d4 (Surr)	85		70 - 130					09/08/14 01:17	1
4-Bromofluorobenzene (Surr)	112		70 - 130					09/08/14 01:17	1

Client Sample ID: MW-1010D-20140904-02

Lab Sample ID: 480-66696-33

Date Collected: 09/04/14 12:45

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/08/14 01:42	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/08/14 01:42	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/08/14 01:42	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/08/14 01:42	1
1,1-Dichloroethane	ND		1.0		ug/L			09/08/14 01:42	1
1,1-Dichloroethene	1.4		1.0		ug/L			09/08/14 01:42	1
1,1-Dichloropropene	ND		1.0		ug/L			09/08/14 01:42	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/08/14 01:42	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/08/14 01:42	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/08/14 01:42	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/08/14 01:42	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/08/14 01:42	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/08/14 01:42	1
1,2-Dichloroethane	ND		1.0		ug/L			09/08/14 01:42	1
1,2-Dichloropropane	ND		1.0		ug/L			09/08/14 01:42	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/08/14 01:42	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/08/14 01:42	1
1,3-Dichloropropane	ND		1.0		ug/L			09/08/14 01:42	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/08/14 01:42	1
1,4-Dioxane	ND		50		ug/L			09/08/14 01:42	1
2,2-Dichloropropane	ND		1.0		ug/L			09/08/14 01:42	1
2-Butanone (MEK)	ND	*	10		ug/L			09/08/14 01:42	1
2-Chlorotoluene	ND		1.0		ug/L			09/08/14 01:42	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1010D-20140904-02

Lab Sample ID: 480-66696-33

Date Collected: 09/04/14 12:45

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	10		ug/L			09/08/14 01:42	1
4-Chlorotoluene	ND		1.0		ug/L			09/08/14 01:42	1
4-Isopropyltoluene	ND		1.0		ug/L			09/08/14 01:42	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/08/14 01:42	1
Acetone	ND		50		ug/L			09/08/14 01:42	1
Benzene	ND		1.0		ug/L			09/08/14 01:42	1
Bromobenzene	ND		1.0		ug/L			09/08/14 01:42	1
Bromoform	ND		1.0		ug/L			09/08/14 01:42	1
Bromomethane	ND		2.0		ug/L			09/08/14 01:42	1
Carbon disulfide	ND		10		ug/L			09/08/14 01:42	1
Carbon tetrachloride	ND		1.0		ug/L			09/08/14 01:42	1
Chlorobenzene	ND		1.0		ug/L			09/08/14 01:42	1
Chlorobromomethane	ND		1.0		ug/L			09/08/14 01:42	1
Chlorodibromomethane	ND		0.50		ug/L			09/08/14 01:42	1
Chloroethane	ND		2.0		ug/L			09/08/14 01:42	1
Chloroform	ND		1.0		ug/L			09/08/14 01:42	1
Chloromethane	ND		2.0		ug/L			09/08/14 01:42	1
cis-1,2-Dichloroethene	8.9		1.0		ug/L			09/08/14 01:42	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/08/14 01:42	1
Dichlorobromomethane	ND		0.50		ug/L			09/08/14 01:42	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			09/08/14 01:42	1
Ethyl ether	ND		1.0		ug/L			09/08/14 01:42	1
Ethylbenzene	ND		1.0		ug/L			09/08/14 01:42	1
Ethylene Dibromide	ND		1.0		ug/L			09/08/14 01:42	1
Hexachlorobutadiene	ND		0.40		ug/L			09/08/14 01:42	1
Isopropyl ether	ND		10		ug/L			09/08/14 01:42	1
Isopropylbenzene	ND		1.0		ug/L			09/08/14 01:42	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/08/14 01:42	1
Methylene Chloride	ND		1.0		ug/L			09/08/14 01:42	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/08/14 01:42	1
Naphthalene	ND		5.0		ug/L			09/08/14 01:42	1
n-Butylbenzene	ND		1.0		ug/L			09/08/14 01:42	1
N-Propylbenzene	ND		1.0		ug/L			09/08/14 01:42	1
o-Xylene	ND		1.0		ug/L			09/08/14 01:42	1
sec-Butylbenzene	ND		1.0		ug/L			09/08/14 01:42	1
Styrene	ND		1.0		ug/L			09/08/14 01:42	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/08/14 01:42	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/08/14 01:42	1
tert-Butylbenzene	ND		1.0		ug/L			09/08/14 01:42	1
Tetrachloroethene	ND		1.0		ug/L			09/08/14 01:42	1
Tetrahydrofuran	ND		10		ug/L			09/08/14 01:42	1
Toluene	ND		1.0		ug/L			09/08/14 01:42	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/08/14 01:42	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/08/14 01:42	1
Trichloroethene	24		1.0		ug/L			09/08/14 01:42	1
Trichlorofluoromethane	ND		1.0		ug/L			09/08/14 01:42	1
Vinyl chloride	ND		1.0		ug/L			09/08/14 01:42	1
Dibromomethane	ND		1.0		ug/L			09/08/14 01:42	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1010D-20140904-02

Lab Sample ID: 480-66696-33

Date Collected: 09/04/14 12:45

Matrix: Water

Date Received: 09/05/14 00:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	89		70 - 130		09/08/14 01:42	1
1,2-Dichloroethane-d4 (Surr)	82		70 - 130		09/08/14 01:42	1
4-Bromofluorobenzene (Surr)	109		70 - 130		09/08/14 01:42	1

Client Sample ID: MW-1011-20140904-01

Lab Sample ID: 480-66696-34

Date Collected: 09/04/14 10:00

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/08/14 02:08	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/08/14 02:08	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/08/14 02:08	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/08/14 02:08	1
1,1-Dichloroethane	ND		1.0		ug/L			09/08/14 02:08	1
1,1-Dichloroethene	ND		1.0		ug/L			09/08/14 02:08	1
1,1-Dichloropropene	ND		1.0		ug/L			09/08/14 02:08	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/08/14 02:08	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/08/14 02:08	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/08/14 02:08	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/08/14 02:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/08/14 02:08	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/08/14 02:08	1
1,2-Dichloroethane	ND		1.0		ug/L			09/08/14 02:08	1
1,2-Dichloropropane	ND		1.0		ug/L			09/08/14 02:08	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/08/14 02:08	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/08/14 02:08	1
1,3-Dichloropropane	ND		1.0		ug/L			09/08/14 02:08	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/08/14 02:08	1
1,4-Dioxane	ND		50		ug/L			09/08/14 02:08	1
2,2-Dichloropropane	ND		1.0		ug/L			09/08/14 02:08	1
2-Butanone (MEK)	ND	*	10		ug/L			09/08/14 02:08	1
2-Chlorotoluene	ND		1.0		ug/L			09/08/14 02:08	1
2-Hexanone	ND	*	10		ug/L			09/08/14 02:08	1
4-Chlorotoluene	ND		1.0		ug/L			09/08/14 02:08	1
4-Isopropyltoluene	ND		1.0		ug/L			09/08/14 02:08	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/08/14 02:08	1
Acetone	ND		50		ug/L			09/08/14 02:08	1
Benzene	ND		1.0		ug/L			09/08/14 02:08	1
Bromobenzene	ND		1.0		ug/L			09/08/14 02:08	1
Bromoform	ND		1.0		ug/L			09/08/14 02:08	1
Bromomethane	ND		2.0		ug/L			09/08/14 02:08	1
Carbon disulfide	ND		10		ug/L			09/08/14 02:08	1
Carbon tetrachloride	ND		1.0		ug/L			09/08/14 02:08	1
Chlorobenzene	ND		1.0		ug/L			09/08/14 02:08	1
Chlorobromomethane	ND		1.0		ug/L			09/08/14 02:08	1
Chlorodibromomethane	ND		0.50		ug/L			09/08/14 02:08	1
Chloroethane	ND		2.0		ug/L			09/08/14 02:08	1
Chloroform	ND		1.0		ug/L			09/08/14 02:08	1
Chloromethane	ND		2.0		ug/L			09/08/14 02:08	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1011-20140904-01

Lab Sample ID: 480-66696-34

Date Collected: 09/04/14 10:00

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	8.9		1.0		ug/L			09/08/14 02:08	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/08/14 02:08	1
Dichlorobromomethane	ND		0.50		ug/L			09/08/14 02:08	1
Dichlorodifluoromethane	ND *		1.0		ug/L			09/08/14 02:08	1
Ethyl ether	ND		1.0		ug/L			09/08/14 02:08	1
Ethylbenzene	ND		1.0		ug/L			09/08/14 02:08	1
Ethylene Dibromide	ND		1.0		ug/L			09/08/14 02:08	1
Hexachlorobutadiene	ND		0.40		ug/L			09/08/14 02:08	1
Isopropyl ether	ND		10		ug/L			09/08/14 02:08	1
Isopropylbenzene	ND		1.0		ug/L			09/08/14 02:08	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/08/14 02:08	1
Methylene Chloride	ND		1.0		ug/L			09/08/14 02:08	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/08/14 02:08	1
Naphthalene	ND		5.0		ug/L			09/08/14 02:08	1
n-Butylbenzene	ND		1.0		ug/L			09/08/14 02:08	1
N-Propylbenzene	ND		1.0		ug/L			09/08/14 02:08	1
o-Xylene	ND		1.0		ug/L			09/08/14 02:08	1
sec-Butylbenzene	ND		1.0		ug/L			09/08/14 02:08	1
Styrene	ND		1.0		ug/L			09/08/14 02:08	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/08/14 02:08	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/08/14 02:08	1
tert-Butylbenzene	ND		1.0		ug/L			09/08/14 02:08	1
Tetrachloroethene	ND		1.0		ug/L			09/08/14 02:08	1
Tetrahydrofuran	ND		10		ug/L			09/08/14 02:08	1
Toluene	ND		1.0		ug/L			09/08/14 02:08	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/08/14 02:08	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/08/14 02:08	1
Trichloroethene	17		1.0		ug/L			09/08/14 02:08	1
Trichlorofluoromethane	ND		1.0		ug/L			09/08/14 02:08	1
Vinyl chloride	ND		1.0		ug/L			09/08/14 02:08	1
Dibromomethane	ND		1.0		ug/L			09/08/14 02:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130		09/08/14 02:08	1
1,2-Dichloroethane-d4 (Surr)	83		70 - 130		09/08/14 02:08	1
4-Bromofluorobenzene (Surr)	110		70 - 130		09/08/14 02:08	1

Client Sample ID: MW-1016D-20140904-01

Lab Sample ID: 480-66696-35

Date Collected: 09/04/14 13:00

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/08/14 02:33	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/08/14 02:33	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/08/14 02:33	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/08/14 02:33	1
1,1-Dichloroethane	ND		1.0		ug/L			09/08/14 02:33	1
1,1-Dichloroethene	1.8		1.0		ug/L			09/08/14 02:33	1
1,1-Dichloropropene	ND		1.0		ug/L			09/08/14 02:33	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1016D-20140904-01

Lab Sample ID: 480-66696-35

Date Collected: 09/04/14 13:00

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/08/14 02:33	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/08/14 02:33	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/08/14 02:33	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/08/14 02:33	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/08/14 02:33	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/08/14 02:33	1
1,2-Dichloroethane	ND		1.0		ug/L			09/08/14 02:33	1
1,2-Dichloropropane	ND		1.0		ug/L			09/08/14 02:33	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/08/14 02:33	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/08/14 02:33	1
1,3-Dichloropropane	ND		1.0		ug/L			09/08/14 02:33	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/08/14 02:33	1
1,4-Dioxane	ND		50		ug/L			09/08/14 02:33	1
2,2-Dichloropropane	ND		1.0		ug/L			09/08/14 02:33	1
2-Butanone (MEK)	ND	*	10		ug/L			09/08/14 02:33	1
2-Chlorotoluene	ND		1.0		ug/L			09/08/14 02:33	1
2-Hexanone	ND	*	10		ug/L			09/08/14 02:33	1
4-Chlorotoluene	ND		1.0		ug/L			09/08/14 02:33	1
4-Isopropyltoluene	ND		1.0		ug/L			09/08/14 02:33	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/08/14 02:33	1
Acetone	ND		50		ug/L			09/08/14 02:33	1
Benzene	ND		1.0		ug/L			09/08/14 02:33	1
Bromobenzene	ND		1.0		ug/L			09/08/14 02:33	1
Bromoform	ND		1.0		ug/L			09/08/14 02:33	1
Bromomethane	ND		2.0		ug/L			09/08/14 02:33	1
Carbon disulfide	ND		10		ug/L			09/08/14 02:33	1
Carbon tetrachloride	ND		1.0		ug/L			09/08/14 02:33	1
Chlorobenzene	ND		1.0		ug/L			09/08/14 02:33	1
Chlorobromomethane	ND		1.0		ug/L			09/08/14 02:33	1
Chlorodibromomethane	ND		0.50		ug/L			09/08/14 02:33	1
Chloroethane	ND		2.0		ug/L			09/08/14 02:33	1
Chloroform	ND		1.0		ug/L			09/08/14 02:33	1
Chloromethane	ND		2.0		ug/L			09/08/14 02:33	1
cis-1,2-Dichloroethene	31		1.0		ug/L			09/08/14 02:33	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/08/14 02:33	1
Dichlorobromomethane	ND		0.50		ug/L			09/08/14 02:33	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			09/08/14 02:33	1
Ethyl ether	ND		1.0		ug/L			09/08/14 02:33	1
Ethylbenzene	ND		1.0		ug/L			09/08/14 02:33	1
Ethylene Dibromide	ND		1.0		ug/L			09/08/14 02:33	1
Hexachlorobutadiene	ND		0.40		ug/L			09/08/14 02:33	1
Isopropyl ether	ND		10		ug/L			09/08/14 02:33	1
Isopropylbenzene	ND		1.0		ug/L			09/08/14 02:33	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/08/14 02:33	1
Methylene Chloride	ND		1.0		ug/L			09/08/14 02:33	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/08/14 02:33	1
Naphthalene	ND		5.0		ug/L			09/08/14 02:33	1
n-Butylbenzene	ND		1.0		ug/L			09/08/14 02:33	1
N-Propylbenzene	ND		1.0		ug/L			09/08/14 02:33	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1016D-20140904-01

Lab Sample ID: 480-66696-35

Date Collected: 09/04/14 13:00

Matrix: Water

Date Received: 09/05/14 00:30

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			09/08/14 02:33	1
sec-Butylbenzene	ND		1.0		ug/L			09/08/14 02:33	1
Styrene	ND		1.0		ug/L			09/08/14 02:33	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/08/14 02:33	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/08/14 02:33	1
tert-Butylbenzene	ND		1.0		ug/L			09/08/14 02:33	1
Tetrachloroethene	ND		1.0		ug/L			09/08/14 02:33	1
Tetrahydrofuran	ND		10		ug/L			09/08/14 02:33	1
Toluene	ND		1.0		ug/L			09/08/14 02:33	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/08/14 02:33	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/08/14 02:33	1
Trichloroethene	9.3		1.0		ug/L			09/08/14 02:33	1
Trichlorofluoromethane	ND		1.0		ug/L			09/08/14 02:33	1
Vinyl chloride	ND		1.0		ug/L			09/08/14 02:33	1
Dibromomethane	ND		1.0		ug/L			09/08/14 02:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130					09/08/14 02:33	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 130					09/08/14 02:33	1
4-Bromofluorobenzene (Surr)	110		70 - 130					09/08/14 02:33	1

Client Sample ID: MW-1009-20140904-01

Lab Sample ID: 480-66696-36

Date Collected: 09/04/14 13:15

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/08/14 02:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/08/14 02:59	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/08/14 02:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/08/14 02:59	1
1,1-Dichloroethane	ND		1.0		ug/L			09/08/14 02:59	1
1,1-Dichloroethene	ND		1.0		ug/L			09/08/14 02:59	1
1,1-Dichloropropene	ND		1.0		ug/L			09/08/14 02:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/08/14 02:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/08/14 02:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/08/14 02:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/08/14 02:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/08/14 02:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/08/14 02:59	1
1,2-Dichloroethane	ND		1.0		ug/L			09/08/14 02:59	1
1,2-Dichloropropane	ND		1.0		ug/L			09/08/14 02:59	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/08/14 02:59	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/08/14 02:59	1
1,3-Dichloropropane	ND		1.0		ug/L			09/08/14 02:59	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/08/14 02:59	1
1,4-Dioxane	ND		50		ug/L			09/08/14 02:59	1
2,2-Dichloropropane	ND		1.0		ug/L			09/08/14 02:59	1
2-Butanone (MEK)	ND	*	10		ug/L			09/08/14 02:59	1
2-Chlorotoluene	ND		1.0		ug/L			09/08/14 02:59	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1009-20140904-01

Lab Sample ID: 480-66696-36

Date Collected: 09/04/14 13:15

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND	*	10		ug/L			09/08/14 02:59	1
4-Chlorotoluene	ND		1.0		ug/L			09/08/14 02:59	1
4-Isopropyltoluene	ND		1.0		ug/L			09/08/14 02:59	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/08/14 02:59	1
Acetone	ND		50		ug/L			09/08/14 02:59	1
Benzene	ND		1.0		ug/L			09/08/14 02:59	1
Bromobenzene	ND		1.0		ug/L			09/08/14 02:59	1
Bromoform	ND		1.0		ug/L			09/08/14 02:59	1
Bromomethane	ND		2.0		ug/L			09/08/14 02:59	1
Carbon disulfide	ND		10		ug/L			09/08/14 02:59	1
Carbon tetrachloride	ND		1.0		ug/L			09/08/14 02:59	1
Chlorobenzene	ND		1.0		ug/L			09/08/14 02:59	1
Chlorobromomethane	ND		1.0		ug/L			09/08/14 02:59	1
Chlorodibromomethane	ND		0.50		ug/L			09/08/14 02:59	1
Chloroethane	ND		2.0		ug/L			09/08/14 02:59	1
Chloroform	ND		1.0		ug/L			09/08/14 02:59	1
Chloromethane	ND		2.0		ug/L			09/08/14 02:59	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/08/14 02:59	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/08/14 02:59	1
Dichlorobromomethane	ND		0.50		ug/L			09/08/14 02:59	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			09/08/14 02:59	1
Ethyl ether	ND		1.0		ug/L			09/08/14 02:59	1
Ethylbenzene	ND		1.0		ug/L			09/08/14 02:59	1
Ethylene Dibromide	ND		1.0		ug/L			09/08/14 02:59	1
Hexachlorobutadiene	ND		0.40		ug/L			09/08/14 02:59	1
Isopropyl ether	ND		10		ug/L			09/08/14 02:59	1
Isopropylbenzene	ND		1.0		ug/L			09/08/14 02:59	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/08/14 02:59	1
Methylene Chloride	ND		1.0		ug/L			09/08/14 02:59	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/08/14 02:59	1
Naphthalene	ND		5.0		ug/L			09/08/14 02:59	1
n-Butylbenzene	ND		1.0		ug/L			09/08/14 02:59	1
N-Propylbenzene	ND		1.0		ug/L			09/08/14 02:59	1
o-Xylene	ND		1.0		ug/L			09/08/14 02:59	1
sec-Butylbenzene	ND		1.0		ug/L			09/08/14 02:59	1
Styrene	ND		1.0		ug/L			09/08/14 02:59	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/08/14 02:59	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/08/14 02:59	1
tert-Butylbenzene	ND		1.0		ug/L			09/08/14 02:59	1
Tetrachloroethene	ND		1.0		ug/L			09/08/14 02:59	1
Tetrahydrofuran	ND		10		ug/L			09/08/14 02:59	1
Toluene	ND		1.0		ug/L			09/08/14 02:59	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/08/14 02:59	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/08/14 02:59	1
Trichloroethene	1.1		1.0		ug/L			09/08/14 02:59	1
Trichlorofluoromethane	2.5		1.0		ug/L			09/08/14 02:59	1
Vinyl chloride	ND		1.0		ug/L			09/08/14 02:59	1
Dibromomethane	ND		1.0		ug/L			09/08/14 02:59	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1009-20140904-01

Lab Sample ID: 480-66696-36

Date Collected: 09/04/14 13:15

Matrix: Water

Date Received: 09/05/14 00:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	90		70 - 130		09/08/14 02:59	1
1,2-Dichloroethane-d4 (Surr)	84		70 - 130		09/08/14 02:59	1
4-Bromofluorobenzene (Surr)	107		70 - 130		09/08/14 02:59	1

Client Sample ID: DUP-001-20140904-01

Lab Sample ID: 480-66696-37

Date Collected: 09/04/14 11:11

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/08/14 03:25	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/08/14 03:25	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/08/14 03:25	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/08/14 03:25	1
1,1-Dichloroethane	ND		1.0		ug/L			09/08/14 03:25	1
1,1-Dichloroethene	ND		1.0		ug/L			09/08/14 03:25	1
1,1-Dichloropropene	ND		1.0		ug/L			09/08/14 03:25	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/08/14 03:25	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/08/14 03:25	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/08/14 03:25	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/08/14 03:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/08/14 03:25	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/08/14 03:25	1
1,2-Dichloroethane	ND		1.0		ug/L			09/08/14 03:25	1
1,2-Dichloropropane	ND		1.0		ug/L			09/08/14 03:25	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/08/14 03:25	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/08/14 03:25	1
1,3-Dichloropropane	ND		1.0		ug/L			09/08/14 03:25	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/08/14 03:25	1
1,4-Dioxane	ND		50		ug/L			09/08/14 03:25	1
2,2-Dichloropropane	ND		1.0		ug/L			09/08/14 03:25	1
2-Butanone (MEK)	ND	*	10		ug/L			09/08/14 03:25	1
2-Chlorotoluene	ND		1.0		ug/L			09/08/14 03:25	1
2-Hexanone	ND	*	10		ug/L			09/08/14 03:25	1
4-Chlorotoluene	ND		1.0		ug/L			09/08/14 03:25	1
4-Isopropyltoluene	ND		1.0		ug/L			09/08/14 03:25	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/08/14 03:25	1
Acetone	ND		50		ug/L			09/08/14 03:25	1
Benzene	ND		1.0		ug/L			09/08/14 03:25	1
Bromobenzene	ND		1.0		ug/L			09/08/14 03:25	1
Bromoform	ND		1.0		ug/L			09/08/14 03:25	1
Bromomethane	ND		2.0		ug/L			09/08/14 03:25	1
Carbon disulfide	ND		10		ug/L			09/08/14 03:25	1
Carbon tetrachloride	ND		1.0		ug/L			09/08/14 03:25	1
Chlorobenzene	ND		1.0		ug/L			09/08/14 03:25	1
Chlorobromomethane	ND		1.0		ug/L			09/08/14 03:25	1
Chlorodibromomethane	ND		0.50		ug/L			09/08/14 03:25	1
Chloroethane	ND		2.0		ug/L			09/08/14 03:25	1
Chloroform	ND		1.0		ug/L			09/08/14 03:25	1
Chloromethane	ND		2.0		ug/L			09/08/14 03:25	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: DUP-001-20140904-01

Lab Sample ID: 480-66696-37

Date Collected: 09/04/14 11:11

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	6.6		1.0		ug/L			09/08/14 03:25	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/08/14 03:25	1
Dichlorobromomethane	ND		0.50		ug/L			09/08/14 03:25	1
Dichlorodifluoromethane	ND *		1.0		ug/L			09/08/14 03:25	1
Ethyl ether	ND		1.0		ug/L			09/08/14 03:25	1
Ethylbenzene	ND		1.0		ug/L			09/08/14 03:25	1
Ethylene Dibromide	ND		1.0		ug/L			09/08/14 03:25	1
Hexachlorobutadiene	ND		0.40		ug/L			09/08/14 03:25	1
Isopropyl ether	ND		10		ug/L			09/08/14 03:25	1
Isopropylbenzene	ND		1.0		ug/L			09/08/14 03:25	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/08/14 03:25	1
Methylene Chloride	ND		1.0		ug/L			09/08/14 03:25	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/08/14 03:25	1
Naphthalene	ND		5.0		ug/L			09/08/14 03:25	1
n-Butylbenzene	ND		1.0		ug/L			09/08/14 03:25	1
N-Propylbenzene	ND		1.0		ug/L			09/08/14 03:25	1
o-Xylene	ND		1.0		ug/L			09/08/14 03:25	1
sec-Butylbenzene	ND		1.0		ug/L			09/08/14 03:25	1
Styrene	ND		1.0		ug/L			09/08/14 03:25	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/08/14 03:25	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/08/14 03:25	1
tert-Butylbenzene	ND		1.0		ug/L			09/08/14 03:25	1
Tetrachloroethene	ND		1.0		ug/L			09/08/14 03:25	1
Tetrahydrofuran	ND		10		ug/L			09/08/14 03:25	1
Toluene	ND		1.0		ug/L			09/08/14 03:25	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/08/14 03:25	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/08/14 03:25	1
Trichloroethene	13		1.0		ug/L			09/08/14 03:25	1
Trichlorofluoromethane	ND		1.0		ug/L			09/08/14 03:25	1
Vinyl chloride	ND		1.0		ug/L			09/08/14 03:25	1
Dibromomethane	ND		1.0		ug/L			09/08/14 03:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	90		70 - 130					09/08/14 03:25	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	86		70 - 130					09/08/14 03:25	1
<i>4-Bromofluorobenzene (Surr)</i>	108		70 - 130					09/08/14 03:25	1

Client Sample ID: DUP-002-20140904-01

Lab Sample ID: 480-66696-38

Date Collected: 09/04/14 12:12

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			09/08/14 03:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/08/14 03:50	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/08/14 03:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/08/14 03:50	1
1,1-Dichloroethane	ND		1.0		ug/L			09/08/14 03:50	1
1,1-Dichloroethene	1.7		1.0		ug/L			09/08/14 03:50	1
1,1-Dichloropropene	ND		1.0		ug/L			09/08/14 03:50	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: DUP-002-20140904-01

Lab Sample ID: 480-66696-38

Date Collected: 09/04/14 12:12

Matrix: Water

Date Received: 09/05/14 00:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			09/08/14 03:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			09/08/14 03:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/08/14 03:50	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/08/14 03:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			09/08/14 03:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/08/14 03:50	1
1,2-Dichloroethane	ND		1.0		ug/L			09/08/14 03:50	1
1,2-Dichloropropane	ND		1.0		ug/L			09/08/14 03:50	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			09/08/14 03:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			09/08/14 03:50	1
1,3-Dichloropropane	ND		1.0		ug/L			09/08/14 03:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/08/14 03:50	1
1,4-Dioxane	ND		50		ug/L			09/08/14 03:50	1
2,2-Dichloropropane	ND		1.0		ug/L			09/08/14 03:50	1
2-Butanone (MEK)	ND	*	10		ug/L			09/08/14 03:50	1
2-Chlorotoluene	ND		1.0		ug/L			09/08/14 03:50	1
2-Hexanone	ND	*	10		ug/L			09/08/14 03:50	1
4-Chlorotoluene	ND		1.0		ug/L			09/08/14 03:50	1
4-Isopropyltoluene	ND		1.0		ug/L			09/08/14 03:50	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			09/08/14 03:50	1
Acetone	ND		50		ug/L			09/08/14 03:50	1
Benzene	ND		1.0		ug/L			09/08/14 03:50	1
Bromobenzene	ND		1.0		ug/L			09/08/14 03:50	1
Bromoform	ND		1.0		ug/L			09/08/14 03:50	1
Bromomethane	ND		2.0		ug/L			09/08/14 03:50	1
Carbon disulfide	ND		10		ug/L			09/08/14 03:50	1
Carbon tetrachloride	ND		1.0		ug/L			09/08/14 03:50	1
Chlorobenzene	ND		1.0		ug/L			09/08/14 03:50	1
Chlorobromomethane	ND		1.0		ug/L			09/08/14 03:50	1
Chlorodibromomethane	ND		0.50		ug/L			09/08/14 03:50	1
Chloroethane	ND		2.0		ug/L			09/08/14 03:50	1
Chloroform	ND		1.0		ug/L			09/08/14 03:50	1
Chloromethane	ND		2.0		ug/L			09/08/14 03:50	1
cis-1,2-Dichloroethene	31		1.0		ug/L			09/08/14 03:50	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			09/08/14 03:50	1
Dichlorobromomethane	ND		0.50		ug/L			09/08/14 03:50	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			09/08/14 03:50	1
Ethyl ether	ND		1.0		ug/L			09/08/14 03:50	1
Ethylbenzene	ND		1.0		ug/L			09/08/14 03:50	1
Ethylene Dibromide	ND		1.0		ug/L			09/08/14 03:50	1
Hexachlorobutadiene	ND		0.40		ug/L			09/08/14 03:50	1
Isopropyl ether	ND		10		ug/L			09/08/14 03:50	1
Isopropylbenzene	ND		1.0		ug/L			09/08/14 03:50	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/08/14 03:50	1
Methylene Chloride	ND		1.0		ug/L			09/08/14 03:50	1
m-Xylene & p-Xylene	ND		2.0		ug/L			09/08/14 03:50	1
Naphthalene	ND		5.0		ug/L			09/08/14 03:50	1
n-Butylbenzene	ND		1.0		ug/L			09/08/14 03:50	1
N-Propylbenzene	ND		1.0		ug/L			09/08/14 03:50	1

TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: DUP-002-20140904-01

Lab Sample ID: 480-66696-38

Date Collected: 09/04/14 12:12

Matrix: Water

Date Received: 09/05/14 00:30

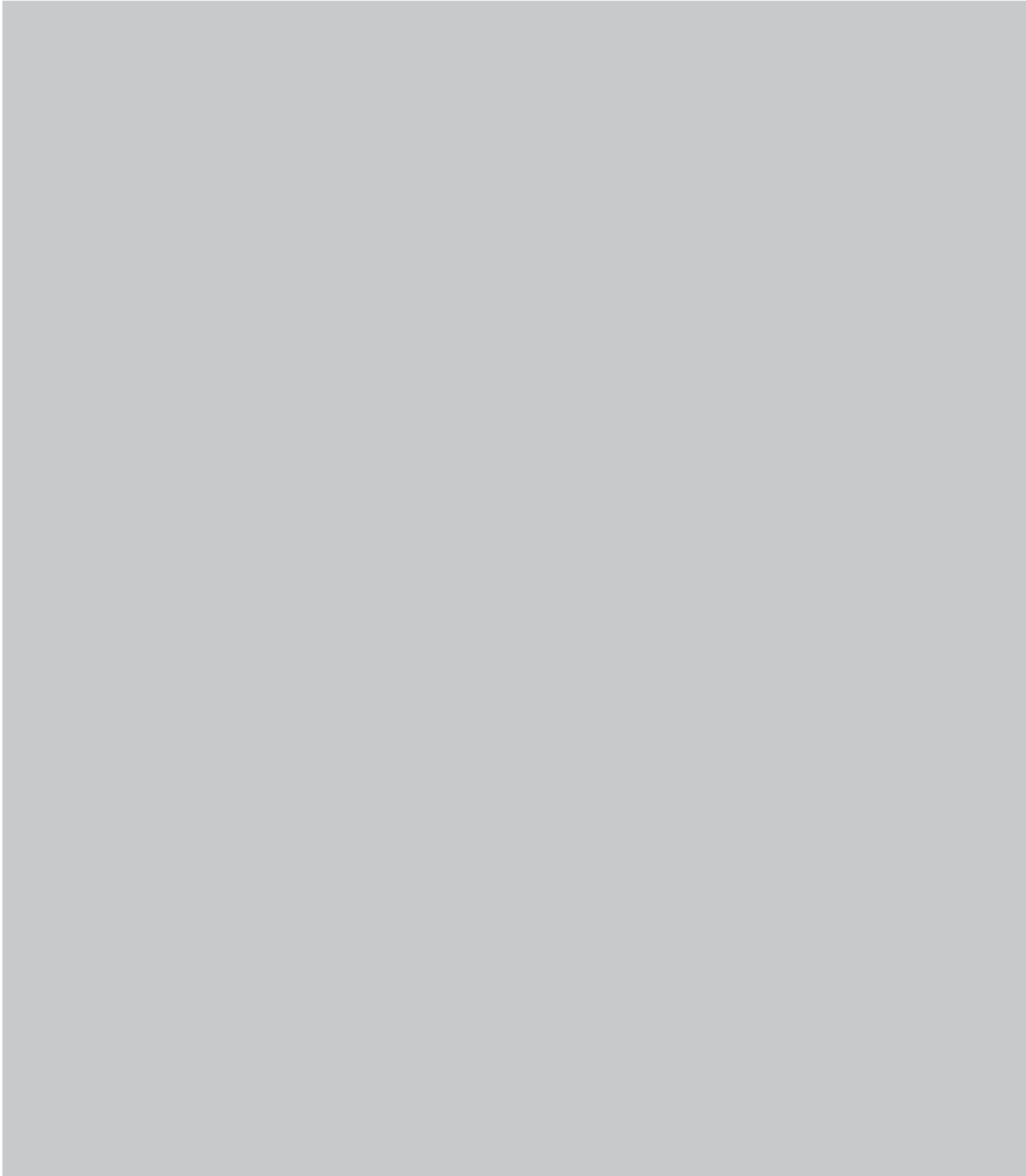
Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			09/08/14 03:50	1
sec-Butylbenzene	ND		1.0		ug/L			09/08/14 03:50	1
Styrene	ND		1.0		ug/L			09/08/14 03:50	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/08/14 03:50	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/08/14 03:50	1
tert-Butylbenzene	ND		1.0		ug/L			09/08/14 03:50	1
Tetrachloroethene	ND		1.0		ug/L			09/08/14 03:50	1
Tetrahydrofuran	ND		10		ug/L			09/08/14 03:50	1
Toluene	ND		1.0		ug/L			09/08/14 03:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/08/14 03:50	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			09/08/14 03:50	1
Trichloroethene	8.7		1.0		ug/L			09/08/14 03:50	1
Trichlorofluoromethane	ND		1.0		ug/L			09/08/14 03:50	1
Vinyl chloride	ND		1.0		ug/L			09/08/14 03:50	1
Dibromomethane	ND		1.0		ug/L			09/08/14 03:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		70 - 130					09/08/14 03:50	1
1,2-Dichloroethane-d4 (Surr)	86		70 - 130					09/08/14 03:50	1
4-Bromofluorobenzene (Surr)	111		70 - 130					09/08/14 03:50	1

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

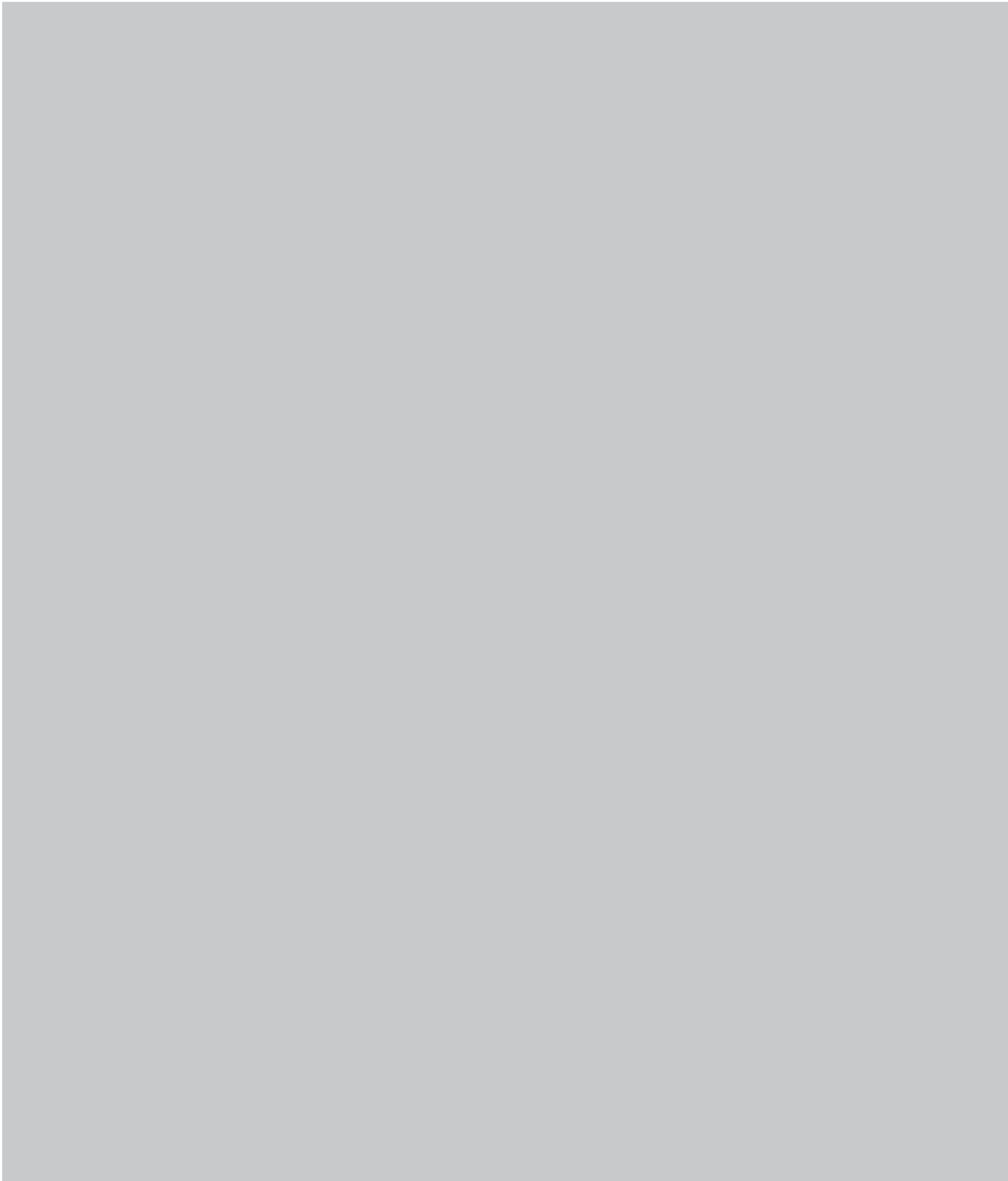


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Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

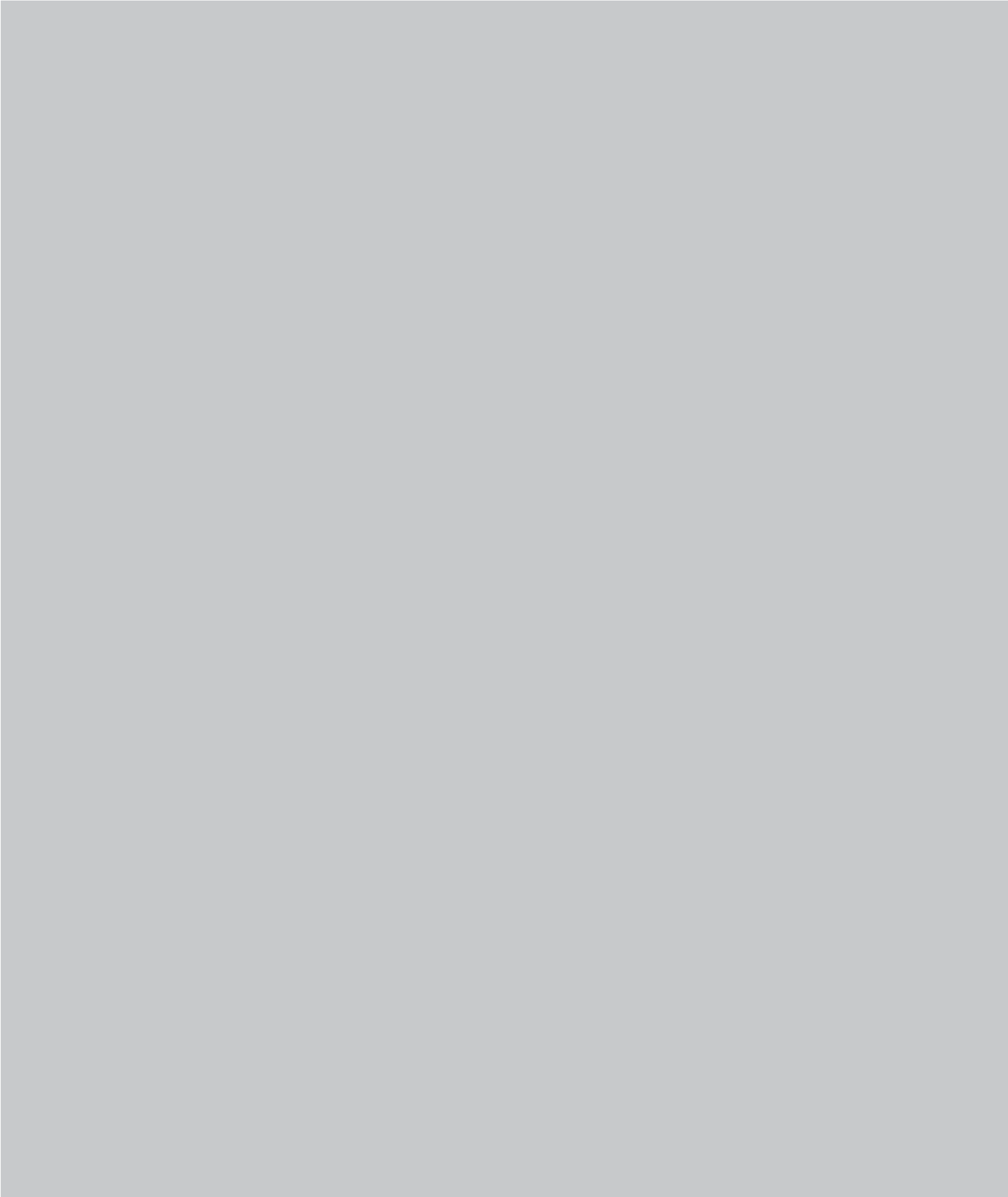


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Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1



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TestAmerica Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1



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Surrogate Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (70-130)	12DCE (70-130)	BFB (70-130)
480-66696-1	TB-001-20140904-01	120	119	130
480-66696-2	MW-217D-20140904-01	102	97	98
480-66696-3	MW-217M-20140904-01	102	102	101
480-66696-4	MW-217S-20140904-01	107	94	97
480-66696-5	MW-1024D-20140904-01	103	100	94
480-66696-6	MW-1025M-20140904-01	92	87	108
480-66696-7	MW-1025D-20140904-01	95	90	111
480-66696-8	MW-1019B-20140904-01	91	90	109
480-66696-9	MW-1020-20140904-01	93	90	110
480-66696-10	MW-1018-20140904-01	93	83	112
480-66696-11	MW-1017D-20140904-01	95	87	110
480-66696-11 - DL	MW-1017D-20140904-01	92	85	109
480-66696-12	MW-1015D-20140904-01	93	92	109
480-66696-13	MW-1033-20140904-01	91	90	105
480-66696-14	MW-1027-20140904-01	92	89	104
480-66696-15	MW-1028-20140904-01	93	90	107
480-66696-16	MW-1030-20140904-01	93	91	108
480-66696-17	MW-1031-20140904-01	93	88	108
480-66696-18	MW-1032-20140904-01	93	88	110
480-66696-19	MW-1022-20140904-01	91	86	110
480-66696-20	MW-1023-20140904-01	93	88	109
480-66696-21	MW-1013-20140904-01	93	87	109
480-66696-22	MW-1034-20140904-01	93	88	111
480-66696-23	DUP-004-20140904-01	93	89	108
480-66696-24	DUP-003-20140904-01	91	85	107
480-66696-25	MW-1001M-20140904-01	92	87	106
480-66696-26	MW-1001B-20140904-01	92	89	108
480-66696-27	MW-1003-20140904-01	92	90	107
480-66696-28	MW-1004-20140904-01	92	88	108
480-66696-29	MW-1005-20140904-01	91	90	107
480-66696-30	MW-1006-20140904-01	91	90	106
480-66696-31	MW-1008-20140904-01	92	84	114
480-66696-32	MW-1010M-20140904-01	91	85	112
480-66696-33	MW-1010D-20140904-02	89	82	109
480-66696-34	MW-1011-20140904-01	92	83	110
480-66696-35	MW-1016D-20140904-01	92	84	110
480-66696-36	MW-1009-20140904-01	90	84	107
480-66696-37	DUP-001-20140904-01	90	86	108
480-66696-38	DUP-002-20140904-01	92	86	111
480-66696-39	SEN-3-20140904-01	91	87	113
480-66696-40	SEN-2M-20140904-01	91	87	110
480-66696-41	SEN-2D-20140904-01	90	88	108
LCS 480-200987/4	Lab Control Sample	103	97	93
LCS 480-201080/5	Lab Control Sample	95	96	113
LCS 480-201129/5	Lab Control Sample	94	82	114
LCS 480-201180/5	Lab Control Sample	94	88	116
LCSD 480-200987/5	Lab Control Sample Dup	95	97	92
LCSD 480-201080/6	Lab Control Sample Dup	94	95	115
LCSD 480-201129/6	Lab Control Sample Dup	95	93	114

TestAmerica Buffalo

Surrogate Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (70-130)	12DCE (70-130)	BFB (70-130)
LCSD 480-201180/6	Lab Control Sample Dup	94	88	117
MB 480-200987/7	Method Blank	103	98	102
MB 480-201080/8	Method Blank	93	88	108
MB 480-201129/8	Method Blank	93	87	111
MB 480-201180/8	Method Blank	92	83	111

Surrogate Legend

TOL = Toluene-d8 (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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

Lab Sample ID: MB 480-200987/7

Matrix: Water

Analysis Batch: 200987

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			09/05/14 12:p1	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/05/14 12:p1	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/05/14 12:p1	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/05/14 12:p1	1
1,1-Dichloroethane	ND		1.0		ug/L			09/05/14 12:p1	1
1,1-Dichloroethene	ND		1.0		ug/L			09/05/14 12:p1	1
1,1-Dichloro3ro3ene	ND		1.0		ug/L			09/05/14 12:p1	1
1,2,p-Trichlorobenzene	ND		1.0		ug/L			09/05/14 12:p1	1
1,2,p-Trichloro3ro3ane	ND		1.0		ug/L			09/05/14 12:p1	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/05/14 12:p1	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/05/14 12:p1	1
1,2-Dibromo-p-Chloro3ro3ane	ND		5.0		ug/L			09/05/14 12:p1	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/05/14 12:p1	1
1,2-Dichloroethane	ND		1.0		ug/L			09/05/14 12:p1	1
1,2-Dichloro3ro3ane	ND		1.0		ug/L			09/05/14 12:p1	1
1,p,5-Trimethylbenzene	ND		1.0		ug/L			09/05/14 12:p1	1
1,p-Dichlorobenzene	ND		1.0		ug/L			09/05/14 12:p1	1
1,p-Dichloro3ro3ane	ND		1.0		ug/L			09/05/14 12:p1	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/05/14 12:p1	1
1,4-Dioxane	ND		50		ug/L			09/05/14 12:p1	1
2,2-Dichloro3ro3ane	ND		1.0		ug/L			09/05/14 12:p1	1
2-* utanone BME(K	ND		10		ug/L			09/05/14 12:p1	1
2-Chlorotoluene	ND		1.0		ug/L			09/05/14 12:p1	1
2-) exanone	ND		10		ug/L			09/05/14 12:p1	1
4-Chlorotoluene	ND		1.0		ug/L			09/05/14 12:p1	1
4-Iso3ro3yltoluene	ND		1.0		ug/L			09/05/14 12:p1	1
4-Methyl-2-3entanone BMI* (K	ND		10		ug/L			09/05/14 12:p1	1
Acetone	ND		50		ug/L			09/05/14 12:p1	1
* enzene	ND		1.0		ug/L			09/05/14 12:p1	1
* romobenzene	ND		1.0		ug/L			09/05/14 12:p1	1
* romoform	ND		1.0		ug/L			09/05/14 12:p1	1
* romomethane	ND		2.0		ug/L			09/05/14 12:p1	1
Carbon disulfide	ND		10		ug/L			09/05/14 12:p1	1
Carbon tetrachloride	ND		1.0		ug/L			09/05/14 12:p1	1
Chlorobenzene	ND		1.0		ug/L			09/05/14 12:p1	1
Chlorobromomethane	ND		1.0		ug/L			09/05/14 12:p1	1
Chlorodibromomethane	ND		0.50		ug/L			09/05/14 12:p1	1
Chloroethane	ND		2.0		ug/L			09/05/14 12:p1	1
Chloroform	ND		1.0		ug/L			09/05/14 12:p1	1
Chloromethane	ND		2.0		ug/L			09/05/14 12:p1	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/05/14 12:p1	1
cis-1,p-Dichloro3ro3ene	ND		0.40		ug/L			09/05/14 12:p1	1
Dichlorobromomethane	ND		0.50		ug/L			09/05/14 12:p1	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/05/14 12:p1	1
Ethyl ether	ND		1.0		ug/L			09/05/14 12:p1	1
Ethylbenzene	ND		1.0		ug/L			09/05/14 12:p1	1
Ethylene Dibromide	ND		1.0		ug/L			09/05/14 12:p1	1
) exachlorobutadiene	ND		0.40		ug/L			09/05/14 12:p1	1

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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

Lab Sample ID: MB 480-200987/7

Matrix: Water

Analysis Batch: 200987

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iso3ro3yl ether	ND		10		ug/L			09/05/14 12:p1	1
Iso3ro3ylbenzene	ND		1.0		ug/L			09/05/14 12:p1	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/05/14 12:p1	1
Methylene Chloride	ND		1.0		ug/L			09/05/14 12:p1	1
m-f ylene X 3-f ylene	ND		2.0		ug/L			09/05/14 12:p1	1
Na3hthalene	ND		5.0		ug/L			09/05/14 12:p1	1
n-* utylbenzene	ND		1.0		ug/L			09/05/14 12:p1	1
N-Pro3ylbenzene	ND		1.0		ug/L			09/05/14 12:p1	1
o-f ylene	ND		1.0		ug/L			09/05/14 12:p1	1
sec-* utylbenzene	ND		1.0		ug/L			09/05/14 12:p1	1
Styrene	ND		1.0		ug/L			09/05/14 12:p1	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/05/14 12:p1	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/05/14 12:p1	1
tert-* utylbenzene	ND		1.0		ug/L			09/05/14 12:p1	1
Tetrachloroethene	ND		1.0		ug/L			09/05/14 12:p1	1
Tetrahydrothran	ND		10		ug/L			09/05/14 12:p1	1
Toluene	ND		1.0		ug/L			09/05/14 12:p1	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/05/14 12:p1	1
trans-1,p-Dichloro3ro3ene	ND		0.40		ug/L			09/05/14 12:p1	1
Trichloroethene	ND		1.0		ug/L			09/05/14 12:p1	1
Trichlorofluoromethane	ND		1.0		ug/L			09/05/14 12:p1	1
&inyl chloride	ND		1.0		ug/L			09/05/14 12:p1	1
Dibromomethane	ND		1.0		ug/L			09/05/14 12:p1	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	120		72 - 102		23 9 / 9/5 14 0 1	1
1:4-, Dchloroelct ne-d5 (Surr)	38		72 - 102		23 9 / 9/5 14 0 1	1
5-aroB ortuorof enbene (Surr)	124		72 - 102		23 9 / 9/5 14 0 1	1

Lab Sample ID: LCS 480-200987/4

Matrix: Water

Analysis Batch: 200987

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	25.2		ug/L		101	V0 - 1p0
1,1,1-Trichloroethane	25.0	25.8		ug/L		10p	V0 - 1p0
1,1,2,2-Tetrachloroethane	25.0	25.6		ug/L		102	V0 - 1p0
1,1,2-Trichloroethane	25.0	2p.p		ug/L		9p	V0 - 1p0
1,1-Dichloroethane	25.0	24.1		ug/L		96	V0 - 1p0
1,1-Dichloroethene	25.0	26.0		ug/L		104	V0 - 1p0
1,1-Dichloro3ro3ene	25.0	25.6		ug/L		102	V0 - 1p0
1,2,p-Trichlorobenzene	25.0	29.1		ug/L		116	V0 - 1p0
1,2,p-Trichloro3ro3ane	25.0	25.p		ug/L		101	V0 - 1p0
1,2,4-Trichlorobenzene	25.0	28.8		ug/L		115	V0 - 1p0
1,2,4-Trimethylbenzene	25.0	26.2		ug/L		105	V0 - 1p0
1,2-Dibromo-p-Chloro3ro3ane	25.0	29.2		ug/L		11V	V0 - 1p0
1,2-Dichlorobenzene	25.0	28.0		ug/L		112	V0 - 1p0
1,2-Dichloroethane	25.0	24.V		ug/L		99	V0 - 1p0

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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

Lab Sample ID: LCS 480-200987/4

Matrix: Water

Analysis Batch: 200987

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloro3ro3ane	25.0	25.9		ug/L		104	V0 - 1p0
1,p,5-Trimethylbenzene	25.0	26.6		ug/L		106	V0 - 1p0
1,p-Dichlorobenzene	25.0	26.1		ug/L		104	V0 - 1p0
1,p-Dichloro3ro3ane	25.0	24.2		ug/L		9V	V0 - 1p0
1,4-Dichlorobenzene	25.0	26.6		ug/L		106	V0 - 1p0
1,4-Dioxane	500	V24	7	ug/L		145	V0 - 1p0
2,2-Dichloro3ro3ane	25.0	25.4		ug/L		102	V0 - 1p0
2-* utanone BME(K	125	1p1		ug/L		105	V0 - 1p0
2-Chlorotoluene	25.0	25.V		ug/L		10p	V0 - 1p0
2-) exanone	125	108		ug/L		86	V0 - 1p0
4-Chlorotoluene	25.0	2p.8		ug/L		95	V0 - 1p0
4-Iso3ro3yltoluene	25.0	2V.4		ug/L		109	V0 - 1p0
4-Methyl-2-3entanone BMI* (K	125	112		ug/L		89	V0 - 1p0
Acetone	125	140		ug/L		112	V0 - 1p0
* enzene	25.0	25.V		ug/L		10p	V0 - 1p0
* romobenzene	25.0	25.1		ug/L		100	V0 - 1p0
* romolorm	25.0	26.5		ug/L		106	V0 - 1p0
* romomethane	25.0	18.2		ug/L		Vp	V0 - 1p0
Carbon disulfide	25.0	25.4		ug/L		101	V0 - 1p0
Carbon tetrachloride	25.0	25.8		ug/L		10p	V0 - 1p0
Chlorobenzene	25.0	25.6		ug/L		102	V0 - 1p0
Chlorobromomethane	25.0	25.6		ug/L		102	V0 - 1p0
Chlorodibromomethane	25.0	25.8		ug/L		10p	V0 - 1p0
Chloroethane	25.0	19.4		ug/L		VV	V0 - 1p0
Chlorolorm	25.0	24.9		ug/L		100	V0 - 1p0
Chloromethane	25.0	2p.9		ug/L		96	V0 - 1p0
cis-1,2-Dichloroethene	25.0	26.1		ug/L		104	V0 - 1p0
cis-1,p-Dichloro3ro3ene	25.0	28.2		ug/L		11p	V0 - 1p0
Dichlorobromomethane	25.0	25.V		ug/L		10p	V0 - 1p0
Dichlorodifluoromethane	25.0	22.8		ug/L		91	V0 - 1p0
Ethyl ether	25.0	2p.1		ug/L		92	V0 - 1p0
Ethylbenzene	25.0	25.6		ug/L		102	V0 - 1p0
Ethylene Dibromide	25.0	25.6		ug/L		102	V0 - 1p0
) exachlorobutadiene	25.0	26.5		ug/L		106	V0 - 1p0
Iso3ro3yl ether	25.0	22.9		ug/L		92	V0 - 1p0
Iso3ro3ylbenzene	25.0	2V.8		ug/L		111	V0 - 1p0
Methyl tert-butyl ether	25.0	2p.1		ug/L		92	V0 - 1p0
Methylene Chloride	25.0	25.5		ug/L		102	V0 - 1p0
m-f ylene X 3-f ylene	25.0	25.6		ug/L		102	V0 - 1p0
Na3hthalene	25.0	2V.p		ug/L		109	V0 - 1p0
n-* utylbenzene	25.0	28.V		ug/L		115	V0 - 1p0
N-Pro3ylbenzene	25.0	26.2		ug/L		105	V0 - 1p0
o-f ylene	25.0	26.0		ug/L		104	V0 - 1p0
sec-* utylbenzene	25.0	26.p		ug/L		105	V0 - 1p0
Styrene	25.0	26.2		ug/L		105	V0 - 1p0
Tert-amyl methyl ether	25.0	28.9		ug/L		116	V0 - 1p0
Tert-butyl ethyl ether	25.0	24.9		ug/L		100	V0 - 1p0
tert-* utylbenzene	25.0	26.2		ug/L		105	V0 - 1p0

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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

Lab Sample ID: LCS 480-200987/4

Matrix: Water

Analysis Batch: 200987

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	24.6		ug/L		98	V0 - 1p0
Tetrahydrofuran	50.0	6p.2		ug/L		126	V0 - 1p0
Toluene	25.0	26.4		ug/L		106	V0 - 1p0
trans-1,2-Dichloroethene	25.0	2p.V		ug/L		95	V0 - 1p0
trans-1,p-Dichloro3ro3ene	25.0	28.0		ug/L		112	V0 - 1p0
Trichloroethene	25.0	2V.0		ug/L		108	V0 - 1p0
Trichlorofluoromethane	25.0	24.0		ug/L		96	V0 - 1p0
Vinyl chloride	25.0	21.9		ug/L		8V	V0 - 1p0
Dibromomethane	25.0	26.4		ug/L		105	V0 - 1p0

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	120		72 - 102
1,4-Dichloroethene-d5 (Surr)	37		72 - 102
5-bromofluorobenzene (Surr)	30		72 - 102

Lab Sample ID: LCSD 480-200987/5

Matrix: Water

Analysis Batch: 200987

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	2p.9		ug/L		96	V0 - 1p0	5	20
1,1,1-Trichloroethane	25.0	24.2		ug/L		9V	V0 - 1p0	6	20
1,1,1,2-Tetrachloroethane	25.0	24.2		ug/L		9V	V0 - 1p0	6	20
1,1,2-Trichloroethane	25.0	25.8		ug/L		10p	V0 - 1p0	10	20
1,1-Dichloroethane	25.0	21.4		ug/L		85	V0 - 1p0	12	20
1,1-Dichloroethene	25.0	22.V		ug/L		91	V0 - 1p0	14	20
1,1-Dichloro3ro3ene	25.0	2p.8		ug/L		95	V0 - 1p0	8	20
1,2,p-Trichlorobenzene	25.0	28.0		ug/L		112	V0 - 1p0	4	20
1,2,p-Trichloro3ro3ane	25.0	24.2		ug/L		9V	V0 - 1p0	5	20
1,2,4-Trichlorobenzene	25.0	25.p		ug/L		101	V0 - 1p0	1p	20
1,2,4-Trimethylbenzene	25.0	24.6		ug/L		98	V0 - 1p0	6	20
1,2-Dibromo-p-Chloro3ro3ane	25.0	26.2		ug/L		105	V0 - 1p0	11	20
1,2-Dichlorobenzene	25.0	25.4		ug/L		102	V0 - 1p0	10	20
1,2-Dichloroethane	25.0	2p.5		ug/L		94	V0 - 1p0	5	20
1,2-Dichloro3ro3ane	25.0	25.0		ug/L		100	V0 - 1p0	4	20
1,p,5-Trimethylbenzene	25.0	24.8		ug/L		99	V0 - 1p0	V	20
1,p-Dichlorobenzene	25.0	25.p		ug/L		101	V0 - 1p0	p	20
1,p-Dichloro3ro3ane	25.0	2p.5		ug/L		94	V0 - 1p0	p	20
1,4-Dichlorobenzene	25.0	25.9		ug/L		104	V0 - 1p0	2	20
1,4-Dioxane	500	V62	7	ug/L		152	V0 - 1p0	5	20
2,2-Dichloro3ro3ane	25.0	24.9		ug/L		100	V0 - 1p0	2	20
2-utanone BME (K	125	1p1		ug/L		105	V0 - 1p0	0	20
2-Chlorotoluene	25.0	24.8		ug/L		99	V0 - 1p0	4	20
2-utanone	125	116		ug/L		9p	V0 - 1p0	V	20
4-Chlorotoluene	25.0	22.1		ug/L		89	V0 - 1p0	V	20
4-Iso3ro3yltoluene	25.0	25.9		ug/L		104	V0 - 1p0	5	20
4-Methyl-2-3entanone BMI* (K	125	10p		ug/L		8p	V0 - 1p0	8	20
Acetone	125	12V		ug/L		101	V0 - 1p0	10	20

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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

Lab Sample ID: LCSD 480-200987/5

Matrix: Water

Analysis Batch: 200987

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		
* enzene	25.0	24.5		ug/L		98	V0 - 1p0	5	20
* romobenzene	25.0	2p.9		ug/L		96	V0 - 1p0	5	20
* romoform	25.0	24.6		ug/L		98	V0 - 1p0	8	20
* romomethane	25.0	19.8		ug/L		V9	V0 - 1p0	9	20
Carbon disulfide	25.0	21.8		ug/L		8V	V0 - 1p0	15	20
Carbon tetrachloride	25.0	2p.V		ug/L		95	V0 - 1p0	9	20
Chlorobenzene	25.0	24.5		ug/L		98	V0 - 1p0	4	20
Chlorobromomethane	25.0	25.0		ug/L		100	V0 - 1p0	2	20
Chlorodibromomethane	25.0	26.6		ug/L		106	V0 - 1p0	p	20
Chloroethane	25.0	1V.8		ug/L		V1	V0 - 1p0	8	20
Chloroform	25.0	2p.6		ug/L		94	V0 - 1p0	6	20
Chloromethane	25.0	2p.0		ug/L		92	V0 - 1p0	4	20
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	V0 - 1p0	4	20
cis-1,p-Dichloro3ro3ene	25.0	28.V		ug/L		115	V0 - 1p0	2	20
Dichlorobromomethane	25.0	24.4		ug/L		9V	V0 - 1p0	5	20
Dichlorodifluoromethane	25.0	21.0		ug/L		84	V0 - 1p0	9	20
Ethyl ether	25.0	2p.p		ug/L		9p	V0 - 1p0	1	20
Ethylbenzene	25.0	24.2		ug/L		9V	V0 - 1p0	6	20
Ethylene Dibromide	25.0	25.9		ug/L		104	V0 - 1p0	1	20
) exachlorobutadiene	25.0	22.9		ug/L		91	V0 - 1p0	15	20
Iso3ro3yl ether	25.0	21.p		ug/L		85	V0 - 1p0	V	20
Iso3ro3ylbenzene	25.0	2p.6		ug/L		94	V0 - 1p0	16	20
Methyl tert-butyl ether	25.0	22.p		ug/L		89	V0 - 1p0	4	20
Methylene Chloride	25.0	2p.2		ug/L		9p	V0 - 1p0	10	20
m-f ylene X 3-f ylene	25.0	24.p		ug/L		9V	V0 - 1p0	5	20
Na3hthalene	25.0	2V.8		ug/L		111	V0 - 1p0	2	20
n-* utylbenzene	25.0	26.0		ug/L		104	V0 - 1p0	10	20
N-Pro3ylbenzene	25.0	24.1		ug/L		96	V0 - 1p0	8	20
o-f ylene	25.0	22.2		ug/L		89	V0 - 1p0	16	20
sec-* utylbenzene	25.0	24.1		ug/L		9V	V0 - 1p0	9	20
Styrene	25.0	22.2		ug/L		89	V0 - 1p0	16	20
Tert-amyl methyl ether	25.0	28.V		ug/L		115	V0 - 1p0	1	20
Tert-butyl ethyl ether	25.0	24.0		ug/L		96	V0 - 1p0	4	20
tert-* utylbenzene	25.0	24.2		ug/L		9V	V0 - 1p0	8	20
Tetrachloroethene	25.0	25.1		ug/L		101	V0 - 1p0	2	20
Tetrahydrofuran	50.0	62.2		ug/L		124	V0 - 1p0	2	20
Toluene	25.0	2p.2		ug/L		9p	V0 - 1p0	1p	20
trans-1,2-Dichloroethene	25.0	22.0		ug/L		88	V0 - 1p0	8	20
trans-1,p-Dichloro3ro3ene	25.0	2V.9		ug/L		112	V0 - 1p0	0	20
Trichloroethene	25.0	24.0		ug/L		96	V0 - 1p0	12	20
Trichlorofluoromethane	25.0	22.1		ug/L		88	V0 - 1p0	8	20
&inyl chloride	25.0	21.0		ug/L		84	V0 - 1p0	4	20
Dibromomethane	25.0	24.6		ug/L		98	V0 - 1p0	V	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	3/		72 - 102
1:4-, Dchloroet ne-d5 (Surr)	37		72 - 102
5-arob ortuorof enbene (Surr)	34		72 - 102

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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

Lab Sample ID: MB 480-201080/8

Matrix: Water

Analysis Batch: 201080

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			09/05/14 2p:40	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/05/14 2p:40	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/05/14 2p:40	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/05/14 2p:40	1
1,1-Dichloroethane	ND		1.0		ug/L			09/05/14 2p:40	1
1,1-Dichloroethene	ND		1.0		ug/L			09/05/14 2p:40	1
1,1-Dichloro3ro3ene	ND		1.0		ug/L			09/05/14 2p:40	1
1,2,p-Trichlorobenzene	ND		1.0		ug/L			09/05/14 2p:40	1
1,2,p-Trichloro3ro3ane	ND		1.0		ug/L			09/05/14 2p:40	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/05/14 2p:40	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/05/14 2p:40	1
1,2-Dibromo-p-Chloro3ro3ane	ND		5.0		ug/L			09/05/14 2p:40	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/05/14 2p:40	1
1,2-Dichloroethane	ND		1.0		ug/L			09/05/14 2p:40	1
1,2-Dichloro3ro3ane	ND		1.0		ug/L			09/05/14 2p:40	1
1,p,5-Trimethylbenzene	ND		1.0		ug/L			09/05/14 2p:40	1
1,p-Dichlorobenzene	ND		1.0		ug/L			09/05/14 2p:40	1
1,p-Dichloro3ro3ane	ND		1.0		ug/L			09/05/14 2p:40	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/05/14 2p:40	1
1,4-Dioxane	ND		50		ug/L			09/05/14 2p:40	1
2,2-Dichloro3ro3ane	ND		1.0		ug/L			09/05/14 2p:40	1
2-* utanone BME(K	ND		10		ug/L			09/05/14 2p:40	1
2-Chlorotoluene	ND		1.0		ug/L			09/05/14 2p:40	1
2-) exanone	ND		10		ug/L			09/05/14 2p:40	1
4-Chlorotoluene	ND		1.0		ug/L			09/05/14 2p:40	1
4-Iso3ro3yltoluene	ND		1.0		ug/L			09/05/14 2p:40	1
4-Methyl-2-3entanone BMI* (K	ND		10		ug/L			09/05/14 2p:40	1
Acetone	ND		50		ug/L			09/05/14 2p:40	1
* enzene	ND		1.0		ug/L			09/05/14 2p:40	1
* romobenzene	ND		1.0		ug/L			09/05/14 2p:40	1
* romoform	ND		1.0		ug/L			09/05/14 2p:40	1
* romomethane	ND		2.0		ug/L			09/05/14 2p:40	1
Carbon disulfide	ND		10		ug/L			09/05/14 2p:40	1
Carbon tetrachloride	ND		1.0		ug/L			09/05/14 2p:40	1
Chlorobenzene	ND		1.0		ug/L			09/05/14 2p:40	1
Chlorobromomethane	ND		1.0		ug/L			09/05/14 2p:40	1
Chlorodibromomethane	ND		0.50		ug/L			09/05/14 2p:40	1
Chloroethane	ND		2.0		ug/L			09/05/14 2p:40	1
Chloroform	ND		1.0		ug/L			09/05/14 2p:40	1
Chloromethane	ND		2.0		ug/L			09/05/14 2p:40	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/05/14 2p:40	1
cis-1,p-Dichloro3ro3ene	ND		0.40		ug/L			09/05/14 2p:40	1
Dichlorobromomethane	ND		0.50		ug/L			09/05/14 2p:40	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/05/14 2p:40	1
Ethyl ether	ND		1.0		ug/L			09/05/14 2p:40	1
Ethylbenzene	ND		1.0		ug/L			09/05/14 2p:40	1
Ethylene Dibromide	ND		1.0		ug/L			09/05/14 2p:40	1
) exachlorobutadiene	ND		0.40		ug/L			09/05/14 2p:40	1

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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

Lab Sample ID: MB 480-201080/8

Matrix: Water

Analysis Batch: 201080

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iso3ro3yl ether	ND		10		ug/L			09/05/14 2p:40	1
Iso3ro3ylbenzene	ND		1.0		ug/L			09/05/14 2p:40	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/05/14 2p:40	1
Methylene Chloride	ND		1.0		ug/L			09/05/14 2p:40	1
m-f ylene X 3-f ylene	ND		2.0		ug/L			09/05/14 2p:40	1
Na3hthalene	ND		5.0		ug/L			09/05/14 2p:40	1
n-* utylbenzene	ND		1.0		ug/L			09/05/14 2p:40	1
N-Pro3ylbenzene	ND		1.0		ug/L			09/05/14 2p:40	1
o-f ylene	ND		1.0		ug/L			09/05/14 2p:40	1
sec-* utylbenzene	ND		1.0		ug/L			09/05/14 2p:40	1
Styrene	ND		1.0		ug/L			09/05/14 2p:40	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/05/14 2p:40	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/05/14 2p:40	1
tert-* utylbenzene	ND		1.0		ug/L			09/05/14 2p:40	1
Tetrachloroethene	ND		1.0		ug/L			09/05/14 2p:40	1
Tetrahydrothran	ND		10		ug/L			09/05/14 2p:40	1
Toluene	ND		1.0		ug/L			09/05/14 2p:40	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/05/14 2p:40	1
trans-1,p-Dichloro3ro3ene	ND		0.40		ug/L			09/05/14 2p:40	1
Trichloroethene	ND		1.0		ug/L			09/05/14 2p:40	1
Trichlorofluoromethane	ND		1.0		ug/L			09/05/14 2p:40	1
&inyl chloride	ND		1.0		ug/L			09/05/14 2p:40	1
Dibromomethane	ND		1.0		ug/L			09/05/14 2p:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	30		72 - 102		23 9 / 9/5 40 6 2	1
1,4-, Dchloroelct ne-d5 (Surr)	88		72 - 102		23 9 / 9/5 40 6 2	1
5-aroB ortuorof enbene (Surr)	128		72 - 102		23 9 / 9/5 40 6 2	1

Lab Sample ID: LCS 480-201080/5

Matrix: Water

Analysis Batch: 201080

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	28.9		ug/L		115	V0 - 1p0
1,1,1-Trichloroethane	25.0	25.V		ug/L		10p	V0 - 1p0
1,1,2,2-Tetrachloroethane	25.0	24.9		ug/L		100	V0 - 1p0
1,1,2-Trichloroethane	25.0	25.9		ug/L		104	V0 - 1p0
1,1-Dichloroethane	25.0	26.1		ug/L		104	V0 - 1p0
1,1-Dichloroethane	25.0	26.0		ug/L		104	V0 - 1p0
1,1-Dichloro3ro3ene	25.0	25.6		ug/L		102	V0 - 1p0
1,2,p-Trichlorobenzene	25.0	2p.9		ug/L		96	V0 - 1p0
1,2,p-Trichloro3ro3ane	25.0	24.1		ug/L		96	V0 - 1p0
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		9V	V0 - 1p0
1,2,4-Trimethylbenzene	25.0	25.1		ug/L		100	V0 - 1p0
1,2-Dibromo-p-Chloro3ro3ane	25.0	25.2		ug/L		101	V0 - 1p0
1,2-Dichlorobenzene	25.0	25.1		ug/L		100	V0 - 1p0
1,2-Dichloroethane	25.0	24.0		ug/L		96	V0 - 1p0

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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

Lab Sample ID: LCS 480-201080/5

Matrix: Water

Analysis Batch: 201080

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloro3ro3ane	25.0	26.2		ug/L		105	V0 - 1p0
1,p,5-Trimethylbenzene	25.0	24.V		ug/L		99	V0 - 1p0
1,p-Dichlorobenzene	25.0	25.8		ug/L		10p	V0 - 1p0
1,p-Dichloro3ro3ane	25.0	26.6		ug/L		10V	V0 - 1p0
1,4-Dichlorobenzene	25.0	25.6		ug/L		102	V0 - 1p0
1,4-Dioxane	500	45p		ug/L		91	V0 - 1p0
2,2-Dichloro3ro3ane	25.0	2V.V		ug/L		111	V0 - 1p0
2-* utanone BME(K	125	1p6		ug/L		109	V0 - 1p0
2-Chlorotoluene	25.0	24.9		ug/L		100	V0 - 1p0
2-) exanone	125	1V5	7	ug/L		140	V0 - 1p0
4-Chlorotoluene	25.0	26.8		ug/L		10V	V0 - 1p0
4-Iso3ro3yltoluene	25.0	25.1		ug/L		101	V0 - 1p0
4-Methyl-2-3entanone BMI* (K	125	126		ug/L		101	V0 - 1p0
Acetone	125	109		ug/L		8V	V0 - 1p0
* enzene	25.0	25.4		ug/L		102	V0 - 1p0
* romobenzene	25.0	25.4		ug/L		102	V0 - 1p0
* romoform	25.0	p0.9		ug/L		124	V0 - 1p0
* romomethane	25.0	24.p		ug/L		9V	V0 - 1p0
Carbon disulfide	25.0	26.4		ug/L		106	V0 - 1p0
Carbon tetrachloride	25.0	2V.1		ug/L		108	V0 - 1p0
Chlorobenzene	25.0	26.9		ug/L		108	V0 - 1p0
Chlorobromomethane	25.0	26.2		ug/L		105	V0 - 1p0
Chlorodibromomethane	25.0	29.1		ug/L		116	V0 - 1p0
Chloroethane	25.0	24.1		ug/L		9V	V0 - 1p0
Chloroform	25.0	24.6		ug/L		98	V0 - 1p0
Chloromethane	25.0	2p.2		ug/L		9p	V0 - 1p0
cis-1,2-Dichloroethene	25.0	25.1		ug/L		101	V0 - 1p0
cis-1,p-Dichloro3ro3ene	25.0	26.2		ug/L		105	V0 - 1p0
Dichlorobromomethane	25.0	26.0		ug/L		104	V0 - 1p0
Dichlorodifluoromethane	25.0	21.0		ug/L		84	V0 - 1p0
Ethyl ether	25.0	25.2		ug/L		101	V0 - 1p0
Ethylbenzene	25.0	25.6		ug/L		102	V0 - 1p0
Ethylene Dibromide	25.0	25.8		ug/L		10p	V0 - 1p0
) exachlorobutadiene	25.0	28.p		ug/L		11p	V0 - 1p0
Iso3ro3yl ether	25.0	2p.4		ug/L		94	V0 - 1p0
Iso3ro3ylbenzene	25.0	2p.9		ug/L		95	V0 - 1p0
Methyl tert-butyl ether	25.0	24.5		ug/L		98	V0 - 1p0
Methylene Chloride	25.0	26.4		ug/L		106	V0 - 1p0
m-f ylene X 3-f ylene	25.0	26.6		ug/L		106	V0 - 1p0
Na3hthalene	25.0	22.2		ug/L		89	V0 - 1p0
n-* utylbenzene	25.0	25.0		ug/L		100	V0 - 1p0
N-Pro3ylbenzene	25.0	24.6		ug/L		99	V0 - 1p0
o-f ylene	25.0	25.9		ug/L		10p	V0 - 1p0
sec-* utylbenzene	25.0	24.5		ug/L		98	V0 - 1p0
Styrene	25.0	25.5		ug/L		102	V0 - 1p0
Tert-amyl methyl ether	25.0	25.5		ug/L		102	V0 - 1p0
Tert-butyl ethyl ether	25.0	24.p		ug/L		9V	V0 - 1p0
tert-* utylbenzene	25.0	24.p		ug/L		9V	V0 - 1p0

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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

Lab Sample ID: LCS 480-201080/5

Matrix: Water

Analysis Batch: 201080

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	28.8		ug/L		115	V0 - 1p0
Tetrahydrofuran	50.0	50.6		ug/L		101	V0 - 1p0
Toluene	25.0	26.1		ug/L		104	V0 - 1p0
trans-1,2-Dichloroethene	25.0	26.4		ug/L		106	V0 - 1p0
trans-1,p-Dichloro3ro3ene	25.0	26.9		ug/L		108	V0 - 1p0
Trichloroethene	25.0	26.6		ug/L		106	V0 - 1p0
Trichlorofluoromethane	25.0	24.V		ug/L		99	V0 - 1p0
Vinyl chloride	25.0	2p.4		ug/L		94	V0 - 1p0
Dibromomethane	25.0	25.0		ug/L		100	V0 - 1p0

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	3/		72 - 102
1,4-Dichloroethene-d5 (Surr)	3z		72 - 102
5-bromofluorobenzene (Surr)	110		72 - 102

Lab Sample ID: LCSD 480-201080/6

Matrix: Water

Analysis Batch: 201080

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	2V.6		ug/L		110	V0 - 1p0	5	20
1,1,1-Trichloroethane	25.0	24.2		ug/L		9V	V0 - 1p0	6	20
1,1,1,2-Tetrachloroethane	25.0	25.p		ug/L		101	V0 - 1p0	1	20
1,1,2-Trichloroethane	25.0	25.6		ug/L		102	V0 - 1p0	1	20
1,1-Dichloroethane	25.0	25.0		ug/L		100	V0 - 1p0	4	20
1,1-Dichloroethene	25.0	24.2		ug/L		9V	V0 - 1p0	V	20
1,1-Dichloro3ro3ene	25.0	24.8		ug/L		99	V0 - 1p0	p	20
1,2,p-Trichlorobenzene	25.0	25.6		ug/L		102	V0 - 1p0	V	20
1,2,p-Trichloro3ro3ane	25.0	25.p		ug/L		101	V0 - 1p0	5	20
1,2,4-Trichlorobenzene	25.0	25.2		ug/L		101	V0 - 1p0	4	20
1,2,4-Trimethylbenzene	25.0	24.9		ug/L		99	V0 - 1p0	1	20
1,2-Dibromo-p-Chloro3ro3ane	25.0	25.9		ug/L		104	V0 - 1p0	p	20
1,2-Dichlorobenzene	25.0	25.5		ug/L		102	V0 - 1p0	2	20
1,2-Dichloroethane	25.0	2p.6		ug/L		94	V0 - 1p0	2	20
1,2-Dichloro3ro3ane	25.0	25.6		ug/L		102	V0 - 1p0	p	20
1,p,5-Trimethylbenzene	25.0	24.5		ug/L		98	V0 - 1p0	1	20
1,p-Dichlorobenzene	25.0	25.6		ug/L		10p	V0 - 1p0	1	20
1,p-Dichloro3ro3ane	25.0	26.0		ug/L		104	V0 - 1p0	2	20
1,4-Dichlorobenzene	25.0	25.V		ug/L		10p	V0 - 1p0	1	20
1,4-Dioxane	500	542		ug/L		108	V0 - 1p0	18	20
2,2-Dichloro3ro3ane	25.0	26.0		ug/L		104	V0 - 1p0	6	20
2-utanone BME (K	125	1p9		ug/L		111	V0 - 1p0	2	20
2-Chlorotoluene	25.0	25.6		ug/L		102	V0 - 1p0	p	20
2-oxanone	125	1V5 7		ug/L		140	V0 - 1p0	0	20
4-Chlorotoluene	25.0	2V.1		ug/L		108	V0 - 1p0	1	20
4-Iso3ro3yltoluene	25.0	24.8		ug/L		99	V0 - 1p0	1	20
4-Methyl-2-3entanone BMI* (K	125	12p		ug/L		98	V0 - 1p0	2	20
Acetone	125	10V		ug/L		86	V0 - 1p0	2	20

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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

Lab Sample ID: LCSD 480-201080/6

Matrix: Water

Analysis Batch: 201080

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		
* enzene	25.0	24.p		ug/L		9V	V0 - 1p0	4	20	
* romobenzene	25.0	26.0		ug/L		104	V0 - 1p0	2	20	
* romoform	25.0	p0.1		ug/L		120	V0 - 1p0	p	20	
* romomethane	25.0	22.6		ug/L		90	V0 - 1p0	V	20	
Carbon disulfide	25.0	24.8		ug/L		99	V0 - 1p0	6	20	
Carbon tetrachloride	25.0	25.V		ug/L		10p	V0 - 1p0	5	20	
Chlorobenzene	25.0	25.V		ug/L		10p	V0 - 1p0	5	20	
Chlorobromomethane	25.0	25.5		ug/L		102	V0 - 1p0	p	20	
Chlorodibromomethane	25.0	28.1		ug/L		112	V0 - 1p0	p	20	
Chloroethane	25.0	22.5		ug/L		90	V0 - 1p0	V	20	
Chloroform	25.0	2p.6		ug/L		94	V0 - 1p0	4	20	
Chloromethane	25.0	21.p		ug/L		85	V0 - 1p0	8	20	
cis-1,2-Dichloroethene	25.0	24.5		ug/L		98	V0 - 1p0	2	20	
cis-1,p-Dichloro3ro3ene	25.0	26.0		ug/L		104	V0 - 1p0	1	20	
Dichlorobromomethane	25.0	25.5		ug/L		102	V0 - 1p0	2	20	
Dichlorodifluoromethane	25.0	19.0		ug/L		V6	V0 - 1p0	10	20	
Ethyl ether	25.0	25.V		ug/L		10p	V0 - 1p0	2	20	
Ethylbenzene	25.0	24.4		ug/L		9V	V0 - 1p0	5	20	
Ethylene Dibromide	25.0	25.5		ug/L		102	V0 - 1p0	1	20	
) exachlorobutadiene	25.0	2V.4		ug/L		110	V0 - 1p0	p	20	
Iso3ro3yl ether	25.0	2p.0		ug/L		92	V0 - 1p0	2	20	
Iso3ro3ylbenzene	25.0	2p.9		ug/L		95	V0 - 1p0	0	20	
Methyl tert-butyl ether	25.0	24.V		ug/L		99	V0 - 1p0	1	20	
Methylene Chloride	25.0	25.6		ug/L		102	V0 - 1p0	p	20	
m-f ylene X 3-f ylene	25.0	25.2		ug/L		101	V0 - 1p0	5	20	
Na3hthalene	25.0	24.0		ug/L		96	V0 - 1p0	8	20	
n-* utylbenzene	25.0	24.6		ug/L		99	V0 - 1p0	1	20	
N-Pro3ylbenzene	25.0	24.1		ug/L		96	V0 - 1p0	2	20	
o-f ylene	25.0	25.0		ug/L		100	V0 - 1p0	p	20	
sec-* utylbenzene	25.0	24.p		ug/L		9V	V0 - 1p0	1	20	
Styrene	25.0	24.V		ug/L		99	V0 - 1p0	p	20	
Tert-amyl methyl ether	25.0	25.8		ug/L		10p	V0 - 1p0	1	20	
Tert-butyl ethyl ether	25.0	24.4		ug/L		9V	V0 - 1p0	0	20	
tert-* utylbenzene	25.0	24.p		ug/L		9V	V0 - 1p0	0	20	
Tetrachloroethene	25.0	2V.4		ug/L		109	V0 - 1p0	5	20	
Tetrahydrofuran	50.0	51.9		ug/L		104	V0 - 1p0	p	20	
Toluene	25.0	24.V		ug/L		99	V0 - 1p0	6	20	
trans-1,2-Dichloroethene	25.0	25.1		ug/L		101	V0 - 1p0	5	20	
trans-1,p-Dichloro3ro3ene	25.0	26.5		ug/L		106	V0 - 1p0	1	20	
Trichloroethene	25.0	25.2		ug/L		101	V0 - 1p0	5	20	
Trichlorofluoromethane	25.0	2p.0		ug/L		92	V0 - 1p0	V	20	
&inyl chloride	25.0	21.V		ug/L		8V	V0 - 1p0	8	20	
Dibromomethane	25.0	24.5		ug/L		98	V0 - 1p0	2	20	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	35		72 - 102
1:4-, Dchloroet ne-d5 (Surr)	3/		72 - 102
5-arob ortuorof enbene (Surr)	11/		72 - 102

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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

Lab Sample ID: MB 480-201129/8

Matrix: Water

Analysis Batch: 201129

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			09/06/14 1p:20	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/06/14 1p:20	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/06/14 1p:20	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/06/14 1p:20	1
1,1-Dichloroethane	ND		1.0		ug/L			09/06/14 1p:20	1
1,1-Dichloroethene	ND		1.0		ug/L			09/06/14 1p:20	1
1,1-Dichloro3ro3ene	ND		1.0		ug/L			09/06/14 1p:20	1
1,2,p-Trichlorobenzene	ND		1.0		ug/L			09/06/14 1p:20	1
1,2,p-Trichloro3ro3ane	ND		1.0		ug/L			09/06/14 1p:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/06/14 1p:20	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/06/14 1p:20	1
1,2-Dibromo-p-Chloro3ro3ane	ND		5.0		ug/L			09/06/14 1p:20	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/06/14 1p:20	1
1,2-Dichloroethane	ND		1.0		ug/L			09/06/14 1p:20	1
1,2-Dichloro3ro3ane	ND		1.0		ug/L			09/06/14 1p:20	1
1,p,5-Trimethylbenzene	ND		1.0		ug/L			09/06/14 1p:20	1
1,p-Dichlorobenzene	ND		1.0		ug/L			09/06/14 1p:20	1
1,p-Dichloro3ro3ane	ND		1.0		ug/L			09/06/14 1p:20	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/06/14 1p:20	1
1,4-Dioxane	ND		50		ug/L			09/06/14 1p:20	1
2,2-Dichloro3ro3ane	ND		1.0		ug/L			09/06/14 1p:20	1
2-* utanone BME(K	ND		10		ug/L			09/06/14 1p:20	1
2-Chlorotoluene	ND		1.0		ug/L			09/06/14 1p:20	1
2-) exanone	ND		10		ug/L			09/06/14 1p:20	1
4-Chlorotoluene	ND		1.0		ug/L			09/06/14 1p:20	1
4-Iso3ro3yltoluene	ND		1.0		ug/L			09/06/14 1p:20	1
4-Methyl-2-3entanone BMI* (K	ND		10		ug/L			09/06/14 1p:20	1
Acetone	ND		50		ug/L			09/06/14 1p:20	1
* enzene	ND		1.0		ug/L			09/06/14 1p:20	1
* romobenzene	ND		1.0		ug/L			09/06/14 1p:20	1
* romoform	ND		1.0		ug/L			09/06/14 1p:20	1
* romomethane	ND		2.0		ug/L			09/06/14 1p:20	1
Carbon disulfide	ND		10		ug/L			09/06/14 1p:20	1
Carbon tetrachloride	ND		1.0		ug/L			09/06/14 1p:20	1
Chlorobenzene	ND		1.0		ug/L			09/06/14 1p:20	1
Chlorobromomethane	ND		1.0		ug/L			09/06/14 1p:20	1
Chlorodibromomethane	ND		0.50		ug/L			09/06/14 1p:20	1
Chloroethane	ND		2.0		ug/L			09/06/14 1p:20	1
Chloroform	ND		1.0		ug/L			09/06/14 1p:20	1
Chloromethane	ND		2.0		ug/L			09/06/14 1p:20	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 1p:20	1
cis-1,p-Dichloro3ro3ene	ND		0.40		ug/L			09/06/14 1p:20	1
Dichlorobromomethane	ND		0.50		ug/L			09/06/14 1p:20	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/06/14 1p:20	1
Ethyl ether	ND		1.0		ug/L			09/06/14 1p:20	1
Ethylbenzene	ND		1.0		ug/L			09/06/14 1p:20	1
Ethylene Dibromide	ND		1.0		ug/L			09/06/14 1p:20	1
) exachlorobutadiene	ND		0.40		ug/L			09/06/14 1p:20	1

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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

Lab Sample ID: MB 480-201129/8

Matrix: Water

Analysis Batch: 201129

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iso3ro3yl ether	ND		10		ug/L			09/06/14 1p:20	1
Iso3ro3ylbenzene	ND		1.0		ug/L			09/06/14 1p:20	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/06/14 1p:20	1
Methylene Chloride	ND		1.0		ug/L			09/06/14 1p:20	1
m-f ylene X 3-f ylene	ND		2.0		ug/L			09/06/14 1p:20	1
Na3hthalene	ND		5.0		ug/L			09/06/14 1p:20	1
n-* utylbenzene	ND		1.0		ug/L			09/06/14 1p:20	1
N-Pro3ylbenzene	ND		1.0		ug/L			09/06/14 1p:20	1
o-f ylene	ND		1.0		ug/L			09/06/14 1p:20	1
sec-* utylbenzene	ND		1.0		ug/L			09/06/14 1p:20	1
Styrene	ND		1.0		ug/L			09/06/14 1p:20	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/06/14 1p:20	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/06/14 1p:20	1
tert-* utylbenzene	ND		1.0		ug/L			09/06/14 1p:20	1
Tetrachloroethene	ND		1.0		ug/L			09/06/14 1p:20	1
Tetrahydrothran	ND		10		ug/L			09/06/14 1p:20	1
Toluene	ND		1.0		ug/L			09/06/14 1p:20	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/06/14 1p:20	1
trans-1,p-Dichloro3ro3ene	ND		0.40		ug/L			09/06/14 1p:20	1
Trichloroethene	ND		1.0		ug/L			09/06/14 1p:20	1
Trichlorofluoromethane	ND		1.0		ug/L			09/06/14 1p:20	1
&inyl chloride	ND		1.0		ug/L			09/06/14 1p:20	1
Dibromomethane	ND		1.0		ug/L			09/06/14 1p:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	30		72 - 102		23/2/15 10/12	1
1,4-Dichloroethene-d5 (Surr)	87		72 - 102		23/2/15 10/12	1
5-arobortuorof enbene (Surr)	111		72 - 102		23/2/15 10/12	1

Lab Sample ID: LCS 480-201129/5

Matrix: Water

Analysis Batch: 201129

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	28.5		ug/L		114	V0 - 1p0
1,1,1-Trichloroethane	25.0	25.2		ug/L		101	V0 - 1p0
1,1,2,2-Tetrachloroethane	25.0	25.1		ug/L		100	V0 - 1p0
1,1,2-Trichloroethane	25.0	25.0		ug/L		100	V0 - 1p0
1,1-Dichloroethane	25.0	25.9		ug/L		104	V0 - 1p0
1,1-Dichloroethene	25.0	25.V		ug/L		10p	V0 - 1p0
1,1-Dichloro3ro3ene	25.0	25.4		ug/L		102	V0 - 1p0
1,2,p-Trichlorobenzene	25.0	25.p		ug/L		101	V0 - 1p0
1,2,p-Trichloro3ro3ane	25.0	24.8		ug/L		99	V0 - 1p0
1,2,4-Trichlorobenzene	25.0	25.4		ug/L		102	V0 - 1p0
1,2,4-Trimethylbenzene	25.0	25.8		ug/L		10p	V0 - 1p0
1,2-Dibromo-p-Chloro3ro3ane	25.0	25.V		ug/L		10p	V0 - 1p0
1,2-Dichlorobenzene	25.0	25.8		ug/L		10p	V0 - 1p0
1,2-Dichloroethane	25.0	2p.6		ug/L		94	V0 - 1p0

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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

Lab Sample ID: LCS 480-201129/5

Matrix: Water

Analysis Batch: 201129

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloro3ro3ane	25.0	26.1		ug/L		104	V0 - 1p0
1,p,5-Trimethylbenzene	25.0	25.2		ug/L		101	V0 - 1p0
1,p-Dichlorobenzene	25.0	26.1		ug/L		104	V0 - 1p0
1,p-Dichloro3ro3ane	25.0	26.1		ug/L		104	V0 - 1p0
1,4-Dichlorobenzene	25.0	26.0		ug/L		104	V0 - 1p0
1,4-Dioxane	500	4p5		ug/L		8V	V0 - 1p0
2,2-Dichloro3ro3ane	25.0	2V.0		ug/L		108	V0 - 1p0
2-* utanone BME(K	125	20V	7	ug/L		166	V0 - 1p0
2-Chlorotoluene	25.0	26.0		ug/L		104	V0 - 1p0
2-) exanone	125	1V2	7	ug/L		1p8	V0 - 1p0
4-Chlorotoluene	25.0	2V.5		ug/L		110	V0 - 1p0
4-Iso3ro3yltoluene	25.0	25.6		ug/L		102	V0 - 1p0
4-Methyl-2-3entanone BMI* (K	125	12p		ug/L		99	V0 - 1p0
Acetone	125	115		ug/L		92	V0 - 1p0
* enzene	25.0	25.p		ug/L		101	V0 - 1p0
* romobenzene	25.0	26.1		ug/L		104	V0 - 1p0
* romoform	25.0	p0.0		ug/L		120	V0 - 1p0
* romomethane	25.0	2p.6		ug/L		94	V0 - 1p0
Carbon disulfide	25.0	26.0		ug/L		104	V0 - 1p0
Carbon tetrachloride	25.0	26.4		ug/L		105	V0 - 1p0
Chlorobenzene	25.0	26.5		ug/L		106	V0 - 1p0
Chlorobromomethane	25.0	26.0		ug/L		104	V0 - 1p0
Chlorodibromomethane	25.0	28.V		ug/L		115	V0 - 1p0
Chloroethane	25.0	24.0		ug/L		96	V0 - 1p0
Chloroform	25.0	24.5		ug/L		98	V0 - 1p0
Chloromethane	25.0	21.8		ug/L		8V	V0 - 1p0
cis-1,2-Dichloroethene	25.0	25.4		ug/L		102	V0 - 1p0
cis-1,p-Dichloro3ro3ene	25.0	26.1		ug/L		105	V0 - 1p0
Dichlorobromomethane	25.0	25.4		ug/L		102	V0 - 1p0
Dichlorodifluoromethane	25.0	18.1		ug/L		Vp	V0 - 1p0
Ethyl ether	25.0	26.1		ug/L		104	V0 - 1p0
Ethylbenzene	25.0	25.2		ug/L		101	V0 - 1p0
Ethylene Dibromide	25.0	26.0		ug/L		104	V0 - 1p0
) exachlorobutadiene	25.0	28.0		ug/L		112	V0 - 1p0
Iso3ro3yl ether	25.0	22.4		ug/L		89	V0 - 1p0
Iso3ro3ylbenzene	25.0	24.4		ug/L		9V	V0 - 1p0
Methyl tert-butyl ether	25.0	25.p		ug/L		101	V0 - 1p0
Methylene Chloride	25.0	26.0		ug/L		104	V0 - 1p0
m-f ylene X 3-f ylene	25.0	26.6		ug/L		106	V0 - 1p0
Na3hthalene	25.0	2p.p		ug/L		9p	V0 - 1p0
n-* utylbenzene	25.0	25.p		ug/L		101	V0 - 1p0
N-Pro3ylbenzene	25.0	25.0		ug/L		100	V0 - 1p0
o-f ylene	25.0	26.1		ug/L		104	V0 - 1p0
sec-* utylbenzene	25.0	25.0		ug/L		100	V0 - 1p0
Styrene	25.0	25.4		ug/L		101	V0 - 1p0
Tert-amyl methyl ether	25.0	24.8		ug/L		99	V0 - 1p0
Tert-butyl ethyl ether	25.0	2p.5		ug/L		94	V0 - 1p0
tert-* utylbenzene	25.0	24.6		ug/L		99	V0 - 1p0

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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

Lab Sample ID: LCS 480-201129/5

Matrix: Water

Analysis Batch: 201129

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrachloroethene	25.0	2V.5		ug/L		110	V0 - 1p0
Tetrahydrofuran	50.0	50.V		ug/L		101	V0 - 1p0
Toluene	25.0	25.8		ug/L		10p	V0 - 1p0
trans-1,2-Dichloroethene	25.0	25.V		ug/L		10p	V0 - 1p0
trans-1,p-Dichloro3ro3ene	25.0	26.8		ug/L		10V	V0 - 1p0
Trichloroethene	25.0	26.1		ug/L		104	V0 - 1p0
Trichlorofluoromethane	25.0	2p.8		ug/L		95	V0 - 1p0
Vinyl chloride	25.0	22.p		ug/L		89	V0 - 1p0
Dibromomethane	25.0	24.6		ug/L		98	V0 - 1p0

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	35		72 - 102
1,4-Dichloroethene-d5 (Surr)	84		72 - 102
5-bromofluorobenzene (Surr)	115		72 - 102

Lab Sample ID: LCSD 480-201129/6

Matrix: Water

Analysis Batch: 201129

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	28.4		ug/L		114	V0 - 1p0	0	20
1,1,1-Trichloroethane	25.0	24.6		ug/L		99	V0 - 1p0	2	20
1,1,1,2-Tetrachloroethane	25.0	25.2		ug/L		101	V0 - 1p0	0	20
1,1,2-Trichloroethane	25.0	25.4		ug/L		101	V0 - 1p0	1	20
1,1-Dichloroethane	25.0	25.1		ug/L		100	V0 - 1p0	p	20
1,1-Dichloroethene	25.0	24.5		ug/L		98	V0 - 1p0	5	20
1,1-Dichloro3ro3ene	25.0	24.8		ug/L		99	V0 - 1p0	2	20
1,2,p-Trichlorobenzene	25.0	25.8		ug/L		10p	V0 - 1p0	2	20
1,2,p-Trichloro3ro3ane	25.0	24.p		ug/L		9V	V0 - 1p0	2	20
1,2,4-Trichlorobenzene	25.0	26.0		ug/L		104	V0 - 1p0	2	20
1,2,4-Trimethylbenzene	25.0	24.9		ug/L		100	V0 - 1p0	p	20
1,2-Dibromo-p-Chloro3ro3ane	25.0	26.p		ug/L		105	V0 - 1p0	p	20
1,2-Dichlorobenzene	25.0	25.p		ug/L		101	V0 - 1p0	2	20
1,2-Dichloroethane	25.0	2p.1		ug/L		92	V0 - 1p0	2	20
1,2-Dichloro3ro3ane	25.0	25.8		ug/L		10p	V0 - 1p0	1	20
1,p,5-Trimethylbenzene	25.0	24.V		ug/L		99	V0 - 1p0	2	20
1,p-Dichlorobenzene	25.0	25.V		ug/L		10p	V0 - 1p0	1	20
1,p-Dichloro3ro3ane	25.0	26.p		ug/L		105	V0 - 1p0	1	20
1,4-Dichlorobenzene	25.0	25.8		ug/L		10p	V0 - 1p0	0	20
1,4-Dioxane	500	5p9	7	ug/L		108	V0 - 1p0	21	20
2,2-Dichloro3ro3ane	25.0	26.2		ug/L		105	V0 - 1p0	p	20
2-utanone BME (K	125	211	7	ug/L		168	V0 - 1p0	2	20
2-Chlorotoluene	25.0	25.8		ug/L		10p	V0 - 1p0	1	20
2-oxanone	125	1W	7	ug/L		141	V0 - 1p0	p	20
4-Chlorotoluene	25.0	2V.1		ug/L		108	V0 - 1p0	1	20
4-Iso3ro3yltoluene	25.0	25.2		ug/L		101	V0 - 1p0	1	20
4-Methyl-2-3entanone BMI* (K	125	126		ug/L		101	V0 - 1p0	2	20
Acetone	125	118		ug/L		94	V0 - 1p0	2	20

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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

Lab Sample ID: LCSD 480-201129/6

Matrix: Water

Analysis Batch: 201129

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
* enzene	25.0	24.4		ug/L		9V	V0 - 1p0	4	20	
* romobenzene	25.0	25.6		ug/L		102	V0 - 1p0	2	20	
* romoform	25.0	p0.5		ug/L		122	V0 - 1p0	2	20	
* romomethane	25.0	22.9		ug/L		91	V0 - 1p0	p	20	
Carbon disulfide	25.0	25.1		ug/L		100	V0 - 1p0	p	20	
Carbon tetrachloride	25.0	25.5		ug/L		102	V0 - 1p0	p	20	
Chlorobenzene	25.0	26.2		ug/L		105	V0 - 1p0	1	20	
Chlorobromomethane	25.0	25.0		ug/L		100	V0 - 1p0	4	20	
Chlorodibromomethane	25.0	28.9		ug/L		115	V0 - 1p0	1	20	
Chloroethane	25.0	22.6		ug/L		90	V0 - 1p0	6	20	
Chloroform	25.0	2p.4		ug/L		94	V0 - 1p0	5	20	
Chloromethane	25.0	20.8		ug/L		8p	V0 - 1p0	5	20	
cis-1,2-Dichloroethene	25.0	24.p		ug/L		9V	V0 - 1p0	4	20	
cis-1,p-Dichloro3ro3ene	25.0	25.5		ug/L		102	V0 - 1p0	2	20	
Dichlorobromomethane	25.0	25.0		ug/L		100	V0 - 1p0	2	20	
Dichlorodifluoromethane	25.0	16.8	7	ug/L		6V	V0 - 1p0	8	20	
Ethyl ether	25.0	25.6		ug/L		102	V0 - 1p0	2	20	
Ethylbenzene	25.0	25.1		ug/L		100	V0 - 1p0	1	20	
Ethylene Dibromide	25.0	26.0		ug/L		104	V0 - 1p0	0	20	
) exachlorobutadiene	25.0	28.0		ug/L		112	V0 - 1p0	0	20	
Iso3ro3yl ether	25.0	22.0		ug/L		88	V0 - 1p0	2	20	
Iso3ro3ylbenzene	25.0	24.2		ug/L		9V	V0 - 1p0	1	20	
Methyl tert-butyl ether	25.0	25.0		ug/L		100	V0 - 1p0	1	20	
Methylene Chloride	25.0	25.p		ug/L		101	V0 - 1p0	p	20	
m-f ylene X 3-f ylene	25.0	25.9		ug/L		104	V0 - 1p0	2	20	
Na3hthalene	25.0	24.p		ug/L		9V	V0 - 1p0	4	20	
n-* utylbenzene	25.0	24.p		ug/L		9V	V0 - 1p0	4	20	
N-Pro3ylbenzene	25.0	24.2		ug/L		9V	V0 - 1p0	p	20	
o-f ylene	25.0	25.V		ug/L		10p	V0 - 1p0	1	20	
sec-* utylbenzene	25.0	24.p		ug/L		9V	V0 - 1p0	p	20	
Styrene	25.0	25.2		ug/L		101	V0 - 1p0	1	20	
Tert-amyl methyl ether	25.0	24.V		ug/L		99	V0 - 1p0	0	20	
Tert-butyl ethyl ether	25.0	2p.p		ug/L		9p	V0 - 1p0	1	20	
tert-* utylbenzene	25.0	24.9		ug/L		100	V0 - 1p0	1	20	
Tetrachloroethene	25.0	2V.4		ug/L		109	V0 - 1p0	0	20	
Tetrahydrofuran	50.0	52.0		ug/L		104	V0 - 1p0	2	20	
Toluene	25.0	25.V		ug/L		10p	V0 - 1p0	1	20	
trans-1,2-Dichloroethene	25.0	25.1		ug/L		100	V0 - 1p0	p	20	
trans-1,p-Dichloro3ro3ene	25.0	26.6		ug/L		10V	V0 - 1p0	1	20	
Trichloroethene	25.0	25.5		ug/L		102	V0 - 1p0	2	20	
Trichlorofluoromethane	25.0	22.5		ug/L		90	V0 - 1p0	6	20	
&inyl chloride	25.0	21.2		ug/L		85	V0 - 1p0	5	20	
Dibromomethane	25.0	24.4		ug/L		9V	V0 - 1p0	1	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	3/		72 - 102
1:4-, Dchloroet ne-d5 (Surr)	30		72 - 102
5-arob ortuorof enbene (Surr)	115		72 - 102

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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

Lab Sample ID: MB 480-201180/8

Matrix: Water

Analysis Batch: 201180

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			09/0V/14 2p:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			09/0V/14 2p:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			09/0V/14 2p:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/0V/14 2p:49	1
1,1-Dichloroethane	ND		1.0		ug/L			09/0V/14 2p:49	1
1,1-Dichloroethene	ND		1.0		ug/L			09/0V/14 2p:49	1
1,1-Dichloro3ro3ene	ND		1.0		ug/L			09/0V/14 2p:49	1
1,2,p-Trichlorobenzene	ND		1.0		ug/L			09/0V/14 2p:49	1
1,2,p-Trichloro3ro3ane	ND		1.0		ug/L			09/0V/14 2p:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/0V/14 2p:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			09/0V/14 2p:49	1
1,2-Dibromo-p-Chloro3ro3ane	ND		5.0		ug/L			09/0V/14 2p:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			09/0V/14 2p:49	1
1,2-Dichloroethane	ND		1.0		ug/L			09/0V/14 2p:49	1
1,2-Dichloro3ro3ane	ND		1.0		ug/L			09/0V/14 2p:49	1
1,p,5-Trimethylbenzene	ND		1.0		ug/L			09/0V/14 2p:49	1
1,p-Dichlorobenzene	ND		1.0		ug/L			09/0V/14 2p:49	1
1,p-Dichloro3ro3ane	ND		1.0		ug/L			09/0V/14 2p:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			09/0V/14 2p:49	1
1,4-Dioxane	ND		50		ug/L			09/0V/14 2p:49	1
2,2-Dichloro3ro3ane	ND		1.0		ug/L			09/0V/14 2p:49	1
2-* utanone BME(K	ND		10		ug/L			09/0V/14 2p:49	1
2-Chlorotoluene	ND		1.0		ug/L			09/0V/14 2p:49	1
2-) exanone	ND		10		ug/L			09/0V/14 2p:49	1
4-Chlorotoluene	ND		1.0		ug/L			09/0V/14 2p:49	1
4-Iso3ro3yltoluene	ND		1.0		ug/L			09/0V/14 2p:49	1
4-Methyl-2-3entanone BMI* (K	ND		10		ug/L			09/0V/14 2p:49	1
Acetone	ND		50		ug/L			09/0V/14 2p:49	1
* enzene	ND		1.0		ug/L			09/0V/14 2p:49	1
* romobenzene	ND		1.0		ug/L			09/0V/14 2p:49	1
* romoform	ND		1.0		ug/L			09/0V/14 2p:49	1
* romomethane	ND		2.0		ug/L			09/0V/14 2p:49	1
Carbon disulfide	ND		10		ug/L			09/0V/14 2p:49	1
Carbon tetrachloride	ND		1.0		ug/L			09/0V/14 2p:49	1
Chlorobenzene	ND		1.0		ug/L			09/0V/14 2p:49	1
Chlorobromomethane	ND		1.0		ug/L			09/0V/14 2p:49	1
Chlorodibromomethane	ND		0.50		ug/L			09/0V/14 2p:49	1
Chloroethane	ND		2.0		ug/L			09/0V/14 2p:49	1
Chloroform	ND		1.0		ug/L			09/0V/14 2p:49	1
Chloromethane	ND		2.0		ug/L			09/0V/14 2p:49	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/0V/14 2p:49	1
cis-1,p-Dichloro3ro3ene	ND		0.40		ug/L			09/0V/14 2p:49	1
Dichlorobromomethane	ND		0.50		ug/L			09/0V/14 2p:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			09/0V/14 2p:49	1
Ethyl ether	ND		1.0		ug/L			09/0V/14 2p:49	1
Ethylbenzene	ND		1.0		ug/L			09/0V/14 2p:49	1
Ethylene Dibromide	ND		1.0		ug/L			09/0V/14 2p:49	1
) exachlorobutadiene	ND		0.40		ug/L			09/0V/14 2p:49	1

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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

Lab Sample ID: MB 480-201180/8

Matrix: Water

Analysis Batch: 201180

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iso3ro3yl ether	ND		10		ug/L			09/0V/14 2p:49	1
Iso3ro3ylbenzene	ND		1.0		ug/L			09/0V/14 2p:49	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/0V/14 2p:49	1
Methylene Chloride	ND		1.0		ug/L			09/0V/14 2p:49	1
m-f ylene X 3-f ylene	ND		2.0		ug/L			09/0V/14 2p:49	1
Na3hthalene	ND		5.0		ug/L			09/0V/14 2p:49	1
n-* utylbenzene	ND		1.0		ug/L			09/0V/14 2p:49	1
N-Pro3ylbenzene	ND		1.0		ug/L			09/0V/14 2p:49	1
o-f ylene	ND		1.0		ug/L			09/0V/14 2p:49	1
sec-* utylbenzene	ND		1.0		ug/L			09/0V/14 2p:49	1
Styrene	ND		1.0		ug/L			09/0V/14 2p:49	1
Tert-amyl methyl ether	ND		5.0		ug/L			09/0V/14 2p:49	1
Tert-butyl ethyl ether	ND		5.0		ug/L			09/0V/14 2p:49	1
tert-* utylbenzene	ND		1.0		ug/L			09/0V/14 2p:49	1
Tetrachloroethene	ND		1.0		ug/L			09/0V/14 2p:49	1
Tetrahydrothran	ND		10		ug/L			09/0V/14 2p:49	1
Toluene	ND		1.0		ug/L			09/0V/14 2p:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			09/0V/14 2p:49	1
trans-1,p-Dichloro3ro3ene	ND		0.40		ug/L			09/0V/14 2p:49	1
Trichloroethene	ND		1.0		ug/L			09/0V/14 2p:49	1
Trichlorofluoromethane	ND		1.0		ug/L			09/0V/14 2p:49	1
&inyl chloride	ND		1.0		ug/L			09/0V/14 2p:49	1
Dibromomethane	ND		1.0		ug/L			09/0V/14 2p:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	34		72 - 102		23&979/5 40&63	1
1,4-, Dchloroelct ne-d5 (Surr)	80		72 - 102		23&979/5 40&63	1
5-aroB ortuorof enbene (Surr)	111		72 - 102		23&979/5 40&63	1

Lab Sample ID: LCS 480-201180/5

Matrix: Water

Analysis Batch: 201180

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	28.V		ug/L		115	V0 - 1p0
1,1,1-Trichloroethane	25.0	25.5		ug/L		102	V0 - 1p0
1,1,2,2-Tetrachloroethane	25.0	24.5		ug/L		98	V0 - 1p0
1,1,2-Trichloroethane	25.0	25.2		ug/L		101	V0 - 1p0
1,1-Dichloroethane	25.0	25.V		ug/L		10p	V0 - 1p0
1,1-Dichloroethene	25.0	25.6		ug/L		102	V0 - 1p0
1,1-Dichloro3ro3ene	25.0	25.8		ug/L		10p	V0 - 1p0
1,2,p-Trichlorobenzene	25.0	24.2		ug/L		9V	V0 - 1p0
1,2,p-Trichloro3ro3ane	25.0	24.V		ug/L		99	V0 - 1p0
1,2,4-Trichlorobenzene	25.0	24.5		ug/L		98	V0 - 1p0
1,2,4-Trimethylbenzene	25.0	25.0		ug/L		100	V0 - 1p0
1,2-Dibromo-p-Chloro3ro3ane	25.0	25.2		ug/L		101	V0 - 1p0
1,2-Dichlorobenzene	25.0	24.9		ug/L		100	V0 - 1p0
1,2-Dichloroethane	25.0	2p.4		ug/L		94	V0 - 1p0

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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

Lab Sample ID: LCS 480-201180/5

Matrix: Water

Analysis Batch: 201180

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloro3ro3ane	25.0	26.p		ug/L		105	V0 - 1p0
1,p,5-Trimethylbenzene	25.0	24.8		ug/L		99	V0 - 1p0
1,p-Dichlorobenzene	25.0	25.V		ug/L		10p	V0 - 1p0
1,p-Dichloro3ro3ane	25.0	26.2		ug/L		105	V0 - 1p0
1,4-Dichlorobenzene	25.0	25.6		ug/L		102	V0 - 1p0
1,4-Dioxane	500	516		ug/L		10p	V0 - 1p0
2,2-Dichloro3ro3ane	25.0	2V.2		ug/L		109	V0 - 1p0
2-* utanone BME(K	125	1p6		ug/L		109	V0 - 1p0
2-Chlorotoluene	25.0	25.4		ug/L		102	V0 - 1p0
2-) exanone	125	1V2	7	ug/L		1pV	V0 - 1p0
4-Chlorotoluene	25.0	26.8		ug/L		10V	V0 - 1p0
4-Iso3ro3yltoluene	25.0	25.2		ug/L		101	V0 - 1p0
4-Methyl-2-3entanone BMI* (K	125	124		ug/L		99	V0 - 1p0
Acetone	125	111		ug/L		89	V0 - 1p0
* enzene	25.0	25.4		ug/L		102	V0 - 1p0
* romobenzene	25.0	25.5		ug/L		102	V0 - 1p0
* romoform	25.0	p1.0		ug/L		124	V0 - 1p0
* romomethane	25.0	2p.5		ug/L		94	V0 - 1p0
Carbon disulfide	25.0	25.p		ug/L		101	V0 - 1p0
Carbon tetrachloride	25.0	2V.0		ug/L		108	V0 - 1p0
Chlorobenzene	25.0	26.V		ug/L		10V	V0 - 1p0
Chlorobromomethane	25.0	25.8		ug/L		10p	V0 - 1p0
Chlorodibromomethane	25.0	29.2		ug/L		11V	V0 - 1p0
Chloroethane	25.0	24.0		ug/L		96	V0 - 1p0
Chloroform	25.0	24.4		ug/L		98	V0 - 1p0
Chloromethane	25.0	22.4		ug/L		89	V0 - 1p0
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	V0 - 1p0
cis-1,p-Dichloro3ro3ene	25.0	26.4		ug/L		106	V0 - 1p0
Dichlorobromomethane	25.0	25.V		ug/L		10p	V0 - 1p0
Dichlorodifluoromethane	25.0	19.6		ug/L		V9	V0 - 1p0
Ethyl ether	25.0	25.4		ug/L		102	V0 - 1p0
Ethylbenzene	25.0	25.4		ug/L		101	V0 - 1p0
Ethylene Dibromide	25.0	25.8		ug/L		10p	V0 - 1p0
) exachlorobutadiene	25.0	2V.9		ug/L		112	V0 - 1p0
Iso3ro3yl ether	25.0	21.5		ug/L		86	V0 - 1p0
Iso3ro3ylbenzene	25.0	24.1		ug/L		96	V0 - 1p0
Methyl tert-butyl ether	25.0	24.6		ug/L		98	V0 - 1p0
Methylene Chloride	25.0	26.0		ug/L		104	V0 - 1p0
m-f ylene X 3-f ylene	25.0	26.8		ug/L		10V	V0 - 1p0
Na3hthalene	25.0	22.4		ug/L		90	V0 - 1p0
n-* utylbenzene	25.0	24.V		ug/L		99	V0 - 1p0
N-Pro3ylbenzene	25.0	24.6		ug/L		98	V0 - 1p0
o-f ylene	25.0	25.8		ug/L		10p	V0 - 1p0
sec-* utylbenzene	25.0	24.6		ug/L		99	V0 - 1p0
Styrene	25.0	25.5		ug/L		102	V0 - 1p0
Tert-amyl methyl ether	25.0	24.V		ug/L		99	V0 - 1p0
Tert-butyl ethyl ether	25.0	22.5		ug/L		90	V0 - 1p0
tert-* utylbenzene	25.0	24.V		ug/L		99	V0 - 1p0

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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

Lab Sample ID: LCS 480-201180/5

Matrix: Water

Analysis Batch: 201180

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	28.V		ug/L		115	V0 - 1p0
Tetrahydrofuran	50.0	51.2		ug/L		102	V0 - 1p0
Toluene	25.0	26.1		ug/L		104	V0 - 1p0
trans-1,2-Dichloroethene	25.0	25.9		ug/L		104	V0 - 1p0
trans-1,p-Dichloro3ro3ene	25.0	26.9		ug/L		108	V0 - 1p0
Trichloroethene	25.0	26.p		ug/L		105	V0 - 1p0
Trichlorofluoromethane	25.0	24.5		ug/L		98	V0 - 1p0
Vinyl chloride	25.0	22.6		ug/L		91	V0 - 1p0
Dibromomethane	25.0	24.6		ug/L		99	V0 - 1p0

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	35		72 - 102
1,4-Dichloroethene-d5 (Surr)	88		72 - 102
5-bromofluorobenzene (Surr)	11z		72 - 102

Lab Sample ID: LCSD 480-201180/6

Matrix: Water

Analysis Batch: 201180

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	2V.5		ug/L		110	V0 - 1p0	5	20
1,1,1-Trichloroethane	25.0	2p.6		ug/L		94	V0 - 1p0	8	20
1,1,1,2-Tetrachloroethane	25.0	24.V		ug/L		99	V0 - 1p0	1	20
1,1,2-Trichloroethane	25.0	25.0		ug/L		100	V0 - 1p0	1	20
1,1-Dichloroethane	25.0	2p.9		ug/L		96	V0 - 1p0	8	20
1,1-Dichloroethene	25.0	2p.p		ug/L		9p	V0 - 1p0	9	20
1,1-Dichloro3ro3ene	25.0	24.1		ug/L		96	V0 - 1p0	V	20
1,2,p-Trichlorobenzene	25.0	24.9		ug/L		100	V0 - 1p0	p	20
1,2,p-Trichloro3ro3ane	25.0	24.1		ug/L		96	V0 - 1p0	p	20
1,2,4-Trichlorobenzene	25.0	24.8		ug/L		99	V0 - 1p0	1	20
1,2,4-Trimethylbenzene	25.0	24.0		ug/L		96	V0 - 1p0	4	20
1,2-Dibromo-p-Chloro3ro3ane	25.0	25.0		ug/L		100	V0 - 1p0	1	20
1,2-Dichlorobenzene	25.0	24.8		ug/L		99	V0 - 1p0	0	20
1,2-Dichloroethane	25.0	22.V		ug/L		91	V0 - 1p0	p	20
1,2-Dichloro3ro3ane	25.0	24.V		ug/L		99	V0 - 1p0	6	20
1,p,5-Trimethylbenzene	25.0	2p.9		ug/L		95	V0 - 1p0	4	20
1,p-Dichlorobenzene	25.0	25.1		ug/L		100	V0 - 1p0	p	20
1,p-Dichloro3ro3ane	25.0	25.6		ug/L		102	V0 - 1p0	p	20
1,4-Dichlorobenzene	25.0	24.V		ug/L		99	V0 - 1p0	p	20
1,4-Dioxane	500	49p		ug/L		99	V0 - 1p0	4	20
2,2-Dichloro3ro3ane	25.0	25.1		ug/L		100	V0 - 1p0	8	20
2-utanone BME (K	125	202	7	ug/L		162	V0 - 1p0	p9	20
2-Chlorotoluene	25.0	24.8		ug/L		99	V0 - 1p0	p	20
2-oxanone	125	1V1	7	ug/L		1pV	V0 - 1p0	0	20
4-Chlorotoluene	25.0	26.p		ug/L		105	V0 - 1p0	2	20
4-Iso3ro3yltoluene	25.0	24.1		ug/L		96	V0 - 1p0	4	20
4-Methyl-2-3entanone BMI* (K	125	12p		ug/L		98	V0 - 1p0	0	20
Acetone	125	109		ug/L		8V	V0 - 1p0	2	20

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

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

Lab Sample ID: LCSD 480-201180/6

Matrix: Water

Analysis Batch: 201180

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		
* enzene	25.0	2p.V		ug/L		95	V0 - 1p0	V		20
* romobenzene	25.0	25.2		ug/L		101	V0 - 1p0	1		20
* romoform	25.0	29.8		ug/L		119	V0 - 1p0	4		20
* romomethane	25.0	22.2		ug/L		89	V0 - 1p0	6		20
Carbon disulfide	25.0	2p.5		ug/L		94	V0 - 1p0	V		20
Carbon tetrachloride	25.0	24.V		ug/L		99	V0 - 1p0	9		20
Chlorobenzene	25.0	25.2		ug/L		101	V0 - 1p0	6		20
Chlorobromomethane	25.0	25.4		ug/L		101	V0 - 1p0	1		20
Chlorodibromomethane	25.0	28.0		ug/L		112	V0 - 1p0	4		20
Chloroethane	25.0	21.9		ug/L		88	V0 - 1p0	9		20
Chloroform	25.0	2p.0		ug/L		92	V0 - 1p0	6		20
Chloromethane	25.0	20.0		ug/L		80	V0 - 1p0	11		20
cis-1,2-Dichloroethene	25.0	24.1		ug/L		9V	V0 - 1p0	4		20
cis-1,p-Dichloro3ro3ene	25.0	25.1		ug/L		100	V0 - 1p0	5		20
Dichlorobromomethane	25.0	24.6		ug/L		98	V0 - 1p0	5		20
Dichlorodifluoromethane	25.0	1V.2	7	ug/L		69	V0 - 1p0	1p		20
Ethyl ether	25.0	24.8		ug/L		99	V0 - 1p0	2		20
Ethylbenzene	25.0	24.1		ug/L		96	V0 - 1p0	5		20
Ethylene Dibromide	25.0	25.4		ug/L		102	V0 - 1p0	2		20
) exachlorobutadiene	25.0	2V.p		ug/L		109	V0 - 1p0	2		20
Iso3ro3yl ether	25.0	20.V		ug/L		8p	V0 - 1p0	4		20
Iso3ro3ylbenzene	25.0	2p.2		ug/L		9p	V0 - 1p0	4		20
Methyl tert-butyl ether	25.0	24.4		ug/L		9V	V0 - 1p0	1		20
Methylene Chloride	25.0	24.V		ug/L		99	V0 - 1p0	5		20
m-f ylene X 3-f ylene	25.0	25.0		ug/L		100	V0 - 1p0	V		20
Na3hthalene	25.0	2p.9		ug/L		95	V0 - 1p0	6		20
n-* utylbenzene	25.0	2p.8		ug/L		95	V0 - 1p0	4		20
N-Pro3ylbenzene	25.0	2p.4		ug/L		94	V0 - 1p0	5		20
o-f ylene	25.0	24.V		ug/L		99	V0 - 1p0	4		20
sec-* utylbenzene	25.0	2p.V		ug/L		95	V0 - 1p0	4		20
Styrene	25.0	24.5		ug/L		98	V0 - 1p0	4		20
Tert-amyl methyl ether	25.0	24.p		ug/L		9V	V0 - 1p0	2		20
Tert-butyl ethyl ether	25.0	22.0		ug/L		88	V0 - 1p0	2		20
tert-* utylbenzene	25.0	2p.5		ug/L		94	V0 - 1p0	5		20
Tetrachloroethene	25.0	26.4		ug/L		106	V0 - 1p0	8		20
Tetrahydrofuran	50.0	51.0		ug/L		102	V0 - 1p0	0		20
Toluene	25.0	24.8		ug/L		99	V0 - 1p0	5		20
trans-1,2-Dichloroethene	25.0	24.p		ug/L		9V	V0 - 1p0	6		20
trans-1,p-Dichloro3ro3ene	25.0	25.9		ug/L		104	V0 - 1p0	4		20
Trichloroethene	25.0	24.p		ug/L		9V	V0 - 1p0	8		20
Trichlorofluoromethane	25.0	22.p		ug/L		89	V0 - 1p0	9		20
&inyl chloride	25.0	20.5		ug/L		82	V0 - 1p0	10		20
Dibromomethane	25.0	24.1		ug/L		96	V0 - 1p0	2		20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	35		72 - 102
1:4-, Dchloroet ne-d5 (Surr)	88		72 - 102
5-arob ortuorof enbene (Surr)	117		72 - 102

TestAmerica * uHalo

QC Association Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

GC/MS VOA

Analysis Batch: 200987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66696-1	TB-001-20140904-01	Total/NA	Water	8260C	
480-66696-2	MW-217D-20140904-01	Total/NA	Water	8260C	
480-66696-3	MW-217M-20140904-01	Total/NA	Water	8260C	
480-66696-4	MW-217S-20140904-01	Total/NA	Water	8260C	
480-66696-5	MW-1024D-20140904-01	Total/NA	Water	8260C	
LCS 480-200987/4	Lab Control Sample	Total/NA	Water	8260C	
LCS D 480-200987/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-200987/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 201080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66696-7	MW-1025D-20140904-01	Total/NA	Water	8260C	
480-66696-8	MW-1019B-20140904-01	Total/NA	Water	8260C	
480-66696-9	MW-1020-20140904-01	Total/NA	Water	8260C	
480-66696-11	MW-1017D-20140904-01	Total/NA	Water	8260C	
480-66696-12	MW-1015D-20140904-01	Total/NA	Water	8260C	
480-66696-13	MW-1033-20140904-01	Total/NA	Water	8260C	
480-66696-14	MW-1027-20140904-01	Total/NA	Water	8260C	
480-66696-15	MW-1028-20140904-01	Total/NA	Water	8260C	
480-66696-16	MW-1030-20140904-01	Total/NA	Water	8260C	
LCS 480-201080/5	Lab Control Sample	Total/NA	Water	8260C	
LCS D 480-201080/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-201080/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 201129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66696-6	MW-1025M-20140904-01	Total/NA	Water	8260C	
480-66696-10	MW-1018-20140904-01	Total/NA	Water	8260C	
480-66696-11 - DL	MW-1017D-20140904-01	Total/NA	Water	8260C	
480-66696-17	MW-1031-20140904-01	Total/NA	Water	8260C	
480-66696-18	MW-1032-20140904-01	Total/NA	Water	8260C	
480-66696-19	MW-1022-20140904-01	Total/NA	Water	8260C	
480-66696-20	MW-1023-20140904-01	Total/NA	Water	8260C	
480-66696-21	MW-1013-20140904-01	Total/NA	Water	8260C	
480-66696-22	MW-1034-20140904-01	Total/NA	Water	8260C	
480-66696-23	DUP-004-20140904-01	Total/NA	Water	8260C	
480-66696-24	DUP-003-20140904-01	Total/NA	Water	8260C	
480-66696-25	MW-1001M-20140904-01	Total/NA	Water	8260C	
480-66696-26	MW-1001B-20140904-01	Total/NA	Water	8260C	
480-66696-27	MW-1003-20140904-01	Total/NA	Water	8260C	
480-66696-28	MW-1004-20140904-01	Total/NA	Water	8260C	
480-66696-29	MW-1005-20140904-01	Total/NA	Water	8260C	
480-66696-30	MW-1006-20140904-01	Total/NA	Water	8260C	
LCS 480-201129/5	Lab Control Sample	Total/NA	Water	8260C	
LCS D 480-201129/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-201129/8	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 201180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66696-31	MW-1008-20140904-01	Total/NA	Water	8260C	
480-66696-32	MW-1010M-20140904-01	Total/NA	Water	8260C	

TestAmerica Buffalo

QC Association Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

GC/MS VOA (Continued)

Analysis Batch: 201180 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-66696-33	MW-1010D-20140904-02	Total/NA	Water	8260C	
480-66696-34	MW-1011-20140904-01	Total/NA	Water	8260C	
480-66696-35	MW-1016D-20140904-01	Total/NA	Water	8260C	
480-66696-36	MW-1009-20140904-01	Total/NA	Water	8260C	
480-66696-37	DUP-001-20140904-01	Total/NA	Water	8260C	
480-66696-38	DUP-002-20140904-01	Total/NA	Water	8260C	
480-66696-39	SEN-3-20140904-01	Total/NA	Water	8260C	
480-66696-40	SEN-2M-20140904-01	Total/NA	Water	8260C	
480-66696-41	SEN-2D-20140904-01	Total/NA	Water	8260C	
LCS 480-201180/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-201180/6	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 480-201180/8	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: TB-001-20140904-01

Lab Sample ID: 480-66696-1

Date Collected: 09/04/14 11:11

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	200987	09/05/14 16:41	GTG	TAL BUF

Client Sample ID: MW-217D-20140904-01

Lab Sample ID: 480-66696-2

Date Collected: 09/04/14 11:35

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	200987	09/05/14 17:05	GTG	TAL BUF

Client Sample ID: MW-217M-20140904-01

Lab Sample ID: 480-66696-3

Date Collected: 09/04/14 11:25

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	200987	09/05/14 17:28	GTG	TAL BUF

Client Sample ID: MW-217S-20140904-01

Lab Sample ID: 480-66696-4

Date Collected: 09/04/14 11:15

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	200987	09/05/14 17:53	GTG	TAL BUF

Client Sample ID: MW-1024D-20140904-01

Lab Sample ID: 480-66696-5

Date Collected: 09/04/14 09:50

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	200987	09/05/14 18:16	GTG	TAL BUF

Client Sample ID: MW-1025M-20140904-01

Lab Sample ID: 480-66696-6

Date Collected: 09/04/14 09:20

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201129	09/06/14 14:35	GTG	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1025D-20140904-01

Lab Sample ID: 480-66696-7

Date Collected: 09/04/14 09:00

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201080	09/06/14 03:44	CXM	TAL BUF

Client Sample ID: MW-1019B-20140904-01

Lab Sample ID: 480-66696-8

Date Collected: 09/04/14 08:50

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201080	09/06/14 04:10	CXM	TAL BUF

Client Sample ID: MW-1020-20140904-01

Lab Sample ID: 480-66696-9

Date Collected: 09/04/14 08:20

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201080	09/06/14 04:36	CXM	TAL BUF

Client Sample ID: MW-1018-20140904-01

Lab Sample ID: 480-66696-10

Date Collected: 09/04/14 10:45

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201129	09/06/14 15:00	GTG	TAL BUF

Client Sample ID: MW-1017D-20140904-01

Lab Sample ID: 480-66696-11

Date Collected: 09/04/14 10:30

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201080	09/06/14 05:27	CXM	TAL BUF
Total/NA	Analysis	8260C	DL	2	201129	09/06/14 15:26	GTG	TAL BUF

Client Sample ID: MW-1015D-20140904-01

Lab Sample ID: 480-66696-12

Date Collected: 09/04/14 10:10

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201080	09/06/14 05:52	CXM	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1033-20140904-01

Lab Sample ID: 480-66696-13

Date Collected: 09/04/14 08:50

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201080	09/06/14 06:18	CXM	TAL BUF

Client Sample ID: MW-1027-20140904-01

Lab Sample ID: 480-66696-14

Date Collected: 09/04/14 09:25

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201080	09/06/14 06:43	CXM	TAL BUF

Client Sample ID: MW-1028-20140904-01

Lab Sample ID: 480-66696-15

Date Collected: 09/04/14 09:10

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201080	09/06/14 07:08	CXM	TAL BUF

Client Sample ID: MW-1030-20140904-01

Lab Sample ID: 480-66696-16

Date Collected: 09/04/14 09:50

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201080	09/06/14 07:34	CXM	TAL BUF

Client Sample ID: MW-1031-20140904-01

Lab Sample ID: 480-66696-17

Date Collected: 09/04/14 10:10

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201129	09/06/14 15:52	GTG	TAL BUF

Client Sample ID: MW-1032-20140904-01

Lab Sample ID: 480-66696-18

Date Collected: 09/04/14 10:25

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201129	09/06/14 16:17	GTG	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1022-20140904-01

Lab Sample ID: 480-66696-19

Date Collected: 09/04/14 11:00

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201129	09/06/14 16:43	GTG	TAL BUF

Client Sample ID: MW-1023-20140904-01

Lab Sample ID: 480-66696-20

Date Collected: 09/04/14 10:40

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201129	09/06/14 17:09	GTG	TAL BUF

Client Sample ID: MW-1013-20140904-01

Lab Sample ID: 480-66696-21

Date Collected: 09/04/14 10:50

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201129	09/06/14 17:35	GTG	TAL BUF

Client Sample ID: MW-1034-20140904-01

Lab Sample ID: 480-66696-22

Date Collected: 09/04/14 11:30

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201129	09/06/14 18:00	GTG	TAL BUF

Client Sample ID: DUP-004-20140904-01

Lab Sample ID: 480-66696-23

Date Collected: 09/04/14 11:11

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201129	09/06/14 18:26	GTG	TAL BUF

Client Sample ID: DUP-003-20140904-01

Lab Sample ID: 480-66696-24

Date Collected: 09/04/14 11:11

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201129	09/06/14 18:51	GTG	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1001M-20140904-01

Lab Sample ID: 480-66696-25

Date Collected: 09/04/14 13:25

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201129	09/06/14 19:17	GTG	TAL BUF

Client Sample ID: MW-1001B-20140904-01

Lab Sample ID: 480-66696-26

Date Collected: 09/04/14 09:00

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201129	09/06/14 19:42	GTG	TAL BUF

Client Sample ID: MW-1003-20140904-01

Lab Sample ID: 480-66696-27

Date Collected: 09/04/14 08:50

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201129	09/06/14 20:08	GTG	TAL BUF

Client Sample ID: MW-1004-20140904-01

Lab Sample ID: 480-66696-28

Date Collected: 09/04/14 08:45

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201129	09/06/14 20:33	GTG	TAL BUF

Client Sample ID: MW-1005-20140904-01

Lab Sample ID: 480-66696-29

Date Collected: 09/04/14 09:45

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201129	09/06/14 20:58	GTG	TAL BUF

Client Sample ID: MW-1006-20140904-01

Lab Sample ID: 480-66696-30

Date Collected: 09/04/14 09:25

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201129	09/06/14 21:24	GTG	TAL BUF

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: MW-1008-20140904-01

Lab Sample ID: 480-66696-31

Date Collected: 09/04/14 09:35

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201180	09/08/14 00:51	CXM	TAL BUF

Client Sample ID: MW-1010M-20140904-01

Lab Sample ID: 480-66696-32

Date Collected: 09/04/14 12:45

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201180	09/08/14 01:17	CXM	TAL BUF

Client Sample ID: MW-1010D-20140904-02

Lab Sample ID: 480-66696-33

Date Collected: 09/04/14 12:45

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201180	09/08/14 01:42	CXM	TAL BUF

Client Sample ID: MW-1011-20140904-01

Lab Sample ID: 480-66696-34

Date Collected: 09/04/14 10:00

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201180	09/08/14 02:08	CXM	TAL BUF

Client Sample ID: MW-1016D-20140904-01

Lab Sample ID: 480-66696-35

Date Collected: 09/04/14 13:00

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201180	09/08/14 02:33	CXM	TAL BUF

Client Sample ID: MW-1009-20140904-01

Lab Sample ID: 480-66696-36

Date Collected: 09/04/14 13:15

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201180	09/08/14 02:59	CXM	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Client Sample ID: DUP-001-20140904-01

Lab Sample ID: 480-66696-37

Date Collected: 09/04/14 11:11

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201180	09/08/14 03:25	CXM	TAL BUF

Client Sample ID: DUP-002-20140904-01

Lab Sample ID: 480-66696-38

Date Collected: 09/04/14 12:12

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201180	09/08/14 03:50	CXM	TAL BUF

Client Sample ID: SEN-3-20140904-01

Lab Sample ID: 480-66696-39

Date Collected: 09/04/14 12:50

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201180	09/08/14 04:15	CXM	TAL BUF

Client Sample ID: SEN-2M-20140904-01

Lab Sample ID: 480-66696-40

Date Collected: 09/04/14 13:05

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201180	09/08/14 04:40	CXM	TAL BUF

Client Sample ID: SEN-2D-20140904-01

Lab Sample ID: 480-66696-41

Date Collected: 09/04/14 13:00

Matrix: Water

Date Received: 09/05/14 00:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	201180	09/08/14 05:06	CXM	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: ERM-Northeast
 Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-15
California	State Program	9	1169CA	09-30-14 *
Connecticut	State Program	1	PH-0568	09-30-14 *
Florida	NELAP	4	E87672	06-30-15
Georgia	State Program	4	N/A	03-31-15
Illinois	NELAP	5	200003	09-30-14 *
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	01-31-15
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	03-31-15
Louisiana	NELAP	6	02031	06-30-14 *
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-15
Massachusetts	State Program	1	M-NY044	06-30-15
Michigan	State Program	5	9937	03-31-15
Minnesota	NELAP	5	036-999-337	12-31-14
New Hampshire	NELAP	1	2337	11-17-14
New Jersey	NELAP	2	NY455	06-30-15
New York	NELAP	2	10026	03-31-15
North Dakota	State Program	8	R-176	03-31-14 *
Oklahoma	State Program	6	9421	08-31-15
Oregon	NELAP	10	NY200003	06-09-15
Pennsylvania	NELAP	3	68-00281	07-31-15
Rhode Island	State Program	1	LAO00328	12-30-14
Tennessee	State Program	4	TN02970	03-31-15
Texas	NELAP	6	T104704412-11-2	07-31-15
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14 *
Washington	State Program	10	C784	02-10-15
West Virginia DEP	State Program	3	252	09-30-14 *
Wisconsin	State Program	5	998310390	08-31-15

* Certification renewal pending - certification considered valid.



Method Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF

Protocol References:

MA DEP = Massachusetts Department Of Environmental Protection

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Sample Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

TestAmerica Job ID: 480-66696-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-66696-1	TB-001-20140904-01	Water	09/04/14 11:11	09/05/14 00:30
480-66696-2	MW-217D-20140904-01	Water	09/04/14 11:35	09/05/14 00:30
480-66696-3	MW-217M-20140904-01	Water	09/04/14 11:25	09/05/14 00:30
480-66696-4	MW-217S-20140904-01	Water	09/04/14 11:15	09/05/14 00:30
480-66696-5	MW-1024D-20140904-01	Water	09/04/14 09:50	09/05/14 00:30
480-66696-6	MW-1025M-20140904-01	Water	09/04/14 09:20	09/05/14 00:30
480-66696-7	MW-1025D-20140904-01	Water	09/04/14 09:00	09/05/14 00:30
480-66696-8	MW-1019B-20140904-01	Water	09/04/14 08:50	09/05/14 00:30
480-66696-9	MW-1020-20140904-01	Water	09/04/14 08:20	09/05/14 00:30
480-66696-10	MW-1018-20140904-01	Water	09/04/14 10:45	09/05/14 00:30
480-66696-11	MW-1017D-20140904-01	Water	09/04/14 10:30	09/05/14 00:30
480-66696-12	MW-1015D-20140904-01	Water	09/04/14 10:10	09/05/14 00:30
480-66696-13	MW-1033-20140904-01	Water	09/04/14 08:50	09/05/14 00:30
480-66696-14	MW-1027-20140904-01	Water	09/04/14 09:25	09/05/14 00:30
480-66696-15	MW-1028-20140904-01	Water	09/04/14 09:10	09/05/14 00:30
480-66696-16	MW-1030-20140904-01	Water	09/04/14 09:50	09/05/14 00:30
480-66696-17	MW-1031-20140904-01	Water	09/04/14 10:10	09/05/14 00:30
480-66696-18	MW-1032-20140904-01	Water	09/04/14 10:25	09/05/14 00:30
480-66696-19	MW-1022-20140904-01	Water	09/04/14 11:00	09/05/14 00:30
480-66696-20	MW-1023-20140904-01	Water	09/04/14 10:40	09/05/14 00:30
480-66696-21	MW-1013-20140904-01	Water	09/04/14 10:50	09/05/14 00:30
480-66696-22	MW-1034-20140904-01	Water	09/04/14 11:30	09/05/14 00:30
480-66696-23	DUP-004-20140904-01	Water	09/04/14 11:11	09/05/14 00:30
480-66696-24	DUP-003-20140904-01	Water	09/04/14 11:11	09/05/14 00:30
480-66696-25	MW-1001M-20140904-01	Water	09/04/14 13:25	09/05/14 00:30
480-66696-26	MW-1001B-20140904-01	Water	09/04/14 09:00	09/05/14 00:30
480-66696-27	MW-1003-20140904-01	Water	09/04/14 08:50	09/05/14 00:30
480-66696-28	MW-1004-20140904-01	Water	09/04/14 08:45	09/05/14 00:30
480-66696-29	MW-1005-20140904-01	Water	09/04/14 09:45	09/05/14 00:30
480-66696-30	MW-1006-20140904-01	Water	09/04/14 09:25	09/05/14 00:30
480-66696-31	MW-1008-20140904-01	Water	09/04/14 09:35	09/05/14 00:30
480-66696-32	MW-1010M-20140904-01	Water	09/04/14 12:45	09/05/14 00:30
480-66696-33	MW-1010D-20140904-02	Water	09/04/14 12:45	09/05/14 00:30
480-66696-34	MW-1011-20140904-01	Water	09/04/14 10:00	09/05/14 00:30
480-66696-35	MW-1016D-20140904-01	Water	09/04/14 13:00	09/05/14 00:30
480-66696-36	MW-1009-20140904-01	Water	09/04/14 13:15	09/05/14 00:30
480-66696-37	DUP-001-20140904-01	Water	09/04/14 11:11	09/05/14 00:30
480-66696-38	DUP-002-20140904-01	Water	09/04/14 12:12	09/05/14 00:30
480-66696-39	SEN-3-20140904-01	Water	09/04/14 12:50	09/05/14 00:30
480-66696-40	SEN-2M-20140904-01	Water	09/04/14 13:05	09/05/14 00:30
480-66696-41	SEN-2D-20140904-01	Water	09/04/14 13:00	09/05/14 00:30

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-66696-1

Login Number: 66696

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kolb, Chris M

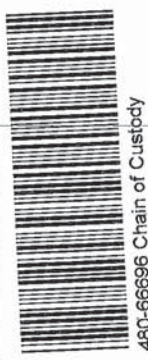
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	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.	True	
Chlorine Residual checked.	N/A	

Regulatory Program: DW NPDES RCRA Other:

Client Contact: **ERM**
 Your Company Name here: **ERM**
 Address: **One Beacon**
 City/State/Zip: **Boston MA**
 Phone: **617 646 7800**
 FAX:
 Project Name: **FD's Wayland**
 Site:
 P O #

Project Manager: **Lynsey Colburn**
 Tel/Fax: **617 646 7800**
 Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
 TAT if different from Below
 2 weeks
 1 week
 2 days
 1 day

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Carrier:	Date:	COC No.:
TB-001-20140904-01	9/4/14	1111	G	GW	3	N	X	SW		1 of 4 COCs
MW-217D-20140904-01	9/4/14	1135	G	GW	3	N	X			
MW-217M-20140904-01	9/4/14	1125	G	GW	3	N	X			
MW-217S-20140904-01	9/4/14	1115	G	GW	3	N	X			
MW-1024D-20140904-01	9/4/14	0950	G	GW	3	N	X			
MW-1025M-20140904-01	9/4/14	0920	G	GW	3	N	X			
MW-1025D-20140904-01	9/4/14	0900	G	GW	3	N	X			
MW-1019B-20140904-01	9/4/14	0860	G	GW	3	N	X			
MW-1020-20140904-01	9/4/14	0820	G	GW	3	N	X			
MW-1018-20140904-01	9/4/14	1045	G	GW	3	N	X			
MW-1017D-20140904-01	9/4/14	1030	G	GW	3	N	X			
MW-1015D-20140904-01	9/4/14	1010	G	GW	3	N	X			



Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return to Client Disposal by Lab Archive for _____ Months

Possible Hazard Identification: Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:
 Contact Larry Mastera at ~~508-542-3685~~ if there are any questions.

Relinquished by: **[Signature]** Date/Time: **9/4/14 1430**
 Relinquished by: **[Signature]** Date/Time: **9/4/14 1430**
 Relinquished by: **[Signature]** Date/Time: **9/5/14 0030**

Custody Seal No.: **ERM** Company: **ERM** Received by: **[Signature]** Date/Time: **9/4/14 1430**
 Company: **ERM** Received by: **[Signature]** Date/Time: **9/4/14 1600**
 Company: **ERM** Received by: **[Signature]** Date/Time: **9/5/14 0030**



Westfield, MA 01085
phone 413.572.4000 fax

TestAmerica Laboratories, Inc.

Regulatory Program: DW NPDES RCRA Other:

Your Company Name here ERM		Client Contact		Project Manager: Sydney Chou		Site Contact:		Date:	
Address One Beacon		City/State/Zip Boston MA 02108		Phone 1617 646 7800		FAX		Carrier:	
Project Name: IDS Wayland		Site:		P O #		Analysis Turnaround Time		COC No: 2 of 9 COCs	
						<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Sampler: For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:	
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes:
MW-1033-20140904-01	9/4/14	850	G	GW	3	N	X		
MW-1027-20140904-01	9/4/14	925	G	GW	3	N	X		
MW-1028-20140904-01	9/4/14	910	G	GW	3	N	X		
MW-1030-20140904-01	9/4/14	950	G	GW	3	N	X		
MW-1031-20140904-01	9/4/14	1010	G	GW	3	N	X		
MW-1032-20140904-01	9/4/14	1025	G	GW	3	N	X		
MW-1022-20140904-01	9/4/14	1160	G	GW	3	N	X		
MW-1023-20140904-01	9/4/14	1040	G	GW	3	N	X		
MW-1013-20140904-01	9/4/14	1050	G	GW	3	N	X		
MW-1034-20140904-01	9/4/14	1130	G	GW	3	N	X		
DUP-004-20140904-01	9/4/14	1111	G	GW	3	N	X		
DUP-003-20140904-01	9/4/14	1111	G	GW	3	N	X		
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other									
Possible Hazard Identification: Are any samples from a listed EPA-Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.									
Special Instructions/QC Requirements & Comments:									
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temp. (°C):		Obs'd: 50		Corr'd: 50	
Relinquished by: [Signature]		Company: ERM		Received by: [Signature]		Company: TAC		Date/Time: 9/4/14 1430	
Relinquished by: [Signature]		Company: TAC		Received by: [Signature]		Company: TAC		Date/Time: 9/4/14 1430	
Relinquished by: [Signature]		Company: TAC		Received in Laboratory by: [Signature]		Company: TAC		Date/Time: 9/5/14 0830	



Westfield, MA 01085
phone 413.572.4000 fax

Regulatory Program: DW NPDES RCRA Other:

TestAmerica Laboratories, Inc.

Your Company Name here Address City/State/Zip Phone FAX Project Name: Site: P O #		Client Contact ERM 103 WAYLAND		Project Manager: LYNDSON COUBON Tel/Fax:		Site Contact: Lab Contact:		Date: Carrier:		COC No: 3 of 4 COCs	
Analysis Turnaround Time <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS TAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		ERM CORP COUBON		Perform MS/MSD (Y/N)		Filtered Sample (Y/N)		Sampler:		For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)		Matrix		# of Cont.	
MW-1001M-20140904-01		09/04/1300		G		GW		3			
MW-1001B-20140904-01		0900									
MW-1003-20140904-01		0850									
MW-1004-20140904-01		0845									
MW-1005-20140904-01		0945									
MW-1006-20140904-01		0925									
MW-1008-20140904-01		0935									
MW-1010M-20140904-01		1245									
MW-1010D-20140904-01		1245									
MW-1011-20140904-01		1000									
MW-1016D-20140904-01		1300									
MW-1009-20140904-01		1315									
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other											
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.											
<input type="checkbox"/> Non-Hazardous <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months											
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Requisitioned by: [Signature]		Company: ERM		Custody Seal No.:		Received by: [Signature]		Company: ITC	
Requisitioned by: [Signature]		Date/Time: 9/14/13		Date/Time: 9/14/13		Date/Time: 9/14/13		Date/Time: 9/14/13		Date/Time: 9/15/14	
Requisitioned by: [Signature]		Date/Time: 9/14/13		Date/Time: 9/14/13		Date/Time: 9/14/13		Date/Time: 9/14/13		Date/Time: 9/15/14	
Requisitioned by: [Signature]		Date/Time: 9/14/13		Date/Time: 9/14/13		Date/Time: 9/14/13		Date/Time: 9/14/13		Date/Time: 9/15/14	



Client Information:		COC No: 30615	
Client Contact: ERM	Lab PM:	Page: 4 of 4	Job #:
Company: ERM	Lab PM's E-Mail:	Carrier Tracking No(s):	
Address:	Sample Collector's Name (Please Print Neatly):	Analyses Requested	
City:	Sample Collector's Phone:	Preservation Codes: A - Hydrochloric Acid B - Sodium Hydroxide C - Zinc Acetate D - Nitric Acid E - Sodium Bisulfite F - Methanol H - Ascorbic Acid Z - other (specify):	
State and Zip:	Quote #:	Regulatory Programs: MCP <input type="checkbox"/> GW/IS1 <input type="checkbox"/> RCP <input type="checkbox"/> CT RSR <input type="checkbox"/> DEP Form <input type="checkbox"/> EDD Required <input type="checkbox"/> eDEP Filing <input type="checkbox"/> NPDES <input type="checkbox"/>	
Client's Phone:	PO #:	SUBCONTRACT POLICY: advance to permit Test-America to use certified, unless you provide instructions to the contrary, or specify which sub-contract labs are or are not to be used, you agree in your work order.	
Client's Contact Email:	WO #:	Special Instructions & Notes:	
Client's Project Name/Number: IDS WAYLAND	SSOW#:	Total Number of Containers (per line)	
Sample Collection Site Name & Location:			
Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hr Clock)	Sample Type: C=Comp G=Grab
DUP-001 - 20140904-01	09/09/14 11:11		GW
DUP-002 - 20140904-01	12/2		
SEN-3-20140904-01	12:50		
SEN-2M-20140904-01	13:05		
SEN-2D-20140904-01	13:00		
Was the Sample Field Filtered? (Y/N) <input checked="" type="checkbox"/>	Perform MS/MSD on This Sampler? (Y/N) <input checked="" type="checkbox"/>	Total Number of Containers (per line)	
PWS ID Number:		3	
Turnaround Time (TAT) Requested (business days):		1	

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: **ERM** Date/Time: **9/9/14 1430** Company: **ERM**
 Relinquished by: **ERM** Date/Time: **9/9/14 1430** Company: **ERM**
 Relinquished by: **ERM** Date/Time: **9/9/14 1600** Company: **ERM**

Custody Seals Intact: Yes No Custody Seal No.: **3.0 #**

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: 480-67875-1
Client Project/Site: IDS Wayland

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

Attn: Vicki Pariyar



Authorized for release by:
10/6/2014 3:47:43 PM

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

29 samples were collected from wells located within portion of Koffler Group, Inc. property. All other sample results are grayed out for ease of review

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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

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

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

- 1
- 2
- 3
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Definitions/Glossary

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

TestAmerica Job ID: 480-67875-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
*	RPD of the LCS and LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

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

TestAmerica Job ID: 480-67875-1

Job ID: 480-67875-1

Laboratory: TestAmerica Buffalo

Narrative

Receipt

The samples were received on 9/24/2014 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 3.2° C and 4.0° C.

The following sample was received with two vials ,out of three, having headspace: MW-264M-20140921 (480-67875-5), (vials B&C), the following samples were received with a single vial, out of three, having headspace: MW-266Mb-20140920 (480-67875-10), (vial A), MW-268D-20140920 (480-67875-15) (vial C), REW-8-20140922 (480-67875-29) (vial A) and DUP1-20140920 (480-67875-34), (vial A).

GC/MS VOA

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

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 194457 recovered outside control limits for the following analytes: 1,4-Dioxane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: Massachusetts response factor requirements in batch 194717 were not met for the following analytes: 1,4-dioxane and tetrahydrofuran.

Method 8260C: Massachusetts response factor requirements in batch 194871 were not met for the following analytes: 1,4-dioxane and tetrahydrofuran.

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for batch 194754 recovered outside control limits for the following analytes: 1,4-Dioxane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 195033 recovered outside control limits for the following analytes: 1,4-Dioxane.

Method 8260C: Massachusetts response factor requirements in batch 195081 were not met for the following analytes: 1,4-dioxane, acetone, and tetrahydrofuran.

Method 8260C: Massachusetts response factor requirements in batch 195227 were not met for the following analytes: 1,4-dioxane, acetone, 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

Method 522 MOD: Surrogate recovery for the following sample was outside control limits: (480-67875-7), MW-265M-20140923 (480-67875-7). The sample was re-analyzed at a dilution for matrix interference, but still had matrix interference and surrogate recovery outside control limits. Because evidence of matrix interference is present, re-extraction was not performed. The original, undiluted, analysis is reported.

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

Organic Prep

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

VOA Prep

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

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-67875-1**

Project Location: **Wayland** RTN:

This form provides certifications for the data set for the following Laboratory Sample ID Number(s):
480-67875-1[1-37]

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

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

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

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ¹
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Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350

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

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

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

Signature:  Position: Project Manager
 Printed Name: Becky Mason Date: 10/6/14 15:44

This form has been electronically signed and approved

Detection Summary

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-261S-20140923

Lab Sample ID: 480-67875-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	130		25		ug/L	1		8260C	Total/NA
Ethylbenzene	6.8		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	25		2.0		ug/L	1		8260C	Total/NA
o-Xylene	5.5		1.0		ug/L	1		8260C	Total/NA
Tetrahydrofuran	15		10		ug/L	1		8260C	Total/NA
Toluene	28		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	1.1		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	2.8		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-265S-20140920

Lab Sample ID: 480-67875-6

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
Toluene	1.7		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-265M-20140923

Lab Sample ID: 480-67875-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	240		50		ug/L	1		8260C	Total/NA
Acetone	1000		25		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	6.5		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	3.4		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	13		2.0		ug/L	1		8260C	Total/NA
o-Xylene	3.5		1.0		ug/L	1		8260C	Total/NA
Tetrahydrofuran	35		10		ug/L	1		8260C	Total/NA
Toluene	14		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.8		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	2.3		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	3.3		0.20		ug/L	1		522 MOD	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: 480-67875-1

Client Sample ID: MW-265D-20140920

Lab Sample ID: 480-67875-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	33		25		ug/L	1		8260C	Total/NA

Client Sample ID: MW-266Ma-20140920

Lab Sample ID: 480-67875-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	15		1.0		ug/L	1		8260C	Total/NA
Toluene	16		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.8		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	3.5		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	2.6		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-266Mb-20140920

Lab Sample ID: 480-67875-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	67		25		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	81		1.0		ug/L	1		8260C	Total/NA
Tetrachloroethene	3.1		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	2.3		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	8.2		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	69		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-267S-20140920

Lab Sample ID: 480-67875-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	170		50		ug/L	1		8260C	Total/NA
Acetone	38		25		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	240		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	2.0		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	8.2		2.0		ug/L	1		8260C	Total/NA
o-Xylene	2.2		1.0		ug/L	1		8260C	Total/NA
Toluene	220		10		ug/L	10		8260C	Total/NA
trans-1,2-Dichloroethene	2.6		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	16		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	5.4		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-267M-20140920

Lab Sample ID: 480-67875-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	190		50		ug/L	1		8260C	Total/NA
Acetone	34		25		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	91		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	3.1		2.0		ug/L	1		8260C	Total/NA
Toluene	45		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.2		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	83		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	3.7		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-268S-20140923

Lab Sample ID: 480-67875-13

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: 480-67875-1

Client Sample ID: MW-268S-20140923 (Continued)

Lab Sample ID: 480-67875-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	28		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	41		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	2.4		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	3.6		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-268M-20140923

Lab Sample ID: 480-67875-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	6.8		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	2.2		1.0		ug/L	1		8260C	Total/NA
Acetone	73		25		ug/L	1		8260C	Total/NA
Benzene	3.1		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1700		20		ug/L	20		8260C	Total/NA
o-Xylene	1.2		1.0		ug/L	1		8260C	Total/NA
Toluene	6.1		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	13		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	15		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	150		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	21		0.50		ug/L	2.5		522 MOD	Total/NA

Client Sample ID: MW-268D-20140920

Lab Sample ID: 480-67875-15

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
Toluene	2.1		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	1.5		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-269Ma-20140920

Lab Sample ID: 480-67875-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.6		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	2.4		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	1.4		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-551-20140920

Lab Sample ID: 480-67875-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	520		25		ug/L	1		8260C	Total/NA
Ethylbenzene	3.9		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	12		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.6		1.0		ug/L	1		8260C	Total/NA
Toluene	11		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	2.2		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-552-20140923

Lab Sample ID: 480-67875-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	230		50		ug/L	1		8260C	Total/NA
Acetone	10000		500		ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	2.7		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: 480-67875-1

Client Sample ID: MW-552-20140923 (Continued)

Lab Sample ID: 480-67875-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	4.1		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	15		2.0		ug/L	1		8260C	Total/NA
o-Xylene	4.2		1.0		ug/L	1		8260C	Total/NA
Toluene	14		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	3.2		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: MW-553-20140922

Lab Sample ID: 480-67875-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	37		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	6.1		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	27		2.0		ug/L	1		8260C	Total/NA
o-Xylene	5.3		1.0		ug/L	1		8260C	Total/NA
Toluene	15		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.7		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	46		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-560-20140922

Lab Sample ID: 480-67875-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	130		50		ug/L	1		8260C	Total/NA
Acetone	32		25		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	35		1.0		ug/L	1		8260C	Total/NA
Toluene	22		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.1		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	35		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-561-20140922

Lab Sample ID: 480-67875-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	130		50		ug/L	1		8260C	Total/NA
Ethylbenzene	6.8		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	29		2.0		ug/L	1		8260C	Total/NA
o-Xylene	6.7		1.0		ug/L	1		8260C	Total/NA
Toluene	210		5.0		ug/L	5		8260C	Total/NA
Vinyl chloride	64		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-562-20140922

Lab Sample ID: 480-67875-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	180		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	59		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	2.1		2.0		ug/L	1		8260C	Total/NA
Toluene	38		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	1.4		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	52		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-563-20140922

Lab Sample ID: 480-67875-23

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: 480-67875-1

Client Sample ID: MW-563-20140922 (Continued)

Lab Sample ID: 480-67875-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	110		50		ug/L	1		8260C	Total/NA
Acetone	62		25		ug/L	1		8260C	Total/NA
Chloroethane	1.4		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	37		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	4.1		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.0		1.0		ug/L	1		8260C	Total/NA
Toluene	32		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	26		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-1-20140923

Lab Sample ID: 480-67875-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	52		25		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.1		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.5		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	4.4		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.6		1.0		ug/L	1		8260C	Total/NA
Tetrahydrofuran	17		10		ug/L	1		8260C	Total/NA

Client Sample ID: REW-4-20140923

Lab Sample ID: 480-67875-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1.3		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-5-20140923

Lab Sample ID: 480-67875-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.8		1.0		ug/L	1		8260C	Total/NA
Toluene	1.1		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	1.0		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-6-20140922

Lab Sample ID: 480-67875-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	130		50		ug/L	1		8260C	Total/NA
Carbon disulfide	2.4		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	310		5.0		ug/L	5		8260C	Total/NA
Ethylbenzene	1.3		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	5.1		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.4		1.0		ug/L	1		8260C	Total/NA
Toluene	130		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	22		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	18		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-7-20140922

Lab Sample ID: 480-67875-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.3		1.0		ug/L	1		8260C	Total/NA
2-Butanone (MEK)	96		50		ug/L	1		8260C	Total/NA
Carbon disulfide	2.3		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: 480-67875-1

Client Sample ID: REW-7-20140922 (Continued)

Lab Sample ID: 480-67875-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	330		5.0		ug/L	5		8260C	Total/NA
Toluene	55		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.1		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	12		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	74		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-8-20140922

Lab Sample ID: 480-67875-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	63		50		ug/L	1		8260C	Total/NA
Acetone	31		25		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	66		1.0		ug/L	1		8260C	Total/NA
Toluene	30		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.5		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	2.1		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	44		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-9-20140922

Lab Sample ID: 480-67875-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	110		50		ug/L	1		8260C	Total/NA
Carbon disulfide	1.0		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	60		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.2		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	4.7		2.0		ug/L	1		8260C	Total/NA
Toluene	70		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	29		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-10-20140923

Lab Sample ID: 480-67875-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	120		50		ug/L	1		8260C	Total/NA
Acetone	47		25		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	58		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	3.6		2.0		ug/L	1		8260C	Total/NA
Toluene	9.1		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	30		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-11-20140922

Lab Sample ID: 480-67875-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.1		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	1.7		1.0		ug/L	1		8260C	Total/NA
Benzene	1.6		1.0		ug/L	1		8260C	Total/NA
Carbon disulfide	1.2		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1400		10		ug/L	10		8260C	Total/NA
Toluene	1.3		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	3.9		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	5.1		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	150		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: 480-67875-1

Client Sample ID: REW-12-20140922

Lab Sample ID: 480-67875-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.5		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	270		5.0		ug/L	5		8260C	Total/NA
Toluene	69		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	3.1		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	9.0		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	74		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: DUP1-20140920

Lab Sample ID: 480-67875-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	90		25		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	100		1.0		ug/L	1		8260C	Total/NA
Tetrachloroethene	3.2		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.8		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	8.0		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	80		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: DUP2-20140922

Lab Sample ID: 480-67875-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	140		50		ug/L	1		8260C	Total/NA
Carbon disulfide	2.8		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	300		5.0		ug/L	5		8260C	Total/NA
Ethylbenzene	1.3		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	5.2		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.4		1.0		ug/L	1		8260C	Total/NA
Toluene	140		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	22		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	18		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: DUP3-20140923

Lab Sample ID: 480-67875-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	160		25		ug/L	1		8260C	Total/NA
Ethylbenzene	7.1		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	27		2.0		ug/L	1		8260C	Total/NA
o-Xylene	5.7		1.0		ug/L	1		8260C	Total/NA
Tetrahydrofuran	19		10		ug/L	1		8260C	Total/NA
Toluene	35		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	1.2		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	2.8		0.20		ug/L	1		522 MOD	Total/NA

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-67875-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	7.3		1.0		ug/L	1		8260C	Total/NA

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: 480-67875-1

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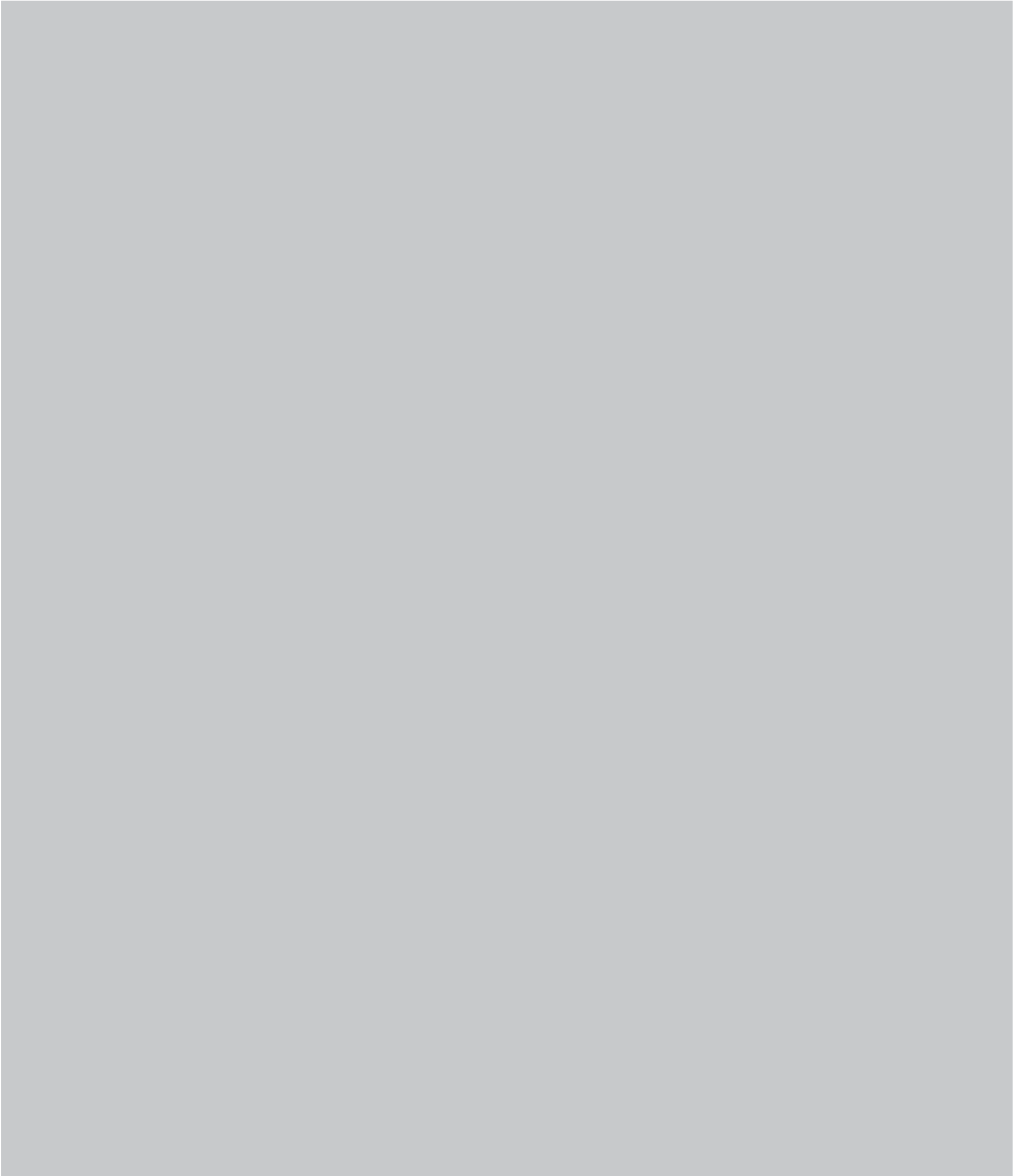
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Client Sample Results

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

TestAmerica Job ID: 480-67875-1

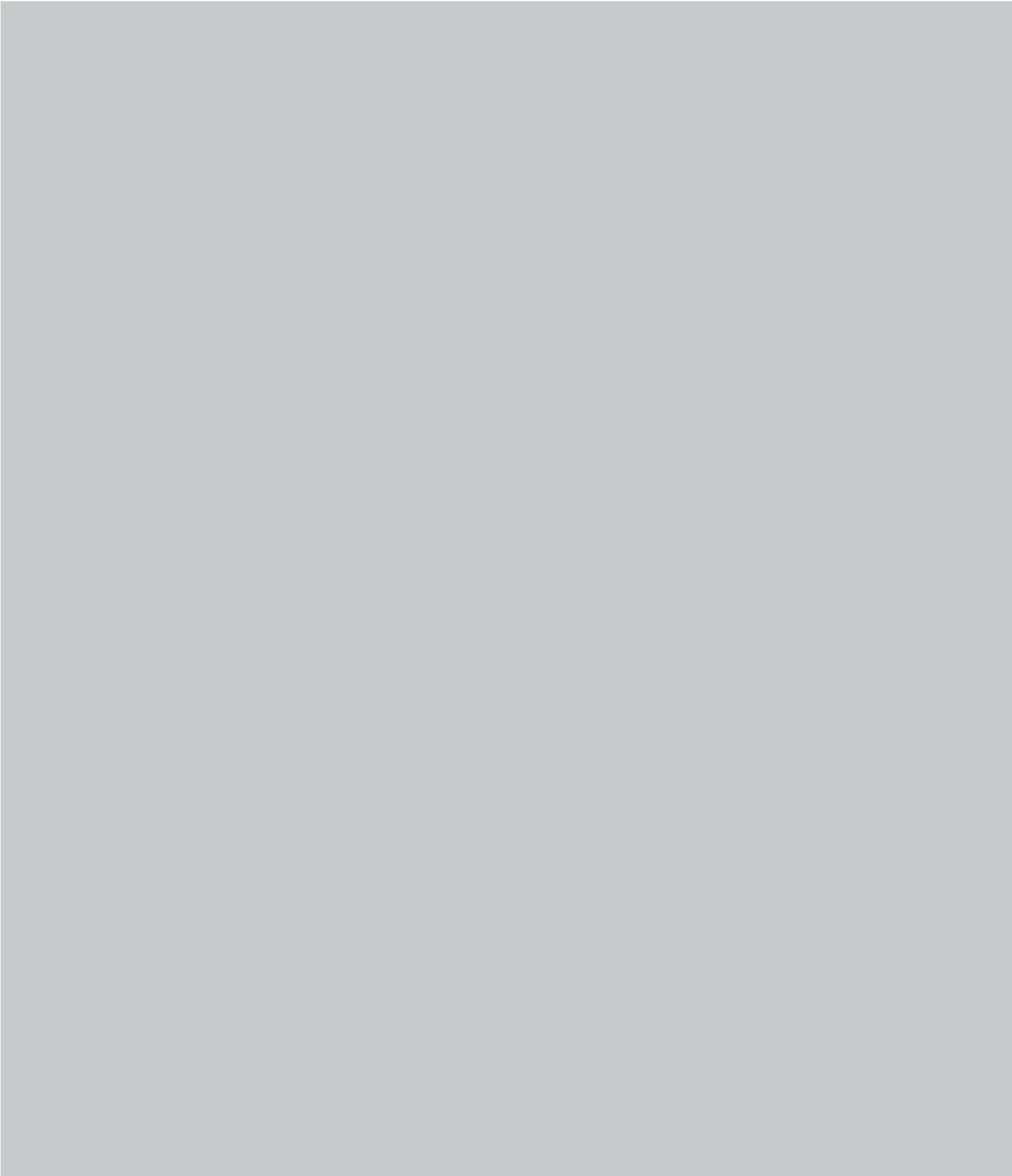


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Client Sample Results

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

TestAmerica Job ID: 480-67875-1



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Client Sample Results

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

TestAmerica Job ID: 480-67875-1

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Client Sample ID: MW-261S-20140923

Lab Sample ID: 480-67875-3

Date Collected: 09/23/14 07:25

Matrix: Water

Date Received: 09/24/14 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			10/01/14 21:56	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/01/14 21:56	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/01/14 21:56	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/01/14 21:56	1
1,1-Dichloroethane	ND		1.0		ug/L			10/01/14 21:56	1
1,1-Dichloroethene	ND		1.0		ug/L			10/01/14 21:56	1
1,1-Dichloropropene	ND		1.0		ug/L			10/01/14 21:56	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/01/14 21:56	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/01/14 21:56	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/01/14 21:56	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/01/14 21:56	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/01/14 21:56	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/01/14 21:56	1
1,2-Dichloroethane	ND		1.0		ug/L			10/01/14 21:56	1
1,2-Dichloropropane	ND		1.0		ug/L			10/01/14 21:56	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/01/14 21:56	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/01/14 21:56	1
1,3-Dichloropropane	ND		1.0		ug/L			10/01/14 21:56	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/01/14 21:56	1
1,4-Dioxane	ND *		200		ug/L			10/01/14 21:56	1
2,2-Dichloropropane	ND		1.0		ug/L			10/01/14 21:56	1
2-Butanone (MEK)	ND		50		ug/L			10/01/14 21:56	1
2-Chlorotoluene	ND		1.0		ug/L			10/01/14 21:56	1
2-Hexanone	ND		10		ug/L			10/01/14 21:56	1
4-Chlorotoluene	ND		1.0		ug/L			10/01/14 21:56	1
4-Isopropyltoluene	ND		1.0		ug/L			10/01/14 21:56	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-261S-20140923

Lab Sample ID: 480-67875-3

Date Collected: 09/23/14 07:25

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/01/14 21:56	1
Acetone	130		25		ug/L			10/01/14 21:56	1
Benzene	ND		1.0		ug/L			10/01/14 21:56	1
Bromobenzene	ND		1.0		ug/L			10/01/14 21:56	1
Bromoform	ND		1.0		ug/L			10/01/14 21:56	1
Bromomethane	ND		1.0		ug/L			10/01/14 21:56	1
Carbon disulfide	ND		1.0		ug/L			10/01/14 21:56	1
Carbon tetrachloride	ND		1.0		ug/L			10/01/14 21:56	1
Chlorobenzene	ND		1.0		ug/L			10/01/14 21:56	1
Chlorobromomethane	ND		1.0		ug/L			10/01/14 21:56	1
Chlorodibromomethane	ND		1.0		ug/L			10/01/14 21:56	1
Chloroethane	ND		1.0		ug/L			10/01/14 21:56	1
Chloroform	ND		1.0		ug/L			10/01/14 21:56	1
Chloromethane	ND		1.0		ug/L			10/01/14 21:56	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/01/14 21:56	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/01/14 21:56	1
Dibromomethane	ND		1.0		ug/L			10/01/14 21:56	1
Dichlorobromomethane	ND		1.0		ug/L			10/01/14 21:56	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/01/14 21:56	1
Ethyl ether	ND		5.0		ug/L			10/01/14 21:56	1
Ethylbenzene	6.8		1.0		ug/L			10/01/14 21:56	1
Ethylene Dibromide	ND		1.0		ug/L			10/01/14 21:56	1
Hexachlorobutadiene	ND		2.0		ug/L			10/01/14 21:56	1
Isopropyl ether	ND		2.0		ug/L			10/01/14 21:56	1
Isopropylbenzene	ND		1.0		ug/L			10/01/14 21:56	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/01/14 21:56	1
Methylene Chloride	ND		5.0		ug/L			10/01/14 21:56	1
m-Xylene & p-Xylene	25		2.0		ug/L			10/01/14 21:56	1
Naphthalene	ND		5.0		ug/L			10/01/14 21:56	1
n-Butylbenzene	ND		1.0		ug/L			10/01/14 21:56	1
N-Propylbenzene	ND		1.0		ug/L			10/01/14 21:56	1
o-Xylene	5.5		1.0		ug/L			10/01/14 21:56	1
sec-Butylbenzene	ND		1.0		ug/L			10/01/14 21:56	1
Styrene	ND		1.0		ug/L			10/01/14 21:56	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/01/14 21:56	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/01/14 21:56	1
tert-Butylbenzene	ND		1.0		ug/L			10/01/14 21:56	1
Tetrachloroethene	ND		1.0		ug/L			10/01/14 21:56	1
Tetrahydrofuran	15		10		ug/L			10/01/14 21:56	1
Toluene	28		1.0		ug/L			10/01/14 21:56	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/01/14 21:56	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/01/14 21:56	1
Trichloroethene	ND		1.0		ug/L			10/01/14 21:56	1
Trichlorofluoromethane	ND		1.0		ug/L			10/01/14 21:56	1
Vinyl chloride	1.1		1.0		ug/L			10/01/14 21:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	94		70 - 130					10/01/14 21:56	1
Toluene-d8 (Surr)	96		70 - 130					10/01/14 21:56	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130					10/01/14 21:56	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-261S-20140923

Lab Sample ID: 480-67875-3

Date Collected: 09/23/14 07:25

Matrix: Water

Date Received: 09/24/14 01:00

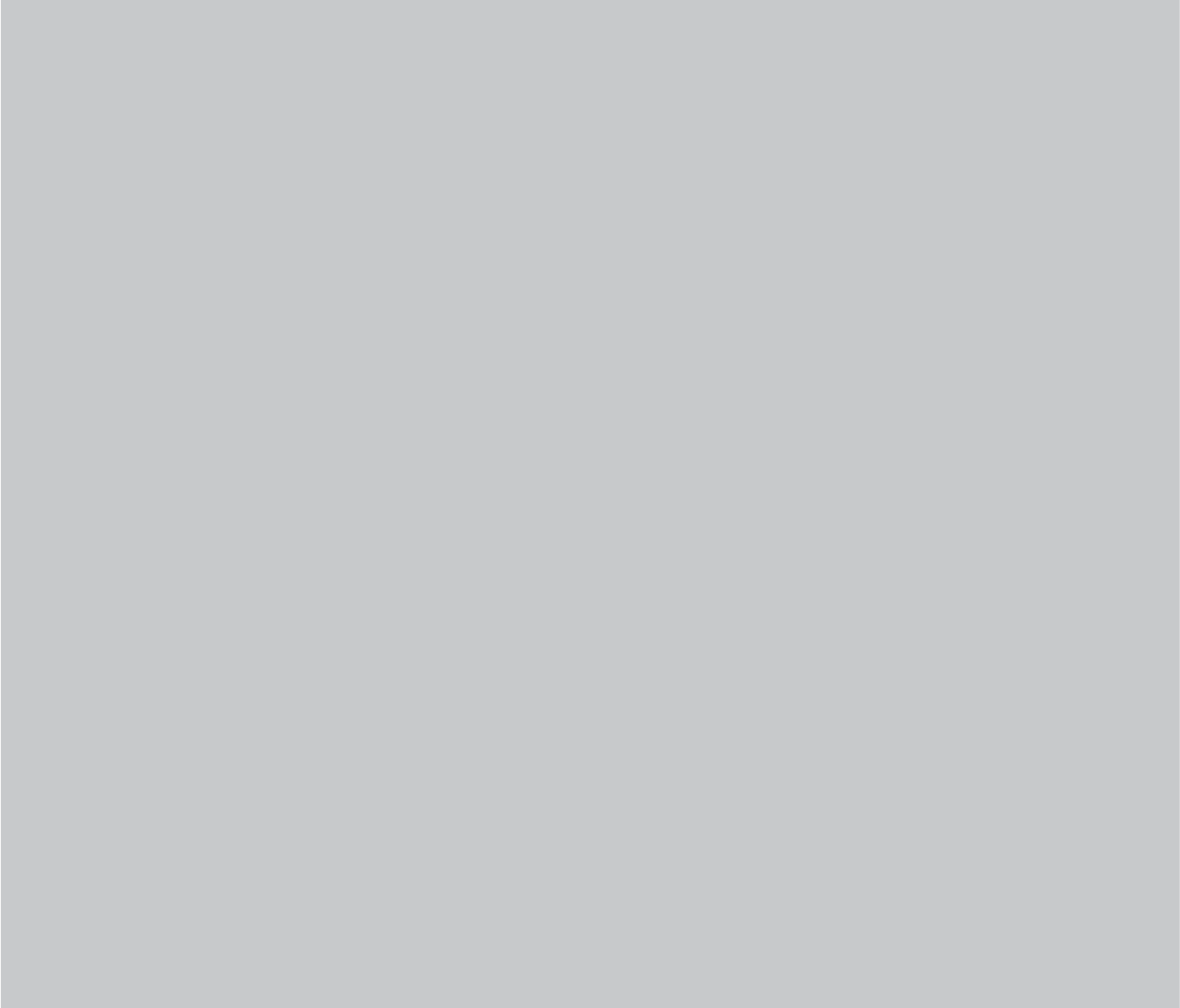
Method: 8260C - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130		10/01/14 21:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.8		0.20		ug/L		09/29/14 13:02	09/30/14 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	78		70 - 130	09/29/14 13:02	09/30/14 12:01	1



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Client Sample Results

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

TestAmerica Job ID: 480-67875-1

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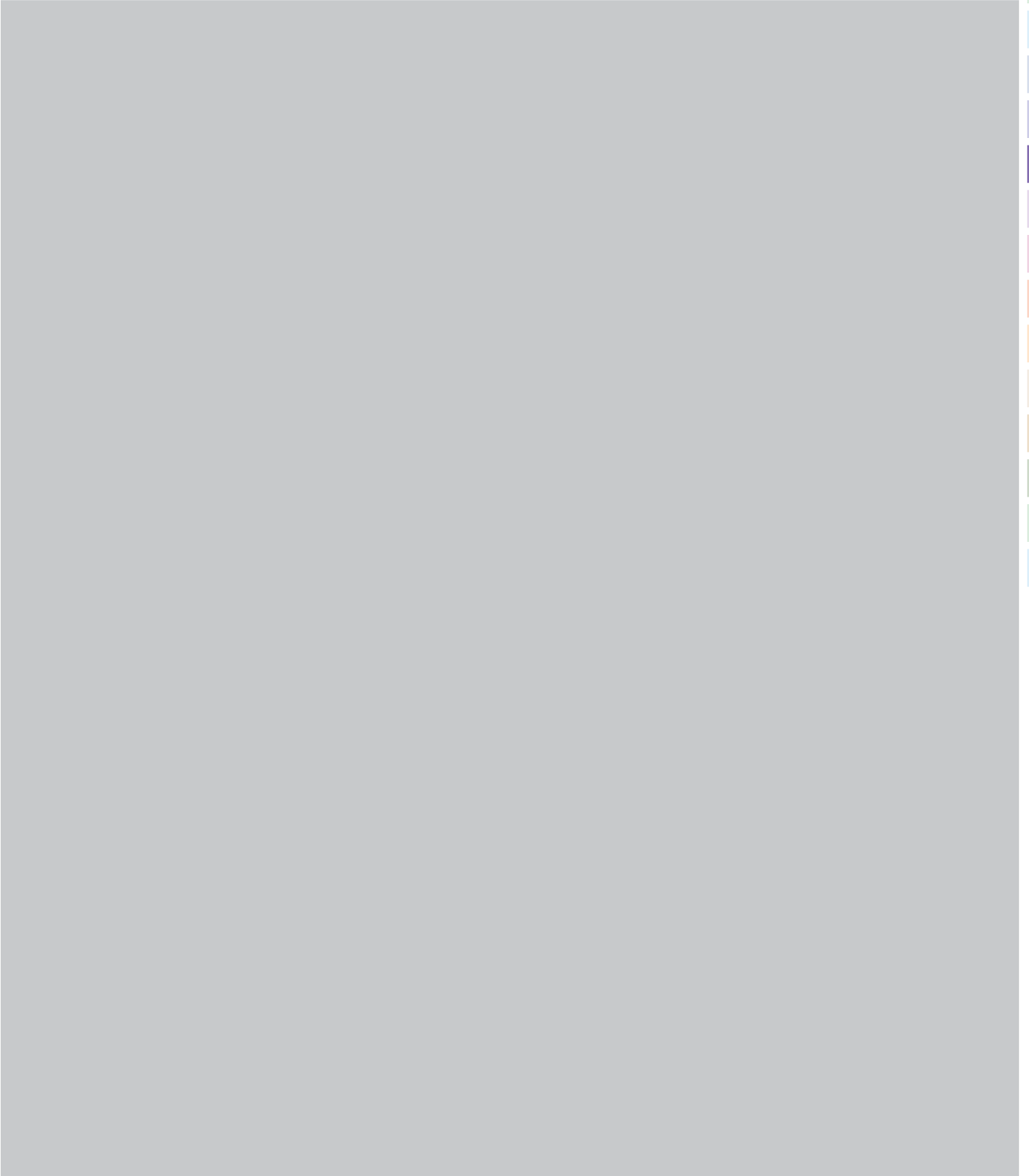
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Client Sample Results

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

TestAmerica Job ID: 480-67875-1



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Client Sample Results

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

TestAmerica Job ID: 480-67875-1

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Client Sample ID: MW-265S-20140920

Lab Sample ID: 480-67875-6

Date Collected: 09/20/14 09:15

Matrix: Water

Date Received: 09/24/14 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			10/02/14 20:51	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/02/14 20:51	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/02/14 20:51	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/02/14 20:51	1
1,1-Dichloroethane	ND		1.0		ug/L			10/02/14 20:51	1
1,1-Dichloroethene	ND		1.0		ug/L			10/02/14 20:51	1
1,1-Dichloropropene	ND		1.0		ug/L			10/02/14 20:51	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/02/14 20:51	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/02/14 20:51	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/02/14 20:51	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/02/14 20:51	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/02/14 20:51	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/02/14 20:51	1
1,2-Dichloroethane	ND		1.0		ug/L			10/02/14 20:51	1
1,2-Dichloropropane	ND		1.0		ug/L			10/02/14 20:51	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/02/14 20:51	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-265S-20140920

Lab Sample ID: 480-67875-6

Date Collected: 09/20/14 09:15

Matrix: Water

Date Received: 09/24/14 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			10/02/14 20:51	1
1,3-Dichloropropane	ND		1.0		ug/L			10/02/14 20:51	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/02/14 20:51	1
1,4-Dioxane	ND	*	200		ug/L			10/02/14 20:51	1
2,2-Dichloropropane	ND		1.0		ug/L			10/02/14 20:51	1
2-Butanone (MEK)	ND		50		ug/L			10/02/14 20:51	1
2-Chlorotoluene	ND		1.0		ug/L			10/02/14 20:51	1
2-Hexanone	ND		10		ug/L			10/02/14 20:51	1
4-Chlorotoluene	ND		1.0		ug/L			10/02/14 20:51	1
4-Isopropyltoluene	ND		1.0		ug/L			10/02/14 20:51	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/02/14 20:51	1
Acetone	ND		25		ug/L			10/02/14 20:51	1
Benzene	ND		1.0		ug/L			10/02/14 20:51	1
Bromobenzene	ND		1.0		ug/L			10/02/14 20:51	1
Bromoform	ND		1.0		ug/L			10/02/14 20:51	1
Bromomethane	ND		1.0		ug/L			10/02/14 20:51	1
Carbon disulfide	ND		1.0		ug/L			10/02/14 20:51	1
Carbon tetrachloride	ND		1.0		ug/L			10/02/14 20:51	1
Chlorobenzene	ND		1.0		ug/L			10/02/14 20:51	1
Chlorobromomethane	ND		1.0		ug/L			10/02/14 20:51	1
Chlorodibromomethane	ND		1.0		ug/L			10/02/14 20:51	1
Chloroethane	ND		1.0		ug/L			10/02/14 20:51	1
Chloroform	ND		1.0		ug/L			10/02/14 20:51	1
Chloromethane	ND		1.0		ug/L			10/02/14 20:51	1
cis-1,2-Dichloroethene	1.0		1.0		ug/L			10/02/14 20:51	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 20:51	1
Dibromomethane	ND		1.0		ug/L			10/02/14 20:51	1
Dichlorobromomethane	ND		1.0		ug/L			10/02/14 20:51	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/02/14 20:51	1
Ethyl ether	ND		5.0		ug/L			10/02/14 20:51	1
Ethylbenzene	ND		1.0		ug/L			10/02/14 20:51	1
Ethylene Dibromide	ND		1.0		ug/L			10/02/14 20:51	1
Hexachlorobutadiene	ND		2.0		ug/L			10/02/14 20:51	1
Isopropyl ether	ND		2.0		ug/L			10/02/14 20:51	1
Isopropylbenzene	ND		1.0		ug/L			10/02/14 20:51	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/02/14 20:51	1
Methylene Chloride	ND		5.0		ug/L			10/02/14 20:51	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/02/14 20:51	1
Naphthalene	ND		5.0		ug/L			10/02/14 20:51	1
n-Butylbenzene	ND		1.0		ug/L			10/02/14 20:51	1
N-Propylbenzene	ND		1.0		ug/L			10/02/14 20:51	1
o-Xylene	ND		1.0		ug/L			10/02/14 20:51	1
sec-Butylbenzene	ND		1.0		ug/L			10/02/14 20:51	1
Styrene	ND		1.0		ug/L			10/02/14 20:51	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/02/14 20:51	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/02/14 20:51	1
tert-Butylbenzene	ND		1.0		ug/L			10/02/14 20:51	1
Tetrachloroethene	ND		1.0		ug/L			10/02/14 20:51	1
Tetrahydrofuran	ND		10		ug/L			10/02/14 20:51	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-265S-20140920

Lab Sample ID: 480-67875-6

Date Collected: 09/20/14 09:15

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.7		1.0		ug/L			10/02/14 20:51	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/02/14 20:51	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 20:51	1
Trichloroethene	ND		1.0		ug/L			10/02/14 20:51	1
Trichlorofluoromethane	ND		1.0		ug/L			10/02/14 20:51	1
Vinyl chloride	ND		1.0		ug/L			10/02/14 20:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Dibromofluoromethane (Surr)</i>	96		70 - 130					10/02/14 20:51	1
<i>Toluene-d8 (Surr)</i>	100		70 - 130					10/02/14 20:51	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	104		70 - 130					10/02/14 20:51	1
<i>4-Bromofluorobenzene (Surr)</i>	94		70 - 130					10/02/14 20:51	1

Client Sample ID: MW-265M-20140923

Lab Sample ID: 480-67875-7

Date Collected: 09/23/14 13:40

Matrix: Water

Date Received: 09/24/14 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			10/02/14 21:19	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/02/14 21:19	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/02/14 21:19	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/02/14 21:19	1
1,1-Dichloroethane	ND		1.0		ug/L			10/02/14 21:19	1
1,1-Dichloroethene	ND		1.0		ug/L			10/02/14 21:19	1
1,1-Dichloropropene	ND		1.0		ug/L			10/02/14 21:19	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/02/14 21:19	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/02/14 21:19	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/02/14 21:19	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/02/14 21:19	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/02/14 21:19	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/02/14 21:19	1
1,2-Dichloroethane	ND		1.0		ug/L			10/02/14 21:19	1
1,2-Dichloropropane	ND		1.0		ug/L			10/02/14 21:19	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/02/14 21:19	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/02/14 21:19	1
1,3-Dichloropropane	ND		1.0		ug/L			10/02/14 21:19	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/02/14 21:19	1
1,4-Dioxane	ND *		200		ug/L			10/02/14 21:19	1
2,2-Dichloropropane	ND		1.0		ug/L			10/02/14 21:19	1
2-Butanone (MEK)	240		50		ug/L			10/02/14 21:19	1
2-Chlorotoluene	ND		1.0		ug/L			10/02/14 21:19	1
2-Hexanone	ND		10		ug/L			10/02/14 21:19	1
4-Chlorotoluene	ND		1.0		ug/L			10/02/14 21:19	1
4-Isopropyltoluene	ND		1.0		ug/L			10/02/14 21:19	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/02/14 21:19	1
Acetone	1000		25		ug/L			10/02/14 21:19	1
Benzene	ND		1.0		ug/L			10/02/14 21:19	1
Bromobenzene	ND		1.0		ug/L			10/02/14 21:19	1
Bromoform	ND		1.0		ug/L			10/02/14 21:19	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-265M-20140923

Lab Sample ID: 480-67875-7

Date Collected: 09/23/14 13:40

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		1.0		ug/L			10/02/14 21:19	1
Carbon disulfide	ND		1.0		ug/L			10/02/14 21:19	1
Carbon tetrachloride	ND		1.0		ug/L			10/02/14 21:19	1
Chlorobenzene	ND		1.0		ug/L			10/02/14 21:19	1
Chlorobromomethane	ND		1.0		ug/L			10/02/14 21:19	1
Chlorodibromomethane	ND		1.0		ug/L			10/02/14 21:19	1
Chloroethane	ND		1.0		ug/L			10/02/14 21:19	1
Chloroform	ND		1.0		ug/L			10/02/14 21:19	1
Chloromethane	ND		1.0		ug/L			10/02/14 21:19	1
cis-1,2-Dichloroethene	6.5		1.0		ug/L			10/02/14 21:19	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 21:19	1
Dibromomethane	ND		1.0		ug/L			10/02/14 21:19	1
Dichlorobromomethane	ND		1.0		ug/L			10/02/14 21:19	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/02/14 21:19	1
Ethyl ether	ND		5.0		ug/L			10/02/14 21:19	1
Ethylbenzene	3.4		1.0		ug/L			10/02/14 21:19	1
Ethylene Dibromide	ND		1.0		ug/L			10/02/14 21:19	1
Hexachlorobutadiene	ND		2.0		ug/L			10/02/14 21:19	1
Isopropyl ether	ND		2.0		ug/L			10/02/14 21:19	1
Isopropylbenzene	ND		1.0		ug/L			10/02/14 21:19	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/02/14 21:19	1
Methylene Chloride	ND		5.0		ug/L			10/02/14 21:19	1
m-Xylene & p-Xylene	13		2.0		ug/L			10/02/14 21:19	1
Naphthalene	ND		5.0		ug/L			10/02/14 21:19	1
n-Butylbenzene	ND		1.0		ug/L			10/02/14 21:19	1
N-Propylbenzene	ND		1.0		ug/L			10/02/14 21:19	1
o-Xylene	3.5		1.0		ug/L			10/02/14 21:19	1
sec-Butylbenzene	ND		1.0		ug/L			10/02/14 21:19	1
Styrene	ND		1.0		ug/L			10/02/14 21:19	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/02/14 21:19	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/02/14 21:19	1
tert-Butylbenzene	ND		1.0		ug/L			10/02/14 21:19	1
Tetrachloroethene	ND		1.0		ug/L			10/02/14 21:19	1
Tetrahydrofuran	35		10		ug/L			10/02/14 21:19	1
Toluene	14		1.0		ug/L			10/02/14 21:19	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/02/14 21:19	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 21:19	1
Trichloroethene	1.8		1.0		ug/L			10/02/14 21:19	1
Trichlorofluoromethane	ND		1.0		ug/L			10/02/14 21:19	1
Vinyl chloride	2.3		1.0		ug/L			10/02/14 21:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		70 - 130		10/02/14 21:19	1
Toluene-d8 (Surr)	95		70 - 130		10/02/14 21:19	1
1,2-Dichloroethane-d4 (Surr)	116		70 - 130		10/02/14 21:19	1
4-Bromofluorobenzene (Surr)	96		70 - 130		10/02/14 21:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.3		0.20		ug/L		09/29/14 13:02	09/30/14 12:17	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-265M-20140923

Lab Sample ID: 480-67875-7

Date Collected: 09/23/14 13:40

Matrix: Water

Date Received: 09/24/14 01:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	49	X	70 - 130	09/29/14 13:02	09/30/14 12:17	1

Client Sample ID: MW-265D-20140920

Lab Sample ID: 480-67875-8

Date Collected: 09/20/14 09:45

Matrix: Water

Date Received: 09/24/14 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			10/02/14 21:47	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/02/14 21:47	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/02/14 21:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/02/14 21:47	1
1,1-Dichloroethane	ND		1.0		ug/L			10/02/14 21:47	1
1,1-Dichloroethene	ND		1.0		ug/L			10/02/14 21:47	1
1,1-Dichloropropene	ND		1.0		ug/L			10/02/14 21:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/02/14 21:47	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/02/14 21:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/02/14 21:47	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/02/14 21:47	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/02/14 21:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/02/14 21:47	1
1,2-Dichloroethane	ND		1.0		ug/L			10/02/14 21:47	1
1,2-Dichloropropane	ND		1.0		ug/L			10/02/14 21:47	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/02/14 21:47	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/02/14 21:47	1
1,3-Dichloropropane	ND		1.0		ug/L			10/02/14 21:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/02/14 21:47	1
1,4-Dioxane	ND	*	200		ug/L			10/02/14 21:47	1
2,2-Dichloropropane	ND		1.0		ug/L			10/02/14 21:47	1
2-Butanone (MEK)	ND		50		ug/L			10/02/14 21:47	1
2-Chlorotoluene	ND		1.0		ug/L			10/02/14 21:47	1
2-Hexanone	ND		10		ug/L			10/02/14 21:47	1
4-Chlorotoluene	ND		1.0		ug/L			10/02/14 21:47	1
4-Isopropyltoluene	ND		1.0		ug/L			10/02/14 21:47	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/02/14 21:47	1
Acetone	33		25		ug/L			10/02/14 21:47	1
Benzene	ND		1.0		ug/L			10/02/14 21:47	1
Bromobenzene	ND		1.0		ug/L			10/02/14 21:47	1
Bromoform	ND		1.0		ug/L			10/02/14 21:47	1
Bromomethane	ND		1.0		ug/L			10/02/14 21:47	1
Carbon disulfide	ND		1.0		ug/L			10/02/14 21:47	1
Carbon tetrachloride	ND		1.0		ug/L			10/02/14 21:47	1
Chlorobenzene	ND		1.0		ug/L			10/02/14 21:47	1
Chlorobromomethane	ND		1.0		ug/L			10/02/14 21:47	1
Chlorodibromomethane	ND		1.0		ug/L			10/02/14 21:47	1
Chloroethane	ND		1.0		ug/L			10/02/14 21:47	1
Chloroform	ND		1.0		ug/L			10/02/14 21:47	1
Chloromethane	ND		1.0		ug/L			10/02/14 21:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/02/14 21:47	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 21:47	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-265D-20140920

Lab Sample ID: 480-67875-8

Date Collected: 09/20/14 09:45

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		1.0		ug/L			10/02/14 21:47	1
Dichlorobromomethane	ND		1.0		ug/L			10/02/14 21:47	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/02/14 21:47	1
Ethyl ether	ND		5.0		ug/L			10/02/14 21:47	1
Ethylbenzene	ND		1.0		ug/L			10/02/14 21:47	1
Ethylene Dibromide	ND		1.0		ug/L			10/02/14 21:47	1
Hexachlorobutadiene	ND		2.0		ug/L			10/02/14 21:47	1
Isopropyl ether	ND		2.0		ug/L			10/02/14 21:47	1
Isopropylbenzene	ND		1.0		ug/L			10/02/14 21:47	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/02/14 21:47	1
Methylene Chloride	ND		5.0		ug/L			10/02/14 21:47	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/02/14 21:47	1
Naphthalene	ND		5.0		ug/L			10/02/14 21:47	1
n-Butylbenzene	ND		1.0		ug/L			10/02/14 21:47	1
N-Propylbenzene	ND		1.0		ug/L			10/02/14 21:47	1
o-Xylene	ND		1.0		ug/L			10/02/14 21:47	1
sec-Butylbenzene	ND		1.0		ug/L			10/02/14 21:47	1
Styrene	ND		1.0		ug/L			10/02/14 21:47	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/02/14 21:47	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/02/14 21:47	1
tert-Butylbenzene	ND		1.0		ug/L			10/02/14 21:47	1
Tetrachloroethene	ND		1.0		ug/L			10/02/14 21:47	1
Tetrahydrofuran	ND		10		ug/L			10/02/14 21:47	1
Toluene	ND		1.0		ug/L			10/02/14 21:47	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/02/14 21:47	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 21:47	1
Trichloroethene	ND		1.0		ug/L			10/02/14 21:47	1
Trichlorofluoromethane	ND		1.0		ug/L			10/02/14 21:47	1
Vinyl chloride	ND		1.0		ug/L			10/02/14 21:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		70 - 130					10/02/14 21:47	1
Toluene-d8 (Surr)	99		70 - 130					10/02/14 21:47	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130					10/02/14 21:47	1
4-Bromofluorobenzene (Surr)	98		70 - 130					10/02/14 21:47	1

Client Sample ID: MW-266Ma-20140920

Lab Sample ID: 480-67875-9

Date Collected: 09/20/14 10:15

Matrix: Water

Date Received: 09/24/14 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			10/02/14 22:15	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/02/14 22:15	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/02/14 22:15	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/02/14 22:15	1
1,1-Dichloroethane	ND		1.0		ug/L			10/02/14 22:15	1
1,1-Dichloroethene	ND		1.0		ug/L			10/02/14 22:15	1
1,1-Dichloropropene	ND		1.0		ug/L			10/02/14 22:15	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/02/14 22:15	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-266Ma-20140920

Lab Sample ID: 480-67875-9

Date Collected: 09/20/14 10:15

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0		ug/L			10/02/14 22:15	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/02/14 22:15	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/02/14 22:15	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/02/14 22:15	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/02/14 22:15	1
1,2-Dichloroethane	ND		1.0		ug/L			10/02/14 22:15	1
1,2-Dichloropropane	ND		1.0		ug/L			10/02/14 22:15	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/02/14 22:15	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/02/14 22:15	1
1,3-Dichloropropane	ND		1.0		ug/L			10/02/14 22:15	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/02/14 22:15	1
1,4-Dioxane	ND *		200		ug/L			10/02/14 22:15	1
2,2-Dichloropropane	ND		1.0		ug/L			10/02/14 22:15	1
2-Butanone (MEK)	ND		50		ug/L			10/02/14 22:15	1
2-Chlorotoluene	ND		1.0		ug/L			10/02/14 22:15	1
2-Hexanone	ND		10		ug/L			10/02/14 22:15	1
4-Chlorotoluene	ND		1.0		ug/L			10/02/14 22:15	1
4-Isopropyltoluene	ND		1.0		ug/L			10/02/14 22:15	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/02/14 22:15	1
Acetone	ND		25		ug/L			10/02/14 22:15	1
Benzene	ND		1.0		ug/L			10/02/14 22:15	1
Bromobenzene	ND		1.0		ug/L			10/02/14 22:15	1
Bromoform	ND		1.0		ug/L			10/02/14 22:15	1
Bromomethane	ND		1.0		ug/L			10/02/14 22:15	1
Carbon disulfide	ND		1.0		ug/L			10/02/14 22:15	1
Carbon tetrachloride	ND		1.0		ug/L			10/02/14 22:15	1
Chlorobenzene	ND		1.0		ug/L			10/02/14 22:15	1
Chlorobromomethane	ND		1.0		ug/L			10/02/14 22:15	1
Chlorodibromomethane	ND		1.0		ug/L			10/02/14 22:15	1
Chloroethane	ND		1.0		ug/L			10/02/14 22:15	1
Chloroform	ND		1.0		ug/L			10/02/14 22:15	1
Chloromethane	ND		1.0		ug/L			10/02/14 22:15	1
cis-1,2-Dichloroethene	15		1.0		ug/L			10/02/14 22:15	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 22:15	1
Dibromomethane	ND		1.0		ug/L			10/02/14 22:15	1
Dichlorobromomethane	ND		1.0		ug/L			10/02/14 22:15	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/02/14 22:15	1
Ethyl ether	ND		5.0		ug/L			10/02/14 22:15	1
Ethylbenzene	ND		1.0		ug/L			10/02/14 22:15	1
Ethylene Dibromide	ND		1.0		ug/L			10/02/14 22:15	1
Hexachlorobutadiene	ND		2.0		ug/L			10/02/14 22:15	1
Isopropyl ether	ND		2.0		ug/L			10/02/14 22:15	1
Isopropylbenzene	ND		1.0		ug/L			10/02/14 22:15	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/02/14 22:15	1
Methylene Chloride	ND		5.0		ug/L			10/02/14 22:15	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/02/14 22:15	1
Naphthalene	ND		5.0		ug/L			10/02/14 22:15	1
n-Butylbenzene	ND		1.0		ug/L			10/02/14 22:15	1
N-Propylbenzene	ND		1.0		ug/L			10/02/14 22:15	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-266Ma-20140920

Lab Sample ID: 480-67875-9

Date Collected: 09/20/14 10:15

Matrix: Water

Date Received: 09/24/14 01:00

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			10/02/14 22:15	1
sec-Butylbenzene	ND		1.0		ug/L			10/02/14 22:15	1
Styrene	ND		1.0		ug/L			10/02/14 22:15	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/02/14 22:15	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/02/14 22:15	1
tert-Butylbenzene	ND		1.0		ug/L			10/02/14 22:15	1
Tetrachloroethene	ND		1.0		ug/L			10/02/14 22:15	1
Tetrahydrofuran	ND		10		ug/L			10/02/14 22:15	1
Toluene	16		1.0		ug/L			10/02/14 22:15	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/02/14 22:15	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 22:15	1
Trichloroethene	1.8		1.0		ug/L			10/02/14 22:15	1
Trichlorofluoromethane	ND		1.0		ug/L			10/02/14 22:15	1
Vinyl chloride	3.5		1.0		ug/L			10/02/14 22:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		70 - 130					10/02/14 22:15	1
Toluene-d8 (Surr)	101		70 - 130					10/02/14 22:15	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 130					10/02/14 22:15	1
4-Bromofluorobenzene (Surr)	98		70 - 130					10/02/14 22:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.6		0.20		ug/L		09/29/14 13:02	09/30/14 12:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	93		70 - 130				09/29/14 13:02	09/30/14 12:33	1

Client Sample ID: MW-266Mb-20140920

Lab Sample ID: 480-67875-10

Date Collected: 09/20/14 10:45

Matrix: Water

Date Received: 09/24/14 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			10/03/14 02:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/03/14 02:26	1
1,1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/03/14 02:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/03/14 02:26	1
1,1-Dichloroethane	ND		1.0		ug/L			10/03/14 02:26	1
1,1-Dichloroethene	ND		1.0		ug/L			10/03/14 02:26	1
1,1-Dichloropropene	ND		1.0		ug/L			10/03/14 02:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/03/14 02:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/03/14 02:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/03/14 02:26	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/03/14 02:26	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/03/14 02:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/03/14 02:26	1
1,2-Dichloroethane	ND		1.0		ug/L			10/03/14 02:26	1
1,2-Dichloropropane	ND		1.0		ug/L			10/03/14 02:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/03/14 02:26	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-266Mb-20140920

Lab Sample ID: 480-67875-10

Date Collected: 09/20/14 10:45

Matrix: Water

Date Received: 09/24/14 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			10/03/14 02:26	1
1,3-Dichloropropane	ND		1.0		ug/L			10/03/14 02:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/03/14 02:26	1
1,4-Dioxane	ND		200		ug/L			10/03/14 02:26	1
2,2-Dichloropropane	ND		1.0		ug/L			10/03/14 02:26	1
2-Butanone (MEK)	ND		50		ug/L			10/03/14 02:26	1
2-Chlorotoluene	ND		1.0		ug/L			10/03/14 02:26	1
2-Hexanone	ND		10		ug/L			10/03/14 02:26	1
4-Chlorotoluene	ND		1.0		ug/L			10/03/14 02:26	1
4-Isopropyltoluene	ND		1.0		ug/L			10/03/14 02:26	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/03/14 02:26	1
Acetone	67		25		ug/L			10/03/14 02:26	1
Benzene	ND		1.0		ug/L			10/03/14 02:26	1
Bromobenzene	ND		1.0		ug/L			10/03/14 02:26	1
Bromoform	ND		1.0		ug/L			10/03/14 02:26	1
Bromomethane	ND		1.0		ug/L			10/03/14 02:26	1
Carbon disulfide	ND		1.0		ug/L			10/03/14 02:26	1
Carbon tetrachloride	ND		1.0		ug/L			10/03/14 02:26	1
Chlorobenzene	ND		1.0		ug/L			10/03/14 02:26	1
Chlorobromomethane	ND		1.0		ug/L			10/03/14 02:26	1
Chlorodibromomethane	ND		1.0		ug/L			10/03/14 02:26	1
Chloroethane	ND		1.0		ug/L			10/03/14 02:26	1
Chloroform	ND		1.0		ug/L			10/03/14 02:26	1
Chloromethane	ND		1.0		ug/L			10/03/14 02:26	1
cis-1,2-Dichloroethene	81		1.0		ug/L			10/03/14 02:26	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 02:26	1
Dibromomethane	ND		1.0		ug/L			10/03/14 02:26	1
Dichlorobromomethane	ND		1.0		ug/L			10/03/14 02:26	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/03/14 02:26	1
Ethyl ether	ND		5.0		ug/L			10/03/14 02:26	1
Ethylbenzene	ND		1.0		ug/L			10/03/14 02:26	1
Ethylene Dibromide	ND		1.0		ug/L			10/03/14 02:26	1
Hexachlorobutadiene	ND		2.0		ug/L			10/03/14 02:26	1
Isopropyl ether	ND		2.0		ug/L			10/03/14 02:26	1
Isopropylbenzene	ND		1.0		ug/L			10/03/14 02:26	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/03/14 02:26	1
Methylene Chloride	ND		5.0		ug/L			10/03/14 02:26	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/03/14 02:26	1
Naphthalene	ND		5.0		ug/L			10/03/14 02:26	1
n-Butylbenzene	ND		1.0		ug/L			10/03/14 02:26	1
N-Propylbenzene	ND		1.0		ug/L			10/03/14 02:26	1
o-Xylene	ND		1.0		ug/L			10/03/14 02:26	1
sec-Butylbenzene	ND		1.0		ug/L			10/03/14 02:26	1
Styrene	ND		1.0		ug/L			10/03/14 02:26	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/03/14 02:26	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/03/14 02:26	1
tert-Butylbenzene	ND		1.0		ug/L			10/03/14 02:26	1
Tetrachloroethene	3.1		1.0		ug/L			10/03/14 02:26	1
Tetrahydrofuran	ND		10		ug/L			10/03/14 02:26	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-266Mb-20140920

Lab Sample ID: 480-67875-10

Date Collected: 09/20/14 10:45

Matrix: Water

Date Received: 09/24/14 01:00

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			10/03/14 02:26	1
trans-1,2-Dichloroethene	2.3		1.0		ug/L			10/03/14 02:26	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 02:26	1
Trichloroethene	8.2		1.0		ug/L			10/03/14 02:26	1
Trichlorofluoromethane	ND		1.0		ug/L			10/03/14 02:26	1
Vinyl chloride	69		1.0		ug/L			10/03/14 02:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		70 - 130					10/03/14 02:26	1
Toluene-d8 (Surr)	98		70 - 130					10/03/14 02:26	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130					10/03/14 02:26	1
4-Bromofluorobenzene (Surr)	97		70 - 130					10/03/14 02:26	1

Client Sample ID: MW-267S-20140920

Lab Sample ID: 480-67875-11

Date Collected: 09/20/14 11:45

Matrix: Water

Date Received: 09/24/14 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			10/03/14 02:54	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/03/14 02:54	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/03/14 02:54	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/03/14 02:54	1
1,1-Dichloroethane	ND		1.0		ug/L			10/03/14 02:54	1
1,1-Dichloroethene	ND		1.0		ug/L			10/03/14 02:54	1
1,1-Dichloropropene	ND		1.0		ug/L			10/03/14 02:54	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/03/14 02:54	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/03/14 02:54	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/03/14 02:54	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/03/14 02:54	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/03/14 02:54	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/03/14 02:54	1
1,2-Dichloroethane	ND		1.0		ug/L			10/03/14 02:54	1
1,2-Dichloropropane	ND		1.0		ug/L			10/03/14 02:54	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/03/14 02:54	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/03/14 02:54	1
1,3-Dichloropropane	ND		1.0		ug/L			10/03/14 02:54	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/03/14 02:54	1
1,4-Dioxane	ND		200		ug/L			10/03/14 02:54	1
2,2-Dichloropropane	ND		1.0		ug/L			10/03/14 02:54	1
2-Butanone (MEK)	170		50		ug/L			10/03/14 02:54	1
2-Chlorotoluene	ND		1.0		ug/L			10/03/14 02:54	1
2-Hexanone	ND		10		ug/L			10/03/14 02:54	1
4-Chlorotoluene	ND		1.0		ug/L			10/03/14 02:54	1
4-Isopropyltoluene	ND		1.0		ug/L			10/03/14 02:54	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/03/14 02:54	1
Acetone	38		25		ug/L			10/03/14 02:54	1
Benzene	ND		1.0		ug/L			10/03/14 02:54	1
Bromobenzene	ND		1.0		ug/L			10/03/14 02:54	1
Bromoform	ND		1.0		ug/L			10/03/14 02:54	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-267S-20140920

Lab Sample ID: 480-67875-11

Date Collected: 09/20/14 11:45

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		1.0		ug/L			10/03/14 02:54	1
Carbon disulfide	ND		1.0		ug/L			10/03/14 02:54	1
Carbon tetrachloride	ND		1.0		ug/L			10/03/14 02:54	1
Chlorobenzene	ND		1.0		ug/L			10/03/14 02:54	1
Chlorobromomethane	ND		1.0		ug/L			10/03/14 02:54	1
Chlorodibromomethane	ND		1.0		ug/L			10/03/14 02:54	1
Chloroethane	ND		1.0		ug/L			10/03/14 02:54	1
Chloroform	ND		1.0		ug/L			10/03/14 02:54	1
Chloromethane	ND		1.0		ug/L			10/03/14 02:54	1
cis-1,2-Dichloroethene	240		1.0		ug/L			10/03/14 02:54	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 02:54	1
Dibromomethane	ND		1.0		ug/L			10/03/14 02:54	1
Dichlorobromomethane	ND		1.0		ug/L			10/03/14 02:54	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/03/14 02:54	1
Ethyl ether	ND		5.0		ug/L			10/03/14 02:54	1
Ethylbenzene	2.0		1.0		ug/L			10/03/14 02:54	1
Ethylene Dibromide	ND		1.0		ug/L			10/03/14 02:54	1
Hexachlorobutadiene	ND		2.0		ug/L			10/03/14 02:54	1
Isopropyl ether	ND		2.0		ug/L			10/03/14 02:54	1
Isopropylbenzene	ND		1.0		ug/L			10/03/14 02:54	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/03/14 02:54	1
Methylene Chloride	ND		5.0		ug/L			10/03/14 02:54	1
m-Xylene & p-Xylene	8.2		2.0		ug/L			10/03/14 02:54	1
Naphthalene	ND		5.0		ug/L			10/03/14 02:54	1
n-Butylbenzene	ND		1.0		ug/L			10/03/14 02:54	1
N-Propylbenzene	ND		1.0		ug/L			10/03/14 02:54	1
o-Xylene	2.2		1.0		ug/L			10/03/14 02:54	1
sec-Butylbenzene	ND		1.0		ug/L			10/03/14 02:54	1
Styrene	ND		1.0		ug/L			10/03/14 02:54	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/03/14 02:54	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/03/14 02:54	1
tert-Butylbenzene	ND		1.0		ug/L			10/03/14 02:54	1
Tetrachloroethene	ND		1.0		ug/L			10/03/14 02:54	1
Tetrahydrofuran	ND		10		ug/L			10/03/14 02:54	1
Toluene	220		10		ug/L			10/03/14 14:31	10
trans-1,2-Dichloroethene	2.6		1.0		ug/L			10/03/14 02:54	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 02:54	1
Trichloroethene	ND		1.0		ug/L			10/03/14 02:54	1
Trichlorofluoromethane	ND		1.0		ug/L			10/03/14 02:54	1
Vinyl chloride	16		1.0		ug/L			10/03/14 02:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		70 - 130		10/03/14 02:54	1
Dibromofluoromethane (Surr)	95		70 - 130		10/03/14 14:31	10
Toluene-d8 (Surr)	99		70 - 130		10/03/14 02:54	1
Toluene-d8 (Surr)	102		70 - 130		10/03/14 14:31	10
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		10/03/14 02:54	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		10/03/14 14:31	10
4-Bromofluorobenzene (Surr)	96		70 - 130		10/03/14 02:54	1
4-Bromofluorobenzene (Surr)	95		70 - 130		10/03/14 14:31	10

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-267S-20140920

Lab Sample ID: 480-67875-11

Date Collected: 09/20/14 11:45

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	5.4		0.20		ug/L		09/29/14 13:02	09/30/14 12:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	91		70 - 130				09/29/14 13:02	09/30/14 12:50	1

Client Sample ID: MW-267M-20140920

Lab Sample ID: 480-67875-12

Date Collected: 09/20/14 12:15

Matrix: Water

Date Received: 09/24/14 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			10/03/14 03:22	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/03/14 03:22	1
1,1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/03/14 03:22	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/03/14 03:22	1
1,1-Dichloroethane	ND		1.0		ug/L			10/03/14 03:22	1
1,1-Dichloroethene	ND		1.0		ug/L			10/03/14 03:22	1
1,1-Dichloropropene	ND		1.0		ug/L			10/03/14 03:22	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/03/14 03:22	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/03/14 03:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/03/14 03:22	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/03/14 03:22	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/03/14 03:22	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/03/14 03:22	1
1,2-Dichloroethane	ND		1.0		ug/L			10/03/14 03:22	1
1,2-Dichloropropane	ND		1.0		ug/L			10/03/14 03:22	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/03/14 03:22	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/03/14 03:22	1
1,3-Dichloropropane	ND		1.0		ug/L			10/03/14 03:22	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/03/14 03:22	1
1,4-Dioxane	ND		200		ug/L			10/03/14 03:22	1
2,2-Dichloropropane	ND		1.0		ug/L			10/03/14 03:22	1
2-Butanone (MEK)	190		50		ug/L			10/03/14 03:22	1
2-Chlorotoluene	ND		1.0		ug/L			10/03/14 03:22	1
2-Hexanone	ND		10		ug/L			10/03/14 03:22	1
4-Chlorotoluene	ND		1.0		ug/L			10/03/14 03:22	1
4-Isopropyltoluene	ND		1.0		ug/L			10/03/14 03:22	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/03/14 03:22	1
Acetone	34		25		ug/L			10/03/14 03:22	1
Benzene	ND		1.0		ug/L			10/03/14 03:22	1
Bromobenzene	ND		1.0		ug/L			10/03/14 03:22	1
Bromoform	ND		1.0		ug/L			10/03/14 03:22	1
Bromomethane	ND		1.0		ug/L			10/03/14 03:22	1
Carbon disulfide	ND		1.0		ug/L			10/03/14 03:22	1
Carbon tetrachloride	ND		1.0		ug/L			10/03/14 03:22	1
Chlorobenzene	ND		1.0		ug/L			10/03/14 03:22	1
Chlorobromomethane	ND		1.0		ug/L			10/03/14 03:22	1
Chlorodibromomethane	ND		1.0		ug/L			10/03/14 03:22	1
Chloroethane	ND		1.0		ug/L			10/03/14 03:22	1
Chloroform	ND		1.0		ug/L			10/03/14 03:22	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-267M-20140920

Lab Sample ID: 480-67875-12

Date Collected: 09/20/14 12:15

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0		ug/L			10/03/14 03:22	1
cis-1,2-Dichloroethene	91		1.0		ug/L			10/03/14 03:22	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 03:22	1
Dibromomethane	ND		1.0		ug/L			10/03/14 03:22	1
Dichlorobromomethane	ND		1.0		ug/L			10/03/14 03:22	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/03/14 03:22	1
Ethyl ether	ND		5.0		ug/L			10/03/14 03:22	1
Ethylbenzene	ND		1.0		ug/L			10/03/14 03:22	1
Ethylene Dibromide	ND		1.0		ug/L			10/03/14 03:22	1
Hexachlorobutadiene	ND		2.0		ug/L			10/03/14 03:22	1
Isopropyl ether	ND		2.0		ug/L			10/03/14 03:22	1
Isopropylbenzene	ND		1.0		ug/L			10/03/14 03:22	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/03/14 03:22	1
Methylene Chloride	ND		5.0		ug/L			10/03/14 03:22	1
m-Xylene & p-Xylene	3.1		2.0		ug/L			10/03/14 03:22	1
Naphthalene	ND		5.0		ug/L			10/03/14 03:22	1
n-Butylbenzene	ND		1.0		ug/L			10/03/14 03:22	1
N-Propylbenzene	ND		1.0		ug/L			10/03/14 03:22	1
o-Xylene	ND		1.0		ug/L			10/03/14 03:22	1
sec-Butylbenzene	ND		1.0		ug/L			10/03/14 03:22	1
Styrene	ND		1.0		ug/L			10/03/14 03:22	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/03/14 03:22	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/03/14 03:22	1
tert-Butylbenzene	ND		1.0		ug/L			10/03/14 03:22	1
Tetrachloroethene	ND		1.0		ug/L			10/03/14 03:22	1
Tetrahydrofuran	ND		10		ug/L			10/03/14 03:22	1
Toluene	45		1.0		ug/L			10/03/14 03:22	1
trans-1,2-Dichloroethene	1.2		1.0		ug/L			10/03/14 03:22	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 03:22	1
Trichloroethene	ND		1.0		ug/L			10/03/14 03:22	1
Trichlorofluoromethane	ND		1.0		ug/L			10/03/14 03:22	1
Vinyl chloride	83		1.0		ug/L			10/03/14 03:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		70 - 130		10/03/14 03:22	1
Toluene-d8 (Surr)	99		70 - 130		10/03/14 03:22	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		10/03/14 03:22	1
4-Bromofluorobenzene (Surr)	97		70 - 130		10/03/14 03:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.7		0.20		ug/L		09/29/14 13:02	09/30/14 13:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	94		70 - 130	09/29/14 13:02	09/30/14 13:06	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-268S-20140923

Lab Sample ID: 480-67875-13

Date Collected: 09/23/14 10:35

Matrix: Water

Date Received: 09/24/14 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			10/03/14 03:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/03/14 03:50	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/03/14 03:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/03/14 03:50	1
1,1-Dichloroethane	ND		1.0		ug/L			10/03/14 03:50	1
1,1-Dichloroethene	ND		1.0		ug/L			10/03/14 03:50	1
1,1-Dichloropropene	ND		1.0		ug/L			10/03/14 03:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/03/14 03:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/03/14 03:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/03/14 03:50	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/03/14 03:50	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/03/14 03:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/03/14 03:50	1
1,2-Dichloroethane	ND		1.0		ug/L			10/03/14 03:50	1
1,2-Dichloropropane	ND		1.0		ug/L			10/03/14 03:50	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/03/14 03:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/03/14 03:50	1
1,3-Dichloropropane	ND		1.0		ug/L			10/03/14 03:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/03/14 03:50	1
1,4-Dioxane	ND		200		ug/L			10/03/14 03:50	1
2,2-Dichloropropane	ND		1.0		ug/L			10/03/14 03:50	1
2-Butanone (MEK)	ND		50		ug/L			10/03/14 03:50	1
2-Chlorotoluene	ND		1.0		ug/L			10/03/14 03:50	1
2-Hexanone	ND		10		ug/L			10/03/14 03:50	1
4-Chlorotoluene	ND		1.0		ug/L			10/03/14 03:50	1
4-Isopropyltoluene	ND		1.0		ug/L			10/03/14 03:50	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/03/14 03:50	1
Acetone	ND		25		ug/L			10/03/14 03:50	1
Benzene	ND		1.0		ug/L			10/03/14 03:50	1
Bromobenzene	ND		1.0		ug/L			10/03/14 03:50	1
Bromoform	ND		1.0		ug/L			10/03/14 03:50	1
Bromomethane	ND		1.0		ug/L			10/03/14 03:50	1
Carbon disulfide	ND		1.0		ug/L			10/03/14 03:50	1
Carbon tetrachloride	ND		1.0		ug/L			10/03/14 03:50	1
Chlorobenzene	ND		1.0		ug/L			10/03/14 03:50	1
Chlorobromomethane	ND		1.0		ug/L			10/03/14 03:50	1
Chlorodibromomethane	ND		1.0		ug/L			10/03/14 03:50	1
Chloroethane	ND		1.0		ug/L			10/03/14 03:50	1
Chloroform	ND		1.0		ug/L			10/03/14 03:50	1
Chloromethane	ND		1.0		ug/L			10/03/14 03:50	1
cis-1,2-Dichloroethene	28		1.0		ug/L			10/03/14 03:50	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 03:50	1
Dibromomethane	ND		1.0		ug/L			10/03/14 03:50	1
Dichlorobromomethane	ND		1.0		ug/L			10/03/14 03:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/03/14 03:50	1
Ethyl ether	ND		5.0		ug/L			10/03/14 03:50	1
Ethylbenzene	ND		1.0		ug/L			10/03/14 03:50	1
Ethylene Dibromide	ND		1.0		ug/L			10/03/14 03:50	1
Hexachlorobutadiene	ND		2.0		ug/L			10/03/14 03:50	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-268S-20140923

Lab Sample ID: 480-67875-13

Date Collected: 09/23/14 10:35

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		2.0		ug/L			10/03/14 03:50	1
Isopropylbenzene	ND		1.0		ug/L			10/03/14 03:50	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/03/14 03:50	1
Methylene Chloride	ND		5.0		ug/L			10/03/14 03:50	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/03/14 03:50	1
Naphthalene	ND		5.0		ug/L			10/03/14 03:50	1
n-Butylbenzene	ND		1.0		ug/L			10/03/14 03:50	1
N-Propylbenzene	ND		1.0		ug/L			10/03/14 03:50	1
o-Xylene	ND		1.0		ug/L			10/03/14 03:50	1
sec-Butylbenzene	ND		1.0		ug/L			10/03/14 03:50	1
Styrene	ND		1.0		ug/L			10/03/14 03:50	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/03/14 03:50	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/03/14 03:50	1
tert-Butylbenzene	ND		1.0		ug/L			10/03/14 03:50	1
Tetrachloroethene	ND		1.0		ug/L			10/03/14 03:50	1
Tetrahydrofuran	ND		10		ug/L			10/03/14 03:50	1
Toluene	ND		1.0		ug/L			10/03/14 03:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/03/14 03:50	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 03:50	1
Trichloroethene	41		1.0		ug/L			10/03/14 03:50	1
Trichlorofluoromethane	ND		1.0		ug/L			10/03/14 03:50	1
Vinyl chloride	2.4		1.0		ug/L			10/03/14 03:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		70 - 130		10/03/14 03:50	1
Toluene-d8 (Surr)	97		70 - 130		10/03/14 03:50	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		10/03/14 03:50	1
4-Bromofluorobenzene (Surr)	97		70 - 130		10/03/14 03:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.6		0.20		ug/L		09/29/14 13:02	09/30/14 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	87		70 - 130	09/29/14 13:02	09/30/14 13:22	1

Client Sample ID: MW-268M-20140923

Lab Sample ID: 480-67875-14

Date Collected: 09/23/14 09:40

Matrix: Water

Date Received: 09/24/14 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			10/03/14 04:18	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/03/14 04:18	1
1,1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/03/14 04:18	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/03/14 04:18	1
1,1-Dichloroethane	6.8		1.0		ug/L			10/03/14 04:18	1
1,1-Dichloroethene	2.2		1.0		ug/L			10/03/14 04:18	1
1,1-Dichloropropene	ND		1.0		ug/L			10/03/14 04:18	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/03/14 04:18	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-268M-20140923

Lab Sample ID: 480-67875-14

Date Collected: 09/23/14 09:40

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		1.0		ug/L			10/03/14 04:18	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/03/14 04:18	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/03/14 04:18	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/03/14 04:18	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/03/14 04:18	1
1,2-Dichloroethane	ND		1.0		ug/L			10/03/14 04:18	1
1,2-Dichloropropane	ND		1.0		ug/L			10/03/14 04:18	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/03/14 04:18	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/03/14 04:18	1
1,3-Dichloropropane	ND		1.0		ug/L			10/03/14 04:18	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/03/14 04:18	1
1,4-Dioxane	ND		200		ug/L			10/03/14 04:18	1
2,2-Dichloropropane	ND		1.0		ug/L			10/03/14 04:18	1
2-Butanone (MEK)	ND		50		ug/L			10/03/14 04:18	1
2-Chlorotoluene	ND		1.0		ug/L			10/03/14 04:18	1
2-Hexanone	ND		10		ug/L			10/03/14 04:18	1
4-Chlorotoluene	ND		1.0		ug/L			10/03/14 04:18	1
4-Isopropyltoluene	ND		1.0		ug/L			10/03/14 04:18	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/03/14 04:18	1
Acetone	73		25		ug/L			10/03/14 04:18	1
Benzene	3.1		1.0		ug/L			10/03/14 04:18	1
Bromobenzene	ND		1.0		ug/L			10/03/14 04:18	1
Bromoform	ND		1.0		ug/L			10/03/14 04:18	1
Bromomethane	ND		1.0		ug/L			10/03/14 04:18	1
Carbon disulfide	ND		1.0		ug/L			10/03/14 04:18	1
Carbon tetrachloride	ND		1.0		ug/L			10/03/14 04:18	1
Chlorobenzene	ND		1.0		ug/L			10/03/14 04:18	1
Chlorobromomethane	ND		1.0		ug/L			10/03/14 04:18	1
Chlorodibromomethane	ND		1.0		ug/L			10/03/14 04:18	1
Chloroethane	ND		1.0		ug/L			10/03/14 04:18	1
Chloroform	ND		1.0		ug/L			10/03/14 04:18	1
Chloromethane	ND		1.0		ug/L			10/03/14 04:18	1
cis-1,2-Dichloroethene	1700		20		ug/L			10/03/14 14:59	20
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 04:18	1
Dibromomethane	ND		1.0		ug/L			10/03/14 04:18	1
Dichlorobromomethane	ND		1.0		ug/L			10/03/14 04:18	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/03/14 04:18	1
Ethyl ether	ND		5.0		ug/L			10/03/14 04:18	1
Ethylbenzene	ND		1.0		ug/L			10/03/14 04:18	1
Ethylene Dibromide	ND		1.0		ug/L			10/03/14 04:18	1
Hexachlorobutadiene	ND		2.0		ug/L			10/03/14 04:18	1
Isopropyl ether	ND		2.0		ug/L			10/03/14 04:18	1
Isopropylbenzene	ND		1.0		ug/L			10/03/14 04:18	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/03/14 04:18	1
Methylene Chloride	ND		5.0		ug/L			10/03/14 04:18	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/03/14 04:18	1
Naphthalene	ND		5.0		ug/L			10/03/14 04:18	1
n-Butylbenzene	ND		1.0		ug/L			10/03/14 04:18	1
N-Propylbenzene	ND		1.0		ug/L			10/03/14 04:18	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-268M-20140923

Lab Sample ID: 480-67875-14

Date Collected: 09/23/14 09:40

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	1.2		1.0		ug/L			10/03/14 04:18	1
sec-Butylbenzene	ND		1.0		ug/L			10/03/14 04:18	1
Styrene	ND		1.0		ug/L			10/03/14 04:18	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/03/14 04:18	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/03/14 04:18	1
tert-Butylbenzene	ND		1.0		ug/L			10/03/14 04:18	1
Tetrachloroethene	ND		1.0		ug/L			10/03/14 04:18	1
Tetrahydrofuran	ND		10		ug/L			10/03/14 04:18	1
Toluene	6.1		1.0		ug/L			10/03/14 04:18	1
trans-1,2-Dichloroethene	13		1.0		ug/L			10/03/14 04:18	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 04:18	1
Trichloroethene	15		1.0		ug/L			10/03/14 04:18	1
Trichlorofluoromethane	ND		1.0		ug/L			10/03/14 04:18	1
Vinyl chloride	150		1.0		ug/L			10/03/14 04:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		70 - 130					10/03/14 04:18	1
Dibromofluoromethane (Surr)	100		70 - 130					10/03/14 14:59	20
Toluene-d8 (Surr)	101		70 - 130					10/03/14 04:18	1
Toluene-d8 (Surr)	101		70 - 130					10/03/14 14:59	20
1,2-Dichloroethane-d4 (Surr)	111		70 - 130					10/03/14 04:18	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130					10/03/14 14:59	20
4-Bromofluorobenzene (Surr)	97		70 - 130					10/03/14 04:18	1
4-Bromofluorobenzene (Surr)	95		70 - 130					10/03/14 14:59	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	21		0.50		ug/L		09/29/14 13:02	09/30/14 17:45	2.5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	90		70 - 130				09/29/14 13:02	09/30/14 17:45	2.5

Client Sample ID: MW-268D-20140920

Lab Sample ID: 480-67875-15

Date Collected: 09/20/14 12:55

Matrix: Water

Date Received: 09/24/14 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			10/03/14 04:46	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/03/14 04:46	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/03/14 04:46	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/03/14 04:46	1
1,1-Dichloroethane	ND		1.0		ug/L			10/03/14 04:46	1
1,1-Dichloroethene	ND		1.0		ug/L			10/03/14 04:46	1
1,1-Dichloropropene	ND		1.0		ug/L			10/03/14 04:46	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/03/14 04:46	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/03/14 04:46	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/03/14 04:46	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/03/14 04:46	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/03/14 04:46	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-268D-20140920

Lab Sample ID: 480-67875-15

Date Collected: 09/20/14 12:55

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0		ug/L			10/03/14 04:46	1
1,2-Dichloroethane	ND		1.0		ug/L			10/03/14 04:46	1
1,2-Dichloropropane	ND		1.0		ug/L			10/03/14 04:46	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/03/14 04:46	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/03/14 04:46	1
1,3-Dichloropropane	ND		1.0		ug/L			10/03/14 04:46	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/03/14 04:46	1
1,4-Dioxane	ND		200		ug/L			10/03/14 04:46	1
2,2-Dichloropropane	ND		1.0		ug/L			10/03/14 04:46	1
2-Butanone (MEK)	ND		50		ug/L			10/03/14 04:46	1
2-Chlorotoluene	ND		1.0		ug/L			10/03/14 04:46	1
2-Hexanone	ND		10		ug/L			10/03/14 04:46	1
4-Chlorotoluene	ND		1.0		ug/L			10/03/14 04:46	1
4-Isopropyltoluene	ND		1.0		ug/L			10/03/14 04:46	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/03/14 04:46	1
Acetone	ND		25		ug/L			10/03/14 04:46	1
Benzene	ND		1.0		ug/L			10/03/14 04:46	1
Bromobenzene	ND		1.0		ug/L			10/03/14 04:46	1
Bromoform	ND		1.0		ug/L			10/03/14 04:46	1
Bromomethane	ND		1.0		ug/L			10/03/14 04:46	1
Carbon disulfide	ND		1.0		ug/L			10/03/14 04:46	1
Carbon tetrachloride	ND		1.0		ug/L			10/03/14 04:46	1
Chlorobenzene	ND		1.0		ug/L			10/03/14 04:46	1
Chlorobromomethane	ND		1.0		ug/L			10/03/14 04:46	1
Chlorodibromomethane	ND		1.0		ug/L			10/03/14 04:46	1
Chloroethane	ND		1.0		ug/L			10/03/14 04:46	1
Chloroform	ND		1.0		ug/L			10/03/14 04:46	1
Chloromethane	ND		1.0		ug/L			10/03/14 04:46	1
cis-1,2-Dichloroethene	3.3		1.0		ug/L			10/03/14 13:36	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 04:46	1
Dibromomethane	ND		1.0		ug/L			10/03/14 04:46	1
Dichlorobromomethane	ND		1.0		ug/L			10/03/14 04:46	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/03/14 04:46	1
Ethyl ether	ND		5.0		ug/L			10/03/14 04:46	1
Ethylbenzene	ND		1.0		ug/L			10/03/14 04:46	1
Ethylene Dibromide	ND		1.0		ug/L			10/03/14 04:46	1
Hexachlorobutadiene	ND		2.0		ug/L			10/03/14 04:46	1
Isopropyl ether	ND		2.0		ug/L			10/03/14 04:46	1
Isopropylbenzene	ND		1.0		ug/L			10/03/14 04:46	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/03/14 04:46	1
Methylene Chloride	ND		5.0		ug/L			10/03/14 04:46	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/03/14 04:46	1
Naphthalene	ND		5.0		ug/L			10/03/14 04:46	1
n-Butylbenzene	ND		1.0		ug/L			10/03/14 04:46	1
N-Propylbenzene	ND		1.0		ug/L			10/03/14 04:46	1
o-Xylene	ND		1.0		ug/L			10/03/14 04:46	1
sec-Butylbenzene	ND		1.0		ug/L			10/03/14 04:46	1
Styrene	ND		1.0		ug/L			10/03/14 04:46	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/03/14 04:46	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-268D-20140920

Lab Sample ID: 480-67875-15

Date Collected: 09/20/14 12:55

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-butyl ethyl ether	ND		1.0		ug/L			10/03/14 04:46	1
tert-Butylbenzene	ND		1.0		ug/L			10/03/14 04:46	1
Tetrachloroethene	ND		1.0		ug/L			10/03/14 04:46	1
Tetrahydrofuran	ND		10		ug/L			10/03/14 04:46	1
Toluene	2.1		1.0		ug/L			10/03/14 04:46	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/03/14 04:46	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 04:46	1
Trichloroethene	ND		1.0		ug/L			10/03/14 04:46	1
Trichlorofluoromethane	ND		1.0		ug/L			10/03/14 04:46	1
Vinyl chloride	1.5		1.0		ug/L			10/03/14 04:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Dibromofluoromethane (Surr)</i>	99		70 - 130					10/03/14 04:46	1
<i>Dibromofluoromethane (Surr)</i>	98		70 - 130					10/03/14 13:36	1
<i>Toluene-d8 (Surr)</i>	98		70 - 130					10/03/14 04:46	1
<i>Toluene-d8 (Surr)</i>	101		70 - 130					10/03/14 13:36	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	110		70 - 130					10/03/14 04:46	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	102		70 - 130					10/03/14 13:36	1
<i>4-Bromofluorobenzene (Surr)</i>	94		70 - 130					10/03/14 04:46	1
<i>4-Bromofluorobenzene (Surr)</i>	94		70 - 130					10/03/14 13:36	1

Client Sample ID: MW-269Ma-20140920

Lab Sample ID: 480-67875-16

Date Collected: 09/20/14 14:00

Matrix: Water

Date Received: 09/24/14 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			10/03/14 05:14	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/03/14 05:14	1
1,1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/03/14 05:14	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/03/14 05:14	1
1,1-Dichloroethane	ND		1.0		ug/L			10/03/14 05:14	1
1,1-Dichloroethene	ND		1.0		ug/L			10/03/14 05:14	1
1,1-Dichloropropene	ND		1.0		ug/L			10/03/14 05:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/03/14 05:14	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/03/14 05:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/03/14 05:14	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/03/14 05:14	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/03/14 05:14	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/03/14 05:14	1
1,2-Dichloroethane	ND		1.0		ug/L			10/03/14 05:14	1
1,2-Dichloropropane	ND		1.0		ug/L			10/03/14 05:14	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/03/14 05:14	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/03/14 05:14	1
1,3-Dichloropropane	ND		1.0		ug/L			10/03/14 05:14	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/03/14 05:14	1
1,4-Dioxane	ND		200		ug/L			10/03/14 05:14	1
2,2-Dichloropropane	ND		1.0		ug/L			10/03/14 05:14	1
2-Butanone (MEK)	ND		50		ug/L			10/03/14 05:14	1
2-Chlorotoluene	ND		1.0		ug/L			10/03/14 05:14	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-269Ma-20140920

Lab Sample ID: 480-67875-16

Date Collected: 09/20/14 14:00

Matrix: Water

Date Received: 09/24/14 01:00

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			10/03/14 05:14	1
4-Chlorotoluene	ND		1.0		ug/L			10/03/14 05:14	1
4-Isopropyltoluene	ND		1.0		ug/L			10/03/14 05:14	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/03/14 05:14	1
Acetone	ND		25		ug/L			10/03/14 05:14	1
Benzene	ND		1.0		ug/L			10/03/14 05:14	1
Bromobenzene	ND		1.0		ug/L			10/03/14 05:14	1
Bromoform	ND		1.0		ug/L			10/03/14 05:14	1
Bromomethane	ND		1.0		ug/L			10/03/14 05:14	1
Carbon disulfide	ND		1.0		ug/L			10/03/14 05:14	1
Carbon tetrachloride	ND		1.0		ug/L			10/03/14 05:14	1
Chlorobenzene	ND		1.0		ug/L			10/03/14 05:14	1
Chlorobromomethane	ND		1.0		ug/L			10/03/14 05:14	1
Chlorodibromomethane	ND		1.0		ug/L			10/03/14 05:14	1
Chloroethane	ND		1.0		ug/L			10/03/14 05:14	1
Chloroform	ND		1.0		ug/L			10/03/14 05:14	1
Chloromethane	ND		1.0		ug/L			10/03/14 05:14	1
cis-1,2-Dichloroethene	2.6		1.0		ug/L			10/03/14 05:14	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 05:14	1
Dibromomethane	ND		1.0		ug/L			10/03/14 05:14	1
Dichlorobromomethane	ND		1.0		ug/L			10/03/14 05:14	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/03/14 05:14	1
Ethyl ether	ND		5.0		ug/L			10/03/14 05:14	1
Ethylbenzene	ND		1.0		ug/L			10/03/14 05:14	1
Ethylene Dibromide	ND		1.0		ug/L			10/03/14 05:14	1
Hexachlorobutadiene	ND		2.0		ug/L			10/03/14 05:14	1
Isopropyl ether	ND		2.0		ug/L			10/03/14 05:14	1
Isopropylbenzene	ND		1.0		ug/L			10/03/14 05:14	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/03/14 05:14	1
Methylene Chloride	ND		5.0		ug/L			10/03/14 05:14	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/03/14 05:14	1
Naphthalene	ND		5.0		ug/L			10/03/14 05:14	1
n-Butylbenzene	ND		1.0		ug/L			10/03/14 05:14	1
N-Propylbenzene	ND		1.0		ug/L			10/03/14 05:14	1
o-Xylene	ND		1.0		ug/L			10/03/14 05:14	1
sec-Butylbenzene	ND		1.0		ug/L			10/03/14 05:14	1
Styrene	ND		1.0		ug/L			10/03/14 05:14	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/03/14 05:14	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/03/14 05:14	1
tert-Butylbenzene	ND		1.0		ug/L			10/03/14 05:14	1
Tetrachloroethene	ND		1.0		ug/L			10/03/14 05:14	1
Tetrahydrofuran	ND		10		ug/L			10/03/14 05:14	1
Toluene	ND		1.0		ug/L			10/03/14 05:14	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/03/14 05:14	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 05:14	1
Trichloroethene	2.4		1.0		ug/L			10/03/14 05:14	1
Trichlorofluoromethane	ND		1.0		ug/L			10/03/14 05:14	1
Vinyl chloride	ND		1.0		ug/L			10/03/14 05:14	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-269Ma-20140920

Lab Sample ID: 480-67875-16

Date Collected: 09/20/14 14:00

Matrix: Water

Date Received: 09/24/14 01:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		70 - 130		10/03/14 05:14	1
Toluene-d8 (Surr)	96		70 - 130		10/03/14 05:14	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		10/03/14 05:14	1
4-Bromofluorobenzene (Surr)	96		70 - 130		10/03/14 05:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.4		0.20		ug/L		09/29/14 13:02	09/30/14 13:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	88		70 - 130	09/29/14 13:02	09/30/14 13:55	1

Client Sample ID: MW-551-20140920

Lab Sample ID: 480-67875-17

Date Collected: 09/20/14 08:40

Matrix: Water

Date Received: 09/24/14 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			10/03/14 05:42	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/03/14 05:42	1
1,1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/03/14 05:42	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/03/14 05:42	1
1,1-Dichloroethane	ND		1.0		ug/L			10/03/14 05:42	1
1,1-Dichloroethene	ND		1.0		ug/L			10/03/14 05:42	1
1,1-Dichloropropene	ND		1.0		ug/L			10/03/14 05:42	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/03/14 05:42	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/03/14 05:42	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/03/14 05:42	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/03/14 05:42	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/03/14 05:42	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/03/14 05:42	1
1,2-Dichloroethane	ND		1.0		ug/L			10/03/14 05:42	1
1,2-Dichloropropane	ND		1.0		ug/L			10/03/14 05:42	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/03/14 05:42	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/03/14 05:42	1
1,3-Dichloropropane	ND		1.0		ug/L			10/03/14 05:42	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/03/14 05:42	1
1,4-Dioxane	ND		200		ug/L			10/03/14 05:42	1
2,2-Dichloropropane	ND		1.0		ug/L			10/03/14 05:42	1
2-Butanone (MEK)	ND		50		ug/L			10/03/14 05:42	1
2-Chlorotoluene	ND		1.0		ug/L			10/03/14 05:42	1
2-Hexanone	ND		10		ug/L			10/03/14 05:42	1
4-Chlorotoluene	ND		1.0		ug/L			10/03/14 05:42	1
4-Isopropyltoluene	ND		1.0		ug/L			10/03/14 05:42	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/03/14 05:42	1
Acetone	520		25		ug/L			10/03/14 05:42	1
Benzene	ND		1.0		ug/L			10/03/14 05:42	1
Bromobenzene	ND		1.0		ug/L			10/03/14 05:42	1
Bromoform	ND		1.0		ug/L			10/03/14 05:42	1
Bromomethane	ND		1.0		ug/L			10/03/14 05:42	1
Carbon disulfide	ND		1.0		ug/L			10/03/14 05:42	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-551-20140920

Lab Sample ID: 480-67875-17

Date Collected: 09/20/14 08:40

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0		ug/L			10/03/14 05:42	1
Chlorobenzene	ND		1.0		ug/L			10/03/14 05:42	1
Chlorobromomethane	ND		1.0		ug/L			10/03/14 05:42	1
Chlorodibromomethane	ND		1.0		ug/L			10/03/14 05:42	1
Chloroethane	ND		1.0		ug/L			10/03/14 05:42	1
Chloroform	ND		1.0		ug/L			10/03/14 05:42	1
Chloromethane	ND		1.0		ug/L			10/03/14 05:42	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/03/14 05:42	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 05:42	1
Dibromomethane	ND		1.0		ug/L			10/03/14 05:42	1
Dichlorobromomethane	ND		1.0		ug/L			10/03/14 05:42	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/03/14 05:42	1
Ethyl ether	ND		5.0		ug/L			10/03/14 05:42	1
Ethylbenzene	3.9		1.0		ug/L			10/03/14 05:42	1
Ethylene Dibromide	ND		1.0		ug/L			10/03/14 05:42	1
Hexachlorobutadiene	ND		2.0		ug/L			10/03/14 05:42	1
Isopropyl ether	ND		2.0		ug/L			10/03/14 05:42	1
Isopropylbenzene	ND		1.0		ug/L			10/03/14 05:42	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/03/14 05:42	1
Methylene Chloride	ND		5.0		ug/L			10/03/14 05:42	1
m-Xylene & p-Xylene	12		2.0		ug/L			10/03/14 05:42	1
Naphthalene	ND		5.0		ug/L			10/03/14 05:42	1
n-Butylbenzene	ND		1.0		ug/L			10/03/14 05:42	1
N-Propylbenzene	ND		1.0		ug/L			10/03/14 05:42	1
o-Xylene	1.6		1.0		ug/L			10/03/14 05:42	1
sec-Butylbenzene	ND		1.0		ug/L			10/03/14 05:42	1
Styrene	ND		1.0		ug/L			10/03/14 05:42	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/03/14 05:42	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/03/14 05:42	1
tert-Butylbenzene	ND		1.0		ug/L			10/03/14 05:42	1
Tetrachloroethene	ND		1.0		ug/L			10/03/14 05:42	1
Tetrahydrofuran	ND		10		ug/L			10/03/14 05:42	1
Toluene	11		1.0		ug/L			10/03/14 05:42	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/03/14 05:42	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 05:42	1
Trichloroethene	ND		1.0		ug/L			10/03/14 05:42	1
Trichlorofluoromethane	ND		1.0		ug/L			10/03/14 05:42	1
Vinyl chloride	2.2		1.0		ug/L			10/03/14 05:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	95		70 - 130					10/03/14 05:42	1
Toluene-d8 (Surr)	97		70 - 130					10/03/14 05:42	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130					10/03/14 05:42	1
4-Bromofluorobenzene (Surr)	101		70 - 130					10/03/14 05:42	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-552-20140923

Lab Sample ID: 480-67875-18

Date Collected: 09/23/14 08:35

Matrix: Water

Date Received: 09/24/14 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			10/03/14 06:10	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/03/14 06:10	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/03/14 06:10	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/03/14 06:10	1
1,1-Dichloroethane	ND		1.0		ug/L			10/03/14 06:10	1
1,1-Dichloroethene	ND		1.0		ug/L			10/03/14 06:10	1
1,1-Dichloropropene	ND		1.0		ug/L			10/03/14 06:10	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/03/14 06:10	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/03/14 06:10	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/03/14 06:10	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/03/14 06:10	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/03/14 06:10	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/03/14 06:10	1
1,2-Dichloroethane	ND		1.0		ug/L			10/03/14 06:10	1
1,2-Dichloropropane	ND		1.0		ug/L			10/03/14 06:10	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/03/14 06:10	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/03/14 06:10	1
1,3-Dichloropropane	ND		1.0		ug/L			10/03/14 06:10	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/03/14 06:10	1
1,4-Dioxane	ND		200		ug/L			10/03/14 06:10	1
2,2-Dichloropropane	ND		1.0		ug/L			10/03/14 06:10	1
2-Butanone (MEK)	230		50		ug/L			10/03/14 06:10	1
2-Chlorotoluene	ND		1.0		ug/L			10/03/14 06:10	1
2-Hexanone	ND		10		ug/L			10/03/14 06:10	1
4-Chlorotoluene	ND		1.0		ug/L			10/03/14 06:10	1
4-Isopropyltoluene	ND		1.0		ug/L			10/03/14 06:10	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/03/14 06:10	1
Acetone	10000		500		ug/L			10/03/14 15:27	20
Benzene	ND		1.0		ug/L			10/03/14 06:10	1
Bromobenzene	ND		1.0		ug/L			10/03/14 06:10	1
Bromoform	ND		1.0		ug/L			10/03/14 06:10	1
Bromomethane	ND		1.0		ug/L			10/03/14 06:10	1
Carbon disulfide	ND		1.0		ug/L			10/03/14 06:10	1
Carbon tetrachloride	ND		1.0		ug/L			10/03/14 06:10	1
Chlorobenzene	ND		1.0		ug/L			10/03/14 06:10	1
Chlorobromomethane	ND		1.0		ug/L			10/03/14 06:10	1
Chlorodibromomethane	ND		1.0		ug/L			10/03/14 06:10	1
Chloroethane	ND		1.0		ug/L			10/03/14 06:10	1
Chloroform	ND		1.0		ug/L			10/03/14 06:10	1
Chloromethane	ND		1.0		ug/L			10/03/14 06:10	1
cis-1,2-Dichloroethene	2.7		1.0		ug/L			10/03/14 06:10	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 06:10	1
Dibromomethane	ND		1.0		ug/L			10/03/14 06:10	1
Dichlorobromomethane	ND		1.0		ug/L			10/03/14 06:10	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/03/14 06:10	1
Ethyl ether	ND		5.0		ug/L			10/03/14 06:10	1
Ethylbenzene	4.1		1.0		ug/L			10/03/14 06:10	1
Ethylene Dibromide	ND		1.0		ug/L			10/03/14 06:10	1
Hexachlorobutadiene	ND		2.0		ug/L			10/03/14 06:10	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-552-20140923

Lab Sample ID: 480-67875-18

Date Collected: 09/23/14 08:35

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		2.0		ug/L			10/03/14 06:10	1
Isopropylbenzene	ND		1.0		ug/L			10/03/14 06:10	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/03/14 06:10	1
Methylene Chloride	ND		5.0		ug/L			10/03/14 06:10	1
m-Xylene & p-Xylene	15		2.0		ug/L			10/03/14 06:10	1
Naphthalene	ND		5.0		ug/L			10/03/14 06:10	1
n-Butylbenzene	ND		1.0		ug/L			10/03/14 06:10	1
N-Propylbenzene	ND		1.0		ug/L			10/03/14 06:10	1
o-Xylene	4.2		1.0		ug/L			10/03/14 06:10	1
sec-Butylbenzene	ND		1.0		ug/L			10/03/14 06:10	1
Styrene	ND		1.0		ug/L			10/03/14 06:10	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/03/14 06:10	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/03/14 06:10	1
tert-Butylbenzene	ND		1.0		ug/L			10/03/14 06:10	1
Tetrachloroethene	ND		1.0		ug/L			10/03/14 06:10	1
Tetrahydrofuran	ND		10		ug/L			10/03/14 06:10	1
Toluene	14		1.0		ug/L			10/03/14 06:10	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/03/14 06:10	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 06:10	1
Trichloroethene	ND		1.0		ug/L			10/03/14 06:10	1
Trichlorofluoromethane	ND		1.0		ug/L			10/03/14 06:10	1
Vinyl chloride	ND		1.0		ug/L			10/03/14 06:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	109		70 - 130		10/03/14 06:10	1
Dibromofluoromethane (Surr)	96		70 - 130		10/03/14 15:27	20
Toluene-d8 (Surr)	98		70 - 130		10/03/14 06:10	1
Toluene-d8 (Surr)	103		70 - 130		10/03/14 15:27	20
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		10/03/14 06:10	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		10/03/14 15:27	20
4-Bromofluorobenzene (Surr)	95		70 - 130		10/03/14 06:10	1
4-Bromofluorobenzene (Surr)	94		70 - 130		10/03/14 15:27	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.2		0.20		ug/L		09/29/14 13:02	09/30/14 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	86		70 - 130	09/29/14 13:02	09/30/14 14:12	1

Client Sample ID: MW-553-20140922

Lab Sample ID: 480-67875-19

Date Collected: 09/22/14 14:10

Matrix: Water

Date Received: 09/24/14 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			10/03/14 06:38	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/03/14 06:38	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/03/14 06:38	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/03/14 06:38	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-553-20140922

Lab Sample ID: 480-67875-19

Date Collected: 09/22/14 14:10

Matrix: Water

Date Received: 09/24/14 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			10/03/14 06:38	1
1,1-Dichloroethene	ND		1.0		ug/L			10/03/14 06:38	1
1,1-Dichloropropene	ND		1.0		ug/L			10/03/14 06:38	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/03/14 06:38	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/03/14 06:38	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/03/14 06:38	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/03/14 06:38	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/03/14 06:38	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/03/14 06:38	1
1,2-Dichloroethane	ND		1.0		ug/L			10/03/14 06:38	1
1,2-Dichloropropane	ND		1.0		ug/L			10/03/14 06:38	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/03/14 06:38	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/03/14 06:38	1
1,3-Dichloropropane	ND		1.0		ug/L			10/03/14 06:38	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/03/14 06:38	1
1,4-Dioxane	ND		200		ug/L			10/03/14 06:38	1
2,2-Dichloropropane	ND		1.0		ug/L			10/03/14 06:38	1
2-Butanone (MEK)	ND		50		ug/L			10/03/14 06:38	1
2-Chlorotoluene	ND		1.0		ug/L			10/03/14 06:38	1
2-Hexanone	ND		10		ug/L			10/03/14 06:38	1
4-Chlorotoluene	ND		1.0		ug/L			10/03/14 06:38	1
4-Isopropyltoluene	ND		1.0		ug/L			10/03/14 06:38	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/03/14 06:38	1
Acetone	ND		25		ug/L			10/03/14 14:03	1
Benzene	ND		1.0		ug/L			10/03/14 06:38	1
Bromobenzene	ND		1.0		ug/L			10/03/14 06:38	1
Bromoform	ND		1.0		ug/L			10/03/14 06:38	1
Bromomethane	ND		1.0		ug/L			10/03/14 06:38	1
Carbon disulfide	ND		1.0		ug/L			10/03/14 06:38	1
Carbon tetrachloride	ND		1.0		ug/L			10/03/14 06:38	1
Chlorobenzene	ND		1.0		ug/L			10/03/14 06:38	1
Chlorobromomethane	ND		1.0		ug/L			10/03/14 06:38	1
Chlorodibromomethane	ND		1.0		ug/L			10/03/14 06:38	1
Chloroethane	ND		1.0		ug/L			10/03/14 06:38	1
Chloroform	ND		1.0		ug/L			10/03/14 06:38	1
Chloromethane	ND		1.0		ug/L			10/03/14 06:38	1
cis-1,2-Dichloroethene	37		1.0		ug/L			10/03/14 06:38	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 06:38	1
Dibromomethane	ND		1.0		ug/L			10/03/14 06:38	1
Dichlorobromomethane	ND		1.0		ug/L			10/03/14 06:38	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/03/14 06:38	1
Ethyl ether	ND		5.0		ug/L			10/03/14 06:38	1
Ethylbenzene	6.1		1.0		ug/L			10/03/14 06:38	1
Ethylene Dibromide	ND		1.0		ug/L			10/03/14 06:38	1
Hexachlorobutadiene	ND		2.0		ug/L			10/03/14 06:38	1
Isopropyl ether	ND		2.0		ug/L			10/03/14 06:38	1
Isopropylbenzene	ND		1.0		ug/L			10/03/14 06:38	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/03/14 06:38	1
Methylene Chloride	ND		5.0		ug/L			10/03/14 06:38	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-553-20140922

Lab Sample ID: 480-67875-19

Date Collected: 09/22/14 14:10

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	27		2.0		ug/L			10/03/14 06:38	1
Naphthalene	ND		5.0		ug/L			10/03/14 06:38	1
n-Butylbenzene	ND		1.0		ug/L			10/03/14 06:38	1
N-Propylbenzene	ND		1.0		ug/L			10/03/14 06:38	1
o-Xylene	5.3		1.0		ug/L			10/03/14 06:38	1
sec-Butylbenzene	ND		1.0		ug/L			10/03/14 06:38	1
Styrene	ND		1.0		ug/L			10/03/14 06:38	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/03/14 06:38	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/03/14 06:38	1
tert-Butylbenzene	ND		1.0		ug/L			10/03/14 06:38	1
Tetrachloroethene	ND		1.0		ug/L			10/03/14 06:38	1
Tetrahydrofuran	ND		10		ug/L			10/03/14 06:38	1
Toluene	15		1.0		ug/L			10/03/14 06:38	1
trans-1,2-Dichloroethene	1.7		1.0		ug/L			10/03/14 06:38	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 06:38	1
Trichloroethene	ND		1.0		ug/L			10/03/14 06:38	1
Trichlorofluoromethane	ND		1.0		ug/L			10/03/14 06:38	1
Vinyl chloride	46		1.0		ug/L			10/03/14 06:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		70 - 130					10/03/14 06:38	1
Dibromofluoromethane (Surr)	94		70 - 130					10/03/14 14:03	1
Toluene-d8 (Surr)	98		70 - 130					10/03/14 06:38	1
Toluene-d8 (Surr)	100		70 - 130					10/03/14 14:03	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130					10/03/14 06:38	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130					10/03/14 14:03	1
4-Bromofluorobenzene (Surr)	96		70 - 130					10/03/14 06:38	1
4-Bromofluorobenzene (Surr)	100		70 - 130					10/03/14 14:03	1

Client Sample ID: MW-560-20140922

Lab Sample ID: 480-67875-20

Date Collected: 09/22/14 12:10

Matrix: Water

Date Received: 09/24/14 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			10/03/14 07:06	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/03/14 07:06	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/03/14 07:06	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/03/14 07:06	1
1,1-Dichloroethane	ND		1.0		ug/L			10/03/14 07:06	1
1,1-Dichloroethene	ND		1.0		ug/L			10/03/14 07:06	1
1,1-Dichloropropene	ND		1.0		ug/L			10/03/14 07:06	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/03/14 07:06	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/03/14 07:06	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/03/14 07:06	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/03/14 07:06	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/03/14 07:06	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/03/14 07:06	1
1,2-Dichloroethane	ND		1.0		ug/L			10/03/14 07:06	1
1,2-Dichloropropane	ND		1.0		ug/L			10/03/14 07:06	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-560-20140922

Lab Sample ID: 480-67875-20

Date Collected: 09/22/14 12:10

Matrix: Water

Date Received: 09/24/14 01:00

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			10/03/14 07:06	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/03/14 07:06	1
1,3-Dichloropropane	ND		1.0		ug/L			10/03/14 07:06	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/03/14 07:06	1
1,4-Dioxane	ND		200		ug/L			10/03/14 07:06	1
2,2-Dichloropropane	ND		1.0		ug/L			10/03/14 07:06	1
2-Butanone (MEK)	130		50		ug/L			10/03/14 07:06	1
2-Chlorotoluene	ND		1.0		ug/L			10/03/14 07:06	1
2-Hexanone	ND		10		ug/L			10/03/14 07:06	1
4-Chlorotoluene	ND		1.0		ug/L			10/03/14 07:06	1
4-Isopropyltoluene	ND		1.0		ug/L			10/03/14 07:06	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/03/14 07:06	1
Acetone	32		25		ug/L			10/03/14 07:06	1
Benzene	ND		1.0		ug/L			10/03/14 07:06	1
Bromobenzene	ND		1.0		ug/L			10/03/14 07:06	1
Bromoform	ND		1.0		ug/L			10/03/14 07:06	1
Bromomethane	ND		1.0		ug/L			10/03/14 07:06	1
Carbon disulfide	ND		1.0		ug/L			10/03/14 07:06	1
Carbon tetrachloride	ND		1.0		ug/L			10/03/14 07:06	1
Chlorobenzene	ND		1.0		ug/L			10/03/14 07:06	1
Chlorobromomethane	ND		1.0		ug/L			10/03/14 07:06	1
Chlorodibromomethane	ND		1.0		ug/L			10/03/14 07:06	1
Chloroethane	ND		1.0		ug/L			10/03/14 07:06	1
Chloroform	ND		1.0		ug/L			10/03/14 07:06	1
Chloromethane	ND		1.0		ug/L			10/03/14 07:06	1
cis-1,2-Dichloroethene	35		1.0		ug/L			10/03/14 07:06	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 07:06	1
Dibromomethane	ND		1.0		ug/L			10/03/14 07:06	1
Dichlorobromomethane	ND		1.0		ug/L			10/03/14 07:06	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/03/14 07:06	1
Ethyl ether	ND		5.0		ug/L			10/03/14 07:06	1
Ethylbenzene	ND		1.0		ug/L			10/03/14 07:06	1
Ethylene Dibromide	ND		1.0		ug/L			10/03/14 07:06	1
Hexachlorobutadiene	ND		2.0		ug/L			10/03/14 07:06	1
Isopropyl ether	ND		2.0		ug/L			10/03/14 07:06	1
Isopropylbenzene	ND		1.0		ug/L			10/03/14 07:06	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/03/14 07:06	1
Methylene Chloride	ND		5.0		ug/L			10/03/14 07:06	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/03/14 07:06	1
Naphthalene	ND		5.0		ug/L			10/03/14 07:06	1
n-Butylbenzene	ND		1.0		ug/L			10/03/14 07:06	1
N-Propylbenzene	ND		1.0		ug/L			10/03/14 07:06	1
o-Xylene	ND		1.0		ug/L			10/03/14 07:06	1
sec-Butylbenzene	ND		1.0		ug/L			10/03/14 07:06	1
Styrene	ND		1.0		ug/L			10/03/14 07:06	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/03/14 07:06	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/03/14 07:06	1
tert-Butylbenzene	ND		1.0		ug/L			10/03/14 07:06	1
Tetrachloroethene	ND		1.0		ug/L			10/03/14 07:06	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-560-20140922

Lab Sample ID: 480-67875-20

Date Collected: 09/22/14 12:10

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	ND		10		ug/L			10/03/14 07:06	1
Toluene	22		1.0		ug/L			10/03/14 07:06	1
trans-1,2-Dichloroethene	1.1		1.0		ug/L			10/03/14 07:06	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 07:06	1
Trichloroethene	ND		1.0		ug/L			10/03/14 07:06	1
Trichlorofluoromethane	ND		1.0		ug/L			10/03/14 07:06	1
Vinyl chloride	35		1.0		ug/L			10/03/14 07:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Dibromofluoromethane (Surr)</i>	111		70 - 130					10/03/14 07:06	1
<i>Toluene-d8 (Surr)</i>	92		70 - 130					10/03/14 07:06	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	119		70 - 130					10/03/14 07:06	1
<i>4-Bromofluorobenzene (Surr)</i>	95		70 - 130					10/03/14 07:06	1

Client Sample ID: MW-561-20140922

Lab Sample ID: 480-67875-21

Date Collected: 09/22/14 10:50

Matrix: Water

Date Received: 09/24/14 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			10/02/14 17:13	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/02/14 17:13	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/02/14 17:13	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/02/14 17:13	1
1,1-Dichloroethane	ND		1.0		ug/L			10/02/14 17:13	1
1,1-Dichloroethene	ND		1.0		ug/L			10/02/14 17:13	1
1,1-Dichloropropene	ND		1.0		ug/L			10/02/14 17:13	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/02/14 17:13	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/02/14 17:13	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/02/14 17:13	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/02/14 17:13	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/02/14 17:13	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/02/14 17:13	1
1,2-Dichloroethane	ND		1.0		ug/L			10/02/14 17:13	1
1,2-Dichloropropane	ND		1.0		ug/L			10/02/14 17:13	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/02/14 17:13	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/02/14 17:13	1
1,3-Dichloropropane	ND		1.0		ug/L			10/02/14 17:13	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/02/14 17:13	1
1,4-Dioxane	ND		200		ug/L			10/02/14 17:13	1
2,2-Dichloropropane	ND		1.0		ug/L			10/02/14 17:13	1
2-Butanone (MEK)	130		50		ug/L			10/02/14 17:13	1
2-Chlorotoluene	ND		1.0		ug/L			10/02/14 17:13	1
2-Hexanone	ND		10		ug/L			10/02/14 17:13	1
4-Chlorotoluene	ND		1.0		ug/L			10/02/14 17:13	1
4-Isopropyltoluene	ND		1.0		ug/L			10/02/14 17:13	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/02/14 17:13	1
Acetone	ND		25		ug/L			10/02/14 17:13	1
Benzene	ND		1.0		ug/L			10/02/14 17:13	1
Bromobenzene	ND		1.0		ug/L			10/02/14 17:13	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-561-20140922

Lab Sample ID: 480-67875-21

Date Collected: 09/22/14 10:50

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0		ug/L			10/02/14 17:13	1
Bromomethane	ND		1.0		ug/L			10/02/14 17:13	1
Carbon disulfide	ND		1.0		ug/L			10/02/14 17:13	1
Carbon tetrachloride	ND		1.0		ug/L			10/02/14 17:13	1
Chlorobenzene	ND		1.0		ug/L			10/02/14 17:13	1
Chlorobromomethane	ND		1.0		ug/L			10/02/14 17:13	1
Chlorodibromomethane	ND		1.0		ug/L			10/02/14 17:13	1
Chloroethane	ND		1.0		ug/L			10/02/14 17:13	1
Chloroform	ND		1.0		ug/L			10/02/14 17:13	1
Chloromethane	ND		1.0		ug/L			10/02/14 17:13	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/02/14 17:13	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 17:13	1
Dibromomethane	ND		1.0		ug/L			10/02/14 17:13	1
Dichlorobromomethane	ND		1.0		ug/L			10/02/14 17:13	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/02/14 17:13	1
Ethyl ether	ND		5.0		ug/L			10/02/14 17:13	1
Ethylbenzene	6.8		1.0		ug/L			10/02/14 17:13	1
Ethylene Dibromide	ND		1.0		ug/L			10/02/14 17:13	1
Hexachlorobutadiene	ND		2.0		ug/L			10/02/14 17:13	1
Isopropyl ether	ND		2.0		ug/L			10/02/14 17:13	1
Isopropylbenzene	ND		1.0		ug/L			10/02/14 17:13	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/02/14 17:13	1
Methylene Chloride	ND		5.0		ug/L			10/02/14 17:13	1
m-Xylene & p-Xylene	29		2.0		ug/L			10/02/14 17:13	1
Naphthalene	ND		5.0		ug/L			10/02/14 17:13	1
n-Butylbenzene	ND		1.0		ug/L			10/02/14 17:13	1
N-Propylbenzene	ND		1.0		ug/L			10/02/14 17:13	1
o-Xylene	6.7		1.0		ug/L			10/02/14 17:13	1
sec-Butylbenzene	ND		1.0		ug/L			10/02/14 17:13	1
Styrene	ND		1.0		ug/L			10/02/14 17:13	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/02/14 17:13	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/02/14 17:13	1
tert-Butylbenzene	ND		1.0		ug/L			10/02/14 17:13	1
Tetrachloroethene	ND		1.0		ug/L			10/02/14 17:13	1
Tetrahydrofuran	ND		10		ug/L			10/02/14 17:13	1
Toluene	210		5.0		ug/L			10/03/14 13:37	5
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/02/14 17:13	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 17:13	1
Trichloroethene	ND		1.0		ug/L			10/02/14 17:13	1
Trichlorofluoromethane	ND		1.0		ug/L			10/02/14 17:13	1
Vinyl chloride	64		1.0		ug/L			10/02/14 17:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		70 - 130		10/02/14 17:13	1
Dibromofluoromethane (Surr)	103		70 - 130		10/03/14 13:37	5
Toluene-d8 (Surr)	114		70 - 130		10/02/14 17:13	1
Toluene-d8 (Surr)	99		70 - 130		10/03/14 13:37	5
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		10/02/14 17:13	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		10/03/14 13:37	5
4-Bromofluorobenzene (Surr)	98		70 - 130		10/02/14 17:13	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-561-20140922

Lab Sample ID: 480-67875-21

Date Collected: 09/22/14 10:50

Matrix: Water

Date Received: 09/24/14 01:00

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130		10/03/14 13:37	5

Client Sample ID: MW-562-20140922

Lab Sample ID: 480-67875-22

Date Collected: 09/22/14 09:40

Matrix: Water

Date Received: 09/24/14 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			10/02/14 17:40	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/02/14 17:40	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/02/14 17:40	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/02/14 17:40	1
1,1-Dichloroethane	ND		1.0		ug/L			10/02/14 17:40	1
1,1-Dichloroethene	ND		1.0		ug/L			10/02/14 17:40	1
1,1-Dichloropropene	ND		1.0		ug/L			10/02/14 17:40	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/02/14 17:40	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/02/14 17:40	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/02/14 17:40	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/02/14 17:40	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/02/14 17:40	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/02/14 17:40	1
1,2-Dichloroethane	ND		1.0		ug/L			10/02/14 17:40	1
1,2-Dichloropropane	ND		1.0		ug/L			10/02/14 17:40	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/02/14 17:40	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/02/14 17:40	1
1,3-Dichloropropane	ND		1.0		ug/L			10/02/14 17:40	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/02/14 17:40	1
1,4-Dioxane	ND		200		ug/L			10/02/14 17:40	1
2,2-Dichloropropane	ND		1.0		ug/L			10/02/14 17:40	1
2-Butanone (MEK)	180		50		ug/L			10/02/14 17:40	1
2-Chlorotoluene	ND		1.0		ug/L			10/02/14 17:40	1
2-Hexanone	ND		10		ug/L			10/02/14 17:40	1
4-Chlorotoluene	ND		1.0		ug/L			10/02/14 17:40	1
4-Isopropyltoluene	ND		1.0		ug/L			10/02/14 17:40	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/02/14 17:40	1
Acetone	ND		25		ug/L			10/02/14 17:40	1
Benzene	ND		1.0		ug/L			10/02/14 17:40	1
Bromobenzene	ND		1.0		ug/L			10/02/14 17:40	1
Bromoform	ND		1.0		ug/L			10/02/14 17:40	1
Bromomethane	ND		1.0		ug/L			10/02/14 17:40	1
Carbon disulfide	ND		1.0		ug/L			10/02/14 17:40	1
Carbon tetrachloride	ND		1.0		ug/L			10/02/14 17:40	1
Chlorobenzene	ND		1.0		ug/L			10/02/14 17:40	1
Chlorobromomethane	ND		1.0		ug/L			10/02/14 17:40	1
Chlorodibromomethane	ND		1.0		ug/L			10/02/14 17:40	1
Chloroethane	ND		1.0		ug/L			10/02/14 17:40	1
Chloroform	ND		1.0		ug/L			10/02/14 17:40	1
Chloromethane	ND		1.0		ug/L			10/02/14 17:40	1
cis-1,2-Dichloroethene	59		1.0		ug/L			10/02/14 17:40	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-562-20140922

Lab Sample ID: 480-67875-22

Date Collected: 09/22/14 09:40

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 17:40	1
Dibromomethane	ND		1.0		ug/L			10/02/14 17:40	1
Dichlorobromomethane	ND		1.0		ug/L			10/02/14 17:40	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/02/14 17:40	1
Ethyl ether	ND		5.0		ug/L			10/02/14 17:40	1
Ethylbenzene	ND		1.0		ug/L			10/02/14 17:40	1
Ethylene Dibromide	ND		1.0		ug/L			10/02/14 17:40	1
Hexachlorobutadiene	ND		2.0		ug/L			10/02/14 17:40	1
Isopropyl ether	ND		2.0		ug/L			10/02/14 17:40	1
Isopropylbenzene	ND		1.0		ug/L			10/02/14 17:40	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/02/14 17:40	1
Methylene Chloride	ND		5.0		ug/L			10/02/14 17:40	1
m-Xylene & p-Xylene	2.1		2.0		ug/L			10/02/14 17:40	1
Naphthalene	ND		5.0		ug/L			10/02/14 17:40	1
n-Butylbenzene	ND		1.0		ug/L			10/02/14 17:40	1
N-Propylbenzene	ND		1.0		ug/L			10/02/14 17:40	1
o-Xylene	ND		1.0		ug/L			10/02/14 17:40	1
sec-Butylbenzene	ND		1.0		ug/L			10/02/14 17:40	1
Styrene	ND		1.0		ug/L			10/02/14 17:40	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/02/14 17:40	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/02/14 17:40	1
tert-Butylbenzene	ND		1.0		ug/L			10/02/14 17:40	1
Tetrachloroethene	ND		1.0		ug/L			10/02/14 17:40	1
Tetrahydrofuran	ND		10		ug/L			10/02/14 17:40	1
Toluene	38		1.0		ug/L			10/02/14 17:40	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/02/14 17:40	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 17:40	1
Trichloroethene	1.4		1.0		ug/L			10/02/14 17:40	1
Trichlorofluoromethane	ND		1.0		ug/L			10/02/14 17:40	1
Vinyl chloride	52		1.0		ug/L			10/02/14 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		70 - 130		10/02/14 17:40	1
Toluene-d8 (Surr)	112		70 - 130		10/02/14 17:40	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 130		10/02/14 17:40	1
4-Bromofluorobenzene (Surr)	95		70 - 130		10/02/14 17:40	1

Client Sample ID: MW-563-20140922

Lab Sample ID: 480-67875-23

Date Collected: 09/22/14 13:00

Matrix: Water

Date Received: 09/24/14 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			10/02/14 18:07	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/02/14 18:07	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/02/14 18:07	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/02/14 18:07	1
1,1-Dichloroethane	ND		1.0		ug/L			10/02/14 18:07	1
1,1-Dichloroethene	ND		1.0		ug/L			10/02/14 18:07	1
1,1-Dichloropropene	ND		1.0		ug/L			10/02/14 18:07	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-563-20140922

Lab Sample ID: 480-67875-23

Date Collected: 09/22/14 13:00

Matrix: Water

Date Received: 09/24/14 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			10/02/14 18:07	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/02/14 18:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/02/14 18:07	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/02/14 18:07	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/02/14 18:07	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/02/14 18:07	1
1,2-Dichloroethane	ND		1.0		ug/L			10/02/14 18:07	1
1,2-Dichloropropane	ND		1.0		ug/L			10/02/14 18:07	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/02/14 18:07	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/02/14 18:07	1
1,3-Dichloropropane	ND		1.0		ug/L			10/02/14 18:07	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/02/14 18:07	1
1,4-Dioxane	ND		200		ug/L			10/02/14 18:07	1
2,2-Dichloropropane	ND		1.0		ug/L			10/02/14 18:07	1
2-Butanone (MEK)	110		50		ug/L			10/02/14 18:07	1
2-Chlorotoluene	ND		1.0		ug/L			10/02/14 18:07	1
2-Hexanone	ND		10		ug/L			10/02/14 18:07	1
4-Chlorotoluene	ND		1.0		ug/L			10/02/14 18:07	1
4-Isopropyltoluene	ND		1.0		ug/L			10/02/14 18:07	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/02/14 18:07	1
Acetone	62		25		ug/L			10/02/14 18:07	1
Benzene	ND		1.0		ug/L			10/02/14 18:07	1
Bromobenzene	ND		1.0		ug/L			10/02/14 18:07	1
Bromoform	ND		1.0		ug/L			10/02/14 18:07	1
Bromomethane	ND		1.0		ug/L			10/02/14 18:07	1
Carbon disulfide	ND		1.0		ug/L			10/02/14 18:07	1
Carbon tetrachloride	ND		1.0		ug/L			10/02/14 18:07	1
Chlorobenzene	ND		1.0		ug/L			10/02/14 18:07	1
Chlorobromomethane	ND		1.0		ug/L			10/02/14 18:07	1
Chlorodibromomethane	ND		1.0		ug/L			10/02/14 18:07	1
Chloroethane	1.4		1.0		ug/L			10/02/14 18:07	1
Chloroform	ND		1.0		ug/L			10/02/14 18:07	1
Chloromethane	ND		1.0		ug/L			10/02/14 18:07	1
cis-1,2-Dichloroethene	37		1.0		ug/L			10/02/14 18:07	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 18:07	1
Dibromomethane	ND		1.0		ug/L			10/02/14 18:07	1
Dichlorobromomethane	ND		1.0		ug/L			10/02/14 18:07	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/02/14 18:07	1
Ethyl ether	ND		5.0		ug/L			10/02/14 18:07	1
Ethylbenzene	ND		1.0		ug/L			10/02/14 18:07	1
Ethylene Dibromide	ND		1.0		ug/L			10/02/14 18:07	1
Hexachlorobutadiene	ND		2.0		ug/L			10/02/14 18:07	1
Isopropyl ether	ND		2.0		ug/L			10/02/14 18:07	1
Isopropylbenzene	ND		1.0		ug/L			10/02/14 18:07	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/02/14 18:07	1
Methylene Chloride	ND		5.0		ug/L			10/02/14 18:07	1
m-Xylene & p-Xylene	4.1		2.0		ug/L			10/02/14 18:07	1
Naphthalene	ND		5.0		ug/L			10/02/14 18:07	1
n-Butylbenzene	ND		1.0		ug/L			10/02/14 18:07	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-563-20140922

Lab Sample ID: 480-67875-23

Date Collected: 09/22/14 13:00

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	ND		1.0		ug/L			10/02/14 18:07	1
o-Xylene	1.0		1.0		ug/L			10/02/14 18:07	1
sec-Butylbenzene	ND		1.0		ug/L			10/02/14 18:07	1
Styrene	ND		1.0		ug/L			10/02/14 18:07	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/02/14 18:07	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/02/14 18:07	1
tert-Butylbenzene	ND		1.0		ug/L			10/02/14 18:07	1
Tetrachloroethene	ND		1.0		ug/L			10/02/14 18:07	1
Tetrahydrofuran	ND		10		ug/L			10/02/14 18:07	1
Toluene	32		1.0		ug/L			10/02/14 18:07	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/02/14 18:07	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 18:07	1
Trichloroethene	ND		1.0		ug/L			10/02/14 18:07	1
Trichlorofluoromethane	ND		1.0		ug/L			10/02/14 18:07	1
Vinyl chloride	26		1.0		ug/L			10/02/14 18:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Dibromofluoromethane (Surr)</i>	101		70 - 130					10/02/14 18:07	1
<i>Toluene-d8 (Surr)</i>	114		70 - 130					10/02/14 18:07	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	113		70 - 130					10/02/14 18:07	1
<i>4-Bromofluorobenzene (Surr)</i>	99		70 - 130					10/02/14 18:07	1

Client Sample ID: REW-1-20140923

Lab Sample ID: 480-67875-24

Date Collected: 09/23/14 13:40

Matrix: Water

Date Received: 09/24/14 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			10/02/14 18:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/02/14 18:34	1
1,1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/02/14 18:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/02/14 18:34	1
1,1-Dichloroethane	ND		1.0		ug/L			10/02/14 18:34	1
1,1-Dichloroethene	ND		1.0		ug/L			10/02/14 18:34	1
1,1-Dichloropropene	ND		1.0		ug/L			10/02/14 18:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/02/14 18:34	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/02/14 18:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/02/14 18:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/02/14 18:34	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/02/14 18:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/02/14 18:34	1
1,2-Dichloroethane	ND		1.0		ug/L			10/02/14 18:34	1
1,2-Dichloropropane	ND		1.0		ug/L			10/02/14 18:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/02/14 18:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/02/14 18:34	1
1,3-Dichloropropane	ND		1.0		ug/L			10/02/14 18:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/02/14 18:34	1
1,4-Dioxane	ND		200		ug/L			10/02/14 18:34	1
2,2-Dichloropropane	ND		1.0		ug/L			10/02/14 18:34	1
2-Butanone (MEK)	ND		50		ug/L			10/02/14 18:34	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: REW-1-20140923

Lab Sample ID: 480-67875-24

Date Collected: 09/23/14 13:40

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		1.0		ug/L			10/02/14 18:34	1
2-Hexanone	ND		10		ug/L			10/02/14 18:34	1
4-Chlorotoluene	ND		1.0		ug/L			10/02/14 18:34	1
4-Isopropyltoluene	ND		1.0		ug/L			10/02/14 18:34	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/02/14 18:34	1
Acetone	52		25		ug/L			10/02/14 18:34	1
Benzene	ND		1.0		ug/L			10/02/14 18:34	1
Bromobenzene	ND		1.0		ug/L			10/02/14 18:34	1
Bromoform	ND		1.0		ug/L			10/02/14 18:34	1
Bromomethane	ND		1.0		ug/L			10/02/14 18:34	1
Carbon disulfide	ND		1.0		ug/L			10/02/14 18:34	1
Carbon tetrachloride	ND		1.0		ug/L			10/02/14 18:34	1
Chlorobenzene	ND		1.0		ug/L			10/02/14 18:34	1
Chlorobromomethane	ND		1.0		ug/L			10/02/14 18:34	1
Chlorodibromomethane	ND		1.0		ug/L			10/02/14 18:34	1
Chloroethane	ND		1.0		ug/L			10/02/14 18:34	1
Chloroform	ND		1.0		ug/L			10/02/14 18:34	1
Chloromethane	ND		1.0		ug/L			10/02/14 18:34	1
cis-1,2-Dichloroethene	1.1		1.0		ug/L			10/02/14 18:34	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 18:34	1
Dibromomethane	ND		1.0		ug/L			10/02/14 18:34	1
Dichlorobromomethane	ND		1.0		ug/L			10/02/14 18:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/02/14 18:34	1
Ethyl ether	ND		5.0		ug/L			10/02/14 18:34	1
Ethylbenzene	1.5		1.0		ug/L			10/02/14 18:34	1
Ethylene Dibromide	ND		1.0		ug/L			10/02/14 18:34	1
Hexachlorobutadiene	ND		2.0		ug/L			10/02/14 18:34	1
Isopropyl ether	ND		2.0		ug/L			10/02/14 18:34	1
Isopropylbenzene	ND		1.0		ug/L			10/02/14 18:34	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/02/14 18:34	1
Methylene Chloride	ND		5.0		ug/L			10/02/14 18:34	1
m-Xylene & p-Xylene	4.4		2.0		ug/L			10/02/14 18:34	1
Naphthalene	ND		5.0		ug/L			10/02/14 18:34	1
n-Butylbenzene	ND		1.0		ug/L			10/02/14 18:34	1
N-Propylbenzene	ND		1.0		ug/L			10/02/14 18:34	1
o-Xylene	1.6		1.0		ug/L			10/02/14 18:34	1
sec-Butylbenzene	ND		1.0		ug/L			10/02/14 18:34	1
Styrene	ND		1.0		ug/L			10/02/14 18:34	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/02/14 18:34	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/02/14 18:34	1
tert-Butylbenzene	ND		1.0		ug/L			10/02/14 18:34	1
Tetrachloroethene	ND		1.0		ug/L			10/02/14 18:34	1
Tetrahydrofuran	17		10		ug/L			10/02/14 18:34	1
Toluene	ND		1.0		ug/L			10/02/14 18:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/02/14 18:34	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 18:34	1
Trichloroethene	ND		1.0		ug/L			10/02/14 18:34	1
Trichlorofluoromethane	ND		1.0		ug/L			10/02/14 18:34	1
Vinyl chloride	ND		1.0		ug/L			10/02/14 18:34	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: REW-1-20140923

Lab Sample ID: 480-67875-24

Date Collected: 09/23/14 13:40

Matrix: Water

Date Received: 09/24/14 01:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		70 - 130		10/02/14 18:34	1
Toluene-d8 (Surr)	112		70 - 130		10/02/14 18:34	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		10/02/14 18:34	1
4-Bromofluorobenzene (Surr)	96		70 - 130		10/02/14 18:34	1

Client Sample ID: REW-4-20140923

Lab Sample ID: 480-67875-25

Date Collected: 09/23/14 12:35

Matrix: Water

Date Received: 09/24/14 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			10/02/14 19:00	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/02/14 19:00	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/02/14 19:00	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/02/14 19:00	1
1,1-Dichloroethane	ND		1.0		ug/L			10/02/14 19:00	1
1,1-Dichloroethene	ND		1.0		ug/L			10/02/14 19:00	1
1,1-Dichloropropene	ND		1.0		ug/L			10/02/14 19:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/02/14 19:00	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/02/14 19:00	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/02/14 19:00	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/02/14 19:00	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/02/14 19:00	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/02/14 19:00	1
1,2-Dichloroethane	ND		1.0		ug/L			10/02/14 19:00	1
1,2-Dichloropropane	ND		1.0		ug/L			10/02/14 19:00	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/02/14 19:00	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/02/14 19:00	1
1,3-Dichloropropane	ND		1.0		ug/L			10/02/14 19:00	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/02/14 19:00	1
1,4-Dioxane	ND		200		ug/L			10/02/14 19:00	1
2,2-Dichloropropane	ND		1.0		ug/L			10/02/14 19:00	1
2-Butanone (MEK)	ND		50		ug/L			10/02/14 19:00	1
2-Chlorotoluene	ND		1.0		ug/L			10/02/14 19:00	1
2-Hexanone	ND		10		ug/L			10/02/14 19:00	1
4-Chlorotoluene	ND		1.0		ug/L			10/02/14 19:00	1
4-Isopropyltoluene	ND		1.0		ug/L			10/02/14 19:00	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/02/14 19:00	1
Acetone	ND		25		ug/L			10/02/14 19:00	1
Benzene	ND		1.0		ug/L			10/02/14 19:00	1
Bromobenzene	ND		1.0		ug/L			10/02/14 19:00	1
Bromoform	ND		1.0		ug/L			10/02/14 19:00	1
Bromomethane	ND		1.0		ug/L			10/02/14 19:00	1
Carbon disulfide	ND		1.0		ug/L			10/02/14 19:00	1
Carbon tetrachloride	ND		1.0		ug/L			10/02/14 19:00	1
Chlorobenzene	ND		1.0		ug/L			10/02/14 19:00	1
Chlorobromomethane	ND		1.0		ug/L			10/02/14 19:00	1
Chlorodibromomethane	ND		1.0		ug/L			10/02/14 19:00	1
Chloroethane	ND		1.0		ug/L			10/02/14 19:00	1
Chloroform	ND		1.0		ug/L			10/02/14 19:00	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: REW-4-20140923

Lab Sample ID: 480-67875-25

Date Collected: 09/23/14 12:35

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0		ug/L			10/02/14 19:00	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/02/14 19:00	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 19:00	1
Dibromomethane	ND		1.0		ug/L			10/02/14 19:00	1
Dichlorobromomethane	ND		1.0		ug/L			10/02/14 19:00	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/02/14 19:00	1
Ethyl ether	ND		5.0		ug/L			10/02/14 19:00	1
Ethylbenzene	1.3		1.0		ug/L			10/02/14 19:00	1
Ethylene Dibromide	ND		1.0		ug/L			10/02/14 19:00	1
Hexachlorobutadiene	ND		2.0		ug/L			10/02/14 19:00	1
Isopropyl ether	ND		2.0		ug/L			10/02/14 19:00	1
Isopropylbenzene	ND		1.0		ug/L			10/02/14 19:00	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/02/14 19:00	1
Methylene Chloride	ND		5.0		ug/L			10/02/14 19:00	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/02/14 19:00	1
Naphthalene	ND		5.0		ug/L			10/02/14 19:00	1
n-Butylbenzene	ND		1.0		ug/L			10/02/14 19:00	1
N-Propylbenzene	ND		1.0		ug/L			10/02/14 19:00	1
o-Xylene	ND		1.0		ug/L			10/02/14 19:00	1
sec-Butylbenzene	ND		1.0		ug/L			10/02/14 19:00	1
Styrene	ND		1.0		ug/L			10/02/14 19:00	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/02/14 19:00	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/02/14 19:00	1
tert-Butylbenzene	ND		1.0		ug/L			10/02/14 19:00	1
Tetrachloroethene	ND		1.0		ug/L			10/02/14 19:00	1
Tetrahydrofuran	ND		10		ug/L			10/02/14 19:00	1
Toluene	ND		1.0		ug/L			10/02/14 19:00	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/02/14 19:00	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 19:00	1
Trichloroethene	ND		1.0		ug/L			10/02/14 19:00	1
Trichlorofluoromethane	ND		1.0		ug/L			10/02/14 19:00	1
Vinyl chloride	ND		1.0		ug/L			10/02/14 19:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		70 - 130		10/02/14 19:00	1
Toluene-d8 (Surr)	113		70 - 130		10/02/14 19:00	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		10/02/14 19:00	1
4-Bromofluorobenzene (Surr)	96		70 - 130		10/02/14 19:00	1

Client Sample ID: REW-5-20140923

Lab Sample ID: 480-67875-26

Date Collected: 09/23/14 11:25

Matrix: Water

Date Received: 09/24/14 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			10/02/14 19:54	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/02/14 19:54	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/02/14 19:54	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/02/14 19:54	1
1,1-Dichloroethane	ND		1.0		ug/L			10/02/14 19:54	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: REW-5-20140923

Lab Sample ID: 480-67875-26

Date Collected: 09/23/14 11:25

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0		ug/L			10/02/14 19:54	1
1,1-Dichloropropene	ND		1.0		ug/L			10/02/14 19:54	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/02/14 19:54	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/02/14 19:54	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/02/14 19:54	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/02/14 19:54	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/02/14 19:54	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/02/14 19:54	1
1,2-Dichloroethane	ND		1.0		ug/L			10/02/14 19:54	1
1,2-Dichloropropane	ND		1.0		ug/L			10/02/14 19:54	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/02/14 19:54	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/02/14 19:54	1
1,3-Dichloropropane	ND		1.0		ug/L			10/02/14 19:54	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/02/14 19:54	1
1,4-Dioxane	ND		200		ug/L			10/02/14 19:54	1
2,2-Dichloropropane	ND		1.0		ug/L			10/02/14 19:54	1
2-Butanone (MEK)	ND		50		ug/L			10/02/14 19:54	1
2-Chlorotoluene	ND		1.0		ug/L			10/02/14 19:54	1
2-Hexanone	ND		10		ug/L			10/02/14 19:54	1
4-Chlorotoluene	ND		1.0		ug/L			10/02/14 19:54	1
4-Isopropyltoluene	ND		1.0		ug/L			10/02/14 19:54	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/02/14 19:54	1
Acetone	ND		25		ug/L			10/02/14 19:54	1
Benzene	ND		1.0		ug/L			10/02/14 19:54	1
Bromobenzene	ND		1.0		ug/L			10/02/14 19:54	1
Bromoform	ND		1.0		ug/L			10/02/14 19:54	1
Bromomethane	ND		1.0		ug/L			10/02/14 19:54	1
Carbon disulfide	ND		1.0		ug/L			10/02/14 19:54	1
Carbon tetrachloride	ND		1.0		ug/L			10/02/14 19:54	1
Chlorobenzene	ND		1.0		ug/L			10/02/14 19:54	1
Chlorobromomethane	ND		1.0		ug/L			10/02/14 19:54	1
Chlorodibromomethane	ND		1.0		ug/L			10/02/14 19:54	1
Chloroethane	ND		1.0		ug/L			10/02/14 19:54	1
Chloroform	ND		1.0		ug/L			10/02/14 19:54	1
Chloromethane	ND		1.0		ug/L			10/02/14 19:54	1
cis-1,2-Dichloroethene	6.8		1.0		ug/L			10/02/14 19:54	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 19:54	1
Dibromomethane	ND		1.0		ug/L			10/02/14 19:54	1
Dichlorobromomethane	ND		1.0		ug/L			10/02/14 19:54	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/02/14 19:54	1
Ethyl ether	ND		5.0		ug/L			10/02/14 19:54	1
Ethylbenzene	ND		1.0		ug/L			10/02/14 19:54	1
Ethylene Dibromide	ND		1.0		ug/L			10/02/14 19:54	1
Hexachlorobutadiene	ND		2.0		ug/L			10/02/14 19:54	1
Isopropyl ether	ND		2.0		ug/L			10/02/14 19:54	1
Isopropylbenzene	ND		1.0		ug/L			10/02/14 19:54	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/02/14 19:54	1
Methylene Chloride	ND		5.0		ug/L			10/02/14 19:54	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/02/14 19:54	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: REW-5-20140923

Lab Sample ID: 480-67875-26

Date Collected: 09/23/14 11:25

Matrix: Water

Date Received: 09/24/14 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			10/02/14 19:54	1
n-Butylbenzene	ND		1.0		ug/L			10/02/14 19:54	1
N-Propylbenzene	ND		1.0		ug/L			10/02/14 19:54	1
o-Xylene	ND		1.0		ug/L			10/02/14 19:54	1
sec-Butylbenzene	ND		1.0		ug/L			10/02/14 19:54	1
Styrene	ND		1.0		ug/L			10/02/14 19:54	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/02/14 19:54	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/02/14 19:54	1
tert-Butylbenzene	ND		1.0		ug/L			10/02/14 19:54	1
Tetrachloroethene	ND		1.0		ug/L			10/02/14 19:54	1
Tetrahydrofuran	ND		10		ug/L			10/02/14 19:54	1
Toluene	1.1		1.0		ug/L			10/02/14 19:54	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/02/14 19:54	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 19:54	1
Trichloroethene	ND		1.0		ug/L			10/02/14 19:54	1
Trichlorofluoromethane	ND		1.0		ug/L			10/02/14 19:54	1
Vinyl chloride	1.0		1.0		ug/L			10/02/14 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		70 - 130		10/02/14 19:54	1
Toluene-d8 (Surr)	113		70 - 130		10/02/14 19:54	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		10/02/14 19:54	1
4-Bromofluorobenzene (Surr)	96		70 - 130		10/02/14 19:54	1

Client Sample ID: REW-6-20140922

Lab Sample ID: 480-67875-27

Date Collected: 09/22/14 09:50

Matrix: Water

Date Received: 09/24/14 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			10/02/14 19:27	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/02/14 19:27	1
1,1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/02/14 19:27	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/02/14 19:27	1
1,1-Dichloroethane	ND		1.0		ug/L			10/02/14 19:27	1
1,1-Dichloroethene	ND		1.0		ug/L			10/02/14 19:27	1
1,1-Dichloropropene	ND		1.0		ug/L			10/02/14 19:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/02/14 19:27	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/02/14 19:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/02/14 19:27	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/02/14 19:27	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/02/14 19:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/02/14 19:27	1
1,2-Dichloroethane	ND		1.0		ug/L			10/02/14 19:27	1
1,2-Dichloropropane	ND		1.0		ug/L			10/02/14 19:27	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/02/14 19:27	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/02/14 19:27	1
1,3-Dichloropropane	ND		1.0		ug/L			10/02/14 19:27	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/02/14 19:27	1
1,4-Dioxane	ND		200		ug/L			10/02/14 19:27	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: REW-6-20140922

Lab Sample ID: 480-67875-27

Date Collected: 09/22/14 09:50

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	ND		1.0		ug/L			10/02/14 19:27	1
2-Butanone (MEK)	130		50		ug/L			10/02/14 19:27	1
2-Chlorotoluene	ND		1.0		ug/L			10/02/14 19:27	1
2-Hexanone	ND		10		ug/L			10/02/14 19:27	1
4-Chlorotoluene	ND		1.0		ug/L			10/02/14 19:27	1
4-Isopropyltoluene	ND		1.0		ug/L			10/02/14 19:27	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/02/14 19:27	1
Acetone	ND		25		ug/L			10/02/14 19:27	1
Benzene	ND		1.0		ug/L			10/02/14 19:27	1
Bromobenzene	ND		1.0		ug/L			10/02/14 19:27	1
Bromoform	ND		1.0		ug/L			10/02/14 19:27	1
Bromomethane	ND		1.0		ug/L			10/02/14 19:27	1
Carbon disulfide	2.4		1.0		ug/L			10/02/14 19:27	1
Carbon tetrachloride	ND		1.0		ug/L			10/02/14 19:27	1
Chlorobenzene	ND		1.0		ug/L			10/02/14 19:27	1
Chlorobromomethane	ND		1.0		ug/L			10/02/14 19:27	1
Chlorodibromomethane	ND		1.0		ug/L			10/02/14 19:27	1
Chloroethane	ND		1.0		ug/L			10/02/14 19:27	1
Chloroform	ND		1.0		ug/L			10/02/14 19:27	1
Chloromethane	ND		1.0		ug/L			10/02/14 19:27	1
cis-1,2-Dichloroethene	310		5.0		ug/L			10/04/14 10:06	5
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 19:27	1
Dibromomethane	ND		1.0		ug/L			10/02/14 19:27	1
Dichlorobromomethane	ND		1.0		ug/L			10/02/14 19:27	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/02/14 19:27	1
Ethyl ether	ND		5.0		ug/L			10/02/14 19:27	1
Ethylbenzene	1.3		1.0		ug/L			10/02/14 19:27	1
Ethylene Dibromide	ND		1.0		ug/L			10/02/14 19:27	1
Hexachlorobutadiene	ND		2.0		ug/L			10/02/14 19:27	1
Isopropyl ether	ND		2.0		ug/L			10/02/14 19:27	1
Isopropylbenzene	ND		1.0		ug/L			10/02/14 19:27	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/02/14 19:27	1
Methylene Chloride	ND		5.0		ug/L			10/02/14 19:27	1
m-Xylene & p-Xylene	5.1		2.0		ug/L			10/02/14 19:27	1
Naphthalene	ND		5.0		ug/L			10/02/14 19:27	1
n-Butylbenzene	ND		1.0		ug/L			10/02/14 19:27	1
N-Propylbenzene	ND		1.0		ug/L			10/02/14 19:27	1
o-Xylene	1.4		1.0		ug/L			10/02/14 19:27	1
sec-Butylbenzene	ND		1.0		ug/L			10/02/14 19:27	1
Styrene	ND		1.0		ug/L			10/02/14 19:27	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/02/14 19:27	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/02/14 19:27	1
tert-Butylbenzene	ND		1.0		ug/L			10/02/14 19:27	1
Tetrachloroethene	ND		1.0		ug/L			10/02/14 19:27	1
Tetrahydrofuran	ND		10		ug/L			10/02/14 19:27	1
Toluene	130		1.0		ug/L			10/02/14 19:27	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/02/14 19:27	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 19:27	1
Trichloroethene	22		1.0		ug/L			10/02/14 19:27	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: REW-6-20140922

Lab Sample ID: 480-67875-27

Date Collected: 09/22/14 09:50

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	ND		1.0		ug/L			10/02/14 19:27	1
Vinyl chloride	18		1.0		ug/L			10/02/14 19:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		70 - 130					10/02/14 19:27	1
Dibromofluoromethane (Surr)	102		70 - 130					10/04/14 10:06	5
Toluene-d8 (Surr)	115		70 - 130					10/02/14 19:27	1
Toluene-d8 (Surr)	114		70 - 130					10/04/14 10:06	5
1,2-Dichloroethane-d4 (Surr)	111		70 - 130					10/02/14 19:27	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130					10/04/14 10:06	5
4-Bromofluorobenzene (Surr)	97		70 - 130					10/02/14 19:27	1
4-Bromofluorobenzene (Surr)	94		70 - 130					10/04/14 10:06	5

Client Sample ID: REW-7-20140922

Lab Sample ID: 480-67875-28

Date Collected: 09/22/14 14:00

Matrix: Water

Date Received: 09/24/14 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			10/02/14 20:20	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/02/14 20:20	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/02/14 20:20	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/02/14 20:20	1
1,1-Dichloroethane	1.3		1.0		ug/L			10/02/14 20:20	1
1,1-Dichloroethene	ND		1.0		ug/L			10/02/14 20:20	1
1,1-Dichloropropene	ND		1.0		ug/L			10/02/14 20:20	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/02/14 20:20	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/02/14 20:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/02/14 20:20	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/02/14 20:20	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/02/14 20:20	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/02/14 20:20	1
1,2-Dichloroethane	ND		1.0		ug/L			10/02/14 20:20	1
1,2-Dichloropropane	ND		1.0		ug/L			10/02/14 20:20	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/02/14 20:20	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/02/14 20:20	1
1,3-Dichloropropane	ND		1.0		ug/L			10/02/14 20:20	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/02/14 20:20	1
1,4-Dioxane	ND		200		ug/L			10/02/14 20:20	1
2,2-Dichloropropane	ND		1.0		ug/L			10/02/14 20:20	1
2-Butanone (MEK)	96		50		ug/L			10/02/14 20:20	1
2-Chlorotoluene	ND		1.0		ug/L			10/02/14 20:20	1
2-Hexanone	ND		10		ug/L			10/02/14 20:20	1
4-Chlorotoluene	ND		1.0		ug/L			10/02/14 20:20	1
4-Isopropyltoluene	ND		1.0		ug/L			10/02/14 20:20	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/02/14 20:20	1
Acetone	ND		25		ug/L			10/02/14 20:20	1
Benzene	ND		1.0		ug/L			10/02/14 20:20	1
Bromobenzene	ND		1.0		ug/L			10/02/14 20:20	1
Bromoform	ND		1.0		ug/L			10/02/14 20:20	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: REW-7-20140922

Lab Sample ID: 480-67875-28

Date Collected: 09/22/14 14:00

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		1.0		ug/L			10/02/14 20:20	1
Carbon disulfide	2.3		1.0		ug/L			10/02/14 20:20	1
Carbon tetrachloride	ND		1.0		ug/L			10/02/14 20:20	1
Chlorobenzene	ND		1.0		ug/L			10/02/14 20:20	1
Chlorobromomethane	ND		1.0		ug/L			10/02/14 20:20	1
Chlorodibromomethane	ND		1.0		ug/L			10/02/14 20:20	1
Chloroethane	ND		1.0		ug/L			10/02/14 20:20	1
Chloroform	ND		1.0		ug/L			10/02/14 20:20	1
Chloromethane	ND		1.0		ug/L			10/02/14 20:20	1
cis-1,2-Dichloroethene	330		5.0		ug/L			10/03/14 14:32	5
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 20:20	1
Dibromomethane	ND		1.0		ug/L			10/02/14 20:20	1
Dichlorobromomethane	ND		1.0		ug/L			10/02/14 20:20	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/02/14 20:20	1
Ethyl ether	ND		5.0		ug/L			10/02/14 20:20	1
Ethylbenzene	ND		1.0		ug/L			10/02/14 20:20	1
Ethylene Dibromide	ND		1.0		ug/L			10/02/14 20:20	1
Hexachlorobutadiene	ND		2.0		ug/L			10/02/14 20:20	1
Isopropyl ether	ND		2.0		ug/L			10/02/14 20:20	1
Isopropylbenzene	ND		1.0		ug/L			10/02/14 20:20	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/02/14 20:20	1
Methylene Chloride	ND		5.0		ug/L			10/02/14 20:20	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/02/14 20:20	1
Naphthalene	ND		5.0		ug/L			10/02/14 20:20	1
n-Butylbenzene	ND		1.0		ug/L			10/02/14 20:20	1
N-Propylbenzene	ND		1.0		ug/L			10/02/14 20:20	1
o-Xylene	ND		1.0		ug/L			10/02/14 20:20	1
sec-Butylbenzene	ND		1.0		ug/L			10/02/14 20:20	1
Styrene	ND		1.0		ug/L			10/02/14 20:20	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/02/14 20:20	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/02/14 20:20	1
tert-Butylbenzene	ND		1.0		ug/L			10/02/14 20:20	1
Tetrachloroethene	ND		1.0		ug/L			10/02/14 20:20	1
Tetrahydrofuran	ND		10		ug/L			10/02/14 20:20	1
Toluene	55		1.0		ug/L			10/02/14 20:20	1
trans-1,2-Dichloroethene	1.1		1.0		ug/L			10/02/14 20:20	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 20:20	1
Trichloroethene	12		1.0		ug/L			10/02/14 20:20	1
Trichlorofluoromethane	ND		1.0		ug/L			10/02/14 20:20	1
Vinyl chloride	74		1.0		ug/L			10/02/14 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		70 - 130		10/02/14 20:20	1
Dibromofluoromethane (Surr)	107		70 - 130		10/03/14 14:32	5
Toluene-d8 (Surr)	114		70 - 130		10/02/14 20:20	1
Toluene-d8 (Surr)	100		70 - 130		10/03/14 14:32	5
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		10/02/14 20:20	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		10/03/14 14:32	5
4-Bromofluorobenzene (Surr)	96		70 - 130		10/02/14 20:20	1
4-Bromofluorobenzene (Surr)	96		70 - 130		10/03/14 14:32	5

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: REW-8-20140922

Lab Sample ID: 480-67875-29

Date Collected: 09/22/14 13:15

Matrix: Water

Date Received: 09/24/14 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			10/02/14 20:47	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/02/14 20:47	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/02/14 20:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/02/14 20:47	1
1,1-Dichloroethane	ND		1.0		ug/L			10/02/14 20:47	1
1,1-Dichloroethene	ND		1.0		ug/L			10/02/14 20:47	1
1,1-Dichloropropene	ND		1.0		ug/L			10/02/14 20:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/02/14 20:47	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/02/14 20:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/02/14 20:47	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/02/14 20:47	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/02/14 20:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/02/14 20:47	1
1,2-Dichloroethane	ND		1.0		ug/L			10/02/14 20:47	1
1,2-Dichloropropane	ND		1.0		ug/L			10/02/14 20:47	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/02/14 20:47	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/02/14 20:47	1
1,3-Dichloropropane	ND		1.0		ug/L			10/02/14 20:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/02/14 20:47	1
1,4-Dioxane	ND		200		ug/L			10/02/14 20:47	1
2,2-Dichloropropane	ND		1.0		ug/L			10/02/14 20:47	1
2-Butanone (MEK)	63		50		ug/L			10/02/14 20:47	1
2-Chlorotoluene	ND		1.0		ug/L			10/02/14 20:47	1
2-Hexanone	ND		10		ug/L			10/02/14 20:47	1
4-Chlorotoluene	ND		1.0		ug/L			10/02/14 20:47	1
4-Isopropyltoluene	ND		1.0		ug/L			10/02/14 20:47	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/02/14 20:47	1
Acetone	31		25		ug/L			10/02/14 20:47	1
Benzene	ND		1.0		ug/L			10/02/14 20:47	1
Bromobenzene	ND		1.0		ug/L			10/02/14 20:47	1
Bromoform	ND		1.0		ug/L			10/02/14 20:47	1
Bromomethane	ND		1.0		ug/L			10/02/14 20:47	1
Carbon disulfide	ND		1.0		ug/L			10/02/14 20:47	1
Carbon tetrachloride	ND		1.0		ug/L			10/02/14 20:47	1
Chlorobenzene	ND		1.0		ug/L			10/02/14 20:47	1
Chlorobromomethane	ND		1.0		ug/L			10/02/14 20:47	1
Chlorodibromomethane	ND		1.0		ug/L			10/02/14 20:47	1
Chloroethane	ND		1.0		ug/L			10/02/14 20:47	1
Chloroform	ND		1.0		ug/L			10/02/14 20:47	1
Chloromethane	ND		1.0		ug/L			10/02/14 20:47	1
cis-1,2-Dichloroethene	66		1.0		ug/L			10/02/14 20:47	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 20:47	1
Dibromomethane	ND		1.0		ug/L			10/02/14 20:47	1
Dichlorobromomethane	ND		1.0		ug/L			10/02/14 20:47	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/02/14 20:47	1
Ethyl ether	ND		5.0		ug/L			10/02/14 20:47	1
Ethylbenzene	ND		1.0		ug/L			10/02/14 20:47	1
Ethylene Dibromide	ND		1.0		ug/L			10/02/14 20:47	1
Hexachlorobutadiene	ND		2.0		ug/L			10/02/14 20:47	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: REW-8-20140922

Lab Sample ID: 480-67875-29

Date Collected: 09/22/14 13:15

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		2.0		ug/L			10/02/14 20:47	1
Isopropylbenzene	ND		1.0		ug/L			10/02/14 20:47	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/02/14 20:47	1
Methylene Chloride	ND		5.0		ug/L			10/02/14 20:47	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/02/14 20:47	1
Naphthalene	ND		5.0		ug/L			10/02/14 20:47	1
n-Butylbenzene	ND		1.0		ug/L			10/02/14 20:47	1
N-Propylbenzene	ND		1.0		ug/L			10/02/14 20:47	1
o-Xylene	ND		1.0		ug/L			10/02/14 20:47	1
sec-Butylbenzene	ND		1.0		ug/L			10/02/14 20:47	1
Styrene	ND		1.0		ug/L			10/02/14 20:47	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/02/14 20:47	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/02/14 20:47	1
tert-Butylbenzene	ND		1.0		ug/L			10/02/14 20:47	1
Tetrachloroethene	ND		1.0		ug/L			10/02/14 20:47	1
Tetrahydrofuran	ND		10		ug/L			10/02/14 20:47	1
Toluene	30		1.0		ug/L			10/02/14 20:47	1
trans-1,2-Dichloroethene	1.5		1.0		ug/L			10/02/14 20:47	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 20:47	1
Trichloroethene	2.1		1.0		ug/L			10/02/14 20:47	1
Trichlorofluoromethane	ND		1.0		ug/L			10/02/14 20:47	1
Vinyl chloride	44		1.0		ug/L			10/02/14 20:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		70 - 130					10/02/14 20:47	1
Toluene-d8 (Surr)	114		70 - 130					10/02/14 20:47	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 130					10/02/14 20:47	1
4-Bromofluorobenzene (Surr)	98		70 - 130					10/02/14 20:47	1

Client Sample ID: REW-9-20140922

Lab Sample ID: 480-67875-30

Date Collected: 09/22/14 12:35

Matrix: Water

Date Received: 09/24/14 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			10/02/14 21:14	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/02/14 21:14	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/02/14 21:14	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/02/14 21:14	1
1,1-Dichloroethane	ND		1.0		ug/L			10/02/14 21:14	1
1,1-Dichloroethene	ND		1.0		ug/L			10/02/14 21:14	1
1,1-Dichloropropene	ND		1.0		ug/L			10/02/14 21:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/02/14 21:14	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/02/14 21:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/02/14 21:14	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/02/14 21:14	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/02/14 21:14	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/02/14 21:14	1
1,2-Dichloroethane	ND		1.0		ug/L			10/02/14 21:14	1
1,2-Dichloropropane	ND		1.0		ug/L			10/02/14 21:14	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: REW-9-20140922

Lab Sample ID: 480-67875-30

Date Collected: 09/22/14 12:35

Matrix: Water

Date Received: 09/24/14 01:00

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			10/02/14 21:14	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/02/14 21:14	1
1,3-Dichloropropane	ND		1.0		ug/L			10/02/14 21:14	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/02/14 21:14	1
1,4-Dioxane	ND		200		ug/L			10/02/14 21:14	1
2,2-Dichloropropane	ND		1.0		ug/L			10/02/14 21:14	1
2-Butanone (MEK)	110		50		ug/L			10/02/14 21:14	1
2-Chlorotoluene	ND		1.0		ug/L			10/02/14 21:14	1
2-Hexanone	ND		10		ug/L			10/02/14 21:14	1
4-Chlorotoluene	ND		1.0		ug/L			10/02/14 21:14	1
4-Isopropyltoluene	ND		1.0		ug/L			10/02/14 21:14	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/02/14 21:14	1
Acetone	ND		25		ug/L			10/02/14 21:14	1
Benzene	ND		1.0		ug/L			10/02/14 21:14	1
Bromobenzene	ND		1.0		ug/L			10/02/14 21:14	1
Bromoform	ND		1.0		ug/L			10/02/14 21:14	1
Bromomethane	ND		1.0		ug/L			10/02/14 21:14	1
Carbon disulfide	1.0		1.0		ug/L			10/02/14 21:14	1
Carbon tetrachloride	ND		1.0		ug/L			10/02/14 21:14	1
Chlorobenzene	ND		1.0		ug/L			10/02/14 21:14	1
Chlorobromomethane	ND		1.0		ug/L			10/02/14 21:14	1
Chlorodibromomethane	ND		1.0		ug/L			10/02/14 21:14	1
Chloroethane	ND		1.0		ug/L			10/02/14 21:14	1
Chloroform	ND		1.0		ug/L			10/02/14 21:14	1
Chloromethane	ND		1.0		ug/L			10/02/14 21:14	1
cis-1,2-Dichloroethene	60		1.0		ug/L			10/02/14 21:14	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 21:14	1
Dibromomethane	ND		1.0		ug/L			10/02/14 21:14	1
Dichlorobromomethane	ND		1.0		ug/L			10/02/14 21:14	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/02/14 21:14	1
Ethyl ether	ND		5.0		ug/L			10/02/14 21:14	1
Ethylbenzene	1.2		1.0		ug/L			10/02/14 21:14	1
Ethylene Dibromide	ND		1.0		ug/L			10/02/14 21:14	1
Hexachlorobutadiene	ND		2.0		ug/L			10/02/14 21:14	1
Isopropyl ether	ND		2.0		ug/L			10/02/14 21:14	1
Isopropylbenzene	ND		1.0		ug/L			10/02/14 21:14	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/02/14 21:14	1
Methylene Chloride	ND		5.0		ug/L			10/02/14 21:14	1
m-Xylene & p-Xylene	4.7		2.0		ug/L			10/02/14 21:14	1
Naphthalene	ND		5.0		ug/L			10/02/14 21:14	1
n-Butylbenzene	ND		1.0		ug/L			10/02/14 21:14	1
N-Propylbenzene	ND		1.0		ug/L			10/02/14 21:14	1
o-Xylene	ND		1.0		ug/L			10/02/14 21:14	1
sec-Butylbenzene	ND		1.0		ug/L			10/02/14 21:14	1
Styrene	ND		1.0		ug/L			10/02/14 21:14	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/02/14 21:14	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/02/14 21:14	1
tert-Butylbenzene	ND		1.0		ug/L			10/02/14 21:14	1
Tetrachloroethene	ND		1.0		ug/L			10/02/14 21:14	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: REW-9-20140922

Lab Sample ID: 480-67875-30

Date Collected: 09/22/14 12:35

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	ND		10		ug/L			10/02/14 21:14	1
Toluene	70		1.0		ug/L			10/02/14 21:14	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/02/14 21:14	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 21:14	1
Trichloroethene	ND		1.0		ug/L			10/02/14 21:14	1
Trichlorofluoromethane	ND		1.0		ug/L			10/02/14 21:14	1
Vinyl chloride	29		1.0		ug/L			10/02/14 21:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		70 - 130					10/02/14 21:14	1
Toluene-d8 (Surr)	114		70 - 130					10/02/14 21:14	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 130					10/02/14 21:14	1
4-Bromofluorobenzene (Surr)	93		70 - 130					10/02/14 21:14	1

Client Sample ID: REW-10-20140923

Lab Sample ID: 480-67875-31

Date Collected: 09/23/14 12:15

Matrix: Water

Date Received: 09/24/14 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			10/02/14 21:41	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/02/14 21:41	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/02/14 21:41	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/02/14 21:41	1
1,1-Dichloroethane	ND		1.0		ug/L			10/02/14 21:41	1
1,1-Dichloroethene	ND		1.0		ug/L			10/02/14 21:41	1
1,1-Dichloropropene	ND		1.0		ug/L			10/02/14 21:41	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/02/14 21:41	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/02/14 21:41	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/02/14 21:41	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/02/14 21:41	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/02/14 21:41	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/02/14 21:41	1
1,2-Dichloroethane	ND		1.0		ug/L			10/02/14 21:41	1
1,2-Dichloropropane	ND		1.0		ug/L			10/02/14 21:41	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/02/14 21:41	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/02/14 21:41	1
1,3-Dichloropropane	ND		1.0		ug/L			10/02/14 21:41	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/02/14 21:41	1
1,4-Dioxane	ND		200		ug/L			10/02/14 21:41	1
2,2-Dichloropropane	ND		1.0		ug/L			10/02/14 21:41	1
2-Butanone (MEK)	120		50		ug/L			10/02/14 21:41	1
2-Chlorotoluene	ND		1.0		ug/L			10/02/14 21:41	1
2-Hexanone	ND		10		ug/L			10/02/14 21:41	1
4-Chlorotoluene	ND		1.0		ug/L			10/02/14 21:41	1
4-Isopropyltoluene	ND		1.0		ug/L			10/02/14 21:41	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/02/14 21:41	1
Acetone	47		25		ug/L			10/02/14 21:41	1
Benzene	ND		1.0		ug/L			10/02/14 21:41	1
Bromobenzene	ND		1.0		ug/L			10/02/14 21:41	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: REW-10-20140923

Lab Sample ID: 480-67875-31

Date Collected: 09/23/14 12:15

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0		ug/L			10/02/14 21:41	1
Bromomethane	ND		1.0		ug/L			10/02/14 21:41	1
Carbon disulfide	ND		1.0		ug/L			10/02/14 21:41	1
Carbon tetrachloride	ND		1.0		ug/L			10/02/14 21:41	1
Chlorobenzene	ND		1.0		ug/L			10/02/14 21:41	1
Chlorobromomethane	ND		1.0		ug/L			10/02/14 21:41	1
Chlorodibromomethane	ND		1.0		ug/L			10/02/14 21:41	1
Chloroethane	ND		1.0		ug/L			10/02/14 21:41	1
Chloroform	ND		1.0		ug/L			10/02/14 21:41	1
Chloromethane	ND		1.0		ug/L			10/02/14 21:41	1
cis-1,2-Dichloroethene	58		1.0		ug/L			10/02/14 21:41	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 21:41	1
Dibromomethane	ND		1.0		ug/L			10/02/14 21:41	1
Dichlorobromomethane	ND		1.0		ug/L			10/02/14 21:41	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/02/14 21:41	1
Ethyl ether	ND		5.0		ug/L			10/02/14 21:41	1
Ethylbenzene	ND		1.0		ug/L			10/02/14 21:41	1
Ethylene Dibromide	ND		1.0		ug/L			10/02/14 21:41	1
Hexachlorobutadiene	ND		2.0		ug/L			10/02/14 21:41	1
Isopropyl ether	ND		2.0		ug/L			10/02/14 21:41	1
Isopropylbenzene	ND		1.0		ug/L			10/02/14 21:41	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/02/14 21:41	1
Methylene Chloride	ND		5.0		ug/L			10/02/14 21:41	1
m-Xylene & p-Xylene	3.6		2.0		ug/L			10/02/14 21:41	1
Naphthalene	ND		5.0		ug/L			10/02/14 21:41	1
n-Butylbenzene	ND		1.0		ug/L			10/02/14 21:41	1
N-Propylbenzene	ND		1.0		ug/L			10/02/14 21:41	1
o-Xylene	ND		1.0		ug/L			10/02/14 21:41	1
sec-Butylbenzene	ND		1.0		ug/L			10/02/14 21:41	1
Styrene	ND		1.0		ug/L			10/02/14 21:41	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/02/14 21:41	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/02/14 21:41	1
tert-Butylbenzene	ND		1.0		ug/L			10/02/14 21:41	1
Tetrachloroethene	ND		1.0		ug/L			10/02/14 21:41	1
Tetrahydrofuran	ND		10		ug/L			10/02/14 21:41	1
Toluene	9.1		1.0		ug/L			10/02/14 21:41	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/02/14 21:41	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 21:41	1
Trichloroethene	ND		1.0		ug/L			10/02/14 21:41	1
Trichlorofluoromethane	ND		1.0		ug/L			10/02/14 21:41	1
Vinyl chloride	30		1.0		ug/L			10/02/14 21:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		70 - 130		10/02/14 21:41	1
Toluene-d8 (Surr)	114		70 - 130		10/02/14 21:41	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		10/02/14 21:41	1
4-Bromofluorobenzene (Surr)	99		70 - 130		10/02/14 21:41	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: REW-11-20140922

Lab Sample ID: 480-67875-32

Date Collected: 09/22/14 08:15

Matrix: Water

Date Received: 09/24/14 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			10/02/14 22:08	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/02/14 22:08	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/02/14 22:08	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/02/14 22:08	1
1,1-Dichloroethane	3.1		1.0		ug/L			10/02/14 22:08	1
1,1-Dichloroethene	1.7		1.0		ug/L			10/02/14 22:08	1
1,1-Dichloropropene	ND		1.0		ug/L			10/02/14 22:08	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/02/14 22:08	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/02/14 22:08	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/02/14 22:08	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/02/14 22:08	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/02/14 22:08	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/02/14 22:08	1
1,2-Dichloroethane	ND		1.0		ug/L			10/02/14 22:08	1
1,2-Dichloropropane	ND		1.0		ug/L			10/02/14 22:08	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/02/14 22:08	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/02/14 22:08	1
1,3-Dichloropropane	ND		1.0		ug/L			10/02/14 22:08	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/02/14 22:08	1
1,4-Dioxane	ND		200		ug/L			10/02/14 22:08	1
2,2-Dichloropropane	ND		1.0		ug/L			10/02/14 22:08	1
2-Butanone (MEK)	ND		50		ug/L			10/02/14 22:08	1
2-Chlorotoluene	ND		1.0		ug/L			10/02/14 22:08	1
2-Hexanone	ND		10		ug/L			10/02/14 22:08	1
4-Chlorotoluene	ND		1.0		ug/L			10/02/14 22:08	1
4-Isopropyltoluene	ND		1.0		ug/L			10/02/14 22:08	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/02/14 22:08	1
Acetone	ND		25		ug/L			10/02/14 22:08	1
Benzene	1.6		1.0		ug/L			10/02/14 22:08	1
Bromobenzene	ND		1.0		ug/L			10/02/14 22:08	1
Bromoform	ND		1.0		ug/L			10/02/14 22:08	1
Bromomethane	ND		1.0		ug/L			10/02/14 22:08	1
Carbon disulfide	1.2		1.0		ug/L			10/02/14 22:08	1
Carbon tetrachloride	ND		1.0		ug/L			10/02/14 22:08	1
Chlorobenzene	ND		1.0		ug/L			10/02/14 22:08	1
Chlorobromomethane	ND		1.0		ug/L			10/02/14 22:08	1
Chlorodibromomethane	ND		1.0		ug/L			10/02/14 22:08	1
Chloroethane	ND		1.0		ug/L			10/02/14 22:08	1
Chloroform	ND		1.0		ug/L			10/02/14 22:08	1
Chloromethane	ND		1.0		ug/L			10/02/14 22:08	1
cis-1,2-Dichloroethene	1400		10		ug/L			10/03/14 16:58	10
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 22:08	1
Dibromomethane	ND		1.0		ug/L			10/02/14 22:08	1
Dichlorobromomethane	ND		1.0		ug/L			10/02/14 22:08	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/02/14 22:08	1
Ethyl ether	ND		5.0		ug/L			10/02/14 22:08	1
Ethylbenzene	ND		1.0		ug/L			10/02/14 22:08	1
Ethylene Dibromide	ND		1.0		ug/L			10/02/14 22:08	1
Hexachlorobutadiene	ND		2.0		ug/L			10/02/14 22:08	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: REW-11-20140922

Lab Sample ID: 480-67875-32

Date Collected: 09/22/14 08:15

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		2.0		ug/L			10/02/14 22:08	1
Isopropylbenzene	ND		1.0		ug/L			10/02/14 22:08	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/02/14 22:08	1
Methylene Chloride	ND		5.0		ug/L			10/02/14 22:08	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/02/14 22:08	1
Naphthalene	ND		5.0		ug/L			10/02/14 22:08	1
n-Butylbenzene	ND		1.0		ug/L			10/02/14 22:08	1
N-Propylbenzene	ND		1.0		ug/L			10/02/14 22:08	1
o-Xylene	ND		1.0		ug/L			10/02/14 22:08	1
sec-Butylbenzene	ND		1.0		ug/L			10/02/14 22:08	1
Styrene	ND		1.0		ug/L			10/02/14 22:08	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/02/14 22:08	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/02/14 22:08	1
tert-Butylbenzene	ND		1.0		ug/L			10/02/14 22:08	1
Tetrachloroethene	ND		1.0		ug/L			10/02/14 22:08	1
Tetrahydrofuran	ND		10		ug/L			10/02/14 22:08	1
Toluene	1.3		1.0		ug/L			10/02/14 22:08	1
trans-1,2-Dichloroethene	3.9		1.0		ug/L			10/02/14 22:08	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 22:08	1
Trichloroethene	5.1		1.0		ug/L			10/02/14 22:08	1
Trichlorofluoromethane	ND		1.0		ug/L			10/02/14 22:08	1
Vinyl chloride	150		1.0		ug/L			10/02/14 22:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		70 - 130		10/02/14 22:08	1
Dibromofluoromethane (Surr)	104		70 - 130		10/03/14 16:58	10
Toluene-d8 (Surr)	113		70 - 130		10/02/14 22:08	1
Toluene-d8 (Surr)	113		70 - 130		10/03/14 16:58	10
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		10/02/14 22:08	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 130		10/03/14 16:58	10
4-Bromofluorobenzene (Surr)	95		70 - 130		10/02/14 22:08	1
4-Bromofluorobenzene (Surr)	94		70 - 130		10/03/14 16:58	10

Client Sample ID: REW-12-20140922

Lab Sample ID: 480-67875-33

Date Collected: 09/22/14 11:10

Matrix: Water

Date Received: 09/24/14 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			10/02/14 22:35	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/02/14 22:35	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/02/14 22:35	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/02/14 22:35	1
1,1-Dichloroethane	1.5		1.0		ug/L			10/02/14 22:35	1
1,1-Dichloroethene	ND		1.0		ug/L			10/02/14 22:35	1
1,1-Dichloropropene	ND		1.0		ug/L			10/02/14 22:35	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/02/14 22:35	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/02/14 22:35	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/02/14 22:35	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/02/14 22:35	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: REW-12-20140922

Lab Sample ID: 480-67875-33

Date Collected: 09/22/14 11:10

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/02/14 22:35	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/02/14 22:35	1
1,2-Dichloroethane	ND		1.0		ug/L			10/02/14 22:35	1
1,2-Dichloropropane	ND		1.0		ug/L			10/02/14 22:35	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/02/14 22:35	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/02/14 22:35	1
1,3-Dichloropropane	ND		1.0		ug/L			10/02/14 22:35	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/02/14 22:35	1
1,4-Dioxane	ND		200		ug/L			10/02/14 22:35	1
2,2-Dichloropropane	ND		1.0		ug/L			10/02/14 22:35	1
2-Butanone (MEK)	ND		50		ug/L			10/02/14 22:35	1
2-Chlorotoluene	ND		1.0		ug/L			10/02/14 22:35	1
2-Hexanone	ND		10		ug/L			10/02/14 22:35	1
4-Chlorotoluene	ND		1.0		ug/L			10/02/14 22:35	1
4-Isopropyltoluene	ND		1.0		ug/L			10/02/14 22:35	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/02/14 22:35	1
Acetone	ND		25		ug/L			10/02/14 22:35	1
Benzene	ND		1.0		ug/L			10/02/14 22:35	1
Bromobenzene	ND		1.0		ug/L			10/02/14 22:35	1
Bromoform	ND		1.0		ug/L			10/02/14 22:35	1
Bromomethane	ND		1.0		ug/L			10/02/14 22:35	1
Carbon disulfide	ND		1.0		ug/L			10/02/14 22:35	1
Carbon tetrachloride	ND		1.0		ug/L			10/02/14 22:35	1
Chlorobenzene	ND		1.0		ug/L			10/02/14 22:35	1
Chlorobromomethane	ND		1.0		ug/L			10/02/14 22:35	1
Chlorodibromomethane	ND		1.0		ug/L			10/02/14 22:35	1
Chloroethane	ND		1.0		ug/L			10/02/14 22:35	1
Chloroform	ND		1.0		ug/L			10/02/14 22:35	1
Chloromethane	ND		1.0		ug/L			10/02/14 22:35	1
cis-1,2-Dichloroethene	270		5.0		ug/L			10/03/14 15:56	5
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 22:35	1
Dibromomethane	ND		1.0		ug/L			10/02/14 22:35	1
Dichlorobromomethane	ND		1.0		ug/L			10/02/14 22:35	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/02/14 22:35	1
Ethyl ether	ND		5.0		ug/L			10/02/14 22:35	1
Ethylbenzene	ND		1.0		ug/L			10/02/14 22:35	1
Ethylene Dibromide	ND		1.0		ug/L			10/02/14 22:35	1
Hexachlorobutadiene	ND		2.0		ug/L			10/02/14 22:35	1
Isopropyl ether	ND		2.0		ug/L			10/02/14 22:35	1
Isopropylbenzene	ND		1.0		ug/L			10/02/14 22:35	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/02/14 22:35	1
Methylene Chloride	ND		5.0		ug/L			10/02/14 22:35	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/02/14 22:35	1
Naphthalene	ND		5.0		ug/L			10/02/14 22:35	1
n-Butylbenzene	ND		1.0		ug/L			10/02/14 22:35	1
N-Propylbenzene	ND		1.0		ug/L			10/02/14 22:35	1
o-Xylene	ND		1.0		ug/L			10/02/14 22:35	1
sec-Butylbenzene	ND		1.0		ug/L			10/02/14 22:35	1
Styrene	ND		1.0		ug/L			10/02/14 22:35	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: REW-12-20140922

Lab Sample ID: 480-67875-33

Date Collected: 09/22/14 11:10

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl methyl ether	ND		1.0		ug/L			10/02/14 22:35	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/02/14 22:35	1
tert-Butylbenzene	ND		1.0		ug/L			10/02/14 22:35	1
Tetrachloroethene	ND		1.0		ug/L			10/02/14 22:35	1
Tetrahydrofuran	ND		10		ug/L			10/02/14 22:35	1
Toluene	69		1.0		ug/L			10/02/14 22:35	1
trans-1,2-Dichloroethene	3.1		1.0		ug/L			10/02/14 22:35	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 22:35	1
Trichloroethene	9.0		1.0		ug/L			10/02/14 22:35	1
Trichlorofluoromethane	ND		1.0		ug/L			10/02/14 22:35	1
Vinyl chloride	74		1.0		ug/L			10/02/14 22:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	104		70 - 130		10/02/14 22:35	1
Dibromofluoromethane (Surr)	105		70 - 130		10/03/14 15:56	5
Toluene-d8 (Surr)	115		70 - 130		10/02/14 22:35	1
Toluene-d8 (Surr)	98		70 - 130		10/03/14 15:56	5
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		10/02/14 22:35	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		10/03/14 15:56	5
4-Bromofluorobenzene (Surr)	95		70 - 130		10/02/14 22:35	1
4-Bromofluorobenzene (Surr)	88		70 - 130		10/03/14 15:56	5

Client Sample ID: DUP1-20140920

Lab Sample ID: 480-67875-34

Date Collected: 09/20/14 00:00

Matrix: Water

Date Received: 09/24/14 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			10/02/14 23:02	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/02/14 23:02	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/02/14 23:02	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/02/14 23:02	1
1,1-Dichloroethane	ND		1.0		ug/L			10/02/14 23:02	1
1,1-Dichloroethene	ND		1.0		ug/L			10/02/14 23:02	1
1,1-Dichloropropene	ND		1.0		ug/L			10/02/14 23:02	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/02/14 23:02	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/02/14 23:02	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/02/14 23:02	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/02/14 23:02	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/02/14 23:02	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/02/14 23:02	1
1,2-Dichloroethane	ND		1.0		ug/L			10/02/14 23:02	1
1,2-Dichloropropane	ND		1.0		ug/L			10/02/14 23:02	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/02/14 23:02	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/02/14 23:02	1
1,3-Dichloropropane	ND		1.0		ug/L			10/02/14 23:02	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/02/14 23:02	1
1,4-Dioxane	ND		200		ug/L			10/02/14 23:02	1
2,2-Dichloropropane	ND		1.0		ug/L			10/02/14 23:02	1
2-Butanone (MEK)	ND		50		ug/L			10/02/14 23:02	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: DUP1-20140920

Lab Sample ID: 480-67875-34

Date Collected: 09/20/14 00:00

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	ND		1.0		ug/L			10/02/14 23:02	1
2-Hexanone	ND		10		ug/L			10/02/14 23:02	1
4-Chlorotoluene	ND		1.0		ug/L			10/02/14 23:02	1
4-Isopropyltoluene	ND		1.0		ug/L			10/02/14 23:02	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/02/14 23:02	1
Acetone	90		25		ug/L			10/02/14 23:02	1
Benzene	ND		1.0		ug/L			10/02/14 23:02	1
Bromobenzene	ND		1.0		ug/L			10/02/14 23:02	1
Bromoform	ND		1.0		ug/L			10/02/14 23:02	1
Bromomethane	ND		1.0		ug/L			10/02/14 23:02	1
Carbon disulfide	ND		1.0		ug/L			10/02/14 23:02	1
Carbon tetrachloride	ND		1.0		ug/L			10/02/14 23:02	1
Chlorobenzene	ND		1.0		ug/L			10/02/14 23:02	1
Chlorobromomethane	ND		1.0		ug/L			10/02/14 23:02	1
Chlorodibromomethane	ND		1.0		ug/L			10/02/14 23:02	1
Chloroethane	ND		1.0		ug/L			10/02/14 23:02	1
Chloroform	ND		1.0		ug/L			10/02/14 23:02	1
Chloromethane	ND		1.0		ug/L			10/02/14 23:02	1
cis-1,2-Dichloroethene	100		1.0		ug/L			10/02/14 23:02	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 23:02	1
Dibromomethane	ND		1.0		ug/L			10/02/14 23:02	1
Dichlorobromomethane	ND		1.0		ug/L			10/02/14 23:02	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/02/14 23:02	1
Ethyl ether	ND		5.0		ug/L			10/02/14 23:02	1
Ethylbenzene	ND		1.0		ug/L			10/02/14 23:02	1
Ethylene Dibromide	ND		1.0		ug/L			10/02/14 23:02	1
Hexachlorobutadiene	ND		2.0		ug/L			10/02/14 23:02	1
Isopropyl ether	ND		2.0		ug/L			10/02/14 23:02	1
Isopropylbenzene	ND		1.0		ug/L			10/02/14 23:02	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/02/14 23:02	1
Methylene Chloride	ND		5.0		ug/L			10/02/14 23:02	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/02/14 23:02	1
Naphthalene	ND		5.0		ug/L			10/02/14 23:02	1
n-Butylbenzene	ND		1.0		ug/L			10/02/14 23:02	1
N-Propylbenzene	ND		1.0		ug/L			10/02/14 23:02	1
o-Xylene	ND		1.0		ug/L			10/02/14 23:02	1
sec-Butylbenzene	ND		1.0		ug/L			10/02/14 23:02	1
Styrene	ND		1.0		ug/L			10/02/14 23:02	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/02/14 23:02	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/02/14 23:02	1
tert-Butylbenzene	ND		1.0		ug/L			10/02/14 23:02	1
Tetrachloroethene	3.2		1.0		ug/L			10/02/14 23:02	1
Tetrahydrofuran	ND		10		ug/L			10/02/14 23:02	1
Toluene	ND		1.0		ug/L			10/02/14 23:02	1
trans-1,2-Dichloroethene	1.8		1.0		ug/L			10/02/14 23:02	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 23:02	1
Trichloroethene	8.0		1.0		ug/L			10/02/14 23:02	1
Trichlorofluoromethane	ND		1.0		ug/L			10/02/14 23:02	1
Vinyl chloride	80		1.0		ug/L			10/02/14 23:02	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: DUP1-20140920

Lab Sample ID: 480-67875-34

Date Collected: 09/20/14 00:00

Matrix: Water

Date Received: 09/24/14 01:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		70 - 130		10/02/14 23:02	1
Toluene-d8 (Surr)	113		70 - 130		10/02/14 23:02	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		10/02/14 23:02	1
4-Bromofluorobenzene (Surr)	97		70 - 130		10/02/14 23:02	1

Client Sample ID: DUP2-20140922

Lab Sample ID: 480-67875-35

Date Collected: 09/22/14 00:00

Matrix: Water

Date Received: 09/24/14 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			10/03/14 03:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/03/14 03:34	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/03/14 03:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/03/14 03:34	1
1,1-Dichloroethane	ND		1.0		ug/L			10/03/14 03:34	1
1,1-Dichloroethene	ND		1.0		ug/L			10/03/14 03:34	1
1,1-Dichloropropene	ND		1.0		ug/L			10/03/14 03:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/03/14 03:34	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/03/14 03:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/03/14 03:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/03/14 03:34	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/03/14 03:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/03/14 03:34	1
1,2-Dichloroethane	ND		1.0		ug/L			10/03/14 03:34	1
1,2-Dichloropropane	ND		1.0		ug/L			10/03/14 03:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/03/14 03:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/03/14 03:34	1
1,3-Dichloropropane	ND		1.0		ug/L			10/03/14 03:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/03/14 03:34	1
1,4-Dioxane	ND		200		ug/L			10/03/14 03:34	1
2,2-Dichloropropane	ND		1.0		ug/L			10/03/14 03:34	1
2-Butanone (MEK)	140		50		ug/L			10/03/14 03:34	1
2-Chlorotoluene	ND		1.0		ug/L			10/03/14 03:34	1
2-Hexanone	ND		10		ug/L			10/03/14 03:34	1
4-Chlorotoluene	ND		1.0		ug/L			10/03/14 03:34	1
4-Isopropyltoluene	ND		1.0		ug/L			10/03/14 03:34	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/03/14 03:34	1
Acetone	ND		25		ug/L			10/03/14 03:34	1
Benzene	ND		1.0		ug/L			10/03/14 03:34	1
Bromobenzene	ND		1.0		ug/L			10/03/14 03:34	1
Bromoform	ND		1.0		ug/L			10/03/14 03:34	1
Bromomethane	ND		1.0		ug/L			10/03/14 03:34	1
Carbon disulfide	2.8		1.0		ug/L			10/03/14 03:34	1
Carbon tetrachloride	ND		1.0		ug/L			10/03/14 03:34	1
Chlorobenzene	ND		1.0		ug/L			10/03/14 03:34	1
Chlorobromomethane	ND		1.0		ug/L			10/03/14 03:34	1
Chlorodibromomethane	ND		1.0		ug/L			10/03/14 03:34	1
Chloroethane	ND		1.0		ug/L			10/03/14 03:34	1
Chloroform	ND		1.0		ug/L			10/03/14 03:34	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: DUP2-20140922

Lab Sample ID: 480-67875-35

Date Collected: 09/22/14 00:00

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0		ug/L			10/03/14 03:34	1
cis-1,2-Dichloroethene	300		5.0		ug/L			10/03/14 15:28	5
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 03:34	1
Dibromomethane	ND		1.0		ug/L			10/03/14 03:34	1
Dichlorobromomethane	ND		1.0		ug/L			10/03/14 03:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/03/14 03:34	1
Ethyl ether	ND		5.0		ug/L			10/03/14 03:34	1
Ethylbenzene	1.3		1.0		ug/L			10/03/14 03:34	1
Ethylene Dibromide	ND		1.0		ug/L			10/03/14 03:34	1
Hexachlorobutadiene	ND		2.0		ug/L			10/03/14 03:34	1
Isopropyl ether	ND		2.0		ug/L			10/03/14 03:34	1
Isopropylbenzene	ND		1.0		ug/L			10/03/14 03:34	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/03/14 03:34	1
Methylene Chloride	ND		5.0		ug/L			10/03/14 03:34	1
m-Xylene & p-Xylene	5.2		2.0		ug/L			10/03/14 03:34	1
Naphthalene	ND		5.0		ug/L			10/03/14 03:34	1
n-Butylbenzene	ND		1.0		ug/L			10/03/14 03:34	1
N-Propylbenzene	ND		1.0		ug/L			10/03/14 03:34	1
o-Xylene	1.4		1.0		ug/L			10/03/14 03:34	1
sec-Butylbenzene	ND		1.0		ug/L			10/03/14 03:34	1
Styrene	ND		1.0		ug/L			10/03/14 03:34	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/03/14 03:34	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/03/14 03:34	1
tert-Butylbenzene	ND		1.0		ug/L			10/03/14 03:34	1
Tetrachloroethene	ND		1.0		ug/L			10/03/14 03:34	1
Tetrahydrofuran	ND		10		ug/L			10/03/14 03:34	1
Toluene	140		1.0		ug/L			10/03/14 03:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/03/14 03:34	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 03:34	1
Trichloroethene	22		1.0		ug/L			10/03/14 03:34	1
Trichlorofluoromethane	ND		1.0		ug/L			10/03/14 03:34	1
Vinyl chloride	18		1.0		ug/L			10/03/14 03:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		70 - 130		10/03/14 03:34	1
Dibromofluoromethane (Surr)	106		70 - 130		10/03/14 15:28	5
Toluene-d8 (Surr)	114		70 - 130		10/03/14 03:34	1
Toluene-d8 (Surr)	100		70 - 130		10/03/14 15:28	5
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		10/03/14 03:34	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		10/03/14 15:28	5
4-Bromofluorobenzene (Surr)	95		70 - 130		10/03/14 03:34	1
4-Bromofluorobenzene (Surr)	96		70 - 130		10/03/14 15:28	5

Client Sample ID: DUP3-20140923

Lab Sample ID: 480-67875-36

Date Collected: 09/23/14 00:00

Matrix: Water

Date Received: 09/24/14 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			10/03/14 04:00	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: DUP3-20140923

Lab Sample ID: 480-67875-36

Date Collected: 09/23/14 00:00

Matrix: Water

Date Received: 09/24/14 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		1.0		ug/L			10/03/14 04:00	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/03/14 04:00	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/03/14 04:00	1
1,1-Dichloroethane	ND		1.0		ug/L			10/03/14 04:00	1
1,1-Dichloroethene	ND		1.0		ug/L			10/03/14 04:00	1
1,1-Dichloropropene	ND		1.0		ug/L			10/03/14 04:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/03/14 04:00	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/03/14 04:00	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/03/14 04:00	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/03/14 04:00	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/03/14 04:00	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/03/14 04:00	1
1,2-Dichloroethane	ND		1.0		ug/L			10/03/14 04:00	1
1,2-Dichloropropane	ND		1.0		ug/L			10/03/14 04:00	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/03/14 04:00	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/03/14 04:00	1
1,3-Dichloropropane	ND		1.0		ug/L			10/03/14 04:00	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/03/14 04:00	1
1,4-Dioxane	ND		200		ug/L			10/03/14 04:00	1
2,2-Dichloropropane	ND		1.0		ug/L			10/03/14 04:00	1
2-Butanone (MEK)	ND		50		ug/L			10/03/14 04:00	1
2-Chlorotoluene	ND		1.0		ug/L			10/03/14 04:00	1
2-Hexanone	ND		10		ug/L			10/03/14 04:00	1
4-Chlorotoluene	ND		1.0		ug/L			10/03/14 04:00	1
4-Isopropyltoluene	ND		1.0		ug/L			10/03/14 04:00	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/03/14 04:00	1
Acetone	160		25		ug/L			10/03/14 04:00	1
Benzene	ND		1.0		ug/L			10/03/14 04:00	1
Bromobenzene	ND		1.0		ug/L			10/03/14 04:00	1
Bromoform	ND		1.0		ug/L			10/03/14 04:00	1
Bromomethane	ND		1.0		ug/L			10/03/14 04:00	1
Carbon disulfide	ND		1.0		ug/L			10/03/14 04:00	1
Carbon tetrachloride	ND		1.0		ug/L			10/03/14 04:00	1
Chlorobenzene	ND		1.0		ug/L			10/03/14 04:00	1
Chlorobromomethane	ND		1.0		ug/L			10/03/14 04:00	1
Chlorodibromomethane	ND		1.0		ug/L			10/03/14 04:00	1
Chloroethane	ND		1.0		ug/L			10/03/14 04:00	1
Chloroform	ND		1.0		ug/L			10/03/14 04:00	1
Chloromethane	ND		1.0		ug/L			10/03/14 04:00	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/03/14 04:00	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 04:00	1
Dibromomethane	ND		1.0		ug/L			10/03/14 04:00	1
Dichlorobromomethane	ND		1.0		ug/L			10/03/14 04:00	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/03/14 04:00	1
Ethyl ether	ND		5.0		ug/L			10/03/14 04:00	1
Ethylbenzene	7.1		1.0		ug/L			10/03/14 04:00	1
Ethylene Dibromide	ND		1.0		ug/L			10/03/14 04:00	1
Hexachlorobutadiene	ND		2.0		ug/L			10/03/14 04:00	1
Isopropyl ether	ND		2.0		ug/L			10/03/14 04:00	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: DUP3-20140923

Lab Sample ID: 480-67875-36

Date Collected: 09/23/14 00:00

Matrix: Water

Date Received: 09/24/14 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			10/03/14 04:00	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/03/14 04:00	1
Methylene Chloride	ND		5.0		ug/L			10/03/14 04:00	1
m-Xylene & p-Xylene	27		2.0		ug/L			10/03/14 04:00	1
Naphthalene	ND		5.0		ug/L			10/03/14 04:00	1
n-Butylbenzene	ND		1.0		ug/L			10/03/14 04:00	1
N-Propylbenzene	ND		1.0		ug/L			10/03/14 04:00	1
o-Xylene	5.7		1.0		ug/L			10/03/14 04:00	1
sec-Butylbenzene	ND		1.0		ug/L			10/03/14 04:00	1
Styrene	ND		1.0		ug/L			10/03/14 04:00	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/03/14 04:00	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/03/14 04:00	1
tert-Butylbenzene	ND		1.0		ug/L			10/03/14 04:00	1
Tetrachloroethene	ND		1.0		ug/L			10/03/14 04:00	1
Tetrahydrofuran	19		10		ug/L			10/03/14 04:00	1
Toluene	35		1.0		ug/L			10/03/14 04:00	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/03/14 04:00	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 04:00	1
Trichloroethene	ND		1.0		ug/L			10/03/14 04:00	1
Trichlorofluoromethane	ND		1.0		ug/L			10/03/14 04:00	1
Vinyl chloride	1.2		1.0		ug/L			10/03/14 04:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		70 - 130		10/03/14 04:00	1
Toluene-d8 (Surr)	113		70 - 130		10/03/14 04:00	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		10/03/14 04:00	1
4-Bromofluorobenzene (Surr)	99		70 - 130		10/03/14 04:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.8		0.20		ug/L		09/29/14 13:02	09/30/14 11:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	83		70 - 130	09/29/14 13:02	09/30/14 11:12	1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-67875-37

Date Collected: 09/23/14 00:00

Matrix: Water

Date Received: 09/24/14 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			10/02/14 14:32	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/02/14 14:32	1
1,1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/02/14 14:32	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/02/14 14:32	1
1,1-Dichloroethane	ND		1.0		ug/L			10/02/14 14:32	1
1,1-Dichloroethene	ND		1.0		ug/L			10/02/14 14:32	1
1,1-Dichloropropene	ND		1.0		ug/L			10/02/14 14:32	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/02/14 14:32	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/02/14 14:32	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-67875-37

Date Collected: 09/23/14 00:00

Matrix: Water

Date Received: 09/24/14 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			10/02/14 14:32	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/02/14 14:32	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/02/14 14:32	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/02/14 14:32	1
1,2-Dichloroethane	ND		1.0		ug/L			10/02/14 14:32	1
1,2-Dichloropropane	ND		1.0		ug/L			10/02/14 14:32	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/02/14 14:32	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/02/14 14:32	1
1,3-Dichloropropane	ND		1.0		ug/L			10/02/14 14:32	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/02/14 14:32	1
1,4-Dioxane	ND		200		ug/L			10/02/14 14:32	1
2,2-Dichloropropane	ND		1.0		ug/L			10/02/14 14:32	1
2-Butanone (MEK)	ND		50		ug/L			10/02/14 14:32	1
2-Chlorotoluene	ND		1.0		ug/L			10/02/14 14:32	1
2-Hexanone	ND		10		ug/L			10/02/14 14:32	1
4-Chlorotoluene	ND		1.0		ug/L			10/02/14 14:32	1
4-Isopropyltoluene	ND		1.0		ug/L			10/02/14 14:32	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/02/14 14:32	1
Acetone	ND		25		ug/L			10/02/14 14:32	1
Benzene	ND		1.0		ug/L			10/02/14 14:32	1
Bromobenzene	ND		1.0		ug/L			10/02/14 14:32	1
Bromoform	ND		1.0		ug/L			10/02/14 14:32	1
Bromomethane	ND		1.0		ug/L			10/02/14 14:32	1
Carbon disulfide	ND		1.0		ug/L			10/02/14 14:32	1
Carbon tetrachloride	ND		1.0		ug/L			10/02/14 14:32	1
Chlorobenzene	ND		1.0		ug/L			10/02/14 14:32	1
Chlorobromomethane	ND		1.0		ug/L			10/02/14 14:32	1
Chlorodibromomethane	ND		1.0		ug/L			10/02/14 14:32	1
Chloroethane	ND		1.0		ug/L			10/02/14 14:32	1
Chloroform	7.3		1.0		ug/L			10/02/14 14:32	1
Chloromethane	ND		1.0		ug/L			10/02/14 14:32	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/02/14 14:32	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 14:32	1
Dibromomethane	ND		1.0		ug/L			10/02/14 14:32	1
Dichlorobromomethane	ND		1.0		ug/L			10/02/14 14:32	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/02/14 14:32	1
Ethyl ether	ND		5.0		ug/L			10/02/14 14:32	1
Ethylbenzene	ND		1.0		ug/L			10/02/14 14:32	1
Ethylene Dibromide	ND		1.0		ug/L			10/02/14 14:32	1
Hexachlorobutadiene	ND		2.0		ug/L			10/02/14 14:32	1
Isopropyl ether	ND		2.0		ug/L			10/02/14 14:32	1
Isopropylbenzene	ND		1.0		ug/L			10/02/14 14:32	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/02/14 14:32	1
Methylene Chloride	ND		5.0		ug/L			10/02/14 14:32	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/02/14 14:32	1
Naphthalene	ND		5.0		ug/L			10/02/14 14:32	1
n-Butylbenzene	ND		1.0		ug/L			10/02/14 14:32	1
N-Propylbenzene	ND		1.0		ug/L			10/02/14 14:32	1
o-Xylene	ND		1.0		ug/L			10/02/14 14:32	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-67875-37

Date Collected: 09/23/14 00:00

Matrix: Water

Date Received: 09/24/14 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0		ug/L			10/02/14 14:32	1
Styrene	ND		1.0		ug/L			10/02/14 14:32	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/02/14 14:32	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/02/14 14:32	1
tert-Butylbenzene	ND		1.0		ug/L			10/02/14 14:32	1
Tetrachloroethene	ND		1.0		ug/L			10/02/14 14:32	1
Tetrahydrofuran	ND		10		ug/L			10/02/14 14:32	1
Toluene	ND		1.0		ug/L			10/02/14 14:32	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/02/14 14:32	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 14:32	1
Trichloroethene	ND		1.0		ug/L			10/02/14 14:32	1
Trichlorofluoromethane	ND		1.0		ug/L			10/02/14 14:32	1
Vinyl chloride	ND		1.0		ug/L			10/02/14 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Dibromofluoromethane (Surr)</i>	102		70 - 130					10/02/14 14:32	1
<i>Toluene-d8 (Surr)</i>	113		70 - 130					10/02/14 14:32	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	112		70 - 130					10/02/14 14:32	1
<i>4-Bromofluorobenzene (Surr)</i>	95		70 - 130					10/02/14 14:32	1

Surrogate Summary

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

TestAmerica Job ID: 480-67875-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DBFM (70-130)	TOL (70-130)	12DCE (70-130)	BFB (70-130)
480-67875-1	DEP-19M-20140921	106	91	106	93
480-67875-1	DEP-19M-20140921	97	96	105	96
480-67875-2	DEP-21-20140921	95	94	104	94
480-67875-3	MW-261S-20140923	94	96	102	95
480-67875-4	MW-263M-20140921	96	95	99	96
480-67875-5	MW-264M-20140921	94	100	105	97
480-67875-6	MW-265S-20140920	96	100	104	94
480-67875-7	MW-265M-20140923	103	95	116	96
480-67875-8	MW-265D-20140920	99	99	105	98
480-67875-9	MW-266Ma-20140920	97	101	106	98
480-67875-10	MW-266Mb-20140920	101	98	109	97
480-67875-11	MW-267S-20140920	101	99	111	96
480-67875-11	MW-267S-20140920	95	102	100	95
480-67875-12	MW-267M-20140920	99	99	113	97
480-67875-13	MW-268S-20140923	98	97	111	97
480-67875-14	MW-268M-20140923	100	101	111	97
480-67875-14	MW-268M-20140923	100	101	108	95
480-67875-15	MW-268D-20140920	99	98	110	94
480-67875-15	MW-268D-20140920	98	101	102	94
480-67875-16	MW-269Ma-20140920	101	96	109	96
480-67875-17	MW-551-20140920	95	97	110	101
480-67875-18	MW-552-20140923	109	98	112	95
480-67875-18	MW-552-20140923	96	103	106	94
480-67875-19	MW-553-20140922	101	98	109	96
480-67875-19	MW-553-20140922	94	100	100	100
480-67875-20	MW-560-20140922	111	92	119	95
480-67875-21	MW-561-20140922	99	114	110	98
480-67875-21	MW-561-20140922	103	99	106	94
480-67875-22	MW-562-20140922	100	112	114	95
480-67875-23	MW-563-20140922	101	114	113	99
480-67875-24	REW-1-20140923	102	112	113	96
480-67875-25	REW-4-20140923	102	113	112	96
480-67875-26	REW-5-20140923	103	113	112	96
480-67875-27	REW-6-20140922	102	115	111	97
480-67875-27	REW-6-20140922	102	114	109	94
480-67875-28	REW-7-20140922	103	114	112	96
480-67875-28	REW-7-20140922	107	100	105	96
480-67875-29	REW-8-20140922	102	114	112	98
480-67875-30	REW-9-20140922	104	114	114	93
480-67875-31	REW-10-20140923	102	114	112	99
480-67875-32	REW-11-20140922	103	113	111	95
480-67875-32	REW-11-20140922	104	113	114	94
480-67875-33	REW-12-20140922	104	115	112	95
480-67875-33	REW-12-20140922	105	98	107	88
480-67875-34	DUP1-20140920	102	113	112	97
480-67875-35	DUP2-20140922	102	114	112	95
480-67875-35	DUP2-20140922	106	100	108	96
480-67875-36	DUP3-20140923	102	113	109	99
480-67875-37	TRIP BLANKS	102	113	112	95

TestAmerica Buffalo

Surrogate Summary

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

TestAmerica Job ID: 480-67875-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DBFM (70-130)	TOL (70-130)	12DCE (70-130)	BFB (70-130)
LCS 490-194457/3	Lab Control Sample	110	93	116	92
LCS 490-194717/3	Lab Control Sample	101	107	107	93
LCS 490-194754/3	Lab Control Sample	97	97	124	94
LCS 490-194871/3	Lab Control Sample	104	112	110	92
LCS 490-194946/3	Lab Control Sample	104	96	116	95
LCS 490-195016/3	Lab Control Sample	99	100	98	97
LCS 490-195033/3	Lab Control Sample	100	100	107	95
LCS 490-195081/3	Lab Control Sample	101	109	106	93
LCS 490-195227/3	Lab Control Sample	104	109	108	94
LCSD 490-194457/4	Lab Control Sample Dup	98	96	111	98
LCSD 490-194717/4	Lab Control Sample Dup	101	107	108	93
LCSD 490-194754/4	Lab Control Sample Dup	103	96	116	95
LCSD 490-194871/4	Lab Control Sample Dup	102	109	110	92
LCSD 490-194946/4	Lab Control Sample Dup	98	98	105	95
LCSD 490-195016/4	Lab Control Sample Dup	100	99	96	102
LCSD 490-195033/4	Lab Control Sample Dup	94	101	98	96
LCSD 490-195081/4	Lab Control Sample Dup	100	109	106	94
LCSD 490-195227/4	Lab Control Sample Dup	101	108	105	93
MB 490-194457/7	Method Blank	102	96	108	92
MB 490-194717/7	Method Blank	102	112	112	92
MB 490-194754/7	Method Blank	99	98	104	98
MB 490-194871/7	Method Blank	102	114	113	94
MB 490-194946/7	Method Blank	98	99	103	93
MB 490-195016/7	Method Blank	105	99	107	92
MB 490-195033/7	Method Blank	99	102	105	95
MB 490-195081/7	Method Blank	101	111	108	97
MB 490-195227/7	Method Blank	101	114	109	97

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		14DD8 (70-130)
480-67875-3	MW-261S-20140923	78
480-67875-7	MW-265M-20140923	49 X
480-67875-9	MW-266Ma-20140920	93
480-67875-11	MW-267S-20140920	91
480-67875-12	MW-267M-20140920	94
480-67875-13	MW-268S-20140923	87
480-67875-14	MW-268M-20140923	90
480-67875-16	MW-269Ma-20140920	88
480-67875-18	MW-552-20140923	86

TestAmerica Buffalo

Surrogate Summary

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

TestAmerica Job ID: 480-67875-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	14DD8 (70-130)
480-67875-36	DUP3-20140923	83
LCS 200-77937/2-A	Lab Control Sample	79
MB 200-77937/1-A	Method Blank	86

Surrogate Legend

14DD8 = 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: 480-67875-1

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

Lab Sample ID: MB 490-194457/7

Matrix: Water

Analysis Batch: 194457

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			10/01/14 13:44	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/01/14 13:44	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/01/14 13:44	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/01/14 13:44	1
1,1-Dichloroethane	ND		1.0		ug/L			10/01/14 13:44	1
1,1-Dichloroethene	ND		1.0		ug/L			10/01/14 13:44	1
1,1-Dichloropropene	ND		1.0		ug/L			10/01/14 13:44	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/01/14 13:44	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/01/14 13:44	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/01/14 13:44	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/01/14 13:44	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/01/14 13:44	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/01/14 13:44	1
1,2-Dichloroethane	ND		1.0		ug/L			10/01/14 13:44	1
1,2-Dichloropropane	ND		1.0		ug/L			10/01/14 13:44	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/01/14 13:44	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/01/14 13:44	1
1,3-Dichloropropane	ND		1.0		ug/L			10/01/14 13:44	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/01/14 13:44	1
1,4-Dioxane	ND		200		ug/L			10/01/14 13:44	1
2,2-Dichloropropane	ND		1.0		ug/L			10/01/14 13:44	1
2-Butanone (MEK)	ND		50		ug/L			10/01/14 13:44	1
2-Chlorotoluene	ND		1.0		ug/L			10/01/14 13:44	1
2-Hexanone	ND		10		ug/L			10/01/14 13:44	1
4-Chlorotoluene	ND		1.0		ug/L			10/01/14 13:44	1
4-Isopropyltoluene	ND		1.0		ug/L			10/01/14 13:44	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/01/14 13:44	1
Acetone	ND		25		ug/L			10/01/14 13:44	1
Benzene	ND		1.0		ug/L			10/01/14 13:44	1
Bromobenzene	ND		1.0		ug/L			10/01/14 13:44	1
Bromoform	ND		1.0		ug/L			10/01/14 13:44	1
Bromomethane	ND		1.0		ug/L			10/01/14 13:44	1
Carbon disulfide	ND		1.0		ug/L			10/01/14 13:44	1
Carbon tetrachloride	ND		1.0		ug/L			10/01/14 13:44	1
Chlorobenzene	ND		1.0		ug/L			10/01/14 13:44	1
Chlorobromomethane	ND		1.0		ug/L			10/01/14 13:44	1
Chlorodibromomethane	ND		1.0		ug/L			10/01/14 13:44	1
Chloroethane	ND		1.0		ug/L			10/01/14 13:44	1
Chloroform	ND		1.0		ug/L			10/01/14 13:44	1
Chloromethane	ND		1.0		ug/L			10/01/14 13:44	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/01/14 13:44	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/01/14 13:44	1
Dibromomethane	ND		1.0		ug/L			10/01/14 13:44	1
Dichlorobromomethane	ND		1.0		ug/L			10/01/14 13:44	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/01/14 13:44	1
Ethyl ether	ND		5.0		ug/L			10/01/14 13:44	1
Ethylbenzene	ND		1.0		ug/L			10/01/14 13:44	1
Ethylene Dibromide	ND		1.0		ug/L			10/01/14 13:44	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: MB 490-194457/7

Matrix: Water

Analysis Batch: 194457

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		2.0		ug/L			10/01/14 13:44	1
Isopropyl ether	ND		2.0		ug/L			10/01/14 13:44	1
Isopropylbenzene	ND		1.0		ug/L			10/01/14 13:44	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/01/14 13:44	1
Methylene Chloride	ND		5.0		ug/L			10/01/14 13:44	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/01/14 13:44	1
Naphthalene	ND		5.0		ug/L			10/01/14 13:44	1
n-Butylbenzene	ND		1.0		ug/L			10/01/14 13:44	1
N-Propylbenzene	ND		1.0		ug/L			10/01/14 13:44	1
o-Xylene	ND		1.0		ug/L			10/01/14 13:44	1
sec-Butylbenzene	ND		1.0		ug/L			10/01/14 13:44	1
Styrene	ND		1.0		ug/L			10/01/14 13:44	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/01/14 13:44	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/01/14 13:44	1
tert-Butylbenzene	ND		1.0		ug/L			10/01/14 13:44	1
Tetrachloroethene	ND		1.0		ug/L			10/01/14 13:44	1
Tetrahydrofuran	ND		10		ug/L			10/01/14 13:44	1
Toluene	ND		1.0		ug/L			10/01/14 13:44	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/01/14 13:44	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/01/14 13:44	1
Trichloroethene	ND		1.0		ug/L			10/01/14 13:44	1
Trichlorofluoromethane	ND		1.0		ug/L			10/01/14 13:44	1
Vinyl chloride	ND		1.0		ug/L			10/01/14 13:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		70 - 130		10/01/14 13:44	1
Toluene-d8 (Surr)	96		70 - 130		10/01/14 13:44	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		10/01/14 13:44	1
4-Bromofluorobenzene (Surr)	92		70 - 130		10/01/14 13:44	1

Lab Sample ID: LCS 490-194457/3

Matrix: Water

Analysis Batch: 194457

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	50.0	49.2		ug/L		98	70 - 130
1,1,1-Trichloroethane	50.0	59.3		ug/L		119	70 - 130
1,1,2,2-Tetrachloroethane	50.0	43.0		ug/L		86	70 - 130
1,1,2-Trichloroethane	50.0	45.8		ug/L		92	70 - 130
1,1-Dichloroethane	50.0	51.7		ug/L		103	70 - 130
1,1-Dichloroethane	50.0	54.7		ug/L		109	70 - 130
1,1-Dichloropropene	50.0	54.7		ug/L		109	70 - 130
1,2,3-Trichlorobenzene	50.0	51.5		ug/L		103	70 - 130
1,2,3-Trichloropropane	50.0	47.8		ug/L		96	70 - 130
1,2,4-Trichlorobenzene	50.0	51.4		ug/L		103	70 - 130
1,2,4-Trimethylbenzene	50.0	45.7		ug/L		91	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	49.1		ug/L		98	70 - 130
1,2-Dichlorobenzene	50.0	46.9		ug/L		94	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCS 490-194457/3

Matrix: Water

Analysis Batch: 194457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	61.9		ug/L		124	70 - 130
1,2-Dichloropropane	50.0	45.6		ug/L		91	70 - 130
1,3,5-Trimethylbenzene	50.0	46.2		ug/L		92	70 - 130
1,3-Dichlorobenzene	50.0	46.6		ug/L		93	70 - 130
1,3-Dichloropropane	50.0	48.1		ug/L		96	70 - 130
1,4-Dichlorobenzene	50.0	44.3		ug/L		89	70 - 130
1,4-Dioxane	1000	1490 *		ug/L		149	70 - 130
2,2-Dichloropropane	50.0	57.3		ug/L		115	70 - 130
2-Butanone (MEK)	250	265		ug/L		106	70 - 130
2-Chlorotoluene	50.0	46.1		ug/L		92	70 - 130
2-Hexanone	250	220		ug/L		88	70 - 130
4-Chlorotoluene	50.0	47.0		ug/L		94	70 - 130
4-Isopropyltoluene	50.0	47.0		ug/L		94	70 - 130
4-Methyl-2-pentanone (MIBK)	250	218		ug/L		87	70 - 130
Acetone	250	258		ug/L		103	70 - 130
Benzene	50.0	47.2		ug/L		94	70 - 130
Bromobenzene	50.0	43.2		ug/L		86	70 - 130
Bromoform	50.0	53.7		ug/L		107	70 - 130
Bromomethane	50.0	56.5		ug/L		113	70 - 130
Carbon disulfide	50.0	51.6		ug/L		103	70 - 130
Carbon tetrachloride	50.0	59.7		ug/L		119	70 - 130
Chlorobenzene	50.0	47.5		ug/L		95	70 - 130
Chlorobromomethane	50.0	53.1		ug/L		106	70 - 130
Chlorodibromomethane	50.0	50.2		ug/L		100	70 - 130
Chloroethane	50.0	50.0		ug/L		100	70 - 130
Chloroform	50.0	56.9		ug/L		114	70 - 130
Chloromethane	50.0	46.4		ug/L		93	70 - 130
cis-1,2-Dichloroethene	50.0	51.3		ug/L		103	70 - 130
cis-1,3-Dichloropropene	50.0	46.7		ug/L		93	70 - 130
Dibromomethane	50.0	52.1		ug/L		104	70 - 130
Dichlorobromomethane	50.0	54.3		ug/L		109	70 - 130
Dichlorodifluoromethane	50.0	57.8		ug/L		116	70 - 130
Ethyl ether	50.0	47.0		ug/L		94	70 - 130
Ethylbenzene	50.0	47.5		ug/L		95	70 - 130
Ethylene Dibromide	50.0	46.4		ug/L		93	70 - 130
Hexachlorobutadiene	50.0	51.3		ug/L		103	70 - 130
Isopropyl ether	50.0	43.1		ug/L		86	70 - 130
Isopropylbenzene	50.0	48.7		ug/L		97	70 - 130
Methyl tert-butyl ether	50.0	51.4		ug/L		103	70 - 130
Methylene Chloride	50.0	45.9		ug/L		92	70 - 130
m-Xylene & p-Xylene	50.0	48.0		ug/L		96	70 - 130
Naphthalene	50.0	50.4		ug/L		101	70 - 130
n-Butylbenzene	50.0	45.7		ug/L		91	70 - 130
N-Propylbenzene	50.0	45.8		ug/L		92	70 - 130
o-Xylene	50.0	46.8		ug/L		94	70 - 130
sec-Butylbenzene	50.0	46.6		ug/L		93	70 - 130
Styrene	50.0	46.7		ug/L		93	70 - 130
Tert-amyl methyl ether	50.0	48.6		ug/L		97	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCS 490-194457/3

Matrix: Water

Analysis Batch: 194457

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tert-butyl ethyl ether	50.0	48.7		ug/L		97	70 - 130
tert-Butylbenzene	50.0	47.6		ug/L		95	70 - 130
Tetrachloroethene	50.0	49.6		ug/L		99	70 - 130
Tetrahydrofuran	100	99.7		ug/L		100	70 - 130
Toluene	50.0	45.8		ug/L		92	70 - 130
trans-1,2-Dichloroethene	50.0	51.8		ug/L		104	70 - 130
trans-1,3-Dichloropropene	50.0	48.7		ug/L		97	70 - 130
Trichloroethene	50.0	51.9		ug/L		104	70 - 130
Trichlorofluoromethane	50.0	62.7		ug/L		125	70 - 130
Vinyl chloride	50.0	49.6		ug/L		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	110		70 - 130
Toluene-d8 (Surr)	93		70 - 130
1,2-Dichloroethane-d4 (Surr)	116		70 - 130
4-Bromofluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 490-194457/4

Matrix: Water

Analysis Batch: 194457

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	50.0	46.4		ug/L		93	70 - 130	6	20
1,1,1-Trichloroethane	50.0	53.3		ug/L		107	70 - 130	11	20
1,1,1,2,2-Tetrachloroethane	50.0	41.8		ug/L		84	70 - 130	3	20
1,1,1,2-Trichloroethane	50.0	45.7		ug/L		91	70 - 130	0	20
1,1-Dichloroethane	50.0	45.8		ug/L		92	70 - 130	12	20
1,1-Dichloroethene	50.0	48.3		ug/L		97	70 - 130	12	20
1,1-Dichloropropene	50.0	50.2		ug/L		100	70 - 130	9	20
1,2,3-Trichlorobenzene	50.0	49.3		ug/L		99	70 - 130	4	20
1,2,3-Trichloropropene	50.0	47.5		ug/L		95	70 - 130	1	20
1,2,4-Trichlorobenzene	50.0	49.6		ug/L		99	70 - 130	4	20
1,2,4-Trimethylbenzene	50.0	43.8		ug/L		88	70 - 130	4	20
1,2-Dibromo-3-Chloropropane	50.0	48.2		ug/L		96	70 - 130	2	20
1,2-Dichlorobenzene	50.0	45.2		ug/L		90	70 - 130	4	20
1,2-Dichloroethane	50.0	55.7		ug/L		111	70 - 130	11	20
1,2-Dichloropropane	50.0	42.1		ug/L		84	70 - 130	8	20
1,3,5-Trimethylbenzene	50.0	44.6		ug/L		89	70 - 130	3	20
1,3-Dichlorobenzene	50.0	44.6		ug/L		89	70 - 130	4	20
1,3-Dichloropropane	50.0	47.5		ug/L		95	70 - 130	1	20
1,4-Dichlorobenzene	50.0	42.6		ug/L		85	70 - 130	4	20
1,4-Dioxane	1000	1380	*	ug/L		138	70 - 130	7	20
2,2-Dichloropropane	50.0	52.4		ug/L		105	70 - 130	9	20
2-Butanone (MEK)	250	246		ug/L		98	70 - 130	8	20
2-Chlorotoluene	50.0	45.1		ug/L		90	70 - 130	2	20
2-Hexanone	250	215		ug/L		86	70 - 130	3	20
4-Chlorotoluene	50.0	45.3		ug/L		91	70 - 130	4	20
4-Isopropyltoluene	50.0	45.4		ug/L		91	70 - 130	3	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCSD 490-194457/4

Matrix: Water

Analysis Batch: 194457

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		
4-Methyl-2-pentanone (MIBK)	250	222		ug/L		89	70 - 130	2	20
Acetone	250	214		ug/L		85	70 - 130	19	20
Benzene	50.0	45.3		ug/L		91	70 - 130	4	20
Bromobenzene	50.0	42.5		ug/L		85	70 - 130	2	20
Bromoform	50.0	50.2		ug/L		100	70 - 130	7	20
Bromomethane	50.0	50.3		ug/L		101	70 - 130	12	20
Carbon disulfide	50.0	47.0		ug/L		94	70 - 130	9	20
Carbon tetrachloride	50.0	54.9		ug/L		110	70 - 130	8	20
Chlorobenzene	50.0	45.4		ug/L		91	70 - 130	4	20
Chlorobromomethane	50.0	48.8		ug/L		98	70 - 130	9	20
Chlorodibromomethane	50.0	48.4		ug/L		97	70 - 130	4	20
Chloroethane	50.0	44.2		ug/L		88	70 - 130	12	20
Chloroform	50.0	50.7		ug/L		101	70 - 130	12	20
Chloromethane	50.0	39.8		ug/L		80	70 - 130	15	20
cis-1,2-Dichloroethene	50.0	46.7		ug/L		93	70 - 130	9	20
cis-1,3-Dichloropropene	50.0	47.6		ug/L		95	70 - 130	2	20
Dibromomethane	50.0	47.5		ug/L		95	70 - 130	9	20
Dichlorobromomethane	50.0	48.8		ug/L		98	70 - 130	11	20
Dichlorodifluoromethane	50.0	50.8		ug/L		102	70 - 130	13	20
Ethyl ether	50.0	46.5		ug/L		93	70 - 130	1	20
Ethylbenzene	50.0	45.1		ug/L		90	70 - 130	5	20
Ethylene Dibromide	50.0	45.3		ug/L		91	70 - 130	2	20
Hexachlorobutadiene	50.0	48.0		ug/L		96	70 - 130	7	20
Isopropyl ether	50.0	43.8		ug/L		88	70 - 130	2	20
Isopropylbenzene	50.0	46.2		ug/L		92	70 - 130	5	20
Methyl tert-butyl ether	50.0	50.6		ug/L		101	70 - 130	2	20
Methylene Chloride	50.0	43.6		ug/L		87	70 - 130	5	20
m-Xylene & p-Xylene	50.0	45.6		ug/L		91	70 - 130	5	20
Naphthalene	50.0	48.1		ug/L		96	70 - 130	5	20
n-Butylbenzene	50.0	44.2		ug/L		88	70 - 130	4	20
N-Propylbenzene	50.0	45.5		ug/L		91	70 - 130	0	20
o-Xylene	50.0	44.5		ug/L		89	70 - 130	5	20
sec-Butylbenzene	50.0	45.4		ug/L		91	70 - 130	3	20
Styrene	50.0	43.6		ug/L		87	70 - 130	7	20
Tert-amyl methyl ether	50.0	47.1		ug/L		94	70 - 130	3	20
Tert-butyl ethyl ether	50.0	48.2		ug/L		96	70 - 130	1	20
tert-Butylbenzene	50.0	47.0		ug/L		94	70 - 130	1	20
Tetrachloroethene	50.0	48.2		ug/L		96	70 - 130	3	20
Tetrahydrofuran	100	87.6		ug/L		88	70 - 130	13	20
Toluene	50.0	44.3		ug/L		89	70 - 130	3	20
trans-1,2-Dichloroethene	50.0	45.9		ug/L		92	70 - 130	12	20
trans-1,3-Dichloropropene	50.0	47.9		ug/L		96	70 - 130	1	20
Trichloroethene	50.0	47.5		ug/L		95	70 - 130	9	20
Trichlorofluoromethane	50.0	54.2		ug/L		108	70 - 130	14	20
Vinyl chloride	50.0	45.2		ug/L		90	70 - 130	9	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	98		70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCSD 490-194457/4

Matrix: Water

Analysis Batch: 194457

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	111		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 490-194717/7

Matrix: Water

Analysis Batch: 194717

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			10/02/14 14:05	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/02/14 14:05	1
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/02/14 14:05	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/02/14 14:05	1
1,1-Dichloroethane	ND		1.0		ug/L			10/02/14 14:05	1
1,1-Dichloroethene	ND		1.0		ug/L			10/02/14 14:05	1
1,1-Dichloropropene	ND		1.0		ug/L			10/02/14 14:05	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/02/14 14:05	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/02/14 14:05	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/02/14 14:05	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/02/14 14:05	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/02/14 14:05	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/02/14 14:05	1
1,2-Dichloroethane	ND		1.0		ug/L			10/02/14 14:05	1
1,2-Dichloropropane	ND		1.0		ug/L			10/02/14 14:05	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/02/14 14:05	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/02/14 14:05	1
1,3-Dichloropropane	ND		1.0		ug/L			10/02/14 14:05	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/02/14 14:05	1
1,4-Dioxane	ND		200		ug/L			10/02/14 14:05	1
2,2-Dichloropropane	ND		1.0		ug/L			10/02/14 14:05	1
2-Butanone (MEK)	ND		50		ug/L			10/02/14 14:05	1
2-Chlorotoluene	ND		1.0		ug/L			10/02/14 14:05	1
2-Hexanone	ND		10		ug/L			10/02/14 14:05	1
4-Chlorotoluene	ND		1.0		ug/L			10/02/14 14:05	1
4-Isopropyltoluene	ND		1.0		ug/L			10/02/14 14:05	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/02/14 14:05	1
Acetone	ND		25		ug/L			10/02/14 14:05	1
Benzene	ND		1.0		ug/L			10/02/14 14:05	1
Bromobenzene	ND		1.0		ug/L			10/02/14 14:05	1
Bromoform	ND		1.0		ug/L			10/02/14 14:05	1
Bromomethane	ND		1.0		ug/L			10/02/14 14:05	1
Carbon disulfide	ND		1.0		ug/L			10/02/14 14:05	1
Carbon tetrachloride	ND		1.0		ug/L			10/02/14 14:05	1
Chlorobenzene	ND		1.0		ug/L			10/02/14 14:05	1
Chlorobromomethane	ND		1.0		ug/L			10/02/14 14:05	1
Chlorodibromomethane	ND		1.0		ug/L			10/02/14 14:05	1
Chloroethane	ND		1.0		ug/L			10/02/14 14:05	1
Chloroform	ND		1.0		ug/L			10/02/14 14:05	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: MB 490-194717/7

Matrix: Water

Analysis Batch: 194717

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloromethane	ND		1.0		ug/L			10/02/14 14:05	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/02/14 14:05	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 14:05	1
Dibromomethane	ND		1.0		ug/L			10/02/14 14:05	1
Dichlorobromomethane	ND		1.0		ug/L			10/02/14 14:05	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/02/14 14:05	1
Ethyl ether	ND		5.0		ug/L			10/02/14 14:05	1
Ethylbenzene	ND		1.0		ug/L			10/02/14 14:05	1
Ethylene Dibromide	ND		1.0		ug/L			10/02/14 14:05	1
Hexachlorobutadiene	ND		2.0		ug/L			10/02/14 14:05	1
Isopropyl ether	ND		2.0		ug/L			10/02/14 14:05	1
Isopropylbenzene	ND		1.0		ug/L			10/02/14 14:05	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/02/14 14:05	1
Methylene Chloride	ND		5.0		ug/L			10/02/14 14:05	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/02/14 14:05	1
Naphthalene	ND		5.0		ug/L			10/02/14 14:05	1
n-Butylbenzene	ND		1.0		ug/L			10/02/14 14:05	1
N-Propylbenzene	ND		1.0		ug/L			10/02/14 14:05	1
o-Xylene	ND		1.0		ug/L			10/02/14 14:05	1
sec-Butylbenzene	ND		1.0		ug/L			10/02/14 14:05	1
Styrene	ND		1.0		ug/L			10/02/14 14:05	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/02/14 14:05	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/02/14 14:05	1
tert-Butylbenzene	ND		1.0		ug/L			10/02/14 14:05	1
Tetrachloroethene	ND		1.0		ug/L			10/02/14 14:05	1
Tetrahydrofuran	ND		10		ug/L			10/02/14 14:05	1
Toluene	ND		1.0		ug/L			10/02/14 14:05	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/02/14 14:05	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 14:05	1
Trichloroethene	ND		1.0		ug/L			10/02/14 14:05	1
Trichlorofluoromethane	ND		1.0		ug/L			10/02/14 14:05	1
Vinyl chloride	ND		1.0		ug/L			10/02/14 14:05	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	102		70 - 130		10/02/14 14:05	1
Toluene-d8 (Surr)	112		70 - 130		10/02/14 14:05	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 130		10/02/14 14:05	1
4-Bromofluorobenzene (Surr)	92		70 - 130		10/02/14 14:05	1

Lab Sample ID: LCS 490-194717/3

Matrix: Water

Analysis Batch: 194717

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	50.0	51.8		ug/L		104	70 - 130
1,1,1-Trichloroethane	50.0	51.0		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.5		ug/L		103	70 - 130
1,1,2-Trichloroethane	50.0	54.9		ug/L		110	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCS 490-194717/3

Matrix: Water

Analysis Batch: 194717

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	50.0	51.1		ug/L		102	70 - 130
1,1-Dichloroethene	50.0	50.1		ug/L		100	70 - 130
1,1-Dichloropropene	50.0	50.2		ug/L		100	70 - 130
1,2,3-Trichlorobenzene	50.0	52.6		ug/L		105	70 - 130
1,2,3-Trichloropropane	50.0	51.4		ug/L		103	70 - 130
1,2,4-Trichlorobenzene	50.0	54.5		ug/L		109	70 - 130
1,2,4-Trimethylbenzene	50.0	50.9		ug/L		102	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	49.7		ug/L		99	70 - 130
1,2-Dichlorobenzene	50.0	53.0		ug/L		106	70 - 130
1,2-Dichloroethane	50.0	54.8		ug/L		110	70 - 130
1,2-Dichloropropane	50.0	50.2		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	50.0	51.7		ug/L		103	70 - 130
1,3-Dichlorobenzene	50.0	51.4		ug/L		103	70 - 130
1,3-Dichloropropane	50.0	58.1		ug/L		116	70 - 130
1,4-Dichlorobenzene	50.0	50.3		ug/L		101	70 - 130
1,4-Dioxane	1000	869		ug/L		87	70 - 130
2,2-Dichloropropane	50.0	51.0		ug/L		102	70 - 130
2-Butanone (MEK)	250	268		ug/L		107	70 - 130
2-Chlorotoluene	50.0	48.9		ug/L		98	70 - 130
2-Hexanone	250	296		ug/L		118	70 - 130
4-Chlorotoluene	50.0	52.3		ug/L		105	70 - 130
4-Isopropyltoluene	50.0	50.0		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	250	309		ug/L		124	70 - 130
Acetone	250	260		ug/L		104	70 - 130
Benzene	50.0	50.8		ug/L		102	70 - 130
Bromobenzene	50.0	49.3		ug/L		99	70 - 130
Bromoform	50.0	53.6		ug/L		107	70 - 130
Bromomethane	50.0	55.4		ug/L		111	70 - 130
Carbon disulfide	50.0	51.7		ug/L		103	70 - 130
Carbon tetrachloride	50.0	50.6		ug/L		101	70 - 130
Chlorobenzene	50.0	50.6		ug/L		101	70 - 130
Chlorobromomethane	50.0	52.5		ug/L		105	70 - 130
Chlorodibromomethane	50.0	52.6		ug/L		105	70 - 130
Chloroethane	50.0	52.0		ug/L		104	70 - 130
Chloroform	50.0	50.7		ug/L		101	70 - 130
Chloromethane	50.0	50.5		ug/L		101	70 - 130
cis-1,2-Dichloroethene	50.0	52.3		ug/L		105	70 - 130
cis-1,3-Dichloropropene	50.0	55.4		ug/L		111	70 - 130
Dibromomethane	50.0	51.3		ug/L		103	70 - 130
Dichlorobromomethane	50.0	49.9		ug/L		100	70 - 130
Dichlorodifluoromethane	50.0	54.8		ug/L		110	70 - 130
Ethyl ether	50.0	53.8		ug/L		108	70 - 130
Ethylbenzene	50.0	50.9		ug/L		102	70 - 130
Ethylene Dibromide	50.0	54.6		ug/L		109	70 - 130
Hexachlorobutadiene	50.0	46.2		ug/L		92	70 - 130
Isopropyl ether	50.0	55.8		ug/L		112	70 - 130
Isopropylbenzene	50.0	51.4		ug/L		103	70 - 130
Methyl tert-butyl ether	50.0	53.3		ug/L		107	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCS 490-194717/3

Matrix: Water

Analysis Batch: 194717

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	50.0	52.7		ug/L		105	70 - 130
m-Xylene & p-Xylene	50.0	50.9		ug/L		102	70 - 130
Naphthalene	50.0	56.5		ug/L		113	70 - 130
n-Butylbenzene	50.0	53.6		ug/L		107	70 - 130
N-Propylbenzene	50.0	51.8		ug/L		104	70 - 130
o-Xylene	50.0	51.3		ug/L		103	70 - 130
sec-Butylbenzene	50.0	50.6		ug/L		101	70 - 130
Styrene	50.0	53.3		ug/L		107	70 - 130
Tert-amyl methyl ether	50.0	50.5		ug/L		101	70 - 130
Tert-butyl ethyl ether	50.0	51.8		ug/L		104	70 - 130
tert-Butylbenzene	50.0	48.9		ug/L		98	70 - 130
Tetrachloroethene	50.0	53.4		ug/L		107	70 - 130
Tetrahydrofuran	100	117		ug/L		117	70 - 130
Toluene	50.0	55.9		ug/L		112	70 - 130
trans-1,2-Dichloroethene	50.0	52.8		ug/L		106	70 - 130
trans-1,3-Dichloropropene	50.0	54.1		ug/L		108	70 - 130
Trichloroethene	50.0	49.8		ug/L		100	70 - 130
Trichlorofluoromethane	50.0	56.5		ug/L		113	70 - 130
Vinyl chloride	50.0	51.7		ug/L		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	107		70 - 130
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 490-194717/4

Matrix: Water

Analysis Batch: 194717

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	50.0	49.4		ug/L		99	70 - 130	5	20
1,1,1-Trichloroethane	50.0	47.8		ug/L		96	70 - 130	6	20
1,1,2,2-Tetrachloroethane	50.0	51.6		ug/L		103	70 - 130	0	20
1,1,2-Trichloroethane	50.0	53.4		ug/L		107	70 - 130	3	20
1,1-Dichloroethane	50.0	48.8		ug/L		98	70 - 130	5	20
1,1-Dichloroethene	50.0	47.4		ug/L		95	70 - 130	6	20
1,1-Dichloropropene	50.0	47.3		ug/L		95	70 - 130	6	20
1,2,3-Trichlorobenzene	50.0	51.3		ug/L		103	70 - 130	3	20
1,2,3-Trichloropropane	50.0	51.6		ug/L		103	70 - 130	0	20
1,2,4-Trichlorobenzene	50.0	51.2		ug/L		102	70 - 130	6	20
1,2,4-Trimethylbenzene	50.0	48.8		ug/L		98	70 - 130	4	20
1,2-Dibromo-3-Chloropropane	50.0	49.8		ug/L		100	70 - 130	0	20
1,2-Dichlorobenzene	50.0	51.3		ug/L		103	70 - 130	3	20
1,2-Dichloroethane	50.0	53.6		ug/L		107	70 - 130	2	20
1,2-Dichloropropane	50.0	48.8		ug/L		98	70 - 130	3	20
1,3,5-Trimethylbenzene	50.0	49.3		ug/L		99	70 - 130	5	20
1,3-Dichlorobenzene	50.0	49.4		ug/L		99	70 - 130	4	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCSD 490-194717/4

Matrix: Water

Analysis Batch: 194717

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		
1,3-Dichloropropane	50.0	56.0		ug/L		112	70 - 130	4	20
1,4-Dichlorobenzene	50.0	48.9		ug/L		98	70 - 130	3	20
1,4-Dioxane	1000	930		ug/L		93	70 - 130	7	20
2,2-Dichloropropane	50.0	48.0		ug/L		96	70 - 130	6	20
2-Butanone (MEK)	250	271		ug/L		108	70 - 130	1	20
2-Chlorotoluene	50.0	46.8		ug/L		94	70 - 130	4	20
2-Hexanone	250	296		ug/L		119	70 - 130	0	20
4-Chlorotoluene	50.0	50.1		ug/L		100	70 - 130	4	20
4-Isopropyltoluene	50.0	47.6		ug/L		95	70 - 130	5	20
4-Methyl-2-pentanone (MIBK)	250	305		ug/L		122	70 - 130	1	20
Acetone	250	277		ug/L		111	70 - 130	6	20
Benzene	50.0	48.1		ug/L		96	70 - 130	5	20
Bromobenzene	50.0	47.2		ug/L		94	70 - 130	4	20
Bromoform	50.0	52.4		ug/L		105	70 - 130	2	20
Bromomethane	50.0	51.7		ug/L		103	70 - 130	7	20
Carbon disulfide	50.0	48.1		ug/L		96	70 - 130	7	20
Carbon tetrachloride	50.0	47.8		ug/L		96	70 - 130	6	20
Chlorobenzene	50.0	48.3		ug/L		97	70 - 130	5	20
Chlorobromomethane	50.0	50.1		ug/L		100	70 - 130	5	20
Chlorodibromomethane	50.0	51.6		ug/L		103	70 - 130	2	20
Chloroethane	50.0	49.1		ug/L		98	70 - 130	6	20
Chloroform	50.0	48.0		ug/L		96	70 - 130	5	20
Chloromethane	50.0	47.7		ug/L		95	70 - 130	6	20
cis-1,2-Dichloroethene	50.0	49.9		ug/L		100	70 - 130	5	20
cis-1,3-Dichloropropene	50.0	53.5		ug/L		107	70 - 130	3	20
Dibromomethane	50.0	50.4		ug/L		101	70 - 130	2	20
Dichlorobromomethane	50.0	47.9		ug/L		96	70 - 130	4	20
Dichlorodifluoromethane	50.0	51.4		ug/L		103	70 - 130	6	20
Ethyl ether	50.0	52.6		ug/L		105	70 - 130	2	20
Ethylbenzene	50.0	48.6		ug/L		97	70 - 130	5	20
Ethylene Dibromide	50.0	53.7		ug/L		107	70 - 130	2	20
Hexachlorobutadiene	50.0	43.8		ug/L		88	70 - 130	5	20
Isopropyl ether	50.0	54.1		ug/L		108	70 - 130	3	20
Isopropylbenzene	50.0	48.6		ug/L		97	70 - 130	5	20
Methyl tert-butyl ether	50.0	52.2		ug/L		104	70 - 130	2	20
Methylene Chloride	50.0	50.7		ug/L		101	70 - 130	4	20
m-Xylene & p-Xylene	50.0	47.6		ug/L		95	70 - 130	7	20
Naphthalene	50.0	56.2		ug/L		112	70 - 130	1	20
n-Butylbenzene	50.0	50.4		ug/L		101	70 - 130	6	20
N-Propylbenzene	50.0	49.4		ug/L		99	70 - 130	5	20
o-Xylene	50.0	48.6		ug/L		97	70 - 130	5	20
sec-Butylbenzene	50.0	48.6		ug/L		97	70 - 130	4	20
Styrene	50.0	51.5		ug/L		103	70 - 130	4	20
Tert-amyl methyl ether	50.0	49.7		ug/L		99	70 - 130	2	20
Tert-butyl ethyl ether	50.0	50.8		ug/L		102	70 - 130	2	20
tert-Butylbenzene	50.0	46.6		ug/L		93	70 - 130	5	20
Tetrachloroethene	50.0	50.7		ug/L		101	70 - 130	5	20
Tetrahydrofuran	100	119		ug/L		119	70 - 130	2	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCSD 490-194717/4

Matrix: Water

Analysis Batch: 194717

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
Toluene	50.0	53.4		ug/L		107	70 - 130	5	20
trans-1,2-Dichloroethene	50.0	49.4		ug/L		99	70 - 130	7	20
trans-1,3-Dichloropropene	50.0	52.6		ug/L		105	70 - 130	3	20
Trichloroethene	50.0	46.6		ug/L		93	70 - 130	7	20
Trichlorofluoromethane	50.0	53.0		ug/L		106	70 - 130	6	20
Vinyl chloride	50.0	48.7		ug/L		97	70 - 130	6	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	107		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130

Lab Sample ID: MB 490-194754/7

Matrix: Water

Analysis Batch: 194754

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			10/02/14 14:09	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/02/14 14:09	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/02/14 14:09	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/02/14 14:09	1
1,1-Dichloroethane	ND		1.0		ug/L			10/02/14 14:09	1
1,1-Dichloroethene	ND		1.0		ug/L			10/02/14 14:09	1
1,1-Dichloropropene	ND		1.0		ug/L			10/02/14 14:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/02/14 14:09	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/02/14 14:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/02/14 14:09	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/02/14 14:09	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/02/14 14:09	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/02/14 14:09	1
1,2-Dichloroethane	ND		1.0		ug/L			10/02/14 14:09	1
1,2-Dichloropropane	ND		1.0		ug/L			10/02/14 14:09	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/02/14 14:09	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/02/14 14:09	1
1,3-Dichloropropane	ND		1.0		ug/L			10/02/14 14:09	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/02/14 14:09	1
1,4-Dioxane	ND		200		ug/L			10/02/14 14:09	1
2,2-Dichloropropane	ND		1.0		ug/L			10/02/14 14:09	1
2-Butanone (MEK)	ND		50		ug/L			10/02/14 14:09	1
2-Chlorotoluene	ND		1.0		ug/L			10/02/14 14:09	1
2-Hexanone	ND		10		ug/L			10/02/14 14:09	1
4-Chlorotoluene	ND		1.0		ug/L			10/02/14 14:09	1
4-Isopropyltoluene	ND		1.0		ug/L			10/02/14 14:09	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/02/14 14:09	1
Acetone	ND		25		ug/L			10/02/14 14:09	1
Benzene	ND		1.0		ug/L			10/02/14 14:09	1
Bromobenzene	ND		1.0		ug/L			10/02/14 14:09	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: MB 490-194754/7

Matrix: Water

Analysis Batch: 194754

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		1.0		ug/L			10/02/14 14:09	1
Bromomethane	ND		1.0		ug/L			10/02/14 14:09	1
Carbon disulfide	ND		1.0		ug/L			10/02/14 14:09	1
Carbon tetrachloride	ND		1.0		ug/L			10/02/14 14:09	1
Chlorobenzene	ND		1.0		ug/L			10/02/14 14:09	1
Chlorobromomethane	ND		1.0		ug/L			10/02/14 14:09	1
Chlorodibromomethane	ND		1.0		ug/L			10/02/14 14:09	1
Chloroethane	ND		1.0		ug/L			10/02/14 14:09	1
Chloroform	ND		1.0		ug/L			10/02/14 14:09	1
Chloromethane	ND		1.0		ug/L			10/02/14 14:09	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/02/14 14:09	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 14:09	1
Dibromomethane	ND		1.0		ug/L			10/02/14 14:09	1
Dichlorobromomethane	ND		1.0		ug/L			10/02/14 14:09	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/02/14 14:09	1
Ethyl ether	ND		5.0		ug/L			10/02/14 14:09	1
Ethylbenzene	ND		1.0		ug/L			10/02/14 14:09	1
Ethylene Dibromide	ND		1.0		ug/L			10/02/14 14:09	1
Hexachlorobutadiene	ND		2.0		ug/L			10/02/14 14:09	1
Isopropyl ether	ND		2.0		ug/L			10/02/14 14:09	1
Isopropylbenzene	ND		1.0		ug/L			10/02/14 14:09	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/02/14 14:09	1
Methylene Chloride	ND		5.0		ug/L			10/02/14 14:09	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/02/14 14:09	1
Naphthalene	ND		5.0		ug/L			10/02/14 14:09	1
n-Butylbenzene	ND		1.0		ug/L			10/02/14 14:09	1
N-Propylbenzene	ND		1.0		ug/L			10/02/14 14:09	1
o-Xylene	ND		1.0		ug/L			10/02/14 14:09	1
sec-Butylbenzene	ND		1.0		ug/L			10/02/14 14:09	1
Styrene	ND		1.0		ug/L			10/02/14 14:09	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/02/14 14:09	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/02/14 14:09	1
tert-Butylbenzene	ND		1.0		ug/L			10/02/14 14:09	1
Tetrachloroethene	ND		1.0		ug/L			10/02/14 14:09	1
Tetrahydrofuran	ND		10		ug/L			10/02/14 14:09	1
Toluene	ND		1.0		ug/L			10/02/14 14:09	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/02/14 14:09	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/02/14 14:09	1
Trichloroethene	ND		1.0		ug/L			10/02/14 14:09	1
Trichlorofluoromethane	ND		1.0		ug/L			10/02/14 14:09	1
Vinyl chloride	ND		1.0		ug/L			10/02/14 14:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		70 - 130		10/02/14 14:09	1
Toluene-d8 (Surr)	98		70 - 130		10/02/14 14:09	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		10/02/14 14:09	1
4-Bromofluorobenzene (Surr)	98		70 - 130		10/02/14 14:09	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCS 490-194754/3

Matrix: Water

Analysis Batch: 194754

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	50.0	48.1		ug/L		96	70 - 130
1,1,1-Trichloroethane	50.0	54.6		ug/L		109	70 - 130
1,1,2,2-Tetrachloroethane	50.0	42.7		ug/L		85	70 - 130
1,1,2-Trichloroethane	50.0	45.5		ug/L		91	70 - 130
1,1-Dichloroethane	50.0	46.9		ug/L		94	70 - 130
1,1-Dichloroethene	50.0	53.0		ug/L		106	70 - 130
1,1-Dichloropropene	50.0	52.5		ug/L		105	70 - 130
1,2,3-Trichlorobenzene	50.0	47.9		ug/L		96	70 - 130
1,2,3-Trichloropropane	50.0	45.0		ug/L		90	70 - 130
1,2,4-Trichlorobenzene	50.0	47.5		ug/L		95	70 - 130
1,2,4-Trimethylbenzene	50.0	45.4		ug/L		91	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	47.9		ug/L		96	70 - 130
1,2-Dichlorobenzene	50.0	45.0		ug/L		90	70 - 130
1,2-Dichloroethane	50.0	53.9		ug/L		108	70 - 130
1,2-Dichloropropane	50.0	43.9		ug/L		88	70 - 130
1,3,5-Trimethylbenzene	50.0	45.7		ug/L		91	70 - 130
1,3-Dichlorobenzene	50.0	45.6		ug/L		91	70 - 130
1,3-Dichloropropane	50.0	47.5		ug/L		95	70 - 130
1,4-Dichlorobenzene	50.0	42.9		ug/L		86	70 - 130
1,4-Dioxane	1000	1390 *		ug/L		139	70 - 130
2,2-Dichloropropane	50.0	53.8		ug/L		108	70 - 130
2-Butanone (MEK)	250	257		ug/L		103	70 - 130
2-Chlorotoluene	50.0	45.9		ug/L		92	70 - 130
2-Hexanone	250	219		ug/L		88	70 - 130
4-Chlorotoluene	50.0	46.4		ug/L		93	70 - 130
4-Isopropyltoluene	50.0	46.4		ug/L		93	70 - 130
4-Methyl-2-pentanone (MIBK)	250	225		ug/L		90	70 - 130
Acetone	250	243		ug/L		97	70 - 130
Benzene	50.0	46.9		ug/L		94	70 - 130
Bromobenzene	50.0	44.0		ug/L		88	70 - 130
Bromoform	50.0	48.2		ug/L		96	70 - 130
Bromomethane	50.0	50.4		ug/L		101	70 - 130
Carbon disulfide	50.0	48.8		ug/L		98	70 - 130
Carbon tetrachloride	50.0	55.8		ug/L		112	70 - 130
Chlorobenzene	50.0	46.4		ug/L		93	70 - 130
Chlorobromomethane	50.0	50.2		ug/L		100	70 - 130
Chlorodibromomethane	50.0	47.9		ug/L		96	70 - 130
Chloroethane	50.0	47.7		ug/L		95	70 - 130
Chloroform	50.0	51.3		ug/L		103	70 - 130
Chloromethane	50.0	41.8		ug/L		84	70 - 130
cis-1,2-Dichloroethene	50.0	48.1		ug/L		96	70 - 130
cis-1,3-Dichloropropene	50.0	47.5		ug/L		95	70 - 130
Dibromomethane	50.0	47.1		ug/L		94	70 - 130
Dichlorobromomethane	50.0	49.6		ug/L		99	70 - 130
Dichlorodifluoromethane	50.0	58.2		ug/L		116	70 - 130
Ethyl ether	50.0	43.4		ug/L		87	70 - 130
Ethylbenzene	50.0	46.4		ug/L		93	70 - 130
Ethylene Dibromide	50.0	44.7		ug/L		89	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCS 490-194754/3

Matrix: Water

Analysis Batch: 194754

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobutadiene	50.0	48.6		ug/L		97	70 - 130
Isopropyl ether	50.0	44.2		ug/L		88	70 - 130
Isopropylbenzene	50.0	47.4		ug/L		95	70 - 130
Methyl tert-butyl ether	50.0	52.3		ug/L		105	70 - 130
Methylene Chloride	50.0	45.1		ug/L		90	70 - 130
m-Xylene & p-Xylene	50.0	46.0		ug/L		92	70 - 130
Naphthalene	50.0	47.6		ug/L		95	70 - 130
n-Butylbenzene	50.0	44.7		ug/L		89	70 - 130
N-Propylbenzene	50.0	47.0		ug/L		94	70 - 130
o-Xylene	50.0	44.5		ug/L		89	70 - 130
sec-Butylbenzene	50.0	46.4		ug/L		93	70 - 130
Styrene	50.0	44.3		ug/L		89	70 - 130
Tert-amyl methyl ether	50.0	47.7		ug/L		95	70 - 130
Tert-butyl ethyl ether	50.0	48.6		ug/L		97	70 - 130
tert-Butylbenzene	50.0	48.3		ug/L		97	70 - 130
Tetrachloroethene	50.0	49.1		ug/L		98	70 - 130
Tetrahydrofuran	100	91.0		ug/L		91	70 - 130
Toluene	50.0	46.1		ug/L		92	70 - 130
trans-1,2-Dichloroethene	50.0	47.9		ug/L		96	70 - 130
trans-1,3-Dichloropropene	50.0	48.0		ug/L		96	70 - 130
Trichloroethene	50.0	48.3		ug/L		97	70 - 130
Trichlorofluoromethane	50.0	60.2		ug/L		120	70 - 130
Vinyl chloride	50.0	48.3		ug/L		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	124		70 - 130
4-Bromofluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 490-194754/4

Matrix: Water

Analysis Batch: 194754

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	50.0	47.6		ug/L		95	70 - 130	1	20
1,1,1-Trichloroethane	50.0	54.2		ug/L		108	70 - 130	1	20
1,1,1,2-Tetrachloroethane	50.0	44.7		ug/L		89	70 - 130	4	20
1,1,2-Trichloroethane	50.0	44.9		ug/L		90	70 - 130	1	20
1,1-Dichloroethane	50.0	47.4		ug/L		95	70 - 130	1	20
1,1-Dichloroethane	50.0	49.2		ug/L		98	70 - 130	7	20
1,1-Dichloropropene	50.0	51.7		ug/L		103	70 - 130	2	20
1,2,3-Trichlorobenzene	50.0	50.5		ug/L		101	70 - 130	5	20
1,2,3-Trichloropropane	50.0	48.7		ug/L		97	70 - 130	8	20
1,2,4-Trichlorobenzene	50.0	50.1		ug/L		100	70 - 130	5	20
1,2,4-Trimethylbenzene	50.0	44.7		ug/L		89	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	50.0	51.0		ug/L		102	70 - 130	6	20
1,2-Dichlorobenzene	50.0	46.1		ug/L		92	70 - 130	2	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCSD 490-194754/4

Matrix: Water

Analysis Batch: 194754

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
1,2-Dichloroethane	50.0	55.3		ug/L		111	70 - 130	3	20
1,2-Dichloropropane	50.0	43.8		ug/L		88	70 - 130	0	20
1,3,5-Trimethylbenzene	50.0	45.3		ug/L		91	70 - 130	1	20
1,3-Dichlorobenzene	50.0	46.2		ug/L		92	70 - 130	1	20
1,3-Dichloropropane	50.0	47.9		ug/L		96	70 - 130	1	20
1,4-Dichlorobenzene	50.0	43.6		ug/L		87	70 - 130	2	20
1,4-Dioxane	1000	1320 *		ug/L		132	70 - 130	5	20
2,2-Dichloropropane	50.0	53.5		ug/L		107	70 - 130	0	20
2-Butanone (MEK)	250	252		ug/L		101	70 - 130	2	20
2-Chlorotoluene	50.0	46.3		ug/L		93	70 - 130	1	20
2-Hexanone	250	219		ug/L		88	70 - 130	0	20
4-Chlorotoluene	50.0	46.3		ug/L		93	70 - 130	0	20
4-Isopropyltoluene	50.0	46.4		ug/L		93	70 - 130	0	20
4-Methyl-2-pentanone (MIBK)	250	227		ug/L		91	70 - 130	1	20
Acetone	250	231		ug/L		92	70 - 130	5	20
Benzene	50.0	45.8		ug/L		92	70 - 130	3	20
Bromobenzene	50.0	44.2		ug/L		88	70 - 130	0	20
Bromoform	50.0	51.3		ug/L		103	70 - 130	6	20
Bromomethane	50.0	52.1		ug/L		104	70 - 130	3	20
Carbon disulfide	50.0	47.6		ug/L		95	70 - 130	2	20
Carbon tetrachloride	50.0	55.9		ug/L		112	70 - 130	0	20
Chlorobenzene	50.0	45.8		ug/L		92	70 - 130	1	20
Chlorobromomethane	50.0	49.5		ug/L		99	70 - 130	1	20
Chlorodibromomethane	50.0	48.8		ug/L		98	70 - 130	2	20
Chloroethane	50.0	44.9		ug/L		90	70 - 130	6	20
Chloroform	50.0	52.5		ug/L		105	70 - 130	2	20
Chloromethane	50.0	42.7		ug/L		85	70 - 130	2	20
cis-1,2-Dichloroethene	50.0	48.3		ug/L		97	70 - 130	0	20
cis-1,3-Dichloropropene	50.0	47.6		ug/L		95	70 - 130	0	20
Dibromomethane	50.0	47.8		ug/L		96	70 - 130	1	20
Dichlorobromomethane	50.0	50.2		ug/L		100	70 - 130	1	20
Dichlorodifluoromethane	50.0	56.6		ug/L		113	70 - 130	3	20
Ethyl ether	50.0	42.6		ug/L		85	70 - 130	2	20
Ethylbenzene	50.0	46.1		ug/L		92	70 - 130	1	20
Ethylene Dibromide	50.0	45.9		ug/L		92	70 - 130	3	20
Hexachlorobutadiene	50.0	49.9		ug/L		100	70 - 130	3	20
Isopropyl ether	50.0	43.7		ug/L		87	70 - 130	1	20
Isopropylbenzene	50.0	47.0		ug/L		94	70 - 130	1	20
Methyl tert-butyl ether	50.0	51.5		ug/L		103	70 - 130	1	20
Methylene Chloride	50.0	43.8		ug/L		88	70 - 130	3	20
m-Xylene & p-Xylene	50.0	46.0		ug/L		92	70 - 130	0	20
Naphthalene	50.0	50.3		ug/L		101	70 - 130	6	20
n-Butylbenzene	50.0	45.0		ug/L		90	70 - 130	1	20
N-Propylbenzene	50.0	46.4		ug/L		93	70 - 130	1	20
o-Xylene	50.0	44.4		ug/L		89	70 - 130	0	20
sec-Butylbenzene	50.0	46.4		ug/L		93	70 - 130	0	20
Styrene	50.0	44.3		ug/L		89	70 - 130	0	20
Tert-amyl methyl ether	50.0	48.6		ug/L		97	70 - 130	2	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCSD 490-194754/4

Matrix: Water

Analysis Batch: 194754

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		
Tert-butyl ethyl ether	50.0	48.8		ug/L		98	70 - 130	1	20	
tert-Butylbenzene	50.0	48.2		ug/L		96	70 - 130	0	20	
Tetrachloroethene	50.0	48.7		ug/L		97	70 - 130	1	20	
Tetrahydrofuran	100	103		ug/L		103	70 - 130	12	20	
Toluene	50.0	44.9		ug/L		90	70 - 130	3	20	
trans-1,2-Dichloroethene	50.0	47.9		ug/L		96	70 - 130	0	20	
trans-1,3-Dichloropropene	50.0	48.7		ug/L		97	70 - 130	2	20	
Trichloroethene	50.0	48.3		ug/L		97	70 - 130	0	20	
Trichlorofluoromethane	50.0	60.8		ug/L		122	70 - 130	1	20	
Vinyl chloride	50.0	47.3		ug/L		95	70 - 130	2	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	103		70 - 130
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	116		70 - 130
4-Bromofluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 490-194871/7

Matrix: Water

Analysis Batch: 194871

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/03/14 02:13	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/03/14 02:13	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/03/14 02:13	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/03/14 02:13	1
1,1-Dichloroethane	ND		1.0		ug/L			10/03/14 02:13	1
1,1-Dichloroethene	ND		1.0		ug/L			10/03/14 02:13	1
1,1-Dichloropropene	ND		1.0		ug/L			10/03/14 02:13	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/03/14 02:13	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/03/14 02:13	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/03/14 02:13	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/03/14 02:13	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/03/14 02:13	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/03/14 02:13	1
1,2-Dichloroethane	ND		1.0		ug/L			10/03/14 02:13	1
1,2-Dichloropropane	ND		1.0		ug/L			10/03/14 02:13	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/03/14 02:13	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/03/14 02:13	1
1,3-Dichloropropane	ND		1.0		ug/L			10/03/14 02:13	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/03/14 02:13	1
1,4-Dioxane	ND		200		ug/L			10/03/14 02:13	1
2,2-Dichloropropane	ND		1.0		ug/L			10/03/14 02:13	1
2-Butanone (MEK)	ND		50		ug/L			10/03/14 02:13	1
2-Chlorotoluene	ND		1.0		ug/L			10/03/14 02:13	1
2-Hexanone	ND		10		ug/L			10/03/14 02:13	1
4-Chlorotoluene	ND		1.0		ug/L			10/03/14 02:13	1
4-Isopropyltoluene	ND		1.0		ug/L			10/03/14 02:13	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: MB 490-194871/7

Matrix: Water

Analysis Batch: 194871

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/03/14 02:13	1
Acetone	ND		25		ug/L			10/03/14 02:13	1
Benzene	ND		1.0		ug/L			10/03/14 02:13	1
Bromobenzene	ND		1.0		ug/L			10/03/14 02:13	1
Bromoform	ND		1.0		ug/L			10/03/14 02:13	1
Bromomethane	ND		1.0		ug/L			10/03/14 02:13	1
Carbon disulfide	ND		1.0		ug/L			10/03/14 02:13	1
Carbon tetrachloride	ND		1.0		ug/L			10/03/14 02:13	1
Chlorobenzene	ND		1.0		ug/L			10/03/14 02:13	1
Chlorobromomethane	ND		1.0		ug/L			10/03/14 02:13	1
Chlorodibromomethane	ND		1.0		ug/L			10/03/14 02:13	1
Chloroethane	ND		1.0		ug/L			10/03/14 02:13	1
Chloroform	ND		1.0		ug/L			10/03/14 02:13	1
Chloromethane	ND		1.0		ug/L			10/03/14 02:13	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/03/14 02:13	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 02:13	1
Dibromomethane	ND		1.0		ug/L			10/03/14 02:13	1
Dichlorobromomethane	ND		1.0		ug/L			10/03/14 02:13	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/03/14 02:13	1
Ethyl ether	ND		5.0		ug/L			10/03/14 02:13	1
Ethylbenzene	ND		1.0		ug/L			10/03/14 02:13	1
Ethylene Dibromide	ND		1.0		ug/L			10/03/14 02:13	1
Hexachlorobutadiene	ND		2.0		ug/L			10/03/14 02:13	1
Isopropyl ether	ND		2.0		ug/L			10/03/14 02:13	1
Isopropylbenzene	ND		1.0		ug/L			10/03/14 02:13	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/03/14 02:13	1
Methylene Chloride	ND		5.0		ug/L			10/03/14 02:13	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/03/14 02:13	1
Naphthalene	ND		5.0		ug/L			10/03/14 02:13	1
n-Butylbenzene	ND		1.0		ug/L			10/03/14 02:13	1
N-Propylbenzene	ND		1.0		ug/L			10/03/14 02:13	1
o-Xylene	ND		1.0		ug/L			10/03/14 02:13	1
sec-Butylbenzene	ND		1.0		ug/L			10/03/14 02:13	1
Styrene	ND		1.0		ug/L			10/03/14 02:13	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/03/14 02:13	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/03/14 02:13	1
tert-Butylbenzene	ND		1.0		ug/L			10/03/14 02:13	1
Tetrachloroethene	ND		1.0		ug/L			10/03/14 02:13	1
Tetrahydrofuran	ND		10		ug/L			10/03/14 02:13	1
Toluene	ND		1.0		ug/L			10/03/14 02:13	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/03/14 02:13	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 02:13	1
Trichloroethene	ND		1.0		ug/L			10/03/14 02:13	1
Trichlorofluoromethane	ND		1.0		ug/L			10/03/14 02:13	1
Vinyl chloride	ND		1.0		ug/L			10/03/14 02:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		70 - 130		10/03/14 02:13	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: MB 490-194871/7

Matrix: Water

Analysis Batch: 194871

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	114		70 - 130		10/03/14 02:13	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		10/03/14 02:13	1
4-Bromofluorobenzene (Surr)	94		70 - 130		10/03/14 02:13	1

Lab Sample ID: LCS 490-194871/3

Matrix: Water

Analysis Batch: 194871

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	50.0	52.0		ug/L		104	70 - 130
1,1,1-Trichloroethane	50.0	50.1		ug/L		100	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.7		ug/L		103	70 - 130
1,1,2-Trichloroethane	50.0	56.5		ug/L		113	70 - 130
1,1-Dichloroethane	50.0	50.4		ug/L		101	70 - 130
1,1-Dichloroethene	50.0	49.6		ug/L		99	70 - 130
1,1-Dichloropropene	50.0	49.2		ug/L		98	70 - 130
1,2,3-Trichlorobenzene	50.0	54.7		ug/L		109	70 - 130
1,2,3-Trichloropropane	50.0	53.1		ug/L		106	70 - 130
1,2,4-Trichlorobenzene	50.0	53.4		ug/L		107	70 - 130
1,2,4-Trimethylbenzene	50.0	50.7		ug/L		101	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	51.1		ug/L		102	70 - 130
1,2-Dichlorobenzene	50.0	52.3		ug/L		105	70 - 130
1,2-Dichloroethane	50.0	55.6		ug/L		111	70 - 130
1,2-Dichloropropane	50.0	50.5		ug/L		101	70 - 130
1,3,5-Trimethylbenzene	50.0	51.2		ug/L		102	70 - 130
1,3-Dichlorobenzene	50.0	51.1		ug/L		102	70 - 130
1,3-Dichloropropane	50.0	59.7		ug/L		119	70 - 130
1,4-Dichlorobenzene	50.0	50.4		ug/L		101	70 - 130
1,4-Dioxane	1000	1030		ug/L		103	70 - 130
2,2-Dichloropropane	50.0	44.5		ug/L		89	70 - 130
2-Butanone (MEK)	250	283		ug/L		113	70 - 130
2-Chlorotoluene	50.0	48.4		ug/L		97	70 - 130
2-Hexanone	250	314		ug/L		126	70 - 130
4-Chlorotoluene	50.0	52.6		ug/L		105	70 - 130
4-Isopropyltoluene	50.0	49.4		ug/L		99	70 - 130
4-Methyl-2-pentanone (MIBK)	250	326		ug/L		130	70 - 130
Acetone	250	283		ug/L		113	70 - 130
Benzene	50.0	49.7		ug/L		99	70 - 130
Bromobenzene	50.0	49.6		ug/L		99	70 - 130
Bromoform	50.0	54.1		ug/L		108	70 - 130
Bromomethane	50.0	45.1		ug/L		90	70 - 130
Carbon disulfide	50.0	51.1		ug/L		102	70 - 130
Carbon tetrachloride	50.0	50.1		ug/L		100	70 - 130
Chlorobenzene	50.0	50.7		ug/L		101	70 - 130
Chlorobromomethane	50.0	52.1		ug/L		104	70 - 130
Chlorodibromomethane	50.0	54.4		ug/L		109	70 - 130
Chloroethane	50.0	51.8		ug/L		104	70 - 130
Chloroform	50.0	50.1		ug/L		100	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCS 490-194871/3

Matrix: Water

Analysis Batch: 194871

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	50.0		ug/L		100	70 - 130
cis-1,2-Dichloroethene	50.0	50.7		ug/L		101	70 - 130
cis-1,3-Dichloropropene	50.0	55.3		ug/L		111	70 - 130
Dibromomethane	50.0	51.9		ug/L		104	70 - 130
Dichlorobromomethane	50.0	50.5		ug/L		101	70 - 130
Dichlorodifluoromethane	50.0	54.5		ug/L		109	70 - 130
Ethyl ether	50.0	54.6		ug/L		109	70 - 130
Ethylbenzene	50.0	51.1		ug/L		102	70 - 130
Ethylene Dibromide	50.0	56.7		ug/L		113	70 - 130
Hexachlorobutadiene	50.0	45.7		ug/L		91	70 - 130
Isopropyl ether	50.0	56.2		ug/L		112	70 - 130
Isopropylbenzene	50.0	51.3		ug/L		103	70 - 130
Methyl tert-butyl ether	50.0	53.8		ug/L		108	70 - 130
Methylene Chloride	50.0	51.7		ug/L		103	70 - 130
m-Xylene & p-Xylene	50.0	50.2		ug/L		100	70 - 130
Naphthalene	50.0	58.0		ug/L		116	70 - 130
n-Butylbenzene	50.0	53.0		ug/L		106	70 - 130
N-Propylbenzene	50.0	51.3		ug/L		103	70 - 130
o-Xylene	50.0	51.3		ug/L		103	70 - 130
sec-Butylbenzene	50.0	50.5		ug/L		101	70 - 130
Styrene	50.0	53.9		ug/L		108	70 - 130
Tert-amyl methyl ether	50.0	50.8		ug/L		102	70 - 130
Tert-butyl ethyl ether	50.0	52.4		ug/L		105	70 - 130
tert-Butylbenzene	50.0	48.8		ug/L		98	70 - 130
Tetrachloroethene	50.0	53.2		ug/L		106	70 - 130
Tetrahydrofuran	100	124		ug/L		124	70 - 130
Toluene	50.0	56.4		ug/L		113	70 - 130
trans-1,2-Dichloroethene	50.0	51.7		ug/L		103	70 - 130
trans-1,3-Dichloropropene	50.0	55.2		ug/L		110	70 - 130
Trichloroethene	50.0	49.8		ug/L		100	70 - 130
Trichlorofluoromethane	50.0	53.6		ug/L		107	70 - 130
Vinyl chloride	50.0	50.9		ug/L		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	104		70 - 130
Toluene-d8 (Surr)	112		70 - 130
1,2-Dichloroethane-d4 (Surr)	110		70 - 130
4-Bromofluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 490-194871/4

Matrix: Water

Analysis Batch: 194871

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	50.0	52.0		ug/L		104	70 - 130	0	20
1,1,1-Trichloroethane	50.0	51.6		ug/L		103	70 - 130	3	20
1,1,2,2-Tetrachloroethane	50.0	49.6		ug/L		99	70 - 130	4	20
1,1,2-Trichloroethane	50.0	56.1		ug/L		112	70 - 130	1	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCSD 490-194871/4

Matrix: Water

Analysis Batch: 194871

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Added	Result	Qualifier				Limits		Limit
1,1-Dichloroethane	50.0	52.0		ug/L		104	70 - 130	3	20
1,1-Dichloroethene	50.0	51.3		ug/L		103	70 - 130	3	20
1,1-Dichloropropene	50.0	50.7		ug/L		101	70 - 130	3	20
1,2,3-Trichlorobenzene	50.0	55.2		ug/L		110	70 - 130	1	20
1,2,3-Trichloropropane	50.0	54.5		ug/L		109	70 - 130	3	20
1,2,4-Trichlorobenzene	50.0	54.1		ug/L		108	70 - 130	1	20
1,2,4-Trimethylbenzene	50.0	51.9		ug/L		104	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	50.0	53.3		ug/L		107	70 - 130	4	20
1,2-Dichlorobenzene	50.0	53.8		ug/L		108	70 - 130	3	20
1,2-Dichloroethane	50.0	56.9		ug/L		114	70 - 130	2	20
1,2-Dichloropropane	50.0	51.5		ug/L		103	70 - 130	2	20
1,3,5-Trimethylbenzene	50.0	52.4		ug/L		105	70 - 130	2	20
1,3-Dichlorobenzene	50.0	52.4		ug/L		105	70 - 130	3	20
1,3-Dichloropropane	50.0	59.8		ug/L		120	70 - 130	0	20
1,4-Dichlorobenzene	50.0	51.8		ug/L		104	70 - 130	3	20
1,4-Dioxane	1000	1040		ug/L		104	70 - 130	1	20
2,2-Dichloropropane	50.0	44.6		ug/L		89	70 - 130	0	20
2-Butanone (MEK)	250	281		ug/L		112	70 - 130	1	20
2-Chlorotoluene	50.0	49.8		ug/L		100	70 - 130	3	20
2-Hexanone	250	314		ug/L		126	70 - 130	0	20
4-Chlorotoluene	50.0	53.4		ug/L		107	70 - 130	2	20
4-Isopropyltoluene	50.0	50.5		ug/L		101	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)	250	321		ug/L		128	70 - 130	1	20
Acetone	250	281		ug/L		112	70 - 130	1	20
Benzene	50.0	51.3		ug/L		103	70 - 130	3	20
Bromobenzene	50.0	50.4		ug/L		101	70 - 130	2	20
Bromoform	50.0	54.1		ug/L		108	70 - 130	0	20
Bromomethane	50.0	50.7		ug/L		101	70 - 130	12	20
Carbon disulfide	50.0	52.3		ug/L		105	70 - 130	2	20
Carbon tetrachloride	50.0	51.0		ug/L		102	70 - 130	2	20
Chlorobenzene	50.0	51.3		ug/L		103	70 - 130	1	20
Chlorobromomethane	50.0	52.8		ug/L		106	70 - 130	1	20
Chlorodibromomethane	50.0	54.2		ug/L		108	70 - 130	0	20
Chloroethane	50.0	52.4		ug/L		105	70 - 130	1	20
Chloroform	50.0	51.8		ug/L		104	70 - 130	3	20
Chloromethane	50.0	50.7		ug/L		101	70 - 130	1	20
cis-1,2-Dichloroethene	50.0	52.1		ug/L		104	70 - 130	3	20
cis-1,3-Dichloropropene	50.0	55.4		ug/L		111	70 - 130	0	20
Dibromomethane	50.0	52.5		ug/L		105	70 - 130	1	20
Dichlorobromomethane	50.0	51.5		ug/L		103	70 - 130	2	20
Dichlorodifluoromethane	50.0	56.8		ug/L		114	70 - 130	4	20
Ethyl ether	50.0	55.2		ug/L		110	70 - 130	1	20
Ethylbenzene	50.0	51.9		ug/L		104	70 - 130	2	20
Ethylene Dibromide	50.0	56.5		ug/L		113	70 - 130	0	20
Hexachlorobutadiene	50.0	46.7		ug/L		93	70 - 130	2	20
Isopropyl ether	50.0	57.0		ug/L		114	70 - 130	1	20
Isopropylbenzene	50.0	52.2		ug/L		104	70 - 130	2	20
Methyl tert-butyl ether	50.0	54.7		ug/L		109	70 - 130	2	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCSD 490-194871/4

Matrix: Water

Analysis Batch: 194871

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
Methylene Chloride	50.0	53.4		ug/L		107	70 - 130	3	20
m-Xylene & p-Xylene	50.0	51.5		ug/L		103	70 - 130	3	20
Naphthalene	50.0	58.6		ug/L		117	70 - 130	1	20
n-Butylbenzene	50.0	54.5		ug/L		109	70 - 130	3	20
N-Propylbenzene	50.0	52.7		ug/L		105	70 - 130	3	20
o-Xylene	50.0	52.3		ug/L		105	70 - 130	2	20
sec-Butylbenzene	50.0	51.6		ug/L		103	70 - 130	2	20
Styrene	50.0	54.7		ug/L		109	70 - 130	2	20
Tert-amyl methyl ether	50.0	51.9		ug/L		104	70 - 130	2	20
Tert-butyl ethyl ether	50.0	53.2		ug/L		106	70 - 130	2	20
tert-Butylbenzene	50.0	49.8		ug/L		100	70 - 130	2	20
Tetrachloroethene	50.0	54.5		ug/L		109	70 - 130	2	20
Tetrahydrofuran	100	126		ug/L		126	70 - 130	1	20
Toluene	50.0	57.0		ug/L		114	70 - 130	1	20
trans-1,2-Dichloroethene	50.0	53.0		ug/L		106	70 - 130	3	20
trans-1,3-Dichloropropene	50.0	54.9		ug/L		110	70 - 130	1	20
Trichloroethene	50.0	53.0		ug/L		106	70 - 130	6	20
Trichlorofluoromethane	50.0	55.3		ug/L		111	70 - 130	3	20
Vinyl chloride	50.0	52.0		ug/L		104	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
Dibromofluoromethane (Surr)	102		70 - 130
Toluene-d8 (Surr)	109		70 - 130
1,2-Dichloroethane-d4 (Surr)	110		70 - 130
4-Bromofluorobenzene (Surr)	92		70 - 130

Lab Sample ID: MB 490-194946/7

Matrix: Water

Analysis Batch: 194946

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			10/03/14 01:58	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/03/14 01:58	1
1,1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/03/14 01:58	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/03/14 01:58	1
1,1-Dichloroethane	ND		1.0		ug/L			10/03/14 01:58	1
1,1-Dichloroethene	ND		1.0		ug/L			10/03/14 01:58	1
1,1-Dichloropropene	ND		1.0		ug/L			10/03/14 01:58	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/03/14 01:58	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/03/14 01:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/03/14 01:58	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/03/14 01:58	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/03/14 01:58	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/03/14 01:58	1
1,2-Dichloroethane	ND		1.0		ug/L			10/03/14 01:58	1
1,2-Dichloropropane	ND		1.0		ug/L			10/03/14 01:58	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/03/14 01:58	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/03/14 01:58	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: MB 490-194946/7

Matrix: Water

Analysis Batch: 194946

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,3-Dichloropropane	ND		1.0		ug/L			10/03/14 01:58	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/03/14 01:58	1
1,4-Dioxane	ND		200		ug/L			10/03/14 01:58	1
2,2-Dichloropropane	ND		1.0		ug/L			10/03/14 01:58	1
2-Butanone (MEK)	ND		50		ug/L			10/03/14 01:58	1
2-Chlorotoluene	ND		1.0		ug/L			10/03/14 01:58	1
2-Hexanone	ND		10		ug/L			10/03/14 01:58	1
4-Chlorotoluene	ND		1.0		ug/L			10/03/14 01:58	1
4-Isopropyltoluene	ND		1.0		ug/L			10/03/14 01:58	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/03/14 01:58	1
Acetone	ND		25		ug/L			10/03/14 01:58	1
Benzene	ND		1.0		ug/L			10/03/14 01:58	1
Bromobenzene	ND		1.0		ug/L			10/03/14 01:58	1
Bromoform	ND		1.0		ug/L			10/03/14 01:58	1
Bromomethane	ND		1.0		ug/L			10/03/14 01:58	1
Carbon disulfide	ND		1.0		ug/L			10/03/14 01:58	1
Carbon tetrachloride	ND		1.0		ug/L			10/03/14 01:58	1
Chlorobenzene	ND		1.0		ug/L			10/03/14 01:58	1
Chlorobromomethane	ND		1.0		ug/L			10/03/14 01:58	1
Chlorodibromomethane	ND		1.0		ug/L			10/03/14 01:58	1
Chloroethane	ND		1.0		ug/L			10/03/14 01:58	1
Chloroform	ND		1.0		ug/L			10/03/14 01:58	1
Chloromethane	ND		1.0		ug/L			10/03/14 01:58	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/03/14 01:58	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 01:58	1
Dibromomethane	ND		1.0		ug/L			10/03/14 01:58	1
Dichlorobromomethane	ND		1.0		ug/L			10/03/14 01:58	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/03/14 01:58	1
Ethyl ether	ND		5.0		ug/L			10/03/14 01:58	1
Ethylbenzene	ND		1.0		ug/L			10/03/14 01:58	1
Ethylene Dibromide	ND		1.0		ug/L			10/03/14 01:58	1
Hexachlorobutadiene	ND		2.0		ug/L			10/03/14 01:58	1
Isopropyl ether	ND		2.0		ug/L			10/03/14 01:58	1
Isopropylbenzene	ND		1.0		ug/L			10/03/14 01:58	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/03/14 01:58	1
Methylene Chloride	ND		5.0		ug/L			10/03/14 01:58	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/03/14 01:58	1
Naphthalene	ND		5.0		ug/L			10/03/14 01:58	1
n-Butylbenzene	ND		1.0		ug/L			10/03/14 01:58	1
N-Propylbenzene	ND		1.0		ug/L			10/03/14 01:58	1
o-Xylene	ND		1.0		ug/L			10/03/14 01:58	1
sec-Butylbenzene	ND		1.0		ug/L			10/03/14 01:58	1
Styrene	ND		1.0		ug/L			10/03/14 01:58	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/03/14 01:58	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/03/14 01:58	1
tert-Butylbenzene	ND		1.0		ug/L			10/03/14 01:58	1
Tetrachloroethene	ND		1.0		ug/L			10/03/14 01:58	1
Tetrahydrofuran	ND		10		ug/L			10/03/14 01:58	1

TestAmerica Buffalo



QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: MB 490-194946/7

Matrix: Water

Analysis Batch: 194946

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0		ug/L			10/03/14 01:58	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/03/14 01:58	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 01:58	1
Trichloroethene	ND		1.0		ug/L			10/03/14 01:58	1
Trichlorofluoromethane	ND		1.0		ug/L			10/03/14 01:58	1
Vinyl chloride	ND		1.0		ug/L			10/03/14 01:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		70 - 130		10/03/14 01:58	1
Toluene-d8 (Surr)	99		70 - 130		10/03/14 01:58	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		10/03/14 01:58	1
4-Bromofluorobenzene (Surr)	93		70 - 130		10/03/14 01:58	1

Lab Sample ID: LCS 490-194946/3

Matrix: Water

Analysis Batch: 194946

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	50.0	48.6		ug/L		97	70 - 130
1,1,1-Trichloroethane	50.0	53.6		ug/L		107	70 - 130
1,1,2,2-Tetrachloroethane	50.0	44.9		ug/L		90	70 - 130
1,1,2-Trichloroethane	50.0	44.7		ug/L		89	70 - 130
1,1-Dichloroethane	50.0	46.9		ug/L		94	70 - 130
1,1-Dichloroethene	50.0	49.6		ug/L		99	70 - 130
1,1-Dichloropropene	50.0	48.6		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	50.0	52.2		ug/L		104	70 - 130
1,2,3-Trichloropropane	50.0	49.0		ug/L		98	70 - 130
1,2,4-Trichlorobenzene	50.0	51.6		ug/L		103	70 - 130
1,2,4-Trimethylbenzene	50.0	46.7		ug/L		93	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	51.9		ug/L		104	70 - 130
1,2-Dichlorobenzene	50.0	47.9		ug/L		96	70 - 130
1,2-Dichloroethane	50.0	55.1		ug/L		110	70 - 130
1,2-Dichloropropane	50.0	41.7		ug/L		83	70 - 130
1,3,5-Trimethylbenzene	50.0	47.0		ug/L		94	70 - 130
1,3-Dichlorobenzene	50.0	48.1		ug/L		96	70 - 130
1,3-Dichloropropane	50.0	45.5		ug/L		91	70 - 130
1,4-Dichlorobenzene	50.0	45.3		ug/L		91	70 - 130
1,4-Dioxane	1000	1240		ug/L		124	70 - 130
2,2-Dichloropropane	50.0	49.4		ug/L		99	70 - 130
2-Butanone (MEK)	250	230		ug/L		92	70 - 130
2-Chlorotoluene	50.0	47.4		ug/L		95	70 - 130
2-Hexanone	250	207		ug/L		83	70 - 130
4-Chlorotoluene	50.0	47.8		ug/L		96	70 - 130
4-Isopropyltoluene	50.0	47.8		ug/L		96	70 - 130
4-Methyl-2-pentanone (MIBK)	250	209		ug/L		84	70 - 130
Acetone	250	219		ug/L		88	70 - 130
Benzene	50.0	43.9		ug/L		88	70 - 130
Bromobenzene	50.0	45.2		ug/L		90	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCS 490-194946/3

Matrix: Water

Analysis Batch: 194946

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	50.0	50.7		ug/L		101	70 - 130
Bromomethane	50.0	50.3		ug/L		101	70 - 130
Carbon disulfide	50.0	45.8		ug/L		92	70 - 130
Carbon tetrachloride	50.0	53.5		ug/L		107	70 - 130
Chlorobenzene	50.0	47.5		ug/L		95	70 - 130
Chlorobromomethane	50.0	48.0		ug/L		96	70 - 130
Chlorodibromomethane	50.0	47.9		ug/L		96	70 - 130
Chloroethane	50.0	42.6		ug/L		85	70 - 130
Chloroform	50.0	51.9		ug/L		104	70 - 130
Chloromethane	50.0	38.7		ug/L		77	70 - 130
cis-1,2-Dichloroethene	50.0	46.2		ug/L		92	70 - 130
cis-1,3-Dichloropropene	50.0	45.8		ug/L		92	70 - 130
Dibromomethane	50.0	46.7		ug/L		93	70 - 130
Dichlorobromomethane	50.0	48.8		ug/L		98	70 - 130
Dichlorodifluoromethane	50.0	51.2		ug/L		102	70 - 130
Ethyl ether	50.0	40.9		ug/L		82	70 - 130
Ethylbenzene	50.0	46.9		ug/L		94	70 - 130
Ethylene Dibromide	50.0	45.2		ug/L		90	70 - 130
Hexachlorobutadiene	50.0	51.5		ug/L		103	70 - 130
Isopropyl ether	50.0	39.0		ug/L		78	70 - 130
Isopropylbenzene	50.0	48.5		ug/L		97	70 - 130
Methyl tert-butyl ether	50.0	45.5		ug/L		91	70 - 130
Methylene Chloride	50.0	41.8		ug/L		84	70 - 130
m-Xylene & p-Xylene	50.0	47.1		ug/L		94	70 - 130
Naphthalene	50.0	51.6		ug/L		103	70 - 130
n-Butylbenzene	50.0	46.2		ug/L		92	70 - 130
N-Propylbenzene	50.0	47.0		ug/L		94	70 - 130
o-Xylene	50.0	45.3		ug/L		91	70 - 130
sec-Butylbenzene	50.0	47.8		ug/L		96	70 - 130
Styrene	50.0	45.0		ug/L		90	70 - 130
Tert-amyl methyl ether	50.0	43.8		ug/L		88	70 - 130
Tert-butyl ethyl ether	50.0	43.7		ug/L		87	70 - 130
tert-Butylbenzene	50.0	49.6		ug/L		99	70 - 130
Tetrachloroethene	50.0	48.9		ug/L		98	70 - 130
Tetrahydrofuran	100	92.0		ug/L		92	70 - 130
Toluene	50.0	45.4		ug/L		91	70 - 130
trans-1,2-Dichloroethene	50.0	47.5		ug/L		95	70 - 130
trans-1,3-Dichloropropene	50.0	46.3		ug/L		93	70 - 130
Trichloroethene	50.0	46.2		ug/L		92	70 - 130
Trichlorofluoromethane	50.0	57.8		ug/L		116	70 - 130
Vinyl chloride	50.0	43.2		ug/L		86	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	104		70 - 130
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	116		70 - 130
4-Bromofluorobenzene (Surr)	95		70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCSD 490-194946/4

Matrix: Water

Analysis Batch: 194946

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	50.0	46.7		ug/L		93	70 - 130	4	20
1,1,1-Trichloroethane	50.0	50.1		ug/L		100	70 - 130	7	20
1,1,2,2-Tetrachloroethane	50.0	42.9		ug/L		86	70 - 130	5	20
1,1,2-Trichloroethane	50.0	44.9		ug/L		90	70 - 130	0	20
1,1-Dichloroethane	50.0	44.0		ug/L		88	70 - 130	6	20
1,1-Dichloroethene	50.0	48.1		ug/L		96	70 - 130	3	20
1,1-Dichloropropene	50.0	47.0		ug/L		94	70 - 130	3	20
1,2,3-Trichlorobenzene	50.0	49.9		ug/L		100	70 - 130	4	20
1,2,3-Trichloropropane	50.0	48.9		ug/L		98	70 - 130	0	20
1,2,4-Trichlorobenzene	50.0	50.2		ug/L		100	70 - 130	3	20
1,2,4-Trimethylbenzene	50.0	46.7		ug/L		93	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	50.0	50.6		ug/L		101	70 - 130	2	20
1,2-Dichlorobenzene	50.0	47.1		ug/L		94	70 - 130	2	20
1,2-Dichloroethane	50.0	53.7		ug/L		107	70 - 130	3	20
1,2-Dichloropropane	50.0	40.4		ug/L		81	70 - 130	3	20
1,3,5-Trimethylbenzene	50.0	47.4		ug/L		95	70 - 130	1	20
1,3-Dichlorobenzene	50.0	47.3		ug/L		95	70 - 130	2	20
1,3-Dichloropropane	50.0	46.6		ug/L		93	70 - 130	3	20
1,4-Dichlorobenzene	50.0	44.5		ug/L		89	70 - 130	2	20
1,4-Dioxane	1000	1230		ug/L		123	70 - 130	1	20
2,2-Dichloropropane	50.0	47.3		ug/L		95	70 - 130	4	20
2-Butanone (MEK)	250	234		ug/L		93	70 - 130	1	20
2-Chlorotoluene	50.0	46.7		ug/L		93	70 - 130	1	20
2-Hexanone	250	209		ug/L		84	70 - 130	1	20
4-Chlorotoluene	50.0	47.5		ug/L		95	70 - 130	1	20
4-Isopropyltoluene	50.0	47.1		ug/L		94	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)	250	222		ug/L		89	70 - 130	6	20
Acetone	250	215		ug/L		86	70 - 130	2	20
Benzene	50.0	43.1		ug/L		86	70 - 130	2	20
Bromobenzene	50.0	43.4		ug/L		87	70 - 130	4	20
Bromoform	50.0	49.2		ug/L		98	70 - 130	3	20
Bromomethane	50.0	46.6		ug/L		93	70 - 130	8	20
Carbon disulfide	50.0	44.1		ug/L		88	70 - 130	4	20
Carbon tetrachloride	50.0	49.6		ug/L		99	70 - 130	8	20
Chlorobenzene	50.0	45.1		ug/L		90	70 - 130	5	20
Chlorobromomethane	50.0	47.1		ug/L		94	70 - 130	2	20
Chlorodibromomethane	50.0	46.7		ug/L		93	70 - 130	3	20
Chloroethane	50.0	41.5		ug/L		83	70 - 130	3	20
Chloroform	50.0	48.2		ug/L		96	70 - 130	7	20
Chloromethane	50.0	36.7		ug/L		73	70 - 130	5	20
cis-1,2-Dichloroethene	50.0	43.8		ug/L		88	70 - 130	5	20
cis-1,3-Dichloropropene	50.0	46.7		ug/L		93	70 - 130	2	20
Dibromomethane	50.0	45.2		ug/L		90	70 - 130	3	20
Dichlorobromomethane	50.0	46.8		ug/L		94	70 - 130	4	20
Dichlorodifluoromethane	50.0	49.6		ug/L		99	70 - 130	3	20
Ethyl ether	50.0	43.9		ug/L		88	70 - 130	7	20
Ethylbenzene	50.0	44.7		ug/L		89	70 - 130	5	20
Ethylene Dibromide	50.0	45.4		ug/L		91	70 - 130	0	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCSD 490-194946/4

Matrix: Water

Analysis Batch: 194946

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	Limit
							RPD	Limit		
Hexachlorobutadiene	50.0	49.2		ug/L		98	70 - 130	5	20	
Isopropyl ether	50.0	40.6		ug/L		81	70 - 130	4	20	
Isopropylbenzene	50.0	46.3		ug/L		93	70 - 130	5	20	
Methyl tert-butyl ether	50.0	47.8		ug/L		96	70 - 130	5	20	
Methylene Chloride	50.0	40.3		ug/L		81	70 - 130	4	20	
m-Xylene & p-Xylene	50.0	45.8		ug/L		92	70 - 130	3	20	
Naphthalene	50.0	50.3		ug/L		101	70 - 130	3	20	
n-Butylbenzene	50.0	45.2		ug/L		90	70 - 130	2	20	
N-Propylbenzene	50.0	46.6		ug/L		93	70 - 130	1	20	
o-Xylene	50.0	44.8		ug/L		90	70 - 130	1	20	
sec-Butylbenzene	50.0	47.2		ug/L		94	70 - 130	1	20	
Styrene	50.0	43.9		ug/L		88	70 - 130	2	20	
Tert-amyl methyl ether	50.0	44.6		ug/L		89	70 - 130	2	20	
Tert-butyl ethyl ether	50.0	45.6		ug/L		91	70 - 130	4	20	
tert-Butylbenzene	50.0	49.5		ug/L		99	70 - 130	0	20	
Tetrachloroethene	50.0	48.0		ug/L		96	70 - 130	2	20	
Tetrahydrofuran	100	87.2		ug/L		87	70 - 130	5	20	
Toluene	50.0	44.5		ug/L		89	70 - 130	2	20	
trans-1,2-Dichloroethene	50.0	44.5		ug/L		89	70 - 130	7	20	
trans-1,3-Dichloropropene	50.0	46.4		ug/L		93	70 - 130	0	20	
Trichloroethene	50.0	45.4		ug/L		91	70 - 130	2	20	
Trichlorofluoromethane	50.0	51.8		ug/L		104	70 - 130	11	20	
Vinyl chloride	50.0	41.4		ug/L		83	70 - 130	4	20	

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
Dibromofluoromethane (Surr)	98		70 - 130
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	95		70 - 130

Lab Sample ID: MB 490-195016/7

Matrix: Water

Analysis Batch: 195016

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			10/03/14 13:09	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/03/14 13:09	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/03/14 13:09	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/03/14 13:09	1
1,1-Dichloroethane	ND		1.0		ug/L			10/03/14 13:09	1
1,1-Dichloroethene	ND		1.0		ug/L			10/03/14 13:09	1
1,1-Dichloropropene	ND		1.0		ug/L			10/03/14 13:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/03/14 13:09	1
1,2,3-Trichloropropene	ND		1.0		ug/L			10/03/14 13:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/03/14 13:09	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/03/14 13:09	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/03/14 13:09	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/03/14 13:09	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: MB 490-195016/7

Matrix: Water

Analysis Batch: 195016

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2-Dichloroethane	ND		1.0		ug/L			10/03/14 13:09	1
1,2-Dichloropropane	ND		1.0		ug/L			10/03/14 13:09	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/03/14 13:09	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/03/14 13:09	1
1,3-Dichloropropane	ND		1.0		ug/L			10/03/14 13:09	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/03/14 13:09	1
1,4-Dioxane	ND		200		ug/L			10/03/14 13:09	1
2,2-Dichloropropane	ND		1.0		ug/L			10/03/14 13:09	1
2-Butanone (MEK)	ND		50		ug/L			10/03/14 13:09	1
2-Chlorotoluene	ND		1.0		ug/L			10/03/14 13:09	1
2-Hexanone	ND		10		ug/L			10/03/14 13:09	1
4-Chlorotoluene	ND		1.0		ug/L			10/03/14 13:09	1
4-Isopropyltoluene	ND		1.0		ug/L			10/03/14 13:09	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/03/14 13:09	1
Acetone	ND		25		ug/L			10/03/14 13:09	1
Benzene	ND		1.0		ug/L			10/03/14 13:09	1
Bromobenzene	ND		1.0		ug/L			10/03/14 13:09	1
Bromoform	ND		1.0		ug/L			10/03/14 13:09	1
Bromomethane	ND		1.0		ug/L			10/03/14 13:09	1
Carbon disulfide	ND		1.0		ug/L			10/03/14 13:09	1
Carbon tetrachloride	ND		1.0		ug/L			10/03/14 13:09	1
Chlorobenzene	ND		1.0		ug/L			10/03/14 13:09	1
Chlorobromomethane	ND		1.0		ug/L			10/03/14 13:09	1
Chlorodibromomethane	ND		1.0		ug/L			10/03/14 13:09	1
Chloroethane	ND		1.0		ug/L			10/03/14 13:09	1
Chloroform	ND		1.0		ug/L			10/03/14 13:09	1
Chloromethane	ND		1.0		ug/L			10/03/14 13:09	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/03/14 13:09	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 13:09	1
Dibromomethane	ND		1.0		ug/L			10/03/14 13:09	1
Dichlorobromomethane	ND		1.0		ug/L			10/03/14 13:09	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/03/14 13:09	1
Ethyl ether	ND		5.0		ug/L			10/03/14 13:09	1
Ethylbenzene	ND		1.0		ug/L			10/03/14 13:09	1
Ethylene Dibromide	ND		1.0		ug/L			10/03/14 13:09	1
Hexachlorobutadiene	ND		2.0		ug/L			10/03/14 13:09	1
Isopropyl ether	ND		2.0		ug/L			10/03/14 13:09	1
Isopropylbenzene	ND		1.0		ug/L			10/03/14 13:09	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/03/14 13:09	1
Methylene Chloride	ND		5.0		ug/L			10/03/14 13:09	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/03/14 13:09	1
Naphthalene	ND		5.0		ug/L			10/03/14 13:09	1
n-Butylbenzene	ND		1.0		ug/L			10/03/14 13:09	1
N-Propylbenzene	ND		1.0		ug/L			10/03/14 13:09	1
o-Xylene	ND		1.0		ug/L			10/03/14 13:09	1
sec-Butylbenzene	ND		1.0		ug/L			10/03/14 13:09	1
Styrene	ND		1.0		ug/L			10/03/14 13:09	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/03/14 13:09	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: MB 490-195016/7

Matrix: Water

Analysis Batch: 195016

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-butyl ethyl ether	ND		1.0		ug/L			10/03/14 13:09	1
tert-Butylbenzene	ND		1.0		ug/L			10/03/14 13:09	1
Tetrachloroethene	ND		1.0		ug/L			10/03/14 13:09	1
Tetrahydrofuran	ND		10		ug/L			10/03/14 13:09	1
Toluene	ND		1.0		ug/L			10/03/14 13:09	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/03/14 13:09	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 13:09	1
Trichloroethene	ND		1.0		ug/L			10/03/14 13:09	1
Trichlorofluoromethane	ND		1.0		ug/L			10/03/14 13:09	1
Vinyl chloride	ND		1.0		ug/L			10/03/14 13:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		70 - 130		10/03/14 13:09	1
Toluene-d8 (Surr)	99		70 - 130		10/03/14 13:09	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		10/03/14 13:09	1
4-Bromofluorobenzene (Surr)	92		70 - 130		10/03/14 13:09	1

Lab Sample ID: LCS 490-195016/3

Matrix: Water

Analysis Batch: 195016

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	50.0	47.4		ug/L		95	70 - 130
1,1,1-Trichloroethane	50.0	45.4		ug/L		91	70 - 130
1,1,1,2-Tetrachloroethane	50.0	51.8		ug/L		104	70 - 130
1,1,2-Trichloroethane	50.0	48.1		ug/L		96	70 - 130
1,1-Dichloroethane	50.0	52.2		ug/L		104	70 - 130
1,1-Dichloroethene	50.0	51.9		ug/L		104	70 - 130
1,1-Dichloropropene	50.0	48.3		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	50.0	52.3		ug/L		105	70 - 130
1,2,3-Trichloropropene	50.0	51.8		ug/L		104	70 - 130
1,2,4-Trichlorobenzene	50.0	47.7		ug/L		95	70 - 130
1,2,4-Trimethylbenzene	50.0	50.1		ug/L		100	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	46.4		ug/L		93	70 - 130
1,2-Dichlorobenzene	50.0	48.7		ug/L		97	70 - 130
1,2-Dichloroethane	50.0	47.2		ug/L		94	70 - 130
1,2-Dichloropropane	50.0	48.9		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	50.0	49.8		ug/L		100	70 - 130
1,3-Dichlorobenzene	50.0	48.4		ug/L		97	70 - 130
1,3-Dichloropropane	50.0	50.8		ug/L		102	70 - 130
1,4-Dichlorobenzene	50.0	47.7		ug/L		95	70 - 130
1,4-Dioxane	1000	1200		ug/L		120	70 - 130
2,2-Dichloropropane	50.0	51.6		ug/L		103	70 - 130
2-Butanone (MEK)	250	274		ug/L		109	70 - 130
2-Chlorotoluene	50.0	47.3		ug/L		95	70 - 130
2-Hexanone	250	262		ug/L		105	70 - 130
4-Chlorotoluene	50.0	50.5		ug/L		101	70 - 130
4-Isopropyltoluene	50.0	51.9		ug/L		104	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCS 490-195016/3

Matrix: Water

Analysis Batch: 195016

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	250	283		ug/L		113	70 - 130
Acetone	250	283		ug/L		113	70 - 130
Benzene	50.0	45.9		ug/L		92	70 - 130
Bromobenzene	50.0	48.4		ug/L		97	70 - 130
Bromoform	50.0	49.4		ug/L		99	70 - 130
Bromomethane	50.0	53.1		ug/L		106	70 - 130
Carbon disulfide	50.0	55.1		ug/L		110	70 - 130
Carbon tetrachloride	50.0	45.8		ug/L		92	70 - 130
Chlorobenzene	50.0	47.2		ug/L		94	70 - 130
Chlorobromomethane	50.0	47.5		ug/L		95	70 - 130
Chlorodibromomethane	50.0	49.2		ug/L		98	70 - 130
Chloroethane	50.0	54.0		ug/L		108	70 - 130
Chloroform	50.0	44.5		ug/L		89	70 - 130
Chloromethane	50.0	55.7		ug/L		111	70 - 130
cis-1,2-Dichloroethene	50.0	50.2		ug/L		100	70 - 130
cis-1,3-Dichloropropene	50.0	51.7		ug/L		103	70 - 130
Dibromomethane	50.0	48.9		ug/L		98	70 - 130
Dichlorobromomethane	50.0	47.4		ug/L		95	70 - 130
Dichlorodifluoromethane	50.0	57.7		ug/L		115	70 - 130
Ethyl ether	50.0	56.0		ug/L		112	70 - 130
Ethylbenzene	50.0	49.5		ug/L		99	70 - 130
Ethylene Dibromide	50.0	51.1		ug/L		102	70 - 130
Hexachlorobutadiene	50.0	48.3		ug/L		97	70 - 130
Isopropyl ether	50.0	55.0		ug/L		110	70 - 130
Isopropylbenzene	50.0	51.1		ug/L		102	70 - 130
Methyl tert-butyl ether	50.0	48.3		ug/L		97	70 - 130
Methylene Chloride	50.0	49.0		ug/L		98	70 - 130
m-Xylene & p-Xylene	50.0	49.0		ug/L		98	70 - 130
Naphthalene	50.0	46.6		ug/L		93	70 - 130
n-Butylbenzene	50.0	51.6		ug/L		103	70 - 130
N-Propylbenzene	50.0	52.5		ug/L		105	70 - 130
o-Xylene	50.0	49.3		ug/L		99	70 - 130
sec-Butylbenzene	50.0	52.2		ug/L		104	70 - 130
Styrene	50.0	51.0		ug/L		102	70 - 130
Tert-amyl methyl ether	50.0	46.1		ug/L		92	70 - 130
Tert-butyl ethyl ether	50.0	50.3		ug/L		101	70 - 130
tert-Butylbenzene	50.0	51.6		ug/L		103	70 - 130
Tetrachloroethene	50.0	47.5		ug/L		95	70 - 130
Tetrahydrofuran	100	109		ug/L		109	70 - 130
Toluene	50.0	47.5		ug/L		95	70 - 130
trans-1,2-Dichloroethene	50.0	50.2		ug/L		100	70 - 130
trans-1,3-Dichloropropene	50.0	51.5		ug/L		103	70 - 130
Trichloroethene	50.0	45.5		ug/L		91	70 - 130
Trichlorofluoromethane	50.0	48.3		ug/L		97	70 - 130
Vinyl chloride	50.0	55.9		ug/L		112	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	99		70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCS 490-195016/3

Matrix: Water

Analysis Batch: 195016

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 490-195016/4

Matrix: Water

Analysis Batch: 195016

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		
1,1,1,2-Tetrachloroethane	50.0	47.8		ug/L		96	70 - 130	1	20
1,1,1-Trichloroethane	50.0	46.2		ug/L		92	70 - 130	2	20
1,1,1,2-Tetrachloroethane	50.0	50.2		ug/L		100	70 - 130	3	20
1,1,2-Trichloroethane	50.0	47.3		ug/L		95	70 - 130	2	20
1,1-Dichloroethane	50.0	52.6		ug/L		105	70 - 130	1	20
1,1-Dichloroethene	50.0	52.4		ug/L		105	70 - 130	1	20
1,1-Dichloropropene	50.0	49.2		ug/L		98	70 - 130	2	20
1,2,3-Trichlorobenzene	50.0	54.4		ug/L		109	70 - 130	4	20
1,2,3-Trichloropropane	50.0	51.5		ug/L		103	70 - 130	1	20
1,2,4-Trichlorobenzene	50.0	50.2		ug/L		100	70 - 130	5	20
1,2,4-Trimethylbenzene	50.0	52.2		ug/L		104	70 - 130	4	20
1,2-Dibromo-3-Chloropropane	50.0	44.8		ug/L		90	70 - 130	4	20
1,2-Dichlorobenzene	50.0	51.0		ug/L		102	70 - 130	5	20
1,2-Dichloroethane	50.0	46.2		ug/L		92	70 - 130	2	20
1,2-Dichloropropane	50.0	49.8		ug/L		100	70 - 130	2	20
1,3,5-Trimethylbenzene	50.0	51.8		ug/L		104	70 - 130	4	20
1,3-Dichlorobenzene	50.0	50.6		ug/L		101	70 - 130	5	20
1,3-Dichloropropane	50.0	49.3		ug/L		99	70 - 130	3	20
1,4-Dichlorobenzene	50.0	49.1		ug/L		98	70 - 130	3	20
1,4-Dioxane	1000	1150		ug/L		115	70 - 130	4	20
2,2-Dichloropropane	50.0	51.5		ug/L		103	70 - 130	0	20
2-Butanone (MEK)	250	279		ug/L		112	70 - 130	2	20
2-Chlorotoluene	50.0	50.4		ug/L		101	70 - 130	6	20
2-Hexanone	250	246		ug/L		98	70 - 130	7	20
4-Chlorotoluene	50.0	52.1		ug/L		104	70 - 130	3	20
4-Isopropyltoluene	50.0	54.5		ug/L		109	70 - 130	5	20
4-Methyl-2-pentanone (MIBK)	250	265		ug/L		106	70 - 130	7	20
Acetone	250	269		ug/L		108	70 - 130	5	20
Benzene	50.0	46.7		ug/L		93	70 - 130	2	20
Bromobenzene	50.0	49.9		ug/L		100	70 - 130	3	20
Bromoform	50.0	47.9		ug/L		96	70 - 130	3	20
Bromomethane	50.0	56.3		ug/L		113	70 - 130	6	20
Carbon disulfide	50.0	56.4		ug/L		113	70 - 130	2	20
Carbon tetrachloride	50.0	46.5		ug/L		93	70 - 130	2	20
Chlorobenzene	50.0	48.1		ug/L		96	70 - 130	2	20
Chlorobromomethane	50.0	46.0		ug/L		92	70 - 130	3	20
Chlorodibromomethane	50.0	48.9		ug/L		98	70 - 130	1	20
Chloroethane	50.0	54.7		ug/L		109	70 - 130	1	20
Chloroform	50.0	45.4		ug/L		91	70 - 130	2	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCSD 490-195016/4

Matrix: Water

Analysis Batch: 195016

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		
Chloromethane	50.0	55.2		ug/L		110	70 - 130	1	20	
cis-1,2-Dichloroethene	50.0	51.0		ug/L		102	70 - 130	2	20	
cis-1,3-Dichloropropene	50.0	51.8		ug/L		104	70 - 130	0	20	
Dibromomethane	50.0	47.6		ug/L		95	70 - 130	3	20	
Dichlorobromomethane	50.0	47.4		ug/L		95	70 - 130	0	20	
Dichlorodifluoromethane	50.0	57.4		ug/L		115	70 - 130	1	20	
Ethyl ether	50.0	53.8		ug/L		108	70 - 130	4	20	
Ethylbenzene	50.0	50.3		ug/L		101	70 - 130	1	20	
Ethylene Dibromide	50.0	50.0		ug/L		100	70 - 130	2	20	
Hexachlorobutadiene	50.0	52.9		ug/L		106	70 - 130	9	20	
Isopropyl ether	50.0	55.0		ug/L		110	70 - 130	0	20	
Isopropylbenzene	50.0	51.5		ug/L		103	70 - 130	1	20	
Methyl tert-butyl ether	50.0	46.7		ug/L		93	70 - 130	3	20	
Methylene Chloride	50.0	49.5		ug/L		99	70 - 130	1	20	
m-Xylene & p-Xylene	50.0	49.2		ug/L		98	70 - 130	0	20	
Naphthalene	50.0	45.5		ug/L		91	70 - 130	3	20	
n-Butylbenzene	50.0	54.4		ug/L		109	70 - 130	5	20	
N-Propylbenzene	50.0	55.1		ug/L		110	70 - 130	5	20	
o-Xylene	50.0	50.2		ug/L		100	70 - 130	2	20	
sec-Butylbenzene	50.0	54.9		ug/L		110	70 - 130	5	20	
Styrene	50.0	51.9		ug/L		104	70 - 130	2	20	
Tert-amyl methyl ether	50.0	44.8		ug/L		90	70 - 130	3	20	
Tert-butyl ethyl ether	50.0	48.8		ug/L		98	70 - 130	3	20	
tert-Butylbenzene	50.0	54.1		ug/L		108	70 - 130	5	20	
Tetrachloroethene	50.0	48.4		ug/L		97	70 - 130	2	20	
Tetrahydrofuran	100	101		ug/L		101	70 - 130	8	20	
Toluene	50.0	47.7		ug/L		95	70 - 130	0	20	
trans-1,2-Dichloroethene	50.0	51.2		ug/L		102	70 - 130	2	20	
trans-1,3-Dichloropropene	50.0	51.0		ug/L		102	70 - 130	1	20	
Trichloroethene	50.0	47.6		ug/L		95	70 - 130	4	20	
Trichlorofluoromethane	50.0	48.5		ug/L		97	70 - 130	0	20	
Vinyl chloride	50.0	56.1		ug/L		112	70 - 130	0	20	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	100		70 - 130
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 490-195033/7

Matrix: Water

Analysis Batch: 195033

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			10/03/14 13:08	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/03/14 13:08	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/03/14 13:08	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/03/14 13:08	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: MB 490-195033/7

Matrix: Water

Analysis Batch: 195033

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethane	ND		1.0		ug/L			10/03/14 13:08	1
1,1-Dichloroethene	ND		1.0		ug/L			10/03/14 13:08	1
1,1-Dichloropropene	ND		1.0		ug/L			10/03/14 13:08	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/03/14 13:08	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/03/14 13:08	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/03/14 13:08	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/03/14 13:08	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/03/14 13:08	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/03/14 13:08	1
1,2-Dichloroethane	ND		1.0		ug/L			10/03/14 13:08	1
1,2-Dichloropropane	ND		1.0		ug/L			10/03/14 13:08	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/03/14 13:08	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/03/14 13:08	1
1,3-Dichloropropane	ND		1.0		ug/L			10/03/14 13:08	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/03/14 13:08	1
1,4-Dioxane	ND		200		ug/L			10/03/14 13:08	1
2,2-Dichloropropane	ND		1.0		ug/L			10/03/14 13:08	1
2-Butanone (MEK)	ND		50		ug/L			10/03/14 13:08	1
2-Chlorotoluene	ND		1.0		ug/L			10/03/14 13:08	1
2-Hexanone	ND		10		ug/L			10/03/14 13:08	1
4-Chlorotoluene	ND		1.0		ug/L			10/03/14 13:08	1
4-Isopropyltoluene	ND		1.0		ug/L			10/03/14 13:08	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/03/14 13:08	1
Acetone	ND		25		ug/L			10/03/14 13:08	1
Benzene	ND		1.0		ug/L			10/03/14 13:08	1
Bromobenzene	ND		1.0		ug/L			10/03/14 13:08	1
Bromoform	ND		1.0		ug/L			10/03/14 13:08	1
Bromomethane	ND		1.0		ug/L			10/03/14 13:08	1
Carbon disulfide	ND		1.0		ug/L			10/03/14 13:08	1
Carbon tetrachloride	ND		1.0		ug/L			10/03/14 13:08	1
Chlorobenzene	ND		1.0		ug/L			10/03/14 13:08	1
Chlorobromomethane	ND		1.0		ug/L			10/03/14 13:08	1
Chlorodibromomethane	ND		1.0		ug/L			10/03/14 13:08	1
Chloroethane	ND		1.0		ug/L			10/03/14 13:08	1
Chloroform	ND		1.0		ug/L			10/03/14 13:08	1
Chloromethane	ND		1.0		ug/L			10/03/14 13:08	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/03/14 13:08	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 13:08	1
Dibromomethane	ND		1.0		ug/L			10/03/14 13:08	1
Dichlorobromomethane	ND		1.0		ug/L			10/03/14 13:08	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/03/14 13:08	1
Ethyl ether	ND		5.0		ug/L			10/03/14 13:08	1
Ethylbenzene	ND		1.0		ug/L			10/03/14 13:08	1
Ethylene Dibromide	ND		1.0		ug/L			10/03/14 13:08	1
Hexachlorobutadiene	ND		2.0		ug/L			10/03/14 13:08	1
Isopropyl ether	ND		2.0		ug/L			10/03/14 13:08	1
Isopropylbenzene	ND		1.0		ug/L			10/03/14 13:08	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/03/14 13:08	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: MB 490-195033/7

Matrix: Water

Analysis Batch: 195033

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		5.0		ug/L			10/03/14 13:08	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/03/14 13:08	1
Naphthalene	ND		5.0		ug/L			10/03/14 13:08	1
n-Butylbenzene	ND		1.0		ug/L			10/03/14 13:08	1
N-Propylbenzene	ND		1.0		ug/L			10/03/14 13:08	1
o-Xylene	ND		1.0		ug/L			10/03/14 13:08	1
sec-Butylbenzene	ND		1.0		ug/L			10/03/14 13:08	1
Styrene	ND		1.0		ug/L			10/03/14 13:08	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/03/14 13:08	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/03/14 13:08	1
tert-Butylbenzene	ND		1.0		ug/L			10/03/14 13:08	1
Tetrachloroethene	ND		1.0		ug/L			10/03/14 13:08	1
Toluene	ND		1.0		ug/L			10/03/14 13:08	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/03/14 13:08	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 13:08	1
Trichloroethene	ND		1.0		ug/L			10/03/14 13:08	1
Trichlorofluoromethane	ND		1.0		ug/L			10/03/14 13:08	1
Vinyl chloride	ND		1.0		ug/L			10/03/14 13:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		70 - 130		10/03/14 13:08	1
Toluene-d8 (Surr)	102		70 - 130		10/03/14 13:08	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		10/03/14 13:08	1
4-Bromofluorobenzene (Surr)	95		70 - 130		10/03/14 13:08	1

Lab Sample ID: LCS 490-195033/3

Matrix: Water

Analysis Batch: 195033

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	50.0	47.7		ug/L		95	70 - 130
1,1,1-Trichloroethane	50.0	52.5		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	50.0	42.2		ug/L		84	70 - 130
1,1,2-Trichloroethane	50.0	44.1		ug/L		88	70 - 130
1,1-Dichloroethane	50.0	45.4		ug/L		91	70 - 130
1,1-Dichloroethene	50.0	48.2		ug/L		96	70 - 130
1,1-Dichloropropene	50.0	50.3		ug/L		101	70 - 130
1,2,3-Trichlorobenzene	50.0	50.8		ug/L		102	70 - 130
1,2,3-Trichloropropane	50.0	47.1		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	50.0	50.8		ug/L		102	70 - 130
1,2,4-Trimethylbenzene	50.0	47.5		ug/L		95	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	48.0		ug/L		96	70 - 130
1,2-Dichlorobenzene	50.0	46.8		ug/L		94	70 - 130
1,2-Dichloroethane	50.0	54.2		ug/L		108	70 - 130
1,2-Dichloropropane	50.0	41.7		ug/L		83	70 - 130
1,3,5-Trimethylbenzene	50.0	48.3		ug/L		97	70 - 130
1,3-Dichlorobenzene	50.0	48.1		ug/L		96	70 - 130
1,3-Dichloropropane	50.0	46.6		ug/L		93	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCS 490-195033/3

Matrix: Water

Analysis Batch: 195033

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	50.0	45.1		ug/L		90	70 - 130
1,4-Dioxane	1000	1190		ug/L		119	70 - 130
2,2-Dichloropropane	50.0	51.7		ug/L		103	70 - 130
2-Butanone (MEK)	250	231		ug/L		92	70 - 130
2-Chlorotoluene	50.0	48.1		ug/L		96	70 - 130
2-Hexanone	250	209		ug/L		84	70 - 130
4-Chlorotoluene	50.0	48.8		ug/L		98	70 - 130
4-Isopropyltoluene	50.0	48.8		ug/L		98	70 - 130
4-Methyl-2-pentanone (MIBK)	250	213		ug/L		85	70 - 130
Acetone	250	204		ug/L		82	70 - 130
Benzene	50.0	44.3		ug/L		89	70 - 130
Bromobenzene	50.0	44.7		ug/L		89	70 - 130
Bromoform	50.0	48.3		ug/L		97	70 - 130
Bromomethane	50.0	46.4		ug/L		93	70 - 130
Carbon disulfide	50.0	45.3		ug/L		91	70 - 130
Carbon tetrachloride	50.0	53.4		ug/L		107	70 - 130
Chlorobenzene	50.0	46.7		ug/L		93	70 - 130
Chlorobromomethane	50.0	47.1		ug/L		94	70 - 130
Chlorodibromomethane	50.0	47.7		ug/L		95	70 - 130
Chloroethane	50.0	44.9		ug/L		90	70 - 130
Chloroform	50.0	50.5		ug/L		101	70 - 130
Chloromethane	50.0	36.8		ug/L		74	70 - 130
cis-1,2-Dichloroethene	50.0	46.7		ug/L		93	70 - 130
cis-1,3-Dichloropropene	50.0	48.2		ug/L		96	70 - 130
Dibromomethane	50.0	45.0		ug/L		90	70 - 130
Dichlorobromomethane	50.0	48.6		ug/L		97	70 - 130
Dichlorodifluoromethane	50.0	48.9		ug/L		98	70 - 130
Ethyl ether	50.0	40.3		ug/L		81	70 - 130
Ethylbenzene	50.0	46.6		ug/L		93	70 - 130
Ethylene Dibromide	50.0	45.0		ug/L		90	70 - 130
Hexachlorobutadiene	50.0	52.6		ug/L		105	70 - 130
Isopropyl ether	50.0	40.6		ug/L		81	70 - 130
Isopropylbenzene	50.0	47.3		ug/L		95	70 - 130
Methyl tert-butyl ether	50.0	47.4		ug/L		95	70 - 130
Methylene Chloride	50.0	41.6		ug/L		83	70 - 130
m-Xylene & p-Xylene	50.0	46.2		ug/L		92	70 - 130
Naphthalene	50.0	49.4		ug/L		99	70 - 130
n-Butylbenzene	50.0	47.0		ug/L		94	70 - 130
N-Propylbenzene	50.0	48.8		ug/L		98	70 - 130
o-Xylene	50.0	45.1		ug/L		90	70 - 130
sec-Butylbenzene	50.0	49.2		ug/L		98	70 - 130
Styrene	50.0	44.3		ug/L		89	70 - 130
Tert-amyl methyl ether	50.0	43.9		ug/L		88	70 - 130
Tert-butyl ethyl ether	50.0	45.2		ug/L		90	70 - 130
tert-Butylbenzene	50.0	50.7		ug/L		101	70 - 130
Tetrachloroethene	50.0	50.3		ug/L		101	70 - 130
Toluene	50.0	45.6		ug/L		91	70 - 130
trans-1,2-Dichloroethene	50.0	45.6		ug/L		91	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCS 490-195033/3

Matrix: Water

Analysis Batch: 195033

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	50.0	47.6		ug/L		95	70 - 130
Trichloroethene	50.0	46.8		ug/L		94	70 - 130
Trichlorofluoromethane	50.0	55.9		ug/L		112	70 - 130
Vinyl chloride	50.0	43.6		ug/L		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	100		70 - 130
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
4-Bromofluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 490-195033/4

Matrix: Water

Analysis Batch: 195033

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	50.0	46.8		ug/L		94	70 - 130	2	20
1,1,1-Trichloroethane	50.0	51.8		ug/L		104	70 - 130	1	20
1,1,1,2,2-Tetrachloroethane	50.0	38.8		ug/L		78	70 - 130	8	20
1,1,2-Trichloroethane	50.0	41.4		ug/L		83	70 - 130	6	20
1,1-Dichloroethane	50.0	44.2		ug/L		88	70 - 130	2	20
1,1-Dichloroethene	50.0	46.6		ug/L		93	70 - 130	3	20
1,1-Dichloropropene	50.0	48.3		ug/L		97	70 - 130	4	20
1,2,3-Trichlorobenzene	50.0	46.8		ug/L		94	70 - 130	8	20
1,2,3-Trichloropropane	50.0	45.8		ug/L		92	70 - 130	3	20
1,2,4-Trichlorobenzene	50.0	47.3		ug/L		95	70 - 130	7	20
1,2,4-Trimethylbenzene	50.0	47.8		ug/L		96	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	50.0	41.8		ug/L		84	70 - 130	14	20
1,2-Dichlorobenzene	50.0	45.5		ug/L		91	70 - 130	3	20
1,2-Dichloroethane	50.0	48.7		ug/L		97	70 - 130	11	20
1,2-Dichloropropane	50.0	40.6		ug/L		81	70 - 130	3	20
1,3,5-Trimethylbenzene	50.0	49.2		ug/L		98	70 - 130	2	20
1,3-Dichlorobenzene	50.0	47.4		ug/L		95	70 - 130	1	20
1,3-Dichloropropane	50.0	43.3		ug/L		87	70 - 130	7	20
1,4-Dichlorobenzene	50.0	44.4		ug/L		89	70 - 130	2	20
1,4-Dioxane	1000	937	*	ug/L		94	70 - 130	24	20
2,2-Dichloropropane	50.0	49.9		ug/L		100	70 - 130	3	20
2-Butanone (MEK)	250	205		ug/L		82	70 - 130	12	20
2-Chlorotoluene	50.0	49.4		ug/L		99	70 - 130	3	20
2-Hexanone	250	179		ug/L		72	70 - 130	15	20
4-Chlorotoluene	50.0	49.6		ug/L		99	70 - 130	2	20
4-Isopropyltoluene	50.0	50.0		ug/L		100	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)	250	187		ug/L		75	70 - 130	13	20
Acetone	250	187		ug/L		75	70 - 130	9	20
Benzene	50.0	43.6		ug/L		87	70 - 130	2	20
Bromobenzene	50.0	44.3		ug/L		89	70 - 130	1	20
Bromoform	50.0	44.5		ug/L		89	70 - 130	8	20
Bromomethane	50.0	44.3		ug/L		89	70 - 130	4	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCSD 490-195033/4

Matrix: Water

Analysis Batch: 195033

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
Carbon disulfide	50.0	46.2		ug/L		92	70 - 130	2	20
Carbon tetrachloride	50.0	52.5		ug/L		105	70 - 130	2	20
Chlorobenzene	50.0	46.4		ug/L		93	70 - 130	1	20
Chlorobromomethane	50.0	44.6		ug/L		89	70 - 130	5	20
Chlorodibromomethane	50.0	44.8		ug/L		90	70 - 130	6	20
Chloroethane	50.0	45.3		ug/L		91	70 - 130	1	20
Chloroform	50.0	48.2		ug/L		96	70 - 130	5	20
Chloromethane	50.0	35.2		ug/L		70	70 - 130	5	20
cis-1,2-Dichloroethene	50.0	44.4		ug/L		89	70 - 130	5	20
cis-1,3-Dichloropropene	50.0	46.1		ug/L		92	70 - 130	5	20
Dibromomethane	50.0	40.0		ug/L		80	70 - 130	12	20
Dichlorobromomethane	50.0	45.3		ug/L		91	70 - 130	7	20
Dichlorodifluoromethane	50.0	46.9		ug/L		94	70 - 130	4	20
Ethyl ether	50.0	38.9		ug/L		78	70 - 130	4	20
Ethylbenzene	50.0	47.4		ug/L		95	70 - 130	2	20
Ethylene Dibromide	50.0	41.7		ug/L		83	70 - 130	8	20
Hexachlorobutadiene	50.0	51.0		ug/L		102	70 - 130	3	20
Isopropyl ether	50.0	39.3		ug/L		79	70 - 130	3	20
Isopropylbenzene	50.0	48.5		ug/L		97	70 - 130	2	20
Methyl tert-butyl ether	50.0	43.1		ug/L		86	70 - 130	9	20
Methylene Chloride	50.0	42.3		ug/L		85	70 - 130	2	20
m-Xylene & p-Xylene	50.0	47.7		ug/L		95	70 - 130	3	20
Naphthalene	50.0	44.0		ug/L		88	70 - 130	11	20
n-Butylbenzene	50.0	47.0		ug/L		94	70 - 130	0	20
N-Propylbenzene	50.0	50.3		ug/L		101	70 - 130	3	20
o-Xylene	50.0	46.0		ug/L		92	70 - 130	2	20
sec-Butylbenzene	50.0	49.8		ug/L		100	70 - 130	1	20
Styrene	50.0	44.6		ug/L		89	70 - 130	1	20
Tert-amyl methyl ether	50.0	40.0		ug/L		80	70 - 130	9	20
Tert-butyl ethyl ether	50.0	41.3		ug/L		83	70 - 130	9	20
tert-Butylbenzene	50.0	51.4		ug/L		103	70 - 130	1	20
Tetrachloroethene	50.0	50.7		ug/L		101	70 - 130	1	20
Toluene	50.0	46.4		ug/L		93	70 - 130	2	20
trans-1,2-Dichloroethene	50.0	46.2		ug/L		92	70 - 130	1	20
trans-1,3-Dichloropropene	50.0	45.8		ug/L		92	70 - 130	4	20
Trichloroethene	50.0	45.6		ug/L		91	70 - 130	3	20
Trichlorofluoromethane	50.0	52.9		ug/L		106	70 - 130	5	20
Vinyl chloride	50.0	43.6		ug/L		87	70 - 130	0	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	94		70 - 130
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: MB 490-195081/7

Matrix: Water

Analysis Batch: 195081

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			10/03/14 14:16	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/03/14 14:16	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/03/14 14:16	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/03/14 14:16	1
1,1-Dichloroethane	ND		1.0		ug/L			10/03/14 14:16	1
1,1-Dichloroethene	ND		1.0		ug/L			10/03/14 14:16	1
1,1-Dichloropropene	ND		1.0		ug/L			10/03/14 14:16	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/03/14 14:16	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/03/14 14:16	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/03/14 14:16	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/03/14 14:16	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/03/14 14:16	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/03/14 14:16	1
1,2-Dichloroethane	ND		1.0		ug/L			10/03/14 14:16	1
1,2-Dichloropropane	ND		1.0		ug/L			10/03/14 14:16	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/03/14 14:16	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/03/14 14:16	1
1,3-Dichloropropane	ND		1.0		ug/L			10/03/14 14:16	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/03/14 14:16	1
1,4-Dioxane	ND		200		ug/L			10/03/14 14:16	1
2,2-Dichloropropane	ND		1.0		ug/L			10/03/14 14:16	1
2-Butanone (MEK)	ND		50		ug/L			10/03/14 14:16	1
2-Chlorotoluene	ND		1.0		ug/L			10/03/14 14:16	1
2-Hexanone	ND		10		ug/L			10/03/14 14:16	1
4-Chlorotoluene	ND		1.0		ug/L			10/03/14 14:16	1
4-Isopropyltoluene	ND		1.0		ug/L			10/03/14 14:16	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/03/14 14:16	1
Acetone	ND		25		ug/L			10/03/14 14:16	1
Benzene	ND		1.0		ug/L			10/03/14 14:16	1
Bromobenzene	ND		1.0		ug/L			10/03/14 14:16	1
Bromoform	ND		1.0		ug/L			10/03/14 14:16	1
Bromomethane	ND		1.0		ug/L			10/03/14 14:16	1
Carbon disulfide	ND		1.0		ug/L			10/03/14 14:16	1
Carbon tetrachloride	ND		1.0		ug/L			10/03/14 14:16	1
Chlorobenzene	ND		1.0		ug/L			10/03/14 14:16	1
Chlorobromomethane	ND		1.0		ug/L			10/03/14 14:16	1
Chlorodibromomethane	ND		1.0		ug/L			10/03/14 14:16	1
Chloroethane	ND		1.0		ug/L			10/03/14 14:16	1
Chloroform	ND		1.0		ug/L			10/03/14 14:16	1
Chloromethane	ND		1.0		ug/L			10/03/14 14:16	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/03/14 14:16	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 14:16	1
Dibromomethane	ND		1.0		ug/L			10/03/14 14:16	1
Dichlorobromomethane	ND		1.0		ug/L			10/03/14 14:16	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/03/14 14:16	1
Ethyl ether	ND		5.0		ug/L			10/03/14 14:16	1
Ethylbenzene	ND		1.0		ug/L			10/03/14 14:16	1
Ethylene Dibromide	ND		1.0		ug/L			10/03/14 14:16	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: MB 490-195081/7

Matrix: Water

Analysis Batch: 195081

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Hexachlorobutadiene	ND		2.0		ug/L			10/03/14 14:16	1
Isopropyl ether	ND		2.0		ug/L			10/03/14 14:16	1
Isopropylbenzene	ND		1.0		ug/L			10/03/14 14:16	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/03/14 14:16	1
Methylene Chloride	ND		5.0		ug/L			10/03/14 14:16	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/03/14 14:16	1
Naphthalene	ND		5.0		ug/L			10/03/14 14:16	1
n-Butylbenzene	ND		1.0		ug/L			10/03/14 14:16	1
N-Propylbenzene	ND		1.0		ug/L			10/03/14 14:16	1
o-Xylene	ND		1.0		ug/L			10/03/14 14:16	1
sec-Butylbenzene	ND		1.0		ug/L			10/03/14 14:16	1
Styrene	ND		1.0		ug/L			10/03/14 14:16	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/03/14 14:16	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/03/14 14:16	1
tert-Butylbenzene	ND		1.0		ug/L			10/03/14 14:16	1
Tetrachloroethene	ND		1.0		ug/L			10/03/14 14:16	1
Tetrahydrofuran	ND		10		ug/L			10/03/14 14:16	1
Toluene	ND		1.0		ug/L			10/03/14 14:16	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/03/14 14:16	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/03/14 14:16	1
Trichloroethene	ND		1.0		ug/L			10/03/14 14:16	1
Trichlorofluoromethane	ND		1.0		ug/L			10/03/14 14:16	1
Vinyl chloride	ND		1.0		ug/L			10/03/14 14:16	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	101		70 - 130		10/03/14 14:16	1
Toluene-d8 (Surr)	111		70 - 130		10/03/14 14:16	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		10/03/14 14:16	1
4-Bromofluorobenzene (Surr)	97		70 - 130		10/03/14 14:16	1

Lab Sample ID: LCS 490-195081/3

Matrix: Water

Analysis Batch: 195081

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	50.0	51.3		ug/L		103	70 - 130
1,1,1-Trichloroethane	50.0	49.7		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.6		ug/L		99	70 - 130
1,1,2-Trichloroethane	50.0	53.1		ug/L		106	70 - 130
1,1-Dichloroethane	50.0	49.2		ug/L		98	70 - 130
1,1-Dichloroethane	50.0	49.7		ug/L		99	70 - 130
1,1-Dichloropropene	50.0	49.0		ug/L		98	70 - 130
1,2,3-Trichlorobenzene	50.0	51.7		ug/L		103	70 - 130
1,2,3-Trichloropropane	50.0	50.7		ug/L		101	70 - 130
1,2,4-Trichlorobenzene	50.0	52.4		ug/L		105	70 - 130
1,2,4-Trimethylbenzene	50.0	51.3		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	48.7		ug/L		97	70 - 130
1,2-Dichlorobenzene	50.0	52.3		ug/L		105	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCS 490-195081/3

Matrix: Water

Analysis Batch: 195081

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	52.3		ug/L		105	70 - 130
1,2-Dichloropropane	50.0	48.9		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	50.0	51.8		ug/L		104	70 - 130
1,3-Dichlorobenzene	50.0	51.4		ug/L		103	70 - 130
1,3-Dichloropropane	50.0	56.7		ug/L		113	70 - 130
1,4-Dichlorobenzene	50.0	50.4		ug/L		101	70 - 130
1,4-Dioxane	1000	1020		ug/L		102	70 - 130
2,2-Dichloropropane	50.0	49.4		ug/L		99	70 - 130
2-Butanone (MEK)	250	251		ug/L		100	70 - 130
2-Chlorotoluene	50.0	48.8		ug/L		98	70 - 130
2-Hexanone	250	284		ug/L		114	70 - 130
4-Chlorotoluene	50.0	52.3		ug/L		105	70 - 130
4-Isopropyltoluene	50.0	50.3		ug/L		101	70 - 130
4-Methyl-2-pentanone (MIBK)	250	298		ug/L		119	70 - 130
Acetone	250	270		ug/L		108	70 - 130
Benzene	50.0	49.3		ug/L		99	70 - 130
Bromobenzene	50.0	48.2		ug/L		96	70 - 130
Bromoform	50.0	52.0		ug/L		104	70 - 130
Bromomethane	50.0	52.3		ug/L		105	70 - 130
Carbon disulfide	50.0	51.2		ug/L		102	70 - 130
Carbon tetrachloride	50.0	49.6		ug/L		99	70 - 130
Chlorobenzene	50.0	50.1		ug/L		100	70 - 130
Chlorobromomethane	50.0	50.5		ug/L		101	70 - 130
Chlorodibromomethane	50.0	52.8		ug/L		106	70 - 130
Chloroethane	50.0	49.5		ug/L		99	70 - 130
Chloroform	50.0	48.3		ug/L		97	70 - 130
Chloromethane	50.0	47.1		ug/L		94	70 - 130
cis-1,2-Dichloroethene	50.0	50.3		ug/L		101	70 - 130
cis-1,3-Dichloropropene	50.0	54.9		ug/L		110	70 - 130
Dibromomethane	50.0	48.8		ug/L		98	70 - 130
Dichlorobromomethane	50.0	48.4		ug/L		97	70 - 130
Dichlorodifluoromethane	50.0	53.9		ug/L		108	70 - 130
Ethyl ether	50.0	49.8		ug/L		100	70 - 130
Ethylbenzene	50.0	51.0		ug/L		102	70 - 130
Ethylene Dibromide	50.0	54.2		ug/L		108	70 - 130
Hexachlorobutadiene	50.0	48.5		ug/L		97	70 - 130
Isopropyl ether	50.0	52.6		ug/L		105	70 - 130
Isopropylbenzene	50.0	51.1		ug/L		102	70 - 130
Methyl tert-butyl ether	50.0	50.0		ug/L		100	70 - 130
Methylene Chloride	50.0	49.8		ug/L		100	70 - 130
m-Xylene & p-Xylene	50.0	50.7		ug/L		101	70 - 130
Naphthalene	50.0	54.8		ug/L		110	70 - 130
n-Butylbenzene	50.0	54.2		ug/L		108	70 - 130
N-Propylbenzene	50.0	52.1		ug/L		104	70 - 130
o-Xylene	50.0	50.7		ug/L		101	70 - 130
sec-Butylbenzene	50.0	51.2		ug/L		102	70 - 130
Styrene	50.0	52.7		ug/L		105	70 - 130
Tert-amyl methyl ether	50.0	48.2		ug/L		96	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCS 490-195081/3

Matrix: Water

Analysis Batch: 195081

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tert-butyl ethyl ether	50.0	49.3		ug/L		99	70 - 130
tert-Butylbenzene	50.0	50.1		ug/L		100	70 - 130
Tetrachloroethene	50.0	54.9		ug/L		110	70 - 130
Tetrahydrofuran	100	111		ug/L		111	70 - 130
Toluene	50.0	55.2		ug/L		110	70 - 130
trans-1,2-Dichloroethene	50.0	50.6		ug/L		101	70 - 130
trans-1,3-Dichloropropene	50.0	53.8		ug/L		108	70 - 130
Trichloroethene	50.0	48.5		ug/L		97	70 - 130
Trichlorofluoromethane	50.0	52.8		ug/L		106	70 - 130
Vinyl chloride	50.0	49.2		ug/L		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	109		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 490-195081/4

Matrix: Water

Analysis Batch: 195081

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	50.0	50.9		ug/L		102	70 - 130	1	20
1,1,1-Trichloroethane	50.0	49.3		ug/L		99	70 - 130	1	20
1,1,1,2-Tetrachloroethane	50.0	49.9		ug/L		100	70 - 130	1	20
1,1,2-Trichloroethane	50.0	53.1		ug/L		106	70 - 130	0	20
1,1-Dichloroethane	50.0	48.8		ug/L		98	70 - 130	1	20
1,1-Dichloroethene	50.0	49.0		ug/L		98	70 - 130	1	20
1,1-Dichloropropene	50.0	48.6		ug/L		97	70 - 130	1	20
1,2,3-Trichlorobenzene	50.0	51.4		ug/L		103	70 - 130	1	20
1,2,3-Trichloropropane	50.0	49.7		ug/L		99	70 - 130	2	20
1,2,4-Trichlorobenzene	50.0	53.1		ug/L		106	70 - 130	1	20
1,2,4-Trimethylbenzene	50.0	50.2		ug/L		100	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	50.0	47.6		ug/L		95	70 - 130	2	20
1,2-Dichlorobenzene	50.0	52.1		ug/L		104	70 - 130	0	20
1,2-Dichloroethane	50.0	52.0		ug/L		104	70 - 130	0	20
1,2-Dichloropropane	50.0	48.5		ug/L		97	70 - 130	1	20
1,3,5-Trimethylbenzene	50.0	50.9		ug/L		102	70 - 130	2	20
1,3-Dichlorobenzene	50.0	50.9		ug/L		102	70 - 130	1	20
1,3-Dichloropropane	50.0	55.6		ug/L		111	70 - 130	2	20
1,4-Dichlorobenzene	50.0	49.8		ug/L		100	70 - 130	1	20
1,4-Dioxane	1000	948		ug/L		95	70 - 130	7	20
2,2-Dichloropropane	50.0	47.9		ug/L		96	70 - 130	3	20
2-Butanone (MEK)	250	254		ug/L		102	70 - 130	1	20
2-Chlorotoluene	50.0	48.2		ug/L		96	70 - 130	1	20
2-Hexanone	250	279		ug/L		112	70 - 130	2	20
4-Chlorotoluene	50.0	51.4		ug/L		103	70 - 130	2	20
4-Isopropyltoluene	50.0	49.6		ug/L		99	70 - 130	1	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCSD 490-195081/4

Matrix: Water

Analysis Batch: 195081

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Added	Result	Qualifier				Limits		
4-Methyl-2-pentanone (MIBK)	250	292		ug/L		117	70 - 130	2	20
Acetone	250	265		ug/L		106	70 - 130	2	20
Benzene	50.0	48.9		ug/L		98	70 - 130	1	20
Bromobenzene	50.0	48.9		ug/L		98	70 - 130	1	20
Bromoform	50.0	52.0		ug/L		104	70 - 130	0	20
Bromomethane	50.0	52.1		ug/L		104	70 - 130	0	20
Carbon disulfide	50.0	50.4		ug/L		101	70 - 130	2	20
Carbon tetrachloride	50.0	48.9		ug/L		98	70 - 130	2	20
Chlorobenzene	50.0	49.3		ug/L		99	70 - 130	2	20
Chlorobromomethane	50.0	49.9		ug/L		100	70 - 130	1	20
Chlorodibromomethane	50.0	51.8		ug/L		104	70 - 130	2	20
Chloroethane	50.0	48.2		ug/L		96	70 - 130	3	20
Chloroform	50.0	48.4		ug/L		97	70 - 130	0	20
Chloromethane	50.0	47.0		ug/L		94	70 - 130	0	20
cis-1,2-Dichloroethene	50.0	50.0		ug/L		100	70 - 130	1	20
cis-1,3-Dichloropropene	50.0	53.9		ug/L		108	70 - 130	2	20
Dibromomethane	50.0	49.1		ug/L		98	70 - 130	1	20
Dichlorobromomethane	50.0	47.9		ug/L		96	70 - 130	1	20
Dichlorodifluoromethane	50.0	53.1		ug/L		106	70 - 130	1	20
Ethyl ether	50.0	50.5		ug/L		101	70 - 130	1	20
Ethylbenzene	50.0	49.6		ug/L		99	70 - 130	3	20
Ethylene Dibromide	50.0	53.1		ug/L		106	70 - 130	2	20
Hexachlorobutadiene	50.0	46.9		ug/L		94	70 - 130	3	20
Isopropyl ether	50.0	52.8		ug/L		106	70 - 130	0	20
Isopropylbenzene	50.0	49.8		ug/L		100	70 - 130	3	20
Methyl tert-butyl ether	50.0	50.1		ug/L		100	70 - 130	0	20
Methylene Chloride	50.0	50.3		ug/L		101	70 - 130	1	20
m-Xylene & p-Xylene	50.0	49.5		ug/L		99	70 - 130	2	20
Naphthalene	50.0	53.8		ug/L		108	70 - 130	2	20
n-Butylbenzene	50.0	52.7		ug/L		105	70 - 130	3	20
N-Propylbenzene	50.0	51.2		ug/L		102	70 - 130	2	20
o-Xylene	50.0	49.7		ug/L		99	70 - 130	2	20
sec-Butylbenzene	50.0	50.3		ug/L		101	70 - 130	2	20
Styrene	50.0	51.9		ug/L		104	70 - 130	2	20
Tert-amyl methyl ether	50.0	47.9		ug/L		96	70 - 130	1	20
Tert-butyl ethyl ether	50.0	49.0		ug/L		98	70 - 130	1	20
tert-Butylbenzene	50.0	49.3		ug/L		99	70 - 130	2	20
Tetrachloroethene	50.0	53.2		ug/L		106	70 - 130	3	20
Tetrahydrofuran	100	111		ug/L		111	70 - 130	1	20
Toluene	50.0	54.2		ug/L		108	70 - 130	2	20
trans-1,2-Dichloroethene	50.0	50.1		ug/L		100	70 - 130	1	20
trans-1,3-Dichloropropene	50.0	52.4		ug/L		105	70 - 130	3	20
Trichloroethene	50.0	48.2		ug/L		96	70 - 130	1	20
Trichlorofluoromethane	50.0	52.1		ug/L		104	70 - 130	1	20
Vinyl chloride	50.0	48.7		ug/L		97	70 - 130	1	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	100		70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCSD 490-195081/4

Matrix: Water

Analysis Batch: 195081

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	109		70 - 130
1,2-Dichloroethane-d4 (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	94		70 - 130

Lab Sample ID: MB 490-195227/7

Matrix: Water

Analysis Batch: 195227

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			10/04/14 02:12	1
1,1,1-Trichloroethane	ND		1.0		ug/L			10/04/14 02:12	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			10/04/14 02:12	1
1,1,2-Trichloroethane	ND		1.0		ug/L			10/04/14 02:12	1
1,1-Dichloroethane	ND		1.0		ug/L			10/04/14 02:12	1
1,1-Dichloroethene	ND		1.0		ug/L			10/04/14 02:12	1
1,1-Dichloropropene	ND		1.0		ug/L			10/04/14 02:12	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			10/04/14 02:12	1
1,2,3-Trichloropropane	ND		1.0		ug/L			10/04/14 02:12	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			10/04/14 02:12	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			10/04/14 02:12	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			10/04/14 02:12	1
1,2-Dichlorobenzene	ND		1.0		ug/L			10/04/14 02:12	1
1,2-Dichloroethane	ND		1.0		ug/L			10/04/14 02:12	1
1,2-Dichloropropane	ND		1.0		ug/L			10/04/14 02:12	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			10/04/14 02:12	1
1,3-Dichlorobenzene	ND		1.0		ug/L			10/04/14 02:12	1
1,3-Dichloropropane	ND		1.0		ug/L			10/04/14 02:12	1
1,4-Dichlorobenzene	ND		1.0		ug/L			10/04/14 02:12	1
1,4-Dioxane	ND		200		ug/L			10/04/14 02:12	1
2,2-Dichloropropane	ND		1.0		ug/L			10/04/14 02:12	1
2-Butanone (MEK)	ND		50		ug/L			10/04/14 02:12	1
2-Chlorotoluene	ND		1.0		ug/L			10/04/14 02:12	1
2-Hexanone	ND		10		ug/L			10/04/14 02:12	1
4-Chlorotoluene	ND		1.0		ug/L			10/04/14 02:12	1
4-Isopropyltoluene	ND		1.0		ug/L			10/04/14 02:12	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			10/04/14 02:12	1
Acetone	ND		25		ug/L			10/04/14 02:12	1
Benzene	ND		1.0		ug/L			10/04/14 02:12	1
Bromobenzene	ND		1.0		ug/L			10/04/14 02:12	1
Bromoform	ND		1.0		ug/L			10/04/14 02:12	1
Bromomethane	ND		1.0		ug/L			10/04/14 02:12	1
Carbon disulfide	ND		1.0		ug/L			10/04/14 02:12	1
Carbon tetrachloride	ND		1.0		ug/L			10/04/14 02:12	1
Chlorobenzene	ND		1.0		ug/L			10/04/14 02:12	1
Chlorobromomethane	ND		1.0		ug/L			10/04/14 02:12	1
Chlorodibromomethane	ND		1.0		ug/L			10/04/14 02:12	1
Chloroethane	ND		1.0		ug/L			10/04/14 02:12	1
Chloroform	ND		1.0		ug/L			10/04/14 02:12	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: MB 490-195227/7

Matrix: Water

Analysis Batch: 195227

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloromethane	ND		1.0		ug/L			10/04/14 02:12	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			10/04/14 02:12	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			10/04/14 02:12	1
Dibromomethane	ND		1.0		ug/L			10/04/14 02:12	1
Dichlorobromomethane	ND		1.0		ug/L			10/04/14 02:12	1
Dichlorodifluoromethane	ND		1.0		ug/L			10/04/14 02:12	1
Ethyl ether	ND		5.0		ug/L			10/04/14 02:12	1
Ethylbenzene	ND		1.0		ug/L			10/04/14 02:12	1
Ethylene Dibromide	ND		1.0		ug/L			10/04/14 02:12	1
Hexachlorobutadiene	ND		2.0		ug/L			10/04/14 02:12	1
Isopropyl ether	ND		2.0		ug/L			10/04/14 02:12	1
Isopropylbenzene	ND		1.0		ug/L			10/04/14 02:12	1
Methyl tert-butyl ether	ND		1.0		ug/L			10/04/14 02:12	1
Methylene Chloride	ND		5.0		ug/L			10/04/14 02:12	1
m-Xylene & p-Xylene	ND		2.0		ug/L			10/04/14 02:12	1
Naphthalene	ND		5.0		ug/L			10/04/14 02:12	1
n-Butylbenzene	ND		1.0		ug/L			10/04/14 02:12	1
N-Propylbenzene	ND		1.0		ug/L			10/04/14 02:12	1
o-Xylene	ND		1.0		ug/L			10/04/14 02:12	1
sec-Butylbenzene	ND		1.0		ug/L			10/04/14 02:12	1
Styrene	ND		1.0		ug/L			10/04/14 02:12	1
Tert-amyl methyl ether	ND		1.0		ug/L			10/04/14 02:12	1
Tert-butyl ethyl ether	ND		1.0		ug/L			10/04/14 02:12	1
tert-Butylbenzene	ND		1.0		ug/L			10/04/14 02:12	1
Tetrachloroethene	ND		1.0		ug/L			10/04/14 02:12	1
Tetrahydrofuran	ND		10		ug/L			10/04/14 02:12	1
Toluene	ND		1.0		ug/L			10/04/14 02:12	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			10/04/14 02:12	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			10/04/14 02:12	1
Trichloroethene	ND		1.0		ug/L			10/04/14 02:12	1
Trichlorofluoromethane	ND		1.0		ug/L			10/04/14 02:12	1
Vinyl chloride	ND		1.0		ug/L			10/04/14 02:12	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	101		70 - 130		10/04/14 02:12	1
Toluene-d8 (Surr)	114		70 - 130		10/04/14 02:12	1
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		10/04/14 02:12	1
4-Bromofluorobenzene (Surr)	97		70 - 130		10/04/14 02:12	1

Lab Sample ID: LCS 490-195227/3

Matrix: Water

Analysis Batch: 195227

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	50.0	51.9		ug/L		104	70 - 130
1,1,1-Trichloroethane	50.0	52.3		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.0		ug/L		98	70 - 130
1,1,2-Trichloroethane	50.0	52.9		ug/L		106	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCS 490-195227/3

Matrix: Water

Analysis Batch: 195227

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	50.0	52.5		ug/L		105	70 - 130
1,1-Dichloroethene	50.0	52.0		ug/L		104	70 - 130
1,1-Dichloropropene	50.0	51.2		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	50.0	51.7		ug/L		103	70 - 130
1,2,3-Trichloropropane	50.0	49.8		ug/L		100	70 - 130
1,2,4-Trichlorobenzene	50.0	54.4		ug/L		109	70 - 130
1,2,4-Trimethylbenzene	50.0	52.6		ug/L		105	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	46.0		ug/L		92	70 - 130
1,2-Dichlorobenzene	50.0	53.2		ug/L		106	70 - 130
1,2-Dichloroethane	50.0	54.8		ug/L		110	70 - 130
1,2-Dichloropropane	50.0	51.4		ug/L		103	70 - 130
1,3,5-Trimethylbenzene	50.0	53.4		ug/L		107	70 - 130
1,3-Dichlorobenzene	50.0	52.3		ug/L		105	70 - 130
1,3-Dichloropropane	50.0	55.9		ug/L		112	70 - 130
1,4-Dichlorobenzene	50.0	51.0		ug/L		102	70 - 130
1,4-Dioxane	1000	974		ug/L		97	70 - 130
2,2-Dichloropropane	50.0	48.4		ug/L		97	70 - 130
2-Butanone (MEK)	250	253		ug/L		101	70 - 130
2-Chlorotoluene	50.0	50.7		ug/L		101	70 - 130
2-Hexanone	250	269		ug/L		108	70 - 130
4-Chlorotoluene	50.0	53.0		ug/L		106	70 - 130
4-Isopropyltoluene	50.0	52.2		ug/L		104	70 - 130
4-Methyl-2-pentanone (MIBK)	250	283		ug/L		113	70 - 130
Acetone	250	251		ug/L		100	70 - 130
Benzene	50.0	51.7		ug/L		103	70 - 130
Bromobenzene	50.0	50.0		ug/L		100	70 - 130
Bromoform	50.0	51.2		ug/L		102	70 - 130
Bromomethane	50.0	53.2		ug/L		106	70 - 130
Carbon disulfide	50.0	55.3		ug/L		111	70 - 130
Carbon tetrachloride	50.0	51.9		ug/L		104	70 - 130
Chlorobenzene	50.0	51.0		ug/L		102	70 - 130
Chlorobromomethane	50.0	52.3		ug/L		105	70 - 130
Chlorodibromomethane	50.0	52.3		ug/L		105	70 - 130
Chloroethane	50.0	52.0		ug/L		104	70 - 130
Chloroform	50.0	51.4		ug/L		103	70 - 130
Chloromethane	50.0	50.7		ug/L		101	70 - 130
cis-1,2-Dichloroethene	50.0	53.9		ug/L		108	70 - 130
cis-1,3-Dichloropropene	50.0	54.5		ug/L		109	70 - 130
Dibromomethane	50.0	50.1		ug/L		100	70 - 130
Dichlorobromomethane	50.0	50.3		ug/L		101	70 - 130
Dichlorodifluoromethane	50.0	54.7		ug/L		109	70 - 130
Ethyl ether	50.0	52.3		ug/L		105	70 - 130
Ethylbenzene	50.0	52.2		ug/L		104	70 - 130
Ethylene Dibromide	50.0	53.0		ug/L		106	70 - 130
Hexachlorobutadiene	50.0	52.4		ug/L		105	70 - 130
Isopropyl ether	50.0	55.3		ug/L		111	70 - 130
Isopropylbenzene	50.0	52.6		ug/L		105	70 - 130
Methyl tert-butyl ether	50.0	50.5		ug/L		101	70 - 130

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCS 490-195227/3

Matrix: Water

Analysis Batch: 195227

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	50.0	53.1		ug/L		106	70 - 130
m-Xylene & p-Xylene	50.0	51.8		ug/L		104	70 - 130
Naphthalene	50.0	51.9		ug/L		104	70 - 130
n-Butylbenzene	50.0	56.7		ug/L		113	70 - 130
N-Propylbenzene	50.0	54.2		ug/L		108	70 - 130
o-Xylene	50.0	52.3		ug/L		105	70 - 130
sec-Butylbenzene	50.0	53.3		ug/L		107	70 - 130
Styrene	50.0	54.5		ug/L		109	70 - 130
Tert-amyl methyl ether	50.0	47.6		ug/L		95	70 - 130
Tert-butyl ethyl ether	50.0	49.9		ug/L		100	70 - 130
tert-Butylbenzene	50.0	51.1		ug/L		102	70 - 130
Tetrachloroethene	50.0	54.1		ug/L		108	70 - 130
Tetrahydrofuran	100	111		ug/L		111	70 - 130
Toluene	50.0	56.7		ug/L		113	70 - 130
trans-1,2-Dichloroethene	50.0	54.2		ug/L		108	70 - 130
trans-1,3-Dichloropropene	50.0	53.2		ug/L		106	70 - 130
Trichloroethene	50.0	51.1		ug/L		102	70 - 130
Trichlorofluoromethane	50.0	56.4		ug/L		113	70 - 130
Vinyl chloride	50.0	52.5		ug/L		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	104		70 - 130
Toluene-d8 (Surr)	109		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 490-195227/4

Matrix: Water

Analysis Batch: 195227

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	50.0	50.2		ug/L		100	70 - 130	3	20
1,1,1-Trichloroethane	50.0	49.5		ug/L		99	70 - 130	6	20
1,1,1,2,2-Tetrachloroethane	50.0	48.0		ug/L		96	70 - 130	2	20
1,1,2-Trichloroethane	50.0	51.8		ug/L		104	70 - 130	2	20
1,1-Dichloroethane	50.0	50.0		ug/L		100	70 - 130	5	20
1,1-Dichloroethene	50.0	49.0		ug/L		98	70 - 130	6	20
1,1-Dichloropropene	50.0	49.3		ug/L		99	70 - 130	4	20
1,2,3-Trichlorobenzene	50.0	50.1		ug/L		100	70 - 130	3	20
1,2,3-Trichloropropane	50.0	48.0		ug/L		96	70 - 130	4	20
1,2,4-Trichlorobenzene	50.0	51.0		ug/L		102	70 - 130	6	20
1,2,4-Trimethylbenzene	50.0	51.6		ug/L		103	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	50.0	44.7		ug/L		89	70 - 130	3	20
1,2-Dichlorobenzene	50.0	52.0		ug/L		104	70 - 130	2	20
1,2-Dichloroethane	50.0	52.7		ug/L		105	70 - 130	4	20
1,2-Dichloropropane	50.0	48.6		ug/L		97	70 - 130	6	20
1,3,5-Trimethylbenzene	50.0	52.2		ug/L		104	70 - 130	2	20
1,3-Dichlorobenzene	50.0	51.3		ug/L		103	70 - 130	2	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCSD 490-195227/4

Matrix: Water

Analysis Batch: 195227

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
1,3-Dichloropropane	50.0	55.1		ug/L		110	70 - 130	1	20	
1,4-Dichlorobenzene	50.0	50.1		ug/L		100	70 - 130	2	20	
1,4-Dioxane	1000	910		ug/L		91	70 - 130	7	20	
2,2-Dichloropropane	50.0	45.3		ug/L		91	70 - 130	7	20	
2-Butanone (MEK)	250	245		ug/L		98	70 - 130	3	20	
2-Chlorotoluene	50.0	49.2		ug/L		98	70 - 130	3	20	
2-Hexanone	250	267		ug/L		107	70 - 130	1	20	
4-Chlorotoluene	50.0	52.8		ug/L		106	70 - 130	0	20	
4-Isopropyltoluene	50.0	50.7		ug/L		101	70 - 130	3	20	
4-Methyl-2-pentanone (MIBK)	250	278		ug/L		111	70 - 130	2	20	
Acetone	250	259		ug/L		104	70 - 130	3	20	
Benzene	50.0	49.5		ug/L		99	70 - 130	4	20	
Bromobenzene	50.0	48.9		ug/L		98	70 - 130	2	20	
Bromoform	50.0	49.0		ug/L		98	70 - 130	4	20	
Bromomethane	50.0	49.6		ug/L		99	70 - 130	7	20	
Carbon disulfide	50.0	53.1		ug/L		106	70 - 130	4	20	
Carbon tetrachloride	50.0	49.6		ug/L		99	70 - 130	4	20	
Chlorobenzene	50.0	49.8		ug/L		100	70 - 130	2	20	
Chlorobromomethane	50.0	49.8		ug/L		100	70 - 130	5	20	
Chlorodibromomethane	50.0	51.3		ug/L		103	70 - 130	2	20	
Chloroethane	50.0	50.0		ug/L		100	70 - 130	4	20	
Chloroform	50.0	49.5		ug/L		99	70 - 130	4	20	
Chloromethane	50.0	47.5		ug/L		95	70 - 130	6	20	
cis-1,2-Dichloroethene	50.0	50.2		ug/L		100	70 - 130	7	20	
cis-1,3-Dichloropropene	50.0	52.9		ug/L		106	70 - 130	3	20	
Dibromomethane	50.0	48.5		ug/L		97	70 - 130	3	20	
Dichlorobromomethane	50.0	48.1		ug/L		96	70 - 130	4	20	
Dichlorodifluoromethane	50.0	52.4		ug/L		105	70 - 130	4	20	
Ethyl ether	50.0	49.9		ug/L		100	70 - 130	5	20	
Ethylbenzene	50.0	50.5		ug/L		101	70 - 130	3	20	
Ethylene Dibromide	50.0	51.5		ug/L		103	70 - 130	3	20	
Hexachlorobutadiene	50.0	48.1		ug/L		96	70 - 130	9	20	
Isopropyl ether	50.0	53.4		ug/L		107	70 - 130	4	20	
Isopropylbenzene	50.0	50.8		ug/L		102	70 - 130	3	20	
Methyl tert-butyl ether	50.0	48.8		ug/L		98	70 - 130	4	20	
Methylene Chloride	50.0	50.6		ug/L		101	70 - 130	5	20	
m-Xylene & p-Xylene	50.0	50.2		ug/L		100	70 - 130	3	20	
Naphthalene	50.0	51.5		ug/L		103	70 - 130	1	20	
n-Butylbenzene	50.0	55.0		ug/L		110	70 - 130	3	20	
N-Propylbenzene	50.0	52.6		ug/L		105	70 - 130	3	20	
o-Xylene	50.0	50.6		ug/L		101	70 - 130	3	20	
sec-Butylbenzene	50.0	51.6		ug/L		103	70 - 130	3	20	
Styrene	50.0	52.4		ug/L		105	70 - 130	4	20	
Tert-amyl methyl ether	50.0	46.1		ug/L		92	70 - 130	3	20	
Tert-butyl ethyl ether	50.0	48.4		ug/L		97	70 - 130	3	20	
tert-Butylbenzene	50.0	49.5		ug/L		99	70 - 130	3	20	
Tetrachloroethene	50.0	52.5		ug/L		105	70 - 130	3	20	
Tetrahydrofuran	100	107		ug/L		107	70 - 130	4	20	

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-67875-1

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

Lab Sample ID: LCSD 490-195227/4

Matrix: Water

Analysis Batch: 195227

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Toluene	50.0	54.8		ug/L		110	70 - 130	3	20
trans-1,2-Dichloroethene	50.0	51.2		ug/L		102	70 - 130	6	20
trans-1,3-Dichloropropene	50.0	51.6		ug/L		103	70 - 130	3	20
Trichloroethene	50.0	49.1		ug/L		98	70 - 130	4	20
Trichlorofluoromethane	50.0	53.1		ug/L		106	70 - 130	6	20
Vinyl chloride	50.0	49.6		ug/L		99	70 - 130	6	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	101		70 - 130
Toluene-d8 (Surr)	108		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130

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

Lab Sample ID: MB 200-77937/1-A

Matrix: Water

Analysis Batch: 77976

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 77937

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dioxane	ND		0.20		ug/L		09/29/14 13:02	09/30/14 10:07	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,4-Dioxane-d8 (Surr)	86		70 - 130	09/29/14 13:02	09/30/14 10:07	1

Lab Sample ID: LCS 200-77937/2-A

Matrix: Water

Analysis Batch: 77976

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 77937

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.200	0.180	J	ug/L		90	70 - 130

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1,4-Dioxane-d8 (Surr)	79		70 - 130

TestAmerica Buffalo

QC Association Summary

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

TestAmerica Job ID: 480-67875-1

GC/MS VOA

Analysis Batch: 194457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-67875-1	DEP-19M-20140921	Total/NA	Water	8260C	
480-67875-2	DEP-21-20140921	Total/NA	Water	8260C	
480-67875-3	MW-261S-20140923	Total/NA	Water	8260C	
480-67875-4	MW-263M-20140921	Total/NA	Water	8260C	
LCS 490-194457/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-194457/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 490-194457/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 194717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-67875-21	MW-561-20140922	Total/NA	Water	8260C	
480-67875-22	MW-562-20140922	Total/NA	Water	8260C	
480-67875-23	MW-563-20140922	Total/NA	Water	8260C	
480-67875-24	REW-1-20140923	Total/NA	Water	8260C	
480-67875-25	REW-4-20140923	Total/NA	Water	8260C	
480-67875-26	REW-5-20140923	Total/NA	Water	8260C	
480-67875-27	REW-6-20140922	Total/NA	Water	8260C	
480-67875-28	REW-7-20140922	Total/NA	Water	8260C	
480-67875-29	REW-8-20140922	Total/NA	Water	8260C	
480-67875-30	REW-9-20140922	Total/NA	Water	8260C	
480-67875-31	REW-10-20140923	Total/NA	Water	8260C	
480-67875-32	REW-11-20140922	Total/NA	Water	8260C	
480-67875-33	REW-12-20140922	Total/NA	Water	8260C	
480-67875-34	DUP1-20140920	Total/NA	Water	8260C	
480-67875-37	TRIP BLANKS	Total/NA	Water	8260C	
LCS 490-194717/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-194717/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 490-194717/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 194754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-67875-1	DEP-19M-20140921	Total/NA	Water	8260C	
480-67875-5	MW-264M-20140921	Total/NA	Water	8260C	
480-67875-6	MW-265S-20140920	Total/NA	Water	8260C	
480-67875-7	MW-265M-20140923	Total/NA	Water	8260C	
480-67875-8	MW-265D-20140920	Total/NA	Water	8260C	
480-67875-9	MW-266Ma-20140920	Total/NA	Water	8260C	
LCS 490-194754/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-194754/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 490-194754/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 194871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-67875-35	DUP2-20140922	Total/NA	Water	8260C	
480-67875-36	DUP3-20140923	Total/NA	Water	8260C	
LCS 490-194871/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-194871/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 490-194871/7	Method Blank	Total/NA	Water	8260C	

QC Association Summary

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

TestAmerica Job ID: 480-67875-1

GC/MS VOA (Continued)

Analysis Batch: 194946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-67875-10	MW-266Mb-20140920	Total/NA	Water	8260C	
480-67875-11	MW-267S-20140920	Total/NA	Water	8260C	
480-67875-12	MW-267M-20140920	Total/NA	Water	8260C	
480-67875-13	MW-268S-20140923	Total/NA	Water	8260C	
480-67875-14	MW-268M-20140923	Total/NA	Water	8260C	
480-67875-15	MW-268D-20140920	Total/NA	Water	8260C	
480-67875-16	MW-269Ma-20140920	Total/NA	Water	8260C	
480-67875-17	MW-551-20140920	Total/NA	Water	8260C	
480-67875-18	MW-552-20140923	Total/NA	Water	8260C	
480-67875-19	MW-553-20140922	Total/NA	Water	8260C	
480-67875-20	MW-560-20140922	Total/NA	Water	8260C	
LCS 490-194946/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-194946/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 490-194946/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 195016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-67875-21	MW-561-20140922	Total/NA	Water	8260C	
480-67875-28	REW-7-20140922	Total/NA	Water	8260C	
480-67875-33	REW-12-20140922	Total/NA	Water	8260C	
480-67875-35	DUP2-20140922	Total/NA	Water	8260C	
LCS 490-195016/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-195016/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 490-195016/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 195033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-67875-11	MW-267S-20140920	Total/NA	Water	8260C	
480-67875-14	MW-268M-20140923	Total/NA	Water	8260C	
480-67875-15	MW-268D-20140920	Total/NA	Water	8260C	
480-67875-18	MW-552-20140923	Total/NA	Water	8260C	
480-67875-19	MW-553-20140922	Total/NA	Water	8260C	
LCS 490-195033/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-195033/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 490-195033/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 195081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-67875-32	REW-11-20140922	Total/NA	Water	8260C	
LCS 490-195081/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-195081/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 490-195081/7	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 195227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-67875-27	REW-6-20140922	Total/NA	Water	8260C	
LCS 490-195227/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-195227/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 490-195227/7	Method Blank	Total/NA	Water	8260C	

TestAmerica Buffalo

QC Association Summary

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

TestAmerica Job ID: 480-67875-1

GC/MS Semi VOA

Prep Batch: 77937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-67875-3	MW-261S-20140923	Total/NA	Water	3535A	
480-67875-7	MW-265M-20140923	Total/NA	Water	3535A	
480-67875-9	MW-266Ma-20140920	Total/NA	Water	3535A	
480-67875-11	MW-267S-20140920	Total/NA	Water	3535A	
480-67875-12	MW-267M-20140920	Total/NA	Water	3535A	
480-67875-13	MW-268S-20140923	Total/NA	Water	3535A	
480-67875-14	MW-268M-20140923	Total/NA	Water	3535A	
480-67875-16	MW-269Ma-20140920	Total/NA	Water	3535A	
480-67875-18	MW-552-20140923	Total/NA	Water	3535A	
480-67875-36	DUP3-20140923	Total/NA	Water	3535A	
LCS 200-77937/2-A	Lab Control Sample	Total/NA	Water	3535A	
MB 200-77937/1-A	Method Blank	Total/NA	Water	3535A	

Analysis Batch: 77976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-67875-3	MW-261S-20140923	Total/NA	Water	522 MOD	77937
480-67875-7	MW-265M-20140923	Total/NA	Water	522 MOD	77937
480-67875-9	MW-266Ma-20140920	Total/NA	Water	522 MOD	77937
480-67875-11	MW-267S-20140920	Total/NA	Water	522 MOD	77937
480-67875-12	MW-267M-20140920	Total/NA	Water	522 MOD	77937
480-67875-13	MW-268S-20140923	Total/NA	Water	522 MOD	77937
480-67875-14	MW-268M-20140923	Total/NA	Water	522 MOD	77937
480-67875-16	MW-269Ma-20140920	Total/NA	Water	522 MOD	77937
480-67875-18	MW-552-20140923	Total/NA	Water	522 MOD	77937
480-67875-36	DUP3-20140923	Total/NA	Water	522 MOD	77937
LCS 200-77937/2-A	Lab Control Sample	Total/NA	Water	522 MOD	77937
MB 200-77937/1-A	Method Blank	Total/NA	Water	522 MOD	77937

Lab Chronicle

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: DEP-19M-20140921

Lab Sample ID: 480-67875-1

Date Collected: 09/21/14 09:50

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194457	10/01/14 21:00	MJH	TAL NSH
Total/NA	Analysis	8260C		1	194754	10/02/14 18:59	MJH	TAL NSH

Client Sample ID: DEP-21-20140921

Lab Sample ID: 480-67875-2

Date Collected: 09/21/14 09:00

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194457	10/01/14 21:28	MJH	TAL NSH

Client Sample ID: MW-261S-20140923

Lab Sample ID: 480-67875-3

Date Collected: 09/23/14 07:25

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194457	10/01/14 21:56	MJH	TAL NSH
Total/NA	Prep	3535A			77937	09/29/14 13:02	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	77976	09/30/14 12:01	KHW	TAL BUR

Client Sample ID: MW-263M-20140921

Lab Sample ID: 480-67875-4

Date Collected: 09/21/14 12:20

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194457	10/01/14 22:24	MJH	TAL NSH

Client Sample ID: MW-264M-20140921

Lab Sample ID: 480-67875-5

Date Collected: 09/21/14 11:15

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194754	10/02/14 20:23	MJH	TAL NSH

Client Sample ID: MW-265S-20140920

Lab Sample ID: 480-67875-6

Date Collected: 09/20/14 09:15

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194754	10/02/14 20:51	MJH	TAL NSH

Lab Chronicle

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-265M-20140923

Lab Sample ID: 480-67875-7

Date Collected: 09/23/14 13:40

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194754	10/02/14 21:19	MJH	TAL NSH
Total/NA	Prep	3535A			77937	09/29/14 13:02	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	77976	09/30/14 12:17	KHW	TAL BUR

Client Sample ID: MW-265D-20140920

Lab Sample ID: 480-67875-8

Date Collected: 09/20/14 09:45

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194754	10/02/14 21:47	MJH	TAL NSH

Client Sample ID: MW-266Ma-20140920

Lab Sample ID: 480-67875-9

Date Collected: 09/20/14 10:15

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194754	10/02/14 22:15	MJH	TAL NSH
Total/NA	Prep	3535A			77937	09/29/14 13:02	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	77976	09/30/14 12:33	KHW	TAL BUR

Client Sample ID: MW-266Mb-20140920

Lab Sample ID: 480-67875-10

Date Collected: 09/20/14 10:45

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194946	10/03/14 02:26	MJH	TAL NSH

Client Sample ID: MW-267S-20140920

Lab Sample ID: 480-67875-11

Date Collected: 09/20/14 11:45

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194946	10/03/14 02:54	MJH	TAL NSH
Total/NA	Analysis	8260C		10	195033	10/03/14 14:31	MJH	TAL NSH
Total/NA	Prep	3535A			77937	09/29/14 13:02	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	77976	09/30/14 12:50	KHW	TAL BUR

Lab Chronicle

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-267M-20140920

Lab Sample ID: 480-67875-12

Date Collected: 09/20/14 12:15

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194946	10/03/14 03:22	MJH	TAL NSH
Total/NA	Prep	3535A			77937	09/29/14 13:02	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	77976	09/30/14 13:06	KHW	TAL BUR

Client Sample ID: MW-268S-20140923

Lab Sample ID: 480-67875-13

Date Collected: 09/23/14 10:35

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194946	10/03/14 03:50	MJH	TAL NSH
Total/NA	Prep	3535A			77937	09/29/14 13:02	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	77976	09/30/14 13:22	KHW	TAL BUR

Client Sample ID: MW-268M-20140923

Lab Sample ID: 480-67875-14

Date Collected: 09/23/14 09:40

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194946	10/03/14 04:18	MJH	TAL NSH
Total/NA	Analysis	8260C		20	195033	10/03/14 14:59	MJH	TAL NSH
Total/NA	Prep	3535A			77937	09/29/14 13:02	EAN	TAL BUR
Total/NA	Analysis	522 MOD		2.5	77976	09/30/14 17:45	KHW	TAL BUR

Client Sample ID: MW-268D-20140920

Lab Sample ID: 480-67875-15

Date Collected: 09/20/14 12:55

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194946	10/03/14 04:46	MJH	TAL NSH
Total/NA	Analysis	8260C		1	195033	10/03/14 13:36	MJH	TAL NSH

Client Sample ID: MW-269Ma-20140920

Lab Sample ID: 480-67875-16

Date Collected: 09/20/14 14:00

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194946	10/03/14 05:14	MJH	TAL NSH
Total/NA	Prep	3535A			77937	09/29/14 13:02	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	77976	09/30/14 13:55	KHW	TAL BUR

Lab Chronicle

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-551-20140920

Lab Sample ID: 480-67875-17

Date Collected: 09/20/14 08:40

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194946	10/03/14 05:42	MJH	TAL NSH

Client Sample ID: MW-552-20140923

Lab Sample ID: 480-67875-18

Date Collected: 09/23/14 08:35

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194946	10/03/14 06:10	MJH	TAL NSH
Total/NA	Analysis	8260C		20	195033	10/03/14 15:27	MJH	TAL NSH
Total/NA	Prep	3535A			77937	09/29/14 13:02	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	77976	09/30/14 14:12	KHW	TAL BUR

Client Sample ID: MW-553-20140922

Lab Sample ID: 480-67875-19

Date Collected: 09/22/14 14:10

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194946	10/03/14 06:38	MJH	TAL NSH
Total/NA	Analysis	8260C		1	195033	10/03/14 14:03	MJH	TAL NSH

Client Sample ID: MW-560-20140922

Lab Sample ID: 480-67875-20

Date Collected: 09/22/14 12:10

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194946	10/03/14 07:06	MJH	TAL NSH

Client Sample ID: MW-561-20140922

Lab Sample ID: 480-67875-21

Date Collected: 09/22/14 10:50

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	195016	10/03/14 13:37	EML	TAL NSH
Total/NA	Analysis	8260C		1	194717	10/02/14 17:13	EML	TAL NSH

Client Sample ID: MW-562-20140922

Lab Sample ID: 480-67875-22

Date Collected: 09/22/14 09:40

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194717	10/02/14 17:40	EML	TAL NSH

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: MW-563-20140922

Lab Sample ID: 480-67875-23

Date Collected: 09/22/14 13:00

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194717	10/02/14 18:07	EML	TAL NSH

Client Sample ID: REW-1-20140923

Lab Sample ID: 480-67875-24

Date Collected: 09/23/14 13:40

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194717	10/02/14 18:34	EML	TAL NSH

Client Sample ID: REW-4-20140923

Lab Sample ID: 480-67875-25

Date Collected: 09/23/14 12:35

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194717	10/02/14 19:00	EML	TAL NSH

Client Sample ID: REW-5-20140923

Lab Sample ID: 480-67875-26

Date Collected: 09/23/14 11:25

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194717	10/02/14 19:54	EML	TAL NSH

Client Sample ID: REW-6-20140922

Lab Sample ID: 480-67875-27

Date Collected: 09/22/14 09:50

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194717	10/02/14 19:27	EML	TAL NSH
Total/NA	Analysis	8260C		5	195227	10/04/14 10:06	EML	TAL NSH

Client Sample ID: REW-7-20140922

Lab Sample ID: 480-67875-28

Date Collected: 09/22/14 14:00

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	195016	10/03/14 14:32	EML	TAL NSH
Total/NA	Analysis	8260C		1	194717	10/02/14 20:20	EML	TAL NSH

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: REW-8-20140922

Lab Sample ID: 480-67875-29

Date Collected: 09/22/14 13:15

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194717	10/02/14 20:47	EML	TAL NSH

Client Sample ID: REW-9-20140922

Lab Sample ID: 480-67875-30

Date Collected: 09/22/14 12:35

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194717	10/02/14 21:14	EML	TAL NSH

Client Sample ID: REW-10-20140923

Lab Sample ID: 480-67875-31

Date Collected: 09/23/14 12:15

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194717	10/02/14 21:41	EML	TAL NSH

Client Sample ID: REW-11-20140922

Lab Sample ID: 480-67875-32

Date Collected: 09/22/14 08:15

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194717	10/02/14 22:08	EML	TAL NSH
Total/NA	Analysis	8260C		10	195081	10/03/14 16:58	EML	TAL NSH

Client Sample ID: REW-12-20140922

Lab Sample ID: 480-67875-33

Date Collected: 09/22/14 11:10

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	195016	10/03/14 15:56	EML	TAL NSH
Total/NA	Analysis	8260C		1	194717	10/02/14 22:35	EML	TAL NSH

Client Sample ID: DUP1-20140920

Lab Sample ID: 480-67875-34

Date Collected: 09/20/14 00:00

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194717	10/02/14 23:02	EML	TAL NSH

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-67875-1

Client Sample ID: DUP2-20140922

Lab Sample ID: 480-67875-35

Date Collected: 09/22/14 00:00

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	195016	10/03/14 15:28	EML	TAL NSH
Total/NA	Analysis	8260C		1	194871	10/03/14 03:34	EML	TAL NSH

Client Sample ID: DUP3-20140923

Lab Sample ID: 480-67875-36

Date Collected: 09/23/14 00:00

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194871	10/03/14 04:00	EML	TAL NSH
Total/NA	Prep	3535A			77937	09/29/14 13:02	EAN	TAL BUR
Total/NA	Analysis	522 MOD		1	77976	09/30/14 11:12	KHW	TAL BUR

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-67875-37

Date Collected: 09/23/14 00:00

Matrix: Water

Date Received: 09/24/14 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	194717	10/02/14 14:32	EML	TAL NSH

Laboratory References:

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

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

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

TestAmerica Job ID: 480-67875-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-15
California	State Program	9	1169CA	09-30-14 *
Connecticut	State Program	1	PH-0568	09-30-14 *
Florida	NELAP	4	E87672	06-30-15
Georgia	State Program	4	N/A	03-31-15
Georgia	State Program	4	956	03-31-15
Illinois	NELAP	5	200003	09-30-14 *
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	01-31-15
Kentucky (DW)	State Program	4	90029	12-31-14
Kentucky (UST)	State Program	4	30	03-31-15
Louisiana	NELAP	6	02031	06-30-14 *
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-15
Massachusetts	State Program	1	M-NY044	06-30-15
Michigan	State Program	5	9937	03-31-15
Minnesota	NELAP	5	036-999-337	12-31-14
New Hampshire	NELAP	1	2337	11-17-14
New Jersey	NELAP	2	NY455	06-30-15
New York	NELAP	2	10026	03-31-15
North Dakota	State Program	8	R-176	03-31-14 *
Oklahoma	State Program	6	9421	08-31-15
Oregon	NELAP	10	NY200003	06-09-15
Pennsylvania	NELAP	3	68-00281	07-31-15
Rhode Island	State Program	1	LAO00328	12-30-14
Tennessee	State Program	4	TN02970	03-31-15
Texas	NELAP	6	T104704412-11-2	07-31-15
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-15
Washington	State Program	10	C784	02-10-15
West Virginia DEP	State Program	3	252	09-30-14 *
Wisconsin	State Program	5	998310390	08-31-15

Laboratory: TestAmerica Burlington

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-15
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-13-15
Florida	NELAP	4	E87467	06-30-15
L-A-B	DoD ELAP		L2336	02-26-17
Maine	State Program	1	VT00008	04-17-15
Minnesota	NELAP	5	050-999-436	12-31-14
New Hampshire	NELAP	1	2006	12-18-14
New Jersey	NELAP	2	VT972	06-30-15
New York	NELAP	2	10391	03-31-15
Pennsylvania	NELAP	3	68-00489	04-30-15
Rhode Island	State Program	1	LAO00298	12-30-14
US Fish & Wildlife	Federal		LE-058448-0	02-28-15
USDA	Federal		P330-11-00093	10-28-16

* Certification renewal pending - certification considered valid.

TestAmerica Buffalo

Certification Summary

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

TestAmerica Job ID: 480-67875-1

Laboratory: TestAmerica Burlington (Continued)

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

Authority	Program	EPA Region	Certification ID	Expiration Date
Vermont	State Program	1	VT-4000	12-31-14
Virginia	NELAP	3	460209	12-14-14

Laboratory: TestAmerica Nashville

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-15
A2LA	ISO/IEC 17025		0453.07	12-31-15
Alaska (UST)	State Program	10	UST-087	10-31-14
Arizona	State Program	9	AZ0473	05-05-15
Arkansas DEQ	State Program	6	88-0737	04-25-15
California	NELAP	9	1168CA	10-31-14 *
Connecticut	State Program	1	PH-0220	12-31-15
Florida	NELAP	4	E87358	06-30-15
Illinois	NELAP	5	200010	12-09-14
Iowa	State Program	7	131	04-01-16
Kansas	NELAP	7	E-10229	10-31-14 *
Kentucky (UST)	State Program	4	19	06-30-15
Louisiana	NELAP	6	30613	06-30-15
Maryland	State Program	3	316	03-31-15
Massachusetts	State Program	1	M-TN032	06-30-15
Minnesota	NELAP	5	047-999-345	12-31-14
Mississippi	State Program	4	N/A	06-30-15
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-15
New Hampshire	NELAP	1	2963	10-09-14 *
New Jersey	NELAP	2	TN965	06-30-15
New York	NELAP	2	11342	03-31-15
North Carolina (WW/SW)	State Program	4	387	12-31-14
North Dakota	State Program	8	R-146	06-30-14 *
Ohio VAP	State Program	5	CL0033	10-16-15
Oklahoma	State Program	6	9412	08-31-15
Oregon	NELAP	10	TN200001	04-29-15
Pennsylvania	NELAP	3	68-00585	06-30-15
Rhode Island	State Program	1	LAO00268	12-30-14
South Carolina	State Program	4	84009 (001)	02-28-15
South Carolina (DW)	State Program	4	84009 (002)	02-23-17
Tennessee	State Program	4	2008	02-23-17
Texas	NELAP	6	T104704077	08-31-15
USDA	Federal		S-48469	10-30-16
Utah	NELAP	8	TN00032	07-31-15
Virginia	NELAP	3	460152	06-14-15
Washington	State Program	10	C789	07-19-15
West Virginia DEP	State Program	3	219	02-28-15
Wisconsin	State Program	5	998020430	08-31-15
Wyoming (UST)	A2LA	8	453.07	12-31-15

* Certification renewal pending - certification considered valid.

TestAmerica Buffalo

Method Summary

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

TestAmerica Job ID: 480-67875-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL NSH
522 MOD	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

MA DEP = Massachusetts Department Of Environmental Protection

Laboratory References:

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

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

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Sample Summary

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

TestAmerica Job ID: 480-67875-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-67875-1	DEP-19M-20140921	Water	09/21/14 09:50	09/24/14 01:00
480-67875-2	DEP-21-20140921	Water	09/21/14 09:00	09/24/14 01:00
480-67875-3	MW-261S-20140923	Water	09/23/14 07:25	09/24/14 01:00
480-67875-4	MW-263M-20140921	Water	09/21/14 12:20	09/24/14 01:00
480-67875-5	MW-264M-20140921	Water	09/21/14 11:15	09/24/14 01:00
480-67875-6	MW-265S-20140920	Water	09/20/14 09:15	09/24/14 01:00
480-67875-7	MW-265M-20140923	Water	09/23/14 13:40	09/24/14 01:00
480-67875-8	MW-265D-20140920	Water	09/20/14 09:45	09/24/14 01:00
480-67875-9	MW-266Ma-20140920	Water	09/20/14 10:15	09/24/14 01:00
480-67875-10	MW-266Mb-20140920	Water	09/20/14 10:45	09/24/14 01:00
480-67875-11	MW-267S-20140920	Water	09/20/14 11:45	09/24/14 01:00
480-67875-12	MW-267M-20140920	Water	09/20/14 12:15	09/24/14 01:00
480-67875-13	MW-268S-20140923	Water	09/23/14 10:35	09/24/14 01:00
480-67875-14	MW-268M-20140923	Water	09/23/14 09:40	09/24/14 01:00
480-67875-15	MW-268D-20140920	Water	09/20/14 12:55	09/24/14 01:00
480-67875-16	MW-269Ma-20140920	Water	09/20/14 14:00	09/24/14 01:00
480-67875-17	MW-551-20140920	Water	09/20/14 08:40	09/24/14 01:00
480-67875-18	MW-552-20140923	Water	09/23/14 08:35	09/24/14 01:00
480-67875-19	MW-553-20140922	Water	09/22/14 14:10	09/24/14 01:00
480-67875-20	MW-560-20140922	Water	09/22/14 12:10	09/24/14 01:00
480-67875-21	MW-561-20140922	Water	09/22/14 10:50	09/24/14 01:00
480-67875-22	MW-562-20140922	Water	09/22/14 09:40	09/24/14 01:00
480-67875-23	MW-563-20140922	Water	09/22/14 13:00	09/24/14 01:00
480-67875-24	REW-1-20140923	Water	09/23/14 13:40	09/24/14 01:00
480-67875-25	REW-4-20140923	Water	09/23/14 12:35	09/24/14 01:00
480-67875-26	REW-5-20140923	Water	09/23/14 11:25	09/24/14 01:00
480-67875-27	REW-6-20140922	Water	09/22/14 09:50	09/24/14 01:00
480-67875-28	REW-7-20140922	Water	09/22/14 14:00	09/24/14 01:00
480-67875-29	REW-8-20140922	Water	09/22/14 13:15	09/24/14 01:00
480-67875-30	REW-9-20140922	Water	09/22/14 12:35	09/24/14 01:00
480-67875-31	REW-10-20140923	Water	09/23/14 12:15	09/24/14 01:00
480-67875-32	REW-11-20140922	Water	09/22/14 08:15	09/24/14 01:00
480-67875-33	REW-12-20140922	Water	09/22/14 11:10	09/24/14 01:00
480-67875-34	DUP1-20140920	Water	09/20/14 00:00	09/24/14 01:00
480-67875-35	DUP2-20140922	Water	09/22/14 00:00	09/24/14 01:00
480-67875-36	DUP3-20140923	Water	09/23/14 00:00	09/24/14 01:00
480-67875-37	TRIP BLANKS	Water	09/23/14 00:00	09/24/14 01:00

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-67875-1

Login Number: 67875

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	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	innovative eng.
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-67875-1

Login Number: 67875

List Number: 5

Creator: Atherton, Joel E

List Source: TestAmerica Burlington

List Creation: 09/26/14 02:03 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	317008
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0°C IR GUN 181 CF= -0.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-67875-1

Login Number: 67875

List Number: 2

Creator: McBride, Mike

List Source: TestAmerica Nashville

List Creation: 09/25/14 12:54 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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 containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
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").	False	Headspace larger than 1/4" in one or more vials, one vial with acct. headspace
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-67875-1

Login Number: 67875

List Number: 3

Creator: McBride, Mike

List Source: TestAmerica Nashville

List Creation: 09/25/14 12:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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 containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	False	Headspace larger than 1/4" in one or more vials, one vial with acct. headspace
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____
 Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client: **Innovative Engineering Solutions Inc**
 Address: **25 Spaulding St, Woburn, MA 02081**
 Project Name and Location (State): **RA-008 | Woburn, MA**
 Contract/Purchase Order/Quote No.: **RA-008**

Project Manager: **Wicki Peavinos**
 Telephone Number (Area Code)/Fax Number: **508-668-0033 / 508-668-5175**
 Site Contact: **Dustin Jozko**
 Carrier/Waybill Number: _____

Chain of Custody Number: **279431**
 Page **1** of **4**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Special Instructions/ Conditions of Receipt		
			Air	Soil	Ag aqueous	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
DEP-19M - 20140921	9/21/14	0950	X												
DEP-21 - 20140921	9/21/14	0900	X												
MW-26J5 - 20140923	9/23/14	0725	X												
MW-263M - 20140921	9/21/14	1220	X												
MW-264M - 20140921	9/21/14	1115	X												
MW-265J - 20140920	9/20/14	0915	X												
MW-265M - 20140923	9/23/14	1340	X												
MW-265D - 20140920	9/20/14	0945	X												
MW-266M - 20140920	9/20/14	1015	X												
MW-266M16 - 20140920	9/20/14	1045	X												
MW-267J - 20140920	9/20/14	1145	X												
MW-267M - 20140920	9/20/14	1215	X												



Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Other

Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other

Sample Disposal:
 Return To Client Disposal By Lab Archive For _____ Months

(A fee may be assessed if samples are retained longer than 1 month)

QC Requirements (Specify): _____

1. Relinquished By: **[Signature]** Date: **9/23/14** Time: **1540**
 2. Relinquished By: **[Signature]** Date: **9/23/14** Time: **1600**
 3. Relinquished By: _____ Date: _____ Time: _____

Received By: **[Signature]** Date: **9/23/14** Time: **1555**
 Received By: **[Signature]** Date: **09/24/14** Time: **0100**
 Received By: _____ Date: _____ Time: _____

Comments: **Temp 3, 2, 4.0#1**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____
 Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client: **Innovative Engineering Solutions Inc**
 Address: **25 Spauld ST, Woburn, MA 02081**
 City: **Woburn, MA** State: **MA** Zip Code: **02081**
 Project Name and Location (State): **RA-008 (Woburn, MA)**
 Contract/Purchase Order/Quote No.: **RA-008**

Project Manager: **Vicki Peabody**
 Telephone Number (Area Code)/Fax Number: **508-668-0037 / 508-668-5175**
 Site Contact: **Dennis Souza**
 Carrier/Waybill Number: _____

Chain of Custody Number: **279433**
 Page **2** of **4**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Date	Lab Number	
			Air	Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc			H2O2
MW-2685 - 20140923	9/23/14	1035	X												
MW-2686 - 20140923	9/23/14	0940	X												
MW-2687 - 20140920	9/20/14	1255	X												
MW-2688 - 20140920	9/20/14	1400	X												
MW-531 - 20140920	9/20/14	0840	X												
MW-552 - 20140923	9/23/14	0835	X												
MW-553 - 20140922	9/22/14	1410	X												
MW-560 - 20140922	9/22/14	1210	X												
MW-561 - 20140922	9/22/14	1050	X												
MW-562 - 20140922	9/22/14	0940	X												
MW-563 - 20140922	9/22/14	1300	X												
RAW-1 - 20140923	9/23/14	1340	X												

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other
 Turn Around Time Required

Disposal By Lab Archive For _____ Months _____ (A fee may be assessed if samples are retained longer than 1 month)
 QC Requirements (Specify): _____

1. Relinquished By: *[Signature]* Date: 9/23/14 Time: 1540
 2. Relinquished By: *[Signature]* Date: 9/23/14 Time: 1600
 3. Relinquished By: _____ Date: _____ Time: _____

Special Instructions/Conditions of Receipt: _____

Comments: **Temp 3.24.0#1**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____
 Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client Environmental Engineering Solutions Inc		Project Manager Wicki Paganon		Chain of Custody Number 279432	
Address 25 Spring St		Telephone Number (Area Code)/Fax Number 508-648-0033 / 508-648-5175		Date Lab Number	
City Woburn		Site Contact Dennis Soles		Page 3 of 4	
State MA		Zip Code 02081		Analysis (Attach list if more space is needed)	
Project Name and Location (State) RA-008 Woburn MA		Carrier/Waybill Number		Special Instructions/ Conditions of Receipt	
Contract/Purchase Order/Quote No. RA-008					

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Archive For				
			Air	Aqueous	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Months					
REW-4-20140923	9/23/14	1235	X														
REW-5-20140923	9/23/14	1125	X														
REW-6-20140922	9/22/14	0950	X														
REW-7-20140922	9/22/14	1400	X														
REW-8-20140922	9/22/14	1315	X														
REW-9-20140922	9/22/14	1235	X														
REW-10-20140923	9/23/14	1215	X														
REW-11-20140922	9/22/14	0815	X														
REW-12-20140922	9/22/14	1110	X														
Dupa-20140920	9/20/14	-	X														
Dupa-20140922	9/22/14	-	X														
Dup3-20140923	9/23/14	-	X														

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

QC Requirements (Specify)

1. Relinquished By <i>[Signature]</i>	Date 9/23/14	Time 1540
2. Relinquished By <i>[Signature]</i>	Date 9/23/14	Time 1600
3. Relinquished By <i>[Signature]</i>	Date 9/23/14	Time 1555

Received By: *[Signature]*
 Received By: *[Signature]*
 Received By: *[Signature]*

Comments



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____
 Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client: **Environmental Engineering Solutions Inc**
 Address: **25 Spades St, Woburn, MA 02081**
 City: **Woburn** State: **MA** Zip Code: **02081**
 Project Name and Location (State): **AA-008 | Woburn MA**
 Contract/Purchase Order/Quote No.: **AA-008**

Project Manager: **Vicki Poole**
 Telephone Number (Area Code)/Fax Number: **508-618-0033 / 508-618-5195**
 Site Contact: **Doug Jones** Lab Contact: _____
 Carrier/Waybill Number: _____


Chain of Custody Number: **279964**
 Page: **4** of **4**


Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Matrix					Containers & Preservatives					Special Instructions/ Conditions of Receipt	
		Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		
1 Trip Blanks	01	X											

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Other _____


Sample Disposal
 Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

1. Relinquished By:  Date: **9/23/14** Time: **1540**

2. Relinquished By:  Date: **9/23/14** Time: **1602**

3. Relinquished By: _____ Date: _____ Time: _____

QC Requirements (Specify)
 1. Received By:  Date: **9/23/14** Time: **1555**
 2. Received By: **Wankow TA** Date: **09/24/14** Time: **0600**
 3. Received By: _____ Date: _____ Time: _____

Comments: _____



Report Date:
25-Jul-14 16:37



- Final Report
 Re-Issued Report
 Revised Report

Laboratory Report

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole, MA 02081

Work Order: N1209
Project : Raytheon - Wayland
Project #:

Attn: Sami Fam

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
N1209-01	MW-267S-20140713	Aqueous	13-Jul-14 17:25	15-Jul-14 11:15
N1209-02	MW-267M-20140713	Aqueous	13-Jul-14 16:40	15-Jul-14 11:15
N1209-03	MW-268M-20140713	Aqueous	13-Jul-14 15:45	15-Jul-14 11:15
N1209-04	MW-553-20140713	Aqueous	13-Jul-14 14:55	15-Jul-14 11:15
N1209-05	MW-560-20140713	Aqueous	13-Jul-14 14:10	15-Jul-14 11:15
N1209-06	MW-561-20140713	Aqueous	13-Jul-14 13:25	15-Jul-14 11:15
N1209-07	REW-6-20140714	Aqueous	14-Jul-14 09:30	15-Jul-14 11:15
N1209-08	REW-7-20140714	Aqueous	14-Jul-14 09:00	15-Jul-14 11:15
N1209-09	REW-8-20140714	Aqueous	14-Jul-14 08:30	15-Jul-14 11:15
N1209-10	REW-9-20140714	Aqueous	14-Jul-14 07:50	15-Jul-14 11:15
N1209-11	REW-11-20140714	Aqueous	14-Jul-14 10:10	15-Jul-14 11:15
N1209-12	REW-12-20140714	Aqueous	14-Jul-14 07:05	15-Jul-14 11:15
N1209-13	DUP-20140714	Aqueous	14-Jul-14 00:00	15-Jul-14 11:15
N1209-14	TRIP BLANK	Aqueous	14-Jul-14 00:00	15-Jul-14 11:15

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the sample(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirements have been met.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033



Authorized by:

Yihai Ding
Laboratory Director

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Innovative Engineering Solutions, Inc.

Project: Raytheon - Wayland

Laboratory Workorder / SDG #: N1209

RSK175, Dissolved Gases by GC-FID

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
RSK175

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030B

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: V7

Instrument Type: GC-FID

Description: HP5890 II
Manufacturer: Hewlett-Packard
Model: 5890
GC Column used: 30 m X 0.53 mm ID [um thickness] CARBOXEM 1006
capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

N/A.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

NA.

F. Dilutions:

The following samples were analyzed at dilution:

MW-267S-20140713 (N1209-01ADL) : Dilution Factor: 25
MW-267M-20140713 (N1209-02ADL) : Dilution Factor: 50
MW-553-20140713 (N1209-04ADL) : Dilution Factor: 50
MW-560-20140713 (N1209-05ADL) : Dilution Factor: 50
MW-561-20140713 (N1209-06ADL) : Dilution Factor: 50
REW-6-20140714 (N1209-07ADL) : Dilution Factor: 50
REW-7-20140714 (N1209-08ADL) : Dilution Factor: 25
REW-8-20140714 (N1209-09ADL) : Dilution Factor: 50

REW-9-20140714 (N1209-10ADL) : Dilution Factor: 25
REW-11-20140714 (N1209-11ADL) : Dilution Factor: 10
REW-12-20140714 (N1209-12ADL) : Dilution Factor: 10
DUP-20140714 (N1209-13ADL) : Dilution Factor: 20

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.



Signed: _____

Date: _____ 7/25/2014 _____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Innovative Engineering Solutions, Inc.

Project: Raytheon - Wayland

Laboratory Workorder / SDG #: N1209

EPA 300.0, SM 2320B, SM 4500 H+ B,
SM 4500P-E OP, SM 5310B TOC

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times with the following exceptions:

MW-268M-20140713 (N1209-03D) exceed by-1 Days
MW-553-20140713 (N1209-04D) exceed by-2 Days
MW-560-20140713 (N1209-05D) exceed by-2 Days
MW-561-20140713 (N1209-06D) exceed by-3 Days

These samples were received past the method-specified 48 hour holding time for Ortho Phosphate analysis. Samples were analyzed ASAP on the day of arrival at the laboratory.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times with the same exception as above.

III. METHODS

Samples were analyzed following procedures in laboratory test codes: EPA 300.0, SM 2320B, SM 4500 H+ B, SM 4500P-E OP, SM 5310B TOC

IV. PREPARATION

Samples were prepared following procedures in laboratory test codes: EPA 300.0, SM 2320B, SM 4500 H+ B, SM 4500P-E OP, SM 5310B TOC

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: IC1
Instrument Type: IC
Description: DX-500
Manufacturer: Dionex
Model: DX-500
GC Column used: 0.25 m X 4 mm ID [um thickness] AS14A-7 capillary column.

Instrument Code: SPEC2
Instrument Type: SP
Description: Spectronic 20 Genesys
Manufacturer: Spectronic Instruments
Model: 4004-000

Instrument Code: TOC1
Instrument Type: TOC
Description: TOC
Manufacturer: Tekmar Dohrman
Model: Apollo 9000

Instrument Code: WC03
Instrument Type: Probe
Description: pH Meter
Manufacturer: Oakton Instruments
Model: Bench 2700 Series

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: MW-267S-20140713 (N1209-01CMS) and MW-267S-20140713 (N1209-01CMSD).

Percent recoveries were within the QC limits. Replicate RPDs were within

the advisory QC limits.

D. Duplicate sample:

Duplicate analyses were performed on sample: DUP-20140714 (N1209-13CDUP).

Relative percent differences were within the QC limits.

E. Dilutions:

The following samples were analyzed at dilution:

MW-267S-20140713 (N1209-01B), dilution factor: 3 for Organic Carbon, Total

MW-267M-20140713 (N1209-02D), dilution factor: 2 for Orthophosphate (As PO₄)

MW-561-20140713 (N1209-06B), dilution factor: 2 for Organic Carbon, Total

F. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:  _____

Date: 07/25/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-267S-20140713

Lab ID: N1209-01

Project: Raytheon - Wayland

Collection Date: 07/13/14 17:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	14000	E	0.60	µg/L		1 07/21/2014 8:49	78156
Ethane		ND	1.2	µg/L		1 07/21/2014 8:49	78156
Ethene		1.8	1.5	µg/L		1 07/21/2014 8:49	78156

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-267S-20140713

Lab ID: N1209-01

Project: Raytheon - Wayland

Collection Date: 07/13/14 17:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	25000		15	µg/L		25 07/21/2014 13:42	78156
Ethane	ND		31	µg/L		25 07/21/2014 13:42	78156
Ethene	ND		39	µg/L		25 07/21/2014 13:42	78156

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-267M-20140713

Lab ID: N1209-02

Project: Raytheon - Wayland

Collection Date: 07/13/14 16:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	25000	E	0.60	µg/L		1 07/21/2014 8:57	78156
Ethane		ND	1.2	µg/L		1 07/21/2014 8:57	78156
Ethene		1.9	1.5	µg/L		1 07/21/2014 8:57	78156

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-267M-20140713

Lab ID: N1209-02

Project: Raytheon - Wayland

Collection Date: 07/13/14 16:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	33000		30	µg/L		50 07/21/2014 14:43	78156
Ethane	ND		62	µg/L		50 07/21/2014 14:43	78156
Ethene	ND		77	µg/L		50 07/21/2014 14:43	78156

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-268M-20140713

Lab ID: N1209-03

Project: Raytheon - Wayland

Collection Date: 07/13/14 15:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	480		0.60	µg/L		1 07/21/2014 9:06	78156
Ethane	4.8		1.2	µg/L		1 07/21/2014 9:06	78156
Ethene	13		1.5	µg/L		1 07/21/2014 9:06	78156

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-553-20140713

Lab ID: N1209-04

Project: Raytheon - Wayland

Collection Date: 07/13/14 14:55

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	20000 E	0.61 µg/L	1 07/21/2014 9:13	78156
Ethane	3.5	1.3 µg/L	1 07/21/2014 9:13	78156
Ethene	5.1	1.6 µg/L	1 07/21/2014 9:13	78156

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-553-20140713

Lab ID: N1209-04

Project: Raytheon - Wayland

Collection Date: 07/13/14 14:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	44000		31	µg/L		50 07/21/2014 14:54	78156
Ethane		ND	63	µg/L		50 07/21/2014 14:54	78156
Ethene		ND	79	µg/L		50 07/21/2014 14:54	78156

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-560-20140713

Lab ID: N1209-05

Project: Raytheon - Wayland

Collection Date: 07/13/14 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	14000	E	0.60	µg/L		1 07/21/2014 9:24	78156
Ethane	ND		1.2	µg/L		1 07/21/2014 9:24	78156
Ethene	2.9		1.5	µg/L		1 07/21/2014 9:24	78156

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-560-20140713

Lab ID: N1209-05

Project: Raytheon - Wayland

Collection Date: 07/13/14 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	33000		30	µg/L		50 07/23/2014 12:59	78213
Ethane	ND		62	µg/L		50 07/23/2014 12:59	78213
Ethene	ND		77	µg/L		50 07/23/2014 12:59	78213

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-561-20140713

Lab ID: N1209-06

Project: Raytheon - Wayland

Collection Date: 07/13/14 13:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	21000	E	0.60	µg/L		1 07/21/2014 9:33	78156
Ethane	1.2		1.2	µg/L		1 07/21/2014 9:33	78156
Ethene	19		1.5	µg/L		1 07/21/2014 9:33	78156

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-561-20140713

Lab ID: N1209-06

Project: Raytheon - Wayland

Collection Date: 07/13/14 13:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	45000		30	µg/L		50 07/23/2014 13:07	78213
Ethane	ND		62	µg/L		50 07/23/2014 13:07	78213
Ethene	ND		77	µg/L		50 07/23/2014 13:07	78213

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-6-20140714

Lab ID: N1209-07

Project: Raytheon - Wayland

Collection Date: 07/14/14 9:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	15000	E	0.60	µg/L		1 07/21/2014 9:42	78156
Ethane		ND	1.2	µg/L		1 07/21/2014 9:42	78156
Ethene		1.5	1.5	µg/L		1 07/21/2014 9:42	78156

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-6-20140714

Lab ID: N1209-07

Project: Raytheon - Wayland

Collection Date: 07/14/14 9:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	35000		30	µg/L		50 07/23/2014 13:18	78213
Ethane	ND		62	µg/L		50 07/23/2014 13:18	78213
Ethene	ND		77	µg/L		50 07/23/2014 13:18	78213

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-7-20140714

Lab ID: N1209-08

Project: Raytheon - Wayland

Collection Date: 07/14/14 9:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	8500 E	0.60 µg/L	1 07/21/2014 9:51	78156
Ethane	16	1.2 µg/L	1 07/21/2014 9:51	78156
Ethene	40	1.5 µg/L	1 07/21/2014 9:51	78156

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-7-20140714

Lab ID: N1209-08

Project: Raytheon - Wayland

Collection Date: 07/14/14 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	20000		15	µg/L		25 07/23/2014 13:27	78213
Ethane	44		31	µg/L		25 07/23/2014 13:27	78213
Ethene	79		39	µg/L		25 07/23/2014 13:27	78213

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-8-20140714

Lab ID: N1209-09

Project: Raytheon - Wayland

Collection Date: 07/14/14 8:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	16000	E	0.60	µg/L		1 07/21/2014 9:58	78156
Ethane	5.9		1.2	µg/L		1 07/21/2014 9:58	78156
Ethene	16		1.5	µg/L		1 07/21/2014 9:58	78156

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-8-20140714

Lab ID: N1209-09

Project: Raytheon - Wayland

Collection Date: 07/14/14 8:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	34000		30	µg/L		50 07/23/2014 13:43	78213
Ethane		ND	62	µg/L		50 07/23/2014 13:43	78213
Ethene		ND	77	µg/L		50 07/23/2014 13:43	78213

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-9-20140714

Lab ID: N1209-10

Project: Raytheon - Wayland

Collection Date: 07/14/14 7:50

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	17000 E	0.60 µg/L	1 07/21/2014 10:10	78156
Ethane	ND	1.2 µg/L	1 07/21/2014 10:10	78156
Ethene	2.8	1.5 µg/L	1 07/21/2014 10:10	78156

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-9-20140714

Lab ID: N1209-10

Project: Raytheon - Wayland

Collection Date: 07/14/14 7:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	22000		15	µg/L		25 07/25/2014 8:41	78253
Ethane		ND	31	µg/L		25 07/25/2014 8:41	78253
Ethene		ND	39	µg/L		25 07/25/2014 8:41	78253

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-11-20140714

Lab ID: N1209-11

Project: Raytheon - Wayland

Collection Date: 07/14/14 10:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	5000	E	0.60	µg/L		1 07/23/2014 11:42	78213
Ethane	ND		1.2	µg/L		1 07/23/2014 11:42	78213
Ethene	15		1.5	µg/L		1 07/23/2014 11:42	78213

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-11-20140714

Lab ID: N1209-11

Project: Raytheon - Wayland

Collection Date: 07/14/14 10:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	5000		6.0	µg/L		10 07/25/2014 8:56	78253
Ethane	ND		12	µg/L		10 07/25/2014 8:56	78253
Ethene	ND		15	µg/L		10 07/25/2014 8:56	78253

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-12-20140714

Lab ID: N1209-12

Project: Raytheon - Wayland

Collection Date: 07/14/14 7:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	12000	E	0.61	µg/L		1 07/23/2014 11:49	78213
Ethane	2.9		1.3	µg/L		1 07/23/2014 11:49	78213
Ethene	21		1.6	µg/L		1 07/23/2014 11:49	78213

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-12-20140714

Lab ID: N1209-12

Project: Raytheon - Wayland

Collection Date: 07/14/14 7:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	11000		6.1	µg/L		10 07/25/2014 9:14	78253
Ethane		ND	13	µg/L		10 07/25/2014 9:14	78253
Ethene		19	16	µg/L		10 07/25/2014 9:14	78253

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: DUP-20140714

Lab ID: N1209-13

Project: Raytheon - Wayland

Collection Date: 07/14/14 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	5100	E	0.61	µg/L		1 07/23/2014 11:57	78213
Ethane	ND		1.3	µg/L		1 07/23/2014 11:57	78213
Ethene	15		1.6	µg/L		1 07/23/2014 11:57	78213

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: DUP-20140714

Lab ID: N1209-13

Project: Raytheon - Wayland

Collection Date: 07/14/14 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	11000		12	µg/L		20 07/25/2014 9:31	78253
Ethane	ND		25	µg/L		20 07/25/2014 9:31	78253
Ethene	32		32	µg/L		20 07/25/2014 9:31	78253

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: TRIP BLANK

Lab ID: N1209-14

Project: Raytheon - Wayland

Collection Date: 07/14/14 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane		11	0.60	µg/L		1 07/23/2014 12:04	78213
Ethane		ND	1.2	µg/L		1 07/23/2014 12:04	78213
Ethene		ND	1.5	µg/L		1 07/23/2014 12:04	78213

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
 Work Order: N1209
 Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT
RSK175
RSK175 -- Dissolved Gases by GC-FID

Sample ID: MB-78156	SampType: MBLK	TestCode: RSK175	Prep Date: 07/21/14 8:00	Run ID: V7_140721A							
Client ID: MB-78156	Batch ID: 78156	Units: µg/L	Analysis Date: 07/21/14 8:28	SeqNo: 2125341							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.37					0.61				
Ethane	ND	0.53					1.3				
Ethene	ND	0.73					1.6				

Sample ID: MB-78213	SampType: MBLK	TestCode: RSK175	Prep Date: 07/23/14 10:20	Run ID: V7_140723A							
Client ID: MB-78213	Batch ID: 78213	Units: µg/L	Analysis Date: 07/23/14 11:33	SeqNo: 2124323							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.35					0.58				
Ethane	ND	0.50					1.2				
Ethene	ND	0.69					1.5				

Sample ID: MB-78253	SampType: MBLK	TestCode: RSK175	Prep Date: 07/25/14 7:00	Run ID: V7_140725A							
Client ID: MB-78253	Batch ID: 78253	Units: µg/L	Analysis Date: 07/25/14 7:29	SeqNo: 2125461							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.36					0.60				
Ethane	ND	0.51					1.2				
Ethene	ND	0.71					1.5				

Sample ID: LCS-78156	SampType: LCS	TestCode: RSK175	Prep Date: 07/21/14 8:00	Run ID: V7_140721A							
Client ID: LCS-78156	Batch ID: 78156	Units: µg/L	Analysis Date: 07/21/14 8:00	SeqNo: 2125339							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	42.04	0.36	46.29	0	90.8	75	125	0			
Ethane	84.48	0.51	87.43	0	96.6	75	125	0			
Ethene	99.49	0.71	81.26	0	122	75	125	0			

Sample ID: LCS-78213	SampType: LCS	TestCode: RSK175	Prep Date: 07/23/14 10:20	Run ID: V7_140723A							
Client ID: LCS-78213	Batch ID: 78213	Units: µg/L	Analysis Date: 07/23/14 10:21	SeqNo: 2124321							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	50.43	0.35	45.00	0	112	75	125	0			
Ethane	79.82	0.50	85.00	0	93.9	75	125	0			
Ethene	68.51	0.69	79.00	0	86.7	75	125	0			

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: N1209
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT
RSK175
RSK175 -- Dissolved Gases by GC-FID

Sample ID:	LCS-78253	SampType:	LCS	TestCode:	RSK175	Prep Date:	07/25/14 7:00	Run ID:	V7_140725A			
Client ID:	LCS-78253	Batch ID:	78253	Units:	µg/L	Analysis Date:	07/25/14 7:13	SeqNo:	2125459			
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	40.97	0.36	0.60	46.29	0	88.5	75	125	0			
Ethane	86.99	0.51	1.2	87.43	0	99.5	75	125	0			
Ethene	99.93	0.71	1.5	81.26	0	123	75	125	0			

Sample ID:	LCSD-78156	SampType:	LCSD	TestCode:	RSK175	Prep Date:	07/21/14 8:00	Run ID:	V7_140721A			
Client ID:	LCSD-78156	Batch ID:	78156	Units:	µg/L	Analysis Date:	07/21/14 8:14	SeqNo:	2125340			
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	37.29	0.37	0.61	47.57	0	78.4	75	125	42.04	12	30	
Ethane	67.45	0.53	1.3	89.86	0	75.1	75	125	84.48	22.4	30	
Ethene	86.26	0.73	1.6	83.51	0	103	75	125	99.49	14.2	30	

Sample ID:	LCSD-78213	SampType:	LCSD	TestCode:	RSK175	Prep Date:	07/23/14 10:20	Run ID:	V7_140723A			
Client ID:	LCSD-78213	Batch ID:	78213	Units:	µg/L	Analysis Date:	07/23/14 10:31	SeqNo:	2124322			
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	48.10	0.35	0.58	45.00	0	107	75	125	50.43	4.74	30	
Ethane	76.60	0.50	1.2	85.00	0	90.1	75	125	79.82	4.11	30	
Ethene	65.41	0.69	1.5	79.00	0	82.8	75	125	68.51	4.62	30	

Sample ID:	LCSD-78253	SampType:	LCSD	TestCode:	RSK175	Prep Date:	07/25/14 7:00	Run ID:	V7_140725A			
Client ID:	LCSD-78253	Batch ID:	78253	Units:	µg/L	Analysis Date:	07/25/14 7:21	SeqNo:	2125460			
Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	37.56	0.36	0.60	46.29	0	81.1	75	125	40.97	8.69	30	
Ethane	74.71	0.51	1.2	87.43	0	85.5	75	125	86.99	15.2	30	
Ethene	93.50	0.71	1.5	81.26	0	115	75	125	99.93	6.65	30	

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

07/25/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-267S-20140713

Lab ID: N1209-01

Project: Raytheon - Wayland

Collection Date: 07/13/14 17:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	39		2.0	mg/L		1 07/15/2014 13:25	78087
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 07/15/2014 13:25	78087
Sulfate	0.57	J	5.0	mg/L		1 07/15/2014 13:25	78087
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	340		20	mg/L CaCO3		1 07/16/2014 14:22	78105
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	5.9		1.0	S.U.		1 07/15/2014 13:00	R82946
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.59		0.050	mg/L		1 07/15/2014 16:11	78089
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	960		30	mg/L		3 07/25/2014 11:57	78244

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

07/25/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-267M-20140713

Lab ID: N1209-02

Project: Raytheon - Wayland

Collection Date: 07/13/14 16:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	30			2.0 mg/L		1 07/15/2014 14:00	78087
Nitrogen, Nitrate (As N)	ND			0.13 mg/L		1 07/15/2014 14:00	78087
Sulfate	0.34	J		5.0 mg/L		1 07/15/2014 14:00	78087
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	580			20 mg/L CaCO3		1 07/16/2014 14:30	78105
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.3			1.0 S.U.		1 07/15/2014 13:04	R82946
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.29			0.10 mg/L		2 07/15/2014 16:15	78089
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	310			10 mg/L		1 07/24/2014 17:23	78229

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

07/25/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-268M-20140713

Lab ID: N1209-03

Project: Raytheon - Wayland

Collection Date: 07/13/14 15:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	28		2.0	mg/L		1 07/15/2014 14:12	78087
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 07/15/2014 14:12	78087
Sulfate	2.6	J	5.0	mg/L		1 07/15/2014 14:12	78087
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	330		20	mg/L CaCO3		1 07/16/2014 14:37	78105
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.3		1.0	S.U.		1 07/15/2014 13:08	R82946
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.42		0.050	mg/L		1 07/15/2014 16:18	78089
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	240		10	mg/L		1 07/24/2014 17:44	78229

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

07/25/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-553-20140713

Lab ID: N1209-04

Project: Raytheon - Wayland

Collection Date: 07/13/14 14:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Anions by Ion Chromatography (LOW)							E300IC_W
Chloride	39		2.0	mg/L		1 07/15/2014 14:24	78087
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 07/15/2014 14:24	78087
Sulfate	0.27	J	5.0	mg/L		1 07/15/2014 14:24	78087
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	440		20	mg/L CaCO3		1 07/16/2014 14:45	78105
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.4		1.0	S.U.		1 07/15/2014 13:12	R82946
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.35		0.050	mg/L		1 07/15/2014 16:22	78089
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	270		10	mg/L		1 07/24/2014 18:45	78229

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

07/25/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-560-20140713

Lab ID: N1209-05

Project: Raytheon - Wayland

Collection Date: 07/13/14 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Anions by Ion Chromatography (LOW)							E300IC_W
Chloride	24		2.0	mg/L		1 07/15/2014 14:35	78087
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 07/15/2014 14:35	78087
Sulfate	0.46	J	5.0	mg/L		1 07/15/2014 14:35	78087
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	580		20	mg/L CaCO3		1 07/16/2014 14:52	78105
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.2		1.0	S.U.		1 07/15/2014 13:17	R82946
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.34		0.050	mg/L		1 07/15/2014 16:26	78089
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	380		10	mg/L		1 07/24/2014 19:06	78229

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

07/25/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-561-20140713

Lab ID: N1209-06

Project: Raytheon - Wayland

Collection Date: 07/13/14 13:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	33		2.0	mg/L		1 07/15/2014 15:10	78087
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 07/15/2014 15:10	78087
Sulfate	0.36	J	5.0	mg/L		1 07/15/2014 15:10	78087
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	410		20	mg/L CaCO3		1 07/16/2014 15:00	78105
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	5.7		1.0	S.U.		1 07/15/2014 13:21	R82946
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.55		0.050	mg/L		1 07/15/2014 16:30	78089
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	690		20	mg/L		2 07/25/2014 12:19	78244

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

07/25/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-6-20140714

Lab ID: N1209-07

Project: Raytheon - Wayland

Collection Date: 07/14/14 9:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Anions by Ion Chromatography (LOW)							E300IC_W
Chloride	37		2.0	mg/L		1 07/15/2014 15:22	78087
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 07/15/2014 15:22	78087
Sulfate	11		5.0	mg/L		1 07/15/2014 15:22	78087
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	360		20	mg/L CaCO3		1 07/16/2014 15:07	78105
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.4		1.0	S.U.		1 07/15/2014 13:25	R82946
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.33		0.050	mg/L		1 07/15/2014 16:33	78089
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	360		10	mg/L		1 07/24/2014 19:48	78229

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

07/25/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-7-20140714

Lab ID: N1209-08

Project: Raytheon - Wayland

Collection Date: 07/14/14 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Anions by Ion Chromatography (LOW)							E300IC_W
Chloride	19		2.0	mg/L		1 07/15/2014 15:34	78087
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 07/15/2014 15:34	78087
Sulfate	16		5.0	mg/L		1 07/15/2014 15:34	78087
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	160		20	mg/L CaCO3		1 07/16/2014 15:15	78105
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.7		1.0	S.U.		1 07/15/2014 13:29	R82946
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.52		0.050	mg/L		1 07/15/2014 16:37	78089
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	110		10	mg/L		1 07/24/2014 20:08	78229

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

07/25/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-8-20140714

Lab ID: N1209-09

Project: Raytheon - Wayland

Collection Date: 07/14/14 8:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	31		2.0	mg/L		1 07/15/2014 15:46	78087
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 07/15/2014 15:46	78087
Sulfate	13		5.0	mg/L		1 07/15/2014 15:46	78087
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	250		20	mg/L CaCO3		1 07/16/2014 15:22	78105
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.6		1.0	S.U.		1 07/15/2014 13:34	R82946
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.44		0.050	mg/L		1 07/15/2014 16:41	78089
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	150		10	mg/L		1 07/24/2014 20:29	78229

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

07/25/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-9-20140714

Lab ID: N1209-10

Project: Raytheon - Wayland

Collection Date: 07/14/14 7:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Anions by Ion Chromatography (LOW)							E300IC_W
Chloride	21		2.0	mg/L		1 07/15/2014 15:57	78087
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 07/15/2014 15:57	78087
Sulfate	13		5.0	mg/L		1 07/15/2014 15:57	78087
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	300		20	mg/L CaCO3		1 07/16/2014 15:30	78105
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.5		1.0	S.U.		1 07/15/2014 13:38	R82946
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.78		0.050	mg/L		1 07/15/2014 16:45	78089
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	260		10	mg/L		1 07/24/2014 20:50	78229

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

07/25/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-11-20140714

Lab ID: N1209-11

Project: Raytheon - Wayland

Collection Date: 07/14/14 10:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Anions by Ion Chromatography (LOW)							E300IC_W
Chloride	21		2.0	mg/L		1 07/15/2014 16:09	78087
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 07/15/2014 16:09	78087
Sulfate	27		5.0	mg/L		1 07/15/2014 16:09	78087
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	130		20	mg/L CaCO3		1 07/16/2014 15:37	78105
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.6		1.0	S.U.		1 07/15/2014 13:42	R82946
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.39		0.050	mg/L		1 07/15/2014 16:48	78089
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	130		10	mg/L		1 07/24/2014 22:35	78230

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

07/25/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-12-20140714

Lab ID: N1209-12

Project: Raytheon - Wayland

Collection Date: 07/14/14 7:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	33		2.0	mg/L		1 07/15/2014 16:21	78087
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 07/15/2014 16:21	78087
Sulfate	31		5.0	mg/L		1 07/15/2014 16:21	78087
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	180		20	mg/L CaCO3		1 07/16/2014 15:45	78105
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.7		1.0	S.U.		1 07/15/2014 13:47	R82946
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.27		0.050	mg/L		1 07/15/2014 16:52	78089
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	71		10	mg/L		1 07/24/2014 22:56	78230

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

07/25/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: DUP-20140714

Lab ID: N1209-13

Project: Raytheon - Wayland

Collection Date: 07/14/14 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 -- Anions by Ion Chromatography (LOW)							E300IC_W
Chloride	21		2.0	mg/L		1 07/15/2014 16:33	78087
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 07/15/2014 16:33	78087
Sulfate	27		5.0	mg/L		1 07/15/2014 16:33	78087
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	100		20	mg/L CaCO3		1 07/16/2014 15:52	78105
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.7		1.0	S.U.		1 07/15/2014 13:51	R82946
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.51		0.050	mg/L		1 07/15/2014 16:56	78089
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	140		10	mg/L		1 07/24/2014 23:17	78230

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N1209

E300IC_W

Project: Raytheon - Wayland

EPA 300.0 -- Anions by Ion Chromotography (LOW)

Sample ID: MB-78087	SampType: MBLK	TestCode: E300IC_W	Prep Date: 07/15/14 12:00	Run ID: IC1_140715A							
Client ID: MB-78087	Batch ID: 78087	Units: mg/L	Analysis Date: 07/15/14 13:01	SeqNo: 2120491							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.28	2.0								
Nitrogen, Nitrate (As N)	ND	0.083	0.13								
Sulfate	ND	0.15	5.0								

Sample ID: LCS-78087	SampType: LCS	TestCode: E300IC_W	Prep Date: 07/15/14 12:00	Run ID: IC1_140715A							
Client ID: LCS-78087	Batch ID: 78087	Units: mg/L	Analysis Date: 07/15/14 13:13	SeqNo: 2120492							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	15.38	0.28	2.0	16.00	0	96.1	90	11.0	0		
Nitrogen, Nitrate (As N)	1.024	0.083	0.13	1.000	0	102	90	11.0	0		
Sulfate	37.75	0.15	5.0	40.00	0	94.4	90	11.0	0		

Sample ID: N1209-01CMS	SampType: MS	TestCode: E300IC_W	Prep Date: 07/15/14 12:00	Run ID: IC1_140715A							
Client ID: MW-267S-20140713	Batch ID: 78087	Units: mg/L	Analysis Date: 07/15/14 13:37	SeqNo: 2120494							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	53.47	0.28	2.0	16.00	38.59	93.0	80	12.0	0		
Nitrogen, Nitrate (As N)	1.062	0.083	0.13	1.000	0	106	80	12.0	0		
Sulfate	38.85	0.15	5.0	40.00	0.5655	95.7	80	12.0	0		

Sample ID: N1209-01CMSD	SampType: MSD	TestCode: E300IC_W	Prep Date: 07/15/14 12:00	Run ID: IC1_140715A							
Client ID: MW-267S-20140713	Batch ID: 78087	Units: mg/L	Analysis Date: 07/15/14 13:48	SeqNo: 2120495							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	53.80	0.28	2.0	16.00	38.59	95.1	80	12.0	53.47	0.604	20
Nitrogen, Nitrate (As N)	1.092	0.083	0.13	1.000	0	109	80	12.0	1.062	2.83	20
Sulfate	39.84	0.15	5.0	40.00	0.5655	98.2	80	12.0	38.85	2.52	20

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: N1209
Project: Raytheon - Wayland

SM2320_W
SM 2320B -- Alkalinity (Total)

Sample ID: MB-78105	SampType: MBLK	TestCode: SM2320_W	Prep Date: 07/16/14 14:00	Run ID: MANUAL_140716B	
Client ID: MB-78105	Batch ID: 78105	Units: mg/L CaCO3	Analysis Date: 07/16/14 14:00	SeqNo: 2122159	
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit HighLimit
	ND	20	0	101	80 120
Alkalinity, Total (As CaCO3)			SPK value	%RPD	RPDLimit
			100.0	0	0

Sample ID: LCS-78105	SampType: LCS	TestCode: SM2320_W	Prep Date: 07/16/14 14:00	Run ID: MANUAL_140716B	
Client ID: LCS-78105	Batch ID: 78105	Units: mg/L CaCO3	Analysis Date: 07/16/14 14:07	SeqNo: 2122160	
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit HighLimit
	101.0	20	0	101	80 120
Alkalinity, Total (As CaCO3)			SPK value	%RPD	RPDLimit
			100.0	0	0

Sample ID: LCSD-78105	SampType: LCSD	TestCode: SM2320_W	Prep Date: 07/16/14 14:00	Run ID: MANUAL_140716B	
Client ID: LCSD-78105	Batch ID: 78105	Units: mg/L CaCO3	Analysis Date: 07/16/14 14:15	SeqNo: 2122161	
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit HighLimit
	101.0	20	0	101	80 120
Alkalinity, Total (As CaCO3)			SPK value	%RPD	RPDLimit
			100.0	0	0

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N1209

SM4500_H+

Project: Raytheon - Wayland

SM 4500 H+ B -- pH VALUE

Sample ID: N1209-13CDUP	SampType: DUP	TestCode: SM4500_H+	Prep Date: 07/15/14 13:00	Run ID: WC03_140715A
Client ID: DUP-20140714	Batch ID: R82946	Units: S.U.	Analysis Date: 07/15/14 13:55	SeqNo: 2120635
Analyte	Result	MDL	SPK Ref Val	%REC
pH	6.640	1.0	0	0
		RL	LowLimit	HighLimit
		1.0	0	0
			RPD Ref Val	%RPD
			6.650	0.15
			Limit	20

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N1209

SM4500_OP_W

Project: Raytheon - Wayland

SM 4500P-E OP -- Orthophosphate

Sample ID: MB-78089	SampType: MBLK	TestCode: SM4500_OP_W	Prep Date: 07/15/14 16:00	Run ID: SPEC2_140715B
Client ID: MB-78089	Batch ID: 78089	Units: mg/L	Analysis Date: 07/15/14 16:00	SeqNo: 2120577
Analyte	Result	MDL	SPK Ref Val	%REC
	ND	0.050	0	96.2
			SPK value	LowLimit
			0.4128	80
			RPD Ref Val	%RPD
			0	1.01
			HighLimit	Limit
			1.20	20

Sample ID: LCS-78089	SampType: LCS	TestCode: SM4500_OP_W	Prep Date: 07/15/14 16:00	Run ID: SPEC2_140715B
Client ID: LCS-78089	Batch ID: 78089	Units: mg/L	Analysis Date: 07/15/14 16:03	SeqNo: 2120578
Analyte	Result	MDL	SPK Ref Val	%REC
	0.3970	0.050	0	96.2
			SPK value	LowLimit
			0.4128	80
			RPD Ref Val	%RPD
			0	1.01
			HighLimit	Limit
			1.20	20

Sample ID: LCSD-78089	SampType: LCSD	TestCode: SM4500_OP_W	Prep Date: 07/15/14 16:00	Run ID: SPEC2_140715B
Client ID: LCSD-78089	Batch ID: 78089	Units: mg/L	Analysis Date: 07/15/14 16:07	SeqNo: 2120579
Analyte	Result	MDL	SPK Ref Val	%REC
	0.3930	0.050	0	95.2
			SPK value	LowLimit
			0.4128	80
			RPD Ref Val	%RPD
			0	1.01
			HighLimit	Limit
			1.20	20

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m14.07.23.2147 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N1209

SM5310B_TOC_W

Project: Raytheon - Wayland

SM 5310B TOC -- Total Organic Carbon by combustion

Sample ID: MB-78229	SampType: MBLK	TestCode: SM5310B_TOC_W	Prep Date: 07/24/14 9:00	Run ID: TOC1_140724A				
Client ID: MB-78229	Batch ID: 78229	Units: mg/L	Analysis Date: 07/24/14 11:30	SeqNo: 2125190				
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
Organic Carbon, Total	ND	2.0	10					

Sample ID: MB-78230	SampType: MBLK	TestCode: SM5310B_TOC_W	Prep Date: 07/24/14 9:00	Run ID: TOC1_140724A				
Client ID: MB-78230	Batch ID: 78230	Units: mg/L	Analysis Date: 07/24/14 21:52	SeqNo: 2125219				
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
Organic Carbon, Total	ND	2.0	10					

Sample ID: MB-78244	SampType: MBLK	TestCode: SM5310B_TOC_W	Prep Date: 07/25/14 8:58	Run ID: TOC1_140725A				
Client ID: MB-78244	Batch ID: 78244	Units: mg/L	Analysis Date: 07/25/14 10:53	SeqNo: 2125620				
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
Organic Carbon, Total	ND	2.0	10					

Sample ID: LCS-78229	SampType: LCS	TestCode: SM5310B_TOC_W	Prep Date: 07/24/14 9:00	Run ID: TOC1_140724A				
Client ID: LCS-78229	Batch ID: 78229	Units: mg/L	Analysis Date: 07/24/14 11:52	SeqNo: 2125192				
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
Organic Carbon, Total	60.98	2.0	10	102	80	120	0	

Sample ID: LCS-78230	SampType: LCS	TestCode: SM5310B_TOC_W	Prep Date: 07/24/14 9:00	Run ID: TOC1_140724A				
Client ID: LCS-78230	Batch ID: 78230	Units: mg/L	Analysis Date: 07/24/14 22:14	SeqNo: 2125183				
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
Organic Carbon, Total	59.79	2.0	10	99.6	80	120	0	

Sample ID: LCS-78244	SampType: LCS	TestCode: SM5310B_TOC_W	Prep Date: 07/25/14 8:58	Run ID: TOC1_140725A				
Client ID: LCS-78244	Batch ID: 78244	Units: mg/L	Analysis Date: 07/25/14 11:15	SeqNo: 2125621				
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
Organic Carbon, Total	62.76	2.0	10	105	80	120	0	

Sample ID: LCSD-78244	SampType: LCSD	TestCode: SM5310B_TOC_W	Prep Date: 07/25/14 8:58	Run ID: TOC1_140725A				
Client ID: LCSD-78244	Batch ID: 78244	Units: mg/L	Analysis Date: 07/25/14 11:36	SeqNo: 2125622				
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC LowLimit HighLimit	RPD Ref Val	%RPD RPDLimit	Qual
Organic Carbon, Total	61.45	2.0	10	102	80	120	62.76	2.12

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
m14-07.23.2147 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

Report Date:
23-Jul-14 17:39



- Final Report
- Re-Issued Report
- Revised Report

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

Spectrum Analytical, Inc.
646 Camp Ave.
North Kingstown, RI 02852
Attn: Agnes Huntley

Project: Raytheon-Wayland
Project #: N1209

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB92949-01	MW-267S-20140713	Aqueous	13-Jul-14 17:25	16-Jul-14 17:30
SB92949-02	MW-267M-20140713	Aqueous	13-Jul-14 16:40	16-Jul-14 17:30
SB92949-03	MW-268M-20140713	Aqueous	13-Jul-14 15:45	16-Jul-14 17:30
SB92949-04	MW-553-20140713	Aqueous	13-Jul-14 14:55	16-Jul-14 17:30
SB92949-05	MW-560-20140713	Aqueous	13-Jul-14 14:10	16-Jul-14 17:30
SB92949-06	MW-561-20140713	Aqueous	13-Jul-14 13:25	16-Jul-14 17:30
SB92949-07	REW-6-20140714	Aqueous	14-Jul-14 09:30	16-Jul-14 17:30
SB92949-08	REW-7-20140714	Aqueous	14-Jul-14 09:00	16-Jul-14 17:30
SB92949-09	REW-8-20140714	Aqueous	14-Jul-14 08:30	16-Jul-14 17:30
SB92949-10	REW-9-20140714	Aqueous	14-Jul-14 07:50	16-Jul-14 17:30
SB92949-11	REW-11-20140714	Aqueous	14-Jul-14 10:10	16-Jul-14 17:30
SB92949-12	REW-12-20140714	Aqueous	14-Jul-14 07:05	16-Jul-14 17:30
SB92949-13	DUP-20140714	Aqueous	14-Jul-14 00:00	16-Jul-14 17:30

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435



Authorized by:

A handwritten signature in black ink that reads "Nicole Leja".

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 9 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, NJ-MA012, PA-68-04426 and FL-E87936).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

The samples were received -0.6 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Acceptance Check Form

Client: Spectrum Analytical, Inc. - North Kingstown, RI
 Project: Raytheon-Wayland / N1209
 Work Order: SB92949
 Sample(s) received on: 7/16/2014
 Received by: Jessica Hoffman

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
1. Were custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Were custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Were samples cooled on ice upon transfer to laboratory representative?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Were samples refrigerated upon transfer to laboratory representative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sample IdentificationMW-267S-20140713
SB92949-01Client Project #
N1209Matrix
AqueousCollection Date/Time
13-Jul-14 17:25Received
16-Jul-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N	0.490			mg/l	0.200	0.118	1	SM4500-NH3 C.	17-Jul-14	17-Jul-14	EEM	1416618	X
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Sample IdentificationMW-267M-20140713
SB92949-02Client Project #
N1209Matrix
AqueousCollection Date/Time
13-Jul-14 16:40Received
16-Jul-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N	0.910			mg/l	0.200	0.118	1	SM4500-NH3 C.	17-Jul-14	17-Jul-14	EEM	1416618	X
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Sample IdentificationMW-268M-20140713
SB92949-03Client Project #
N1209Matrix
AqueousCollection Date/Time
13-Jul-14 15:45Received
16-Jul-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N	0.210			mg/l	0.200	0.118	1	SM4500-NH3 C.	17-Jul-14	17-Jul-14	EEM	1416618	X
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Sample IdentificationMW-553-20140713
SB92949-04Client Project #
N1209Matrix
AqueousCollection Date/Time
13-Jul-14 14:55Received
16-Jul-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N	0.210			mg/l	0.200	0.118	1	SM4500-NH3 C.	17-Jul-14	17-Jul-14	EEM	1416618	X
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Sample IdentificationMW-560-20140713
SB92949-05Client Project #
N1209Matrix
AqueousCollection Date/Time
13-Jul-14 14:10Received
16-Jul-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N	< 0.200	U		mg/l	0.200	0.118	1	SM4500-NH3 C.	17-Jul-14	17-Jul-14	EEM	1416618	X
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Sample IdentificationMW-561-20140713
SB92949-06Client Project #
N1209Matrix
AqueousCollection Date/Time
13-Jul-14 13:25Received
16-Jul-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N	0.420			mg/l	0.200	0.118	1	SM4500-NH3 C.	17-Jul-14	17-Jul-14	EEM	1416618	X
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Sample Identification

REW-6-20140714

SB92949-07

Client Project #

N1209

Matrix

Aqueous

Collection Date/Time

14-Jul-14 09:30

Received

16-Jul-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N

0.210

mg/l

0.200

0.118

1

SM4500-NH3 C.

17-Jul-14

17-Jul-14

EEM

1416618

X

Sample Identification

REW-7-20140714

SB92949-08

Client Project #

N1209

Matrix

Aqueous

Collection Date/Time

14-Jul-14 09:00

Received

16-Jul-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N

< 0.200

U

mg/l

0.200

0.118

1

SM4500-NH3 C.

17-Jul-14

17-Jul-14

EEM

1416618

X

Sample Identification

REW-8-20140714

SB92949-09

Client Project #

N1209

Matrix

Aqueous

Collection Date/Time

14-Jul-14 08:30

Received

16-Jul-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N

0.140

J

mg/l

0.200

0.118

1

SM4500-NH3 C.

17-Jul-14

17-Jul-14

EEM

1416618

X

Sample Identification

REW-9-20140714

SB92949-10

Client Project #

N1209

Matrix

Aqueous

Collection Date/Time

14-Jul-14 07:50

Received

16-Jul-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N

0.140

J

mg/l

0.200

0.118

1

SM4500-NH3 C.

17-Jul-14

17-Jul-14

EEM

1416618

X

Sample Identification

REW-11-20140714

SB92949-11

Client Project #

N1209

Matrix

Aqueous

Collection Date/Time

14-Jul-14 10:10

Received

16-Jul-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N

< 0.200

U

mg/l

0.200

0.118

1

SM4500-NH3 C.

17-Jul-14

17-Jul-14

EEM

1416618

X

Sample Identification

REW-12-20140714

SB92949-12

Client Project #

N1209

Matrix

Aqueous

Collection Date/Time

14-Jul-14 07:05

Received

16-Jul-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N

0.140

J

mg/l

0.200

0.118

1

SM4500-NH3 C.

17-Jul-14

17-Jul-14

EEM

1416618

X

This laboratory report is not valid without an authorized signature on the cover page.

Sample Identification

DUP-20140714

SB92949-13

Client Project #

N1209

Matrix

Aqueous

Collection Date/Time

14-Jul-14 00:00

Received

16-Jul-14

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
----------------	-------------------	---------------	-------------	--------------	-------------	------------	-----------------	--------------------	-----------------	-----------------	----------------	--------------	--------------

General Chemistry Parameters

Ammonia as N

0.140

J

mg/l

0.200

0.118

1

SM4500-NH3 C.

17-Jul-14

17-Jul-14

EEM

1416618

X

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1416618 - General Preparation										
<u>Blank (1416618-BLK1)</u>					<u>Prepared & Analyzed: 17-Jul-14</u>					
Ammonia as N	< 0.200	U	mg/l	0.200						
<u>LCS (1416618-BS1)</u>					<u>Prepared & Analyzed: 17-Jul-14</u>					
Ammonia as N	4.83		mg/l	0.200	5.00		97	90-110		
<u>Reference (1416618-SRM1)</u>					<u>Prepared & Analyzed: 17-Jul-14</u>					
Ammonia as N	0.840		mg/l	0.200	0.960		88	84-116		

Notes and Definitions

J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:

CHAIN-OF-CUSTODY RECORD

SB92949.mwl

WorkOrder : N1209

Project: Raytheon - Wayland

Report Type : LEVEL 2

Due Date : 7/25/2014

FAX Due Date :

Report To : Agnes R Huntley

Purchase Order : N1209

EDD Types : **Please generate a Little PEL EDD**

Requested Test

Subcontractor:
 Spectrum Analytical, Inc. - Agawam, MA
 11 Almgren Drive
 Agawam, Massachusetts 01001
 Phone: (413) 789-9018

EQUIFacilityCode: N/A

= number of containers

Client Sample ID	Collection Date	#	Matrix	DUP/MS/MSD	Mitkem Sample ID															
MMW-267S-20140713	07/13/2014 17:25	1	Aqueous		N1209-01E	X														
MMW-267M-20140713	07/13/2014 16:40	1	Aqueous		N1209-02E	X														
MMW-268M-20140713	07/13/2014 15:45	1	Aqueous		N1209-03E	X														
MMW-553-20140713	07/13/2014 14:55	1	Aqueous		N1209-04E	X														
MMW-560-20140713	07/13/2014 14:10	1	Aqueous		N1209-05E	X														
MMW-561-20140713	07/13/2014 13:25	1	Aqueous		N1209-06E	X														

1) SM4500_NH3_W_NITROGEN (AMMONIA)

Use 'Client Sample ID' when reporting data. If needed, truncate 'Client Sample ID' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments: MCP/CAM reporting

Relinquished by: Agnes R Huntley Date/Time: 07/16/14 10:36

Received by: Agnes R Huntley Date/Time: 7-16-14 12:15

Relinquished by: [Signature] Date/Time: 7/16/14 17:30

Received by: [Signature] Date/Time: 7/16/14 17:30

2014-11-16-1730
 Agnes R Huntley

CHAIN-OF-CUSTODY RECORD

5892949.mw

WorkOrder : N1209

Project: Raytheon - Wayland

Report Type : LEVEL 2

Due Date : 7/25/2014

FAX Due Date :

Report To : Agnes R Huntley

Purchase Order : N1209

EDD Types : **Please generate a Little PEL EDD**

Requested Test

Subcontractor:
 Spectrum Analytical, Inc. - Agawam, MA
 11 Almgren Drive
 Agawam, Massachusetts 01001
 Phone: (413) 789-9018

EquipFacilityCode: N/A

= number of containers

Client Sample ID	Collection Date	#	Matrix	DUP/MSMSD	Mitkem Sample ID	SM4500 NH3 W														
REW-6-20140714	07/14/2014 09:30	1	Aqueous		N1209-07E	X														
REW-7-20140714	07/14/2014 09:00	1	Aqueous		N1209-08E	X														
REW-8-20140714	07/14/2014 08:30	1	Aqueous		N1209-09E	X														
REW-9-20140714	07/14/2014 07:50	1	Aqueous		N1209-10E	X														
REW-11-20140714	07/14/2014 10:10	1	Aqueous		N1209-11E	X														
REW-12-20140714	07/14/2014 07:05	1	Aqueous		N1209-12E	X														

1) SM4500_NH3_W_NITROGEN (AMMONIA)

Use 'Client Sample ID' when reporting data. If needed, truncate 'Client Sample ID' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments: MCP/CAM reporting

Relinquished by:	<i>Agnes R Huntley</i>	Date/Time	07/16/14 10:36
Received by:	<i>Michelle</i>	Date/Time	7/16/14 12:15
Relinquished by:	<i>Michelle</i>	Received by:	<i>JUH</i>
		Date/Time	7/16/14 17:30

o.v.f. Holdover

SPECTRUM ANALYTICAL, INC.
ANALYTICAL TECHNOLOGY

CHAIN-OF-CUSTODY RECORD

SB92949-13

WorkOrder : N1209

Project: Raytheon - Wayland

Report Type : LEVEL 2

Due Date : 7/25/2014

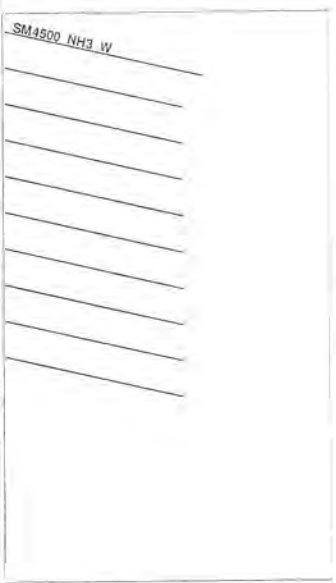
FAX Due Date :

Report To : Agnes R Huntley

Purchase Order : N1209

EDD Types : **Please generate a Little PEL EDD**

Requested Test



Subcontractor:
Spectrum Analytical, Inc. - Agawam, MA
11 Almgren Drive
Agawam, Massachusetts 01001
Phone: (413) 789-9018
EQUSFacilityCode: N/A

= number of containers

Client Sample ID	Collection Date	#	Matrix	DUP/MS/MSD	Mitkem Sample ID						
DUP-20140714 SB92949-13	07/14/2014 00:00	1	Aqueous		N1209-13E	X					

1) SM4500_NH3_W, NITROGEN (AMMONIA)

Use 'Client Sample ID's' when reporting data. If needed, truncate 'Client Sample ID's' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments: MCP/CAM reporting

Reinquished by: *Agnes R Huntley* Date/Time: 07/16/14 10:36
 Reinquished by: *[Signature]*

Received by: *[Signature]* Date/Time: 07/16/2014
 Received by: *[Signature]*

646 Camp Ave * North Kingsdown * RI * 02852-4008 * 401-732-3400 * 401-732-3499
www.spectrum-analytical.com

2014-11-16 PRZ

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N1209

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-006

HC Due: 07/25/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N1209-01A	MW-267S-20140713	07/13/2014 17:25	07/15/2014	Aqueous	RSK175	/					VOA
N1209-01B	MW-267S-20140713	07/13/2014 17:25	07/15/2014	Aqueous	SM5310B_TOC_W	/					R22
N1209-01C	MW-267S-20140713	07/13/2014 17:25	07/15/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	P4
N1209-01C	MW-267S-20140713	07/13/2014 17:25	07/15/2014	Aqueous	SM2320_W	/					P4
N1209-01C	MW-267S-20140713	07/13/2014 17:25	07/15/2014	Aqueous	SM4500_H+	/					P4
N1209-01D	MW-267S-20140713	07/13/2014 17:25	07/15/2014	Aqueous	SM4500_OP_W	/					P4
N1209-01E	MW-267S-20140713	07/13/2014 17:25	07/15/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1209-02A	MW-267M-20140713	07/13/2014 16:40	07/15/2014	Aqueous	RSK175	/					VOA
N1209-02B	MW-267M-20140713	07/13/2014 16:40	07/15/2014	Aqueous	SM5310B_TOC_W	/					R22
N1209-02C	MW-267M-20140713	07/13/2014 16:40	07/15/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	P4
N1209-02C	MW-267M-20140713	07/13/2014 16:40	07/15/2014	Aqueous	SM2320_W	/					P4
N1209-02C	MW-267M-20140713	07/13/2014 16:40	07/15/2014	Aqueous	SM4500_H+	/					P4
N1209-02D	MW-267M-20140713	07/13/2014 16:40	07/15/2014	Aqueous	SM4500_OP_W	/					P4
N1209-02E	MW-267M-20140713	07/13/2014 16:40	07/15/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1209-03A	MW-268M-20140713	07/13/2014 15:45	07/15/2014	Aqueous	RSK175	/					VOA
N1209-03B	MW-268M-20140713	07/13/2014 15:45	07/15/2014	Aqueous	SM5310B_TOC_W	/					R22
N1209-03C	MW-268M-20140713	07/13/2014 15:45	07/15/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	P4
N1209-03C	MW-268M-20140713	07/13/2014 15:45	07/15/2014	Aqueous	SM2320_W	/					P4
N1209-03C	MW-268M-20140713	07/13/2014 15:45	07/15/2014	Aqueous	SM4500_H+	/					P4
N1209-03D	MW-268M-20140713	07/13/2014 15:45	07/15/2014	Aqueous	SM4500_OP_W	/					P4

HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N1209

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-006

HC Due: 07/25/14

Fax Due:

EDD: CLF

Report Level: LEVEL 2

Special Program:

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N1209-03E	MW-268M-20140713	07/13/2014 15:45	07/15/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1209-04A	MW-553-20140713	07/13/2014 14:55	07/15/2014	Aqueous	RSK175	/					VOA
N1209-04B	MW-553-20140713	07/13/2014 14:55	07/15/2014	Aqueous	SM5310B_TOC_W	/					R22
N1209-04C	MW-553-20140713	07/13/2014 14:55	07/15/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	P4
N1209-04C	MW-553-20140713	07/13/2014 14:55	07/15/2014	Aqueous	SM2320_W	/					P4
N1209-04C	MW-553-20140713	07/13/2014 14:55	07/15/2014	Aqueous	SM4500_H+	/					P4
N1209-04D	MW-553-20140713	07/13/2014 14:55	07/15/2014	Aqueous	SM4500_OP_W	/					P4
N1209-04E	MW-553-20140713	07/13/2014 14:55	07/15/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1209-05A	MW-560-20140713	07/13/2014 14:10	07/15/2014	Aqueous	RSK175	/					VOA
N1209-05B	MW-560-20140713	07/13/2014 14:10	07/15/2014	Aqueous	SM5310B_TOC_W	/					R22
N1209-05C	MW-560-20140713	07/13/2014 14:10	07/15/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	P4
N1209-05C	MW-560-20140713	07/13/2014 14:10	07/15/2014	Aqueous	SM2320_W	/					P4
N1209-05C	MW-560-20140713	07/13/2014 14:10	07/15/2014	Aqueous	SM4500_H+	/					P4
N1209-05D	MW-560-20140713	07/13/2014 14:10	07/15/2014	Aqueous	SM4500_OP_W	/					P4
N1209-05E	MW-560-20140713	07/13/2014 14:10	07/15/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1209-06A	MW-561-20140713	07/13/2014 13:25	07/15/2014	Aqueous	RSK175	/					VOA
N1209-06B	MW-561-20140713	07/13/2014 13:25	07/15/2014	Aqueous	SM5310B_TOC_W	/					R22
N1209-06C	MW-561-20140713	07/13/2014 13:25	07/15/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	P4
N1209-06C	MW-561-20140713	07/13/2014 13:25	07/15/2014	Aqueous	SM2320_W	/					P4

HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N1209

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-006

HC Due: 07/25/14

Fax Due:

EDD: CLF

Report Level: LEVEL 2

Special Program:

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N1209-06C	MW-561-20140713	07/13/2014 13:25	07/15/2014	Aqueous	SM4500_H+	/					P4
N1209-06D	MW-561-20140713	07/13/2014 13:25	07/15/2014	Aqueous	SM4500_OP_W	/					P4
N1209-06E	MW-561-20140713	07/13/2014 13:25	07/15/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1209-07A	REW-6-20140714	07/14/2014 09:30	07/15/2014	Aqueous	RSK175	/					VOA
N1209-07B	REW-6-20140714	07/14/2014 09:30	07/15/2014	Aqueous	SM5310B_TOC_W	/					R22
N1209-07C	REW-6-20140714	07/14/2014 09:30	07/15/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	P4
N1209-07C	REW-6-20140714	07/14/2014 09:30	07/15/2014	Aqueous	SM2320_W	/					P4
N1209-07C	REW-6-20140714	07/14/2014 09:30	07/15/2014	Aqueous	SM4500_H+	/					P4
N1209-07D	REW-6-20140714	07/14/2014 09:30	07/15/2014	Aqueous	SM4500_OP_W	/					P4
N1209-07E	REW-6-20140714	07/14/2014 09:30	07/15/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1209-08A	REW-7-20140714	07/14/2014 09:00	07/15/2014	Aqueous	RSK175	/					VOA
N1209-08B	REW-7-20140714	07/14/2014 09:00	07/15/2014	Aqueous	SM5310B_TOC_W	/					R22
N1209-08C	REW-7-20140714	07/14/2014 09:00	07/15/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	P4
N1209-08C	REW-7-20140714	07/14/2014 09:00	07/15/2014	Aqueous	SM2320_W	/					P4
N1209-08C	REW-7-20140714	07/14/2014 09:00	07/15/2014	Aqueous	SM4500_H+	/					P4
N1209-08D	REW-7-20140714	07/14/2014 09:00	07/15/2014	Aqueous	SM4500_OP_W	/					P4
N1209-08E	REW-7-20140714	07/14/2014 09:00	07/15/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1209-09A	REW-8-20140714	07/14/2014 08:30	07/15/2014	Aqueous	RSK175	/					VOA
N1209-09B	REW-8-20140714	07/14/2014 08:30	07/15/2014	Aqueous	SM5310B_TOC_W	/					R22

HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N1209

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-006

HC Due: 07/25/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N1209-09C	REW-8-20140714	07/14/2014 08:30	07/15/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	P4
N1209-09C	REW-8-20140714	07/14/2014 08:30	07/15/2014	Aqueous	SM2320_W	/					P4
N1209-09C	REW-8-20140714	07/14/2014 08:30	07/15/2014	Aqueous	SM4500_H+	/					P4
N1209-09D	REW-8-20140714	07/14/2014 08:30	07/15/2014	Aqueous	SM4500_OP_W	/					P4
N1209-09E	REW-8-20140714	07/14/2014 08:30	07/15/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1209-10A	REW-9-20140714	07/14/2014 07:50	07/15/2014	Aqueous	RSK175	/					VOA
N1209-10B	REW-9-20140714	07/14/2014 07:50	07/15/2014	Aqueous	SM5310B_TOC_W	/					R22
N1209-10C	REW-9-20140714	07/14/2014 07:50	07/15/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	P4
N1209-10C	REW-9-20140714	07/14/2014 07:50	07/15/2014	Aqueous	SM2320_W	/					P4
N1209-10C	REW-9-20140714	07/14/2014 07:50	07/15/2014	Aqueous	SM4500_H+	/					P4
N1209-10D	REW-9-20140714	07/14/2014 07:50	07/15/2014	Aqueous	SM4500_OP_W	/					P4
N1209-10E	REW-9-20140714	07/14/2014 07:50	07/15/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1209-11A	REW-11-20140714	07/14/2014 10:10	07/15/2014	Aqueous	RSK175	/					VOA
N1209-11B	REW-11-20140714	07/14/2014 10:10	07/15/2014	Aqueous	SM5310B_TOC_W	/					R22
N1209-11C	REW-11-20140714	07/14/2014 10:10	07/15/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	P4
N1209-11C	REW-11-20140714	07/14/2014 10:10	07/15/2014	Aqueous	SM2320_W	/					P4
N1209-11C	REW-11-20140714	07/14/2014 10:10	07/15/2014	Aqueous	SM4500_H+	/					P4
N1209-11D	REW-11-20140714	07/14/2014 10:10	07/15/2014	Aqueous	SM4500_OP_W	/					P4
N1209-11E	REW-11-20140714	07/14/2014 10:10	07/15/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1209-12A	REW-12-20140714	07/14/2014 07:05	07/15/2014	Aqueous	RSK175	/					VOA

HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N1209

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-006

HC Due: 07/25/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

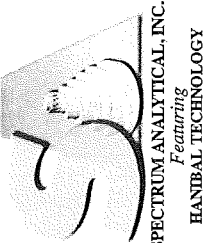
Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N1209-12B	REW-12-20140714	07/14/2014 07:05	07/15/2014	Aqueous	SM5310B_TOC_W	/					R22
N1209-12C	REW-12-20140714	07/14/2014 07:05	07/15/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	P4
N1209-12C	REW-12-20140714	07/14/2014 07:05	07/15/2014	Aqueous	SM2320_W	/					P4
N1209-12C	REW-12-20140714	07/14/2014 07:05	07/15/2014	Aqueous	SM4500_H+	/					P4
N1209-12D	REW-12-20140714	07/14/2014 07:05	07/15/2014	Aqueous	SM4500_OP_W	/					P4
N1209-12E	REW-12-20140714	07/14/2014 07:05	07/15/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1209-13A	DUP-20140714	07/14/2014 00:00	07/15/2014	Aqueous	RSK175	/					VOA
N1209-13B	DUP-20140714	07/14/2014 00:00	07/15/2014	Aqueous	SM5310B_TOC_W	/					R22
N1209-13C	DUP-20140714	07/14/2014 00:00	07/15/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	P4
N1209-13C	DUP-20140714	07/14/2014 00:00	07/15/2014	Aqueous	SM2320_W	/					P4
N1209-13C	DUP-20140714	07/14/2014 00:00	07/15/2014	Aqueous	SM4500_H+	/					P4
N1209-13D	DUP-20140714	07/14/2014 00:00	07/15/2014	Aqueous	SM4500_OP_W	/					P4
N1209-13E	DUP-20140714	07/14/2014 00:00	07/15/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1209-14A	TRIP BLANK	07/14/2014 00:00	07/15/2014	Aqueous	RSK175	/					VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold



SPECTRUM ANALYTICAL, INC.
Featuring
ANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

11 Almgren Drive
Agawam, MA 01001
(413) 789-9018

8405 Benjamin Road, Ste A
Tampa, FL 33634
(813) 888-9507

Page 1 of 2

Special Handling:

TAT- Indicate Date Needed:
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.
Samples disposed of after 60 days unless otherwise instructed.

Report To: Environmental Engineering Solutions Inc
25 Spaulds St
Worcester MA 02081
Telephone #: 508-668-0033
Project Mgr: Vicki Poirier

Invoice To: Same
P.O. No.: PA-008 RQN: -

Project No.: BA-008
Site Name: Beaufort - Sanford
Location: Worcester State: MA
Sampler(s): Dean Tates

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
8= NaHSO₄ 9= Deionized Water 10=H₃PO₄ 11=12=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

List preservative code below:

3 10 9

QA/QC Reporting Notes:

QA/QC Reporting Level

- Level I
 Level II
 Level III
 Level IV
 Other

State-specific reporting standards:

Containers:

of VOA Vials
of Amber Glass
of Clear Glass
of Plastic

Analyses:

Ortho phosphate
101
Ascorbic Acid
Ascorbic Acid
Ascorbic Acid

G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	Temp °C
01	MW-2675-20140713	7/13/14	1735	GW	GW	4	3	3	3	X
02	MW-2676-20140713	7/13/14	1640	GW	GW	4	3	3	3	X
03	MW-2677-20140713	7/13/14	1545	GW	GW	4	3	3	3	X
04	MW-533-20140713	7/13/14	1455	GW	GW	4	3	3	3	X
05	MW-560-20140713	7/13/14	1410	GW	GW	4	3	3	3	X
06	MW-561-20140713	7/13/14	1325	GW	GW	4	3	3	3	X
07	REW-6-20140714	7/14/14	0930	GW	GW	4	3	3	3	X
08	REW-7-20140714	7/14/14	0900	GW	GW	4	3	3	3	X
09	REW-8-20140714	7/14/14	0830	GW	GW	4	3	3	3	X
10	REW-9-20140714	7/14/14	0750	GW	GW	4	3	3	3	X

Relinquished by: [Signature] Received by: [Signature] Date: 7/14/14 Time: 180

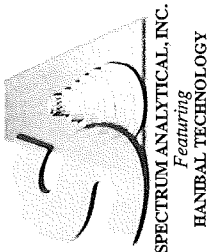
Relinquished by: [Signature] Received by: [Signature] Date: 7/15/14 Time: 1450

Relinquished by: [Signature] Received by: [Signature] Date: 7/15/14 Time: 1115

Relinquished by: [Signature] Received by: [Signature] Date: 7/14/17 Time:

E-mail to vpoirier@esolutions.com

Condition upon receipt: Ambient Iced Refrigerated DJ VOA Frozen Present Intact Broken Soil Jar Frozen



SPECTRUM ANALYTICAL, INC.
Featuring
HAMBAL TECHNOLOGY

Page 2 of 2

CHAIN OF CUSTODY RECORD

11 Almgren Drive
Agawam, MA 01001
(413) 789-9018

646 Camp Avenue
N Kingstown, RI 02852
(401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
All TATs subject to laboratory approval.
Min. 24-hour notification needed for rushes.
Samples disposed of after 60 days unless otherwise instructed.

Report To:

Environmental Solutions Inc.

25 South St.

Waltham MA 02071

Telephone #: 508-449-0032

Project Mgr. Vicky Perin

Invoice To:

same

P.O. No.: RA-003 RQN: _____

Project No.: RA-003

Site Name: Batherson - Washford

Location: Washford

Sampler(s): Duffey Saverz

State: MA

1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid 7=CH₃OH
8= NaHSO₄ 9= Deionized Water 10=H₃PO₄ 11= _____ 12= _____

List preservative code below:

3 10 2

QA/QC Reporting Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

Containers:

# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic
4	4	3	3
4	4	3	3
4	4	3	3
2			

Analyses:

Nitrosamines (NH ₂)	X	X	X	X
Orthophosphate	X	X	X	X
TOC	X	X	X	X
Oil Insoluble Solids	X	X	X	X

QA/QC Reporting Level

Level I
 Level III
 Level IV
 Other _____

State-specific reporting standards:

G=Grab C=Composite

Lab Id.	Sample Id.	Date:	Time:	Type	Matrix
11	MS-11-20140714	7/14/14	1010	G	AW
12	MS-12-20140714	7/14/14	0705	G	AW
13	Dup - 20140714	7/14/14	---	G	AW
14	Trip Blank	---	---	G	

19/10/191ROV
7/14/14

Relinquished by:

[Signature]
Subjgent
A. Kent

Received by:

[Signature]
Subjgent
A. Kent

Temp °C

Date:

Time:

EDD Format

E-mail to VP@enr.com

Condition upon receipt: Ambient Filled Refrigerated D/VOA Frozen Intact Broken Soil/far Frozen

[Signature]

Received By: <i>MP</i>		Page 01 of 00					
Reviewed By: <i>BD</i>		Log-in Date 07/15/2014					
Work Order: N1209	Client Name: Innovative Engineering Solutions, Inc.						
Project Name/Event: Raytheon - Wayland							
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.							
	Lab Sample ID	Preservation (pH)			VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"	
		HNO3	H2SO4	HCl	NaOH	H3PO4	
1. Custody Seal(s)	Present / Absent		<2				H
	Intact / Broken		<2				H
2. Custody Seal Nos.	N/A		<2				H
			<2				H
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists	Present / Absent		<2				H
			<2				H
			<2				H
4. Airbill	AirBill / Sticker		<2				H
	Present / Absent		<2				H
5. Airbill No.	Courier N/A		<2				H
			<2				H
6. Sample Tags	Present / Absent		<2				H
Sample Tag Numbers	Listed /		<2				H
	Not Listed on Chain-of-Custody						
7. Sample Condition	Intact / Broken / Leaking						
8. Cooler Temperature Indicator Bottle	Present / Absent						
9. Cooler Temperature	3.2 °C						
10. Does information on TR/COCs and sample tags agree?	Yes / No						
11. Date Received at Laboratory	07/15/2014						
12. Time Received	11:15						
Sample Transfer							
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO						
Area #	Area #						
By	By						
On	On						
IR Temp Gun ID:MT-74	VOA Matrix Key:						
Coolant Condition: ICE	US = Unpreserved Soil A= Air						
	UA = Unpreserved Aqueous H = HCl						
	M = MeOH E = Encore						
	N = NaHSO4 F = Freeze						
Preservative Name/Lot No:	See Sample Condition Notification/Corrective Action Form Yes / No						
	Rad OK Yes / No						

Last Page of Data Report

Report Date:
10-Oct-14 15:50



- Final Report
 Re-Issued Report
 Revised Report

Laboratory Report

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole, MA 02081

Work Order: N1773
Project : Raytheon - Wayland
Project #:

Attn: Sami Fam

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
N1773-01	REW-6-20140922	Aqueous	22-Sep-14 09:50	23-Sep-14 11:40
N1773-02	REW-7-20140922	Aqueous	22-Sep-14 14:00	23-Sep-14 11:40
N1773-03	REW-8-20140922	Aqueous	22-Sep-14 13:15	23-Sep-14 11:40
N1773-04	REW-9-20140922	Aqueous	22-Sep-14 12:35	23-Sep-14 11:40
N1773-05	REW-11-20140922	Aqueous	22-Sep-14 08:15	23-Sep-14 11:40
N1773-06	REW-12-20140922	Aqueous	22-Sep-14 11:10	23-Sep-14 11:40
N1773-07	MW-553-20140922	Aqueous	22-Sep-14 14:10	23-Sep-14 11:40
N1773-08	MW-560-20140922	Aqueous	22-Sep-14 12:10	23-Sep-14 11:40
N1773-09	MW-561-20140922	Aqueous	22-Sep-14 10:50	23-Sep-14 11:40
N1773-10	MW-562-20140922	Aqueous	22-Sep-14 09:40	23-Sep-14 11:40
N1773-11	MW-563-20140922	Aqueous	22-Sep-14 13:00	23-Sep-14 11:40
N1773-12	DUP 2-20140922	Aqueous	22-Sep-14 00:00	23-Sep-14 11:40

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirements have been met.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033



Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Innovative Engineering Solutions, Inc.

Project: Raytheon - Wayland

Laboratory Workorder / SDG #: N1773

RSK175, Dissolved Gases by GC-FID

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
RSK175

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030B

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: V7
Instrument Type: GC-FID

Description: HP5890 II
Manufacturer: Hewlett-Packard
Model: 5890
GC Column used: 30 m X 0.53 mm ID [um thickness] CARBOXEM 1006
capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

N/A.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

NA.

F. Dilutions:

The following samples were analyzed at dilution:

REW-6-20140922 (N1773-01CDL) : Dilution Factor: 10
REW-7-20140922 (N1773-02CDL) : Dilution Factor: 10
REW-8-20140922 (N1773-03CDL) : Dilution Factor: 10
REW-9-20140922 (N1773-04CDL) : Dilution Factor: 10
REW-11-20140922 (N1773-05CDL) : Dilution Factor: 20
REW-12-20140922 (N1773-06CDL) : Dilution Factor: 20
MW-553-20140922 (N1773-07CDL) : Dilution Factor: 2
MW-561-20140922 (N1773-09CDL) : Dilution Factor: 20

MW-562-20140922 (N1773-10CDL) : Dilution Factor: 20
MW-563-20140922 (N1773-11CDL) : Dilution Factor: 20
DUP 2-20140922 (N1773-12CDL) : Dilution Factor: 25

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

The following samples were manually integrated:

LCS-79222 Ethene due to M1

REW-6-20140922 (N1773-01C) Methane due to M6

DUP 2-20140922 (N1773-12C) Methane due to M6

VSTD005I7 Methane due to M7

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. H. P.', written over a horizontal line.

Signed: _____

Date: _____ 10/6/2014 _____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Innovative Engineering Solutions, Inc.

Project: Raytheon - Wayland

Laboratory Workorder / SDG #: N1773

SW846 6010C

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 6010C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3005A

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: OPTIMA3
Instrument Type: ICP

Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

A matrix spike was not performed on any sample in this SDG.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

A duplicate analysis was not performed on any sample in this SDG.

F. Serial Dilution (SD):

A serial dilution was not performed on any sample in this SDG.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:  _____

Date: 10/03/14

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Innovative Engineering Solutions, Inc.

Project: Raytheon - Wayland

Laboratory Workorder / SDG #: N1773

EPA 300.0, EPA 300.0 Modified VFA, SM 2320B, SM 4500 H+ B, SM 4500P-E OP, SM 5310B TOC

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: EPA 300.0, EPA 300.0 Modified VFA, SM 2320B, SM 4500 H+ B, SM 4500P-E OP, SM 5310B TOC

IV. PREPARATION

Samples were prepared following procedures in laboratory test code: EPA 300.0, EPA 300.0 Modified VFA, SM 2320B, SM 4500 H+ B, SM 4500P-E OP, SM 5310B TOC

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: IC1
Instrument Type: IC
Description: DX-500
Manufacturer: Dionex
Model: DX-500
GC Column used: 0.25 m X 4 mm ID [um thickness] AS14A-7 capillary column.

Instrument Code: SPEC2
Instrument Type: SP
Description: Spectronic 20 Genesys
Manufacturer: Spectronic Instruments
Model: 4004-000

Instrument Code: TOC1
Instrument Type: TOC
Description: TOC
Manufacturer: Tekmar Dohrman
Model: Apollo 9000

Instrument Code: WC03
Instrument Type: Probe
Description: pH Meter
Manufacturer: Oakton Instruments
Model: Bench 2700 Series

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: REW-6-20140922

(N1773-01BMS) and REW-6-20140922 (N1773-01BMSD).

Percent recoveries were within the QC limits with the following exceptions:

REW-6-20140922 (N1773-01BMS), recovery is below criteria for Acetic Acid at 55% with criteria of (75-125).

REW-6-20140922 (N1773-01BMSD), recovery is below criteria for Acetic Acid at 60% with criteria of (75-125).

Native sample REW-6-20140922 (N1773-01B) had Acetic Acid at levels above 4 times that of the Matrix Spike solution, therefore no corrective action is required.

Replicate RPDs were within the advisory QC limits.

D. Duplicate sample:

Duplicate analyses were performed on sample: DUP 2-20140922 (N1773-12FDUP).

Relative percent differences were within the QC limits.

E. Dilutions:

The following samples were analyzed at dilution:

REW-6-20140922 (N1773-01A), dilution factor: 5 for Organic Carbon, Total

REW-6-20140922 (N1773-01B), dilution factor: 5 for Acetic Acid

REW-6-20140922 (N1773-01BMS), dilution factor: 5 for Acetic Acid

REW-6-20140922 (N1773-01BMSD), dilution factor: 5 for Acetic Acid

REW-7-20140922 (N1773-02B), dilution factor: 5 for Acetic Acid

REW-8-20140922 (N1773-03B), dilution factor: 5 for Acetic Acid

REW-9-20140922 (N1773-04A), dilution factor: 5 for Organic Carbon, Total

REW-9-20140922 (N1773-04B), dilution factor: 5 for Acetic Acid

REW-11-20140922 (N1773-05B), dilution factor: 5 for Acetic Acid

REW-12-20140922 (N1773-06B), dilution factor: 5 for Acetic Acid

MW-560-20140922 (N1773-08B), dilution factor: 5 for Acetic Acid

MW-560-20140922 (N1773-08F), dilution factor: 2 for Alkalinity, Total (As CaCO₃) and Nitrogen, Nitrate (As N)

MW-561-20140922 (N1773-09A), dilution factor: 10 for Organic Carbon, Total

MW-561-20140922 (N1773-09B), dilution factor: 10 for Acetic Acid

MW-562-20140922 (N1773-10A), dilution factor: 20 for Organic

Carbon, Total

MW-562-20140922 (N1773-10B), dilution factor: 20 for Acetic Acid and Butyric Acid

MW-563-20140922 (N1773-11B), dilution factor: 5 for Acetic Acid

MW-563-20140922 (N1773-11F), dilution factor: 4 for Alkalinity, Total (As CaCO₃)

DUP 2-20140922 (N1773-12A), dilution factor: 5 for Organic Carbon, Total

DUP 2-20140922 (N1773-12B), dilution factor: 5 for Acetic Acid

F. Samples:

Orthophosphate results required background subtraction of the uncolored samples due to Iron interference. The samples tested positive at 880nm with no treatment, although they were not the correct color or particularly turbid. In addition, several samples turned dark yellow after treatment. The yellow samples were REW-9-20140922 (N1773-04D) and REW-11-20140922 (N1773-05D).

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 10/10/2014

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/03/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-6-20140922

Lab ID: N1773-01

Project: Raytheon - Wayland

Collection Date: 09/22/14 9:50

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	13000 E	0.60 µg/L	1 09/25/2014 12:52	79222
Ethane	ND	1.2 µg/L	1 09/25/2014 12:52	79222
Ethene	ND	1.5 µg/L	1 09/25/2014 12:52	79222

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/03/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-6-20140922

Lab ID: N1773-01

Project: Raytheon - Wayland

Collection Date: 09/22/14 9:50

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	11000	6.0 µg/L	10 09/26/2014 9:37	79263
Ethane	ND	12 µg/L	10 09/26/2014 9:37	79263
Ethene	ND	15 µg/L	10 09/26/2014 9:37	79263

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-7-20140922

Lab ID: N1773-02

Project: Raytheon - Wayland

Collection Date: 09/22/14 14:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	9900 E	0.60 µg/L	1 09/25/2014 13:30	79222
Ethane	10	1.2 µg/L	1 09/25/2014 13:30	79222
Ethene	14	1.5 µg/L	1 09/25/2014 13:30	79222

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/03/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-7-20140922

Lab ID: N1773-02

Project: Raytheon - Wayland

Collection Date: 09/22/14 14:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	7700	6.0 µg/L	10 09/26/2014 9:59	79263
Ethane	ND	12 µg/L	10 09/26/2014 9:59	79263
Ethene	ND	15 µg/L	10 09/26/2014 9:59	79263

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/03/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-8-20140922

Lab ID: N1773-03

Project: Raytheon - Wayland

Collection Date: 09/22/14 13:15

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	12000 E	0.60 µg/L	1 09/25/2014 13:38	79222
Ethane	7.8	1.2 µg/L	1 09/25/2014 13:38	79222
Ethene	13	1.5 µg/L	1 09/25/2014 13:38	79222

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/03/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-8-20140922

Lab ID: N1773-03

Project: Raytheon - Wayland

Collection Date: 09/22/14 13:15

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	7000	6.0 µg/L	10 09/26/2014 10:09	79263
Ethane	ND	12 µg/L	10 09/26/2014 10:09	79263
Ethene	ND	15 µg/L	10 09/26/2014 10:09	79263

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/03/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-9-20140922

Lab ID: N1773-04

Project: Raytheon - Wayland

Collection Date: 09/22/14 12:35

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	12000 E	0.60 µg/L	1 09/25/2014 13:46	79222
Ethane	1.4	1.2 µg/L	1 09/25/2014 13:46	79222
Ethene	1.5	1.5 µg/L	1 09/25/2014 13:46	79222

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/03/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-9-20140922

Lab ID: N1773-04

Project: Raytheon - Wayland

Collection Date: 09/22/14 12:35

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	10000	6.0 µg/L	10 09/26/2014 10:21	79263
Ethane	ND	12 µg/L	10 09/26/2014 10:21	79263
Ethene	ND	15 µg/L	10 09/26/2014 10:21	79263

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/03/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-11-20140922

Lab ID: N1773-05

Project: Raytheon - Wayland

Collection Date: 09/22/14 8:15

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	20000 E	0.60 µg/L	1 09/25/2014 13:54	79222
Ethane	ND	1.2 µg/L	1 09/25/2014 13:54	79222
Ethene	13	1.5 µg/L	1 09/25/2014 13:54	79222

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-11-20140922

Lab ID: N1773-05

Project: Raytheon - Wayland

Collection Date: 09/22/14 8:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	13000			12 µg/L		20 09/26/2014 10:58	79263
Ethane		ND		25 µg/L		20 09/26/2014 10:58	79263
Ethene		ND		31 µg/L		20 09/26/2014 10:58	79263

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-12-20140922

Lab ID: N1773-06

Project: Raytheon - Wayland

Collection Date: 09/22/14 11:10

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	10000 E	0.60 µg/L	1 09/25/2014 14:01	79222
Ethane	4.0	1.2 µg/L	1 09/25/2014 14:01	79222
Ethene	19	1.5 µg/L	1 09/25/2014 14:01	79222

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/03/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-12-20140922

Lab ID: N1773-06

Project: Raytheon - Wayland

Collection Date: 09/22/14 11:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	12000		12	µg/L		20 09/26/2014 11:14	79263
Ethane		ND	25	µg/L		20 09/26/2014 11:14	79263
Ethene		ND	31	µg/L		20 09/26/2014 11:14	79263

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/03/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-553-20140922

Lab ID: N1773-07

Project: Raytheon - Wayland

Collection Date: 09/22/14 14:10

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	1400 E	0.60 µg/L	1 09/25/2014 14:10	79222
Ethane	ND	1.2 µg/L	1 09/25/2014 14:10	79222
Ethene	ND	1.5 µg/L	1 09/25/2014 14:10	79222

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/03/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-553-20140922

Lab ID: N1773-07

Project: Raytheon - Wayland

Collection Date: 09/22/14 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	1800		1.2	µg/L		209/26/2014 11:41	79263
Ethane		ND	2.5	µg/L		209/26/2014 11:41	79263
Ethene		ND	3.1	µg/L		209/26/2014 11:41	79263

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/03/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-560-20140922

Lab ID: N1773-08

Project: Raytheon - Wayland

Collection Date: 09/22/14 12:10

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	1100	0.60 µg/L	1 09/25/2014 14:20	79222
Ethane	ND	1.2 µg/L	1 09/25/2014 14:20	79222
Ethene	ND	1.5 µg/L	1 09/25/2014 14:20	79222

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/03/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-561-20140922

Lab ID: N1773-09

Project: Raytheon - Wayland

Collection Date: 09/22/14 10:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	33000	E	0.60	µg/L		1 09/25/2014 14:35	79222
Ethane	3.4		1.2	µg/L		1 09/25/2014 14:35	79222
Ethene	22		1.5	µg/L		1 09/25/2014 14:35	79222

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/03/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-561-20140922

Lab ID: N1773-09

Project: Raytheon - Wayland

Collection Date: 09/22/14 10:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	18000			12 µg/L		20 09/26/2014 11:51	79263
Ethane		ND		25 µg/L		20 09/26/2014 11:51	79263
Ethene		ND		31 µg/L		20 09/26/2014 11:51	79263

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/03/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-562-20140922

Lab ID: N1773-10

Project: Raytheon - Wayland

Collection Date: 09/22/14 9:40

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	23000 E	0.60 µg/L	1 09/25/2014 14:43	79222
Ethane	6.1	1.2 µg/L	1 09/25/2014 14:43	79222
Ethene	7.9	1.5 µg/L	1 09/25/2014 14:43	79222

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/03/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-562-20140922

Lab ID: N1773-10

Project: Raytheon - Wayland

Collection Date: 09/22/14 9:40

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	23000	12 µg/L	20 09/26/2014 12:07	79263
Ethane	ND	25 µg/L	20 09/26/2014 12:07	79263
Ethene	ND	31 µg/L	20 09/26/2014 12:07	79263

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/03/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-563-20140922

Lab ID: N1773-11

Project: Raytheon - Wayland

Collection Date: 09/22/14 13:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	31000 E	0.60 µg/L	1 09/25/2014 14:50	79222
Ethane	11	1.2 µg/L	1 09/25/2014 14:50	79222
Ethene	6.0	1.5 µg/L	1 09/25/2014 14:50	79222

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/03/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-563-20140922

Lab ID: N1773-11

Project: Raytheon - Wayland

Collection Date: 09/22/14 13:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	18000			12 µg/L		20 09/26/2014 12:26	79263
Ethane		ND		25 µg/L		20 09/26/2014 12:26	79263
Ethene		ND		31 µg/L		20 09/26/2014 12:26	79263

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/03/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: DUP 2-20140922

Lab ID: N1773-12

Project: Raytheon - Wayland

Collection Date: 09/22/14 0:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	22000 E	0.60 µg/L	1 09/29/2014 11:09	79264
Ethane	ND	1.2 µg/L	1 09/29/2014 11:09	79264
Ethene	1.6	1.5 µg/L	1 09/29/2014 11:09	79264

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/03/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: DUP 2-20140922

Lab ID: N1773-12

Project: Raytheon - Wayland

Collection Date: 09/22/14 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	23000		15	µg/L		25 09/29/2014 14:05	79264
Ethane		ND	31	µg/L		25 09/29/2014 14:05	79264
Ethene		ND	39	µg/L		25 09/29/2014 14:05	79264

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.
Work Order: NI1773
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT
RSK175
RSK175 -- Dissolved Gases by GC-FID

Sample ID: MB-79222	SampType: MBLK	TestCode: RSK175	Prep Date: 09/25/14 7:20	Run ID: V7_140925A							
Client ID: MB-79222	Batch ID: 79222	Units: µg/L	Analysis Date: 09/25/14 8:36	SeqNo: 2161208							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.36	0.36				0.60				
Ethane	ND	0.51	0.51				1.2				
Ethene	ND	0.71	0.71				1.5				

Sample ID: MB-79263	SampType: MBLK	TestCode: RSK175	Prep Date: 09/26/14 6:44	Run ID: V7_140926A							
Client ID: MB-79263	Batch ID: 79263	Units: µg/L	Analysis Date: 09/26/14 9:20	SeqNo: 2161256							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.36	0.36				0.60				
Ethane	ND	0.51	0.51				1.2				
Ethene	ND	0.71	0.71				1.5				

Sample ID: MB-79264	SampType: MBLK	TestCode: RSK175	Prep Date: 09/29/14 6:44	Run ID: V7_140929A							
Client ID: MB-79264	Batch ID: 79264	Units: µg/L	Analysis Date: 09/29/14 9:23	SeqNo: 2161286							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.36	0.36				0.60				
Ethane	ND	0.51	0.51				1.2				
Ethene	ND	0.71	0.71				1.5				

Sample ID: LCS-79222	SampType: LCS	TestCode: RSK175	Prep Date: 09/25/14 7:20	Run ID: V7_140925A							
Client ID: LCS-79222	Batch ID: 79222	Units: µg/L	Analysis Date: 09/25/14 7:51	SeqNo: 2161207							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	46.68	0.36	46.29	0	101	75	125	0			
Ethane	82.84	0.51	87.43	0	94.8	75	125	0			
Ethene	96.12	0.71	81.26	0	118	75	125	0			

Sample ID: LCS-79263	SampType: LCS	TestCode: RSK175	Prep Date: 09/26/14 6:44	Run ID: V7_140926A							
Client ID: LCS-79263	Batch ID: 79263	Units: µg/L	Analysis Date: 09/26/14 8:56	SeqNo: 2161254							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	39.24	0.36	46.29	0	84.8	75	125	0			
Ethane	72.02	0.51	87.43	0	82.4	75	125	0			
Ethene	92.13	0.71	81.26	0	113	75	125	0			

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: NI1773
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT
RSK175
RSK175 -- Dissolved Gases by GC-FID

Sample ID: **LCS-79264** SampType: **LCS** TestCode: **RSK175** Prep Date: **09/29/14 6:44** Run ID: **V7_140929A**
 Client ID: **LCS-79264** Batch ID: **79264** Units: **µg/L** Analysis Date: **09/29/14 9:14** SeqNo: **2161284**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	39.89	0.36	0.60	46.29	0	86.2	75	125	0			
Ethane	66.83	0.51	1.2	87.43	0	76.4	75	125	0			
Ethane	83.82	0.71	1.5	81.26	0	103	75	125	0			

Sample ID: **LCSD-79263** SampType: **LCSD** TestCode: **RSK175** Prep Date: **09/26/14 6:44** Run ID: **V7_140926A**
 Client ID: **LCSD-79263** Batch ID: **79263** Units: **µg/L** Analysis Date: **09/26/14 9:10** SeqNo: **2161255**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	38.76	0.36	0.60	46.29	0	83.7	75	125	39.24	1.24	30	
Ethane	69.82	0.51	1.2	87.43	0	79.9	75	125	72.02	3.11	30	
Ethane	87.06	0.71	1.5	81.26	0	107	75	125	92.13	5.66	30	

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m14.09.25.1144 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/26/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-6-20140922

Project: Raytheon - Wayland

Lab ID: N1773-01

Collection Date: 09/22/14 9:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	96000		200	ug/L		1 09/25/2014 10:31	79164

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/26/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-7-20140922

Lab ID: N1773-02

Project: Raytheon - Wayland

Collection Date: 09/22/14 14:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	44000		200	ug/L		1 09/25/2014 10:34	79164

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/26/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-8-20140922

Project: Raytheon - Wayland

Lab ID: N1773-03

Collection Date: 09/22/14 13:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	56000		200	ug/L		1 09/25/2014 10:38	79164

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/26/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-9-20140922

Project: Raytheon - Wayland

Lab ID: N1773-04

Collection Date: 09/22/14 12:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	79000		200	ug/L		1 09/25/2014 10:41	79164

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/26/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-11-20140922

Project: Raytheon - Wayland

Lab ID: N1773-05

Collection Date: 09/22/14 8:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	53000		200	ug/L		1 09/25/2014 10:52	79164

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/26/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-12-20140922

Project: Raytheon - Wayland

Lab ID: N1773-06

Collection Date: 09/22/14 11:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	40000		200	ug/L		1 09/25/2014 10:55	79164

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/26/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-553-20140922

Project: Raytheon - Wayland

Lab ID: N1773-07

Collection Date: 09/22/14 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	20000		200	ug/L		1 09/25/2014 10:59	79164

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/26/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-560-20140922

Lab ID: N1773-08

Project: Raytheon - Wayland

Collection Date: 09/22/14 12:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	110000		200	ug/L		1 09/25/2014 11:03	79164

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/26/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-561-20140922

Lab ID: N1773-09

Project: Raytheon - Wayland

Collection Date: 09/22/14 10:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	67000		200	ug/L		1 09/25/2014 11:06	79164

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/26/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-562-20140922

Lab ID: N1773-10

Project: Raytheon - Wayland

Collection Date: 09/22/14 9:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	360000		200	ug/L		109/25/2014 11:10	79164

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/26/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-563-20140922

Lab ID: N1773-11

Project: Raytheon - Wayland

Collection Date: 09/22/14 13:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	110000		200	ug/L		109/25/2014 11:13	79164

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/26/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: DUP 2-20140922

Project: Raytheon - Wayland

Lab ID: N1773-12

Collection Date: 09/22/14 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	93000		200	ug/L		1 09/25/2014 11:17	79164

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N1773

Project: Raytheon - Wayland

SW6010_W

SW846 6010C -- Metals by ICP

Sample ID: MB-79164	SampType: MBLK	TestCode: SW6010_W	Prep Date: 09/24/14 9:30	Run ID: OPTIMA3_140925A
Client ID: MB-79164	Batch ID: 79164	Units: ug/L	Analysis Date: 09/25/14 9:40	SeqNo: 2156524
Analyte	Result	MDL	SPK Ref Val	RPD Ref Val
Iron	ND	3.1	0	0
		RL	LowLimit	HighLimit
		200	80	120
			%REC	%RPD
			108	0
			SPK value	RPDLimit
			4550	0

Sample ID: LCS-79164	SampType: LCS	TestCode: SW6010_W	Prep Date: 09/24/14 9:30	Run ID: OPTIMA3_140925A
Client ID: LCS-79164	Batch ID: 79164	Units: ug/L	Analysis Date: 09/25/14 9:43	SeqNo: 2156525
Analyte	Result	MDL	SPK Ref Val	RPD Ref Val
Iron	4905	3.1	0	0
		RL	LowLimit	HighLimit
		200	80	120
			%REC	%RPD
			108	0
			SPK value	RPDLimit
			4550	0

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/10/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-6-20140922

Lab ID: N1773-01

Project: Raytheon - Wayland

Collection Date: 09/22/14 9:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 09/29/2014 16:33	79262
Acetic Acid	390		25	mg/L		5 09/30/2014 7:22	79262
Propionic Acid	3.5	J	5.0	mg/L		1 09/29/2014 16:33	79262
Butyric Acid	17		5.0	mg/L		1 09/29/2014 16:33	79262
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	40	B	2.0	mg/L		1 09/23/2014 16:18	79153
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 09/23/2014 16:18	79153
Sulfate	9.6	B	5.0	mg/L		1 09/23/2014 16:18	79153
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	300		20	mg/L CaCO3		1 09/26/2014 15:00	79231
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.5		1.0	S.U.		1 09/23/2014 0:00	R84501
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	ND		0.050	mg/L		1 09/23/2014 13:16	79159
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	740		50	mg/L		5 10/08/2014 16:08	79404

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-7-20140922

Lab ID: N1773-02

Project: Raytheon - Wayland

Collection Date: 09/22/14 14:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 09/29/2014 17:38	79262
Acetic Acid	220		25	mg/L		5 09/30/2014 8:27	79262
Propionic Acid	2.8	J	5.0	mg/L		1 09/29/2014 17:38	79262
Butyric Acid	3.4	J	5.0	mg/L		1 09/29/2014 17:38	79262
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	21	B	2.0	mg/L		1 09/23/2014 16:29	79153
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 09/23/2014 16:29	79153
Sulfate	5.9	B	5.0	mg/L		1 09/23/2014 16:29	79153
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	200		20	mg/L CaCO3		1 09/26/2014 15:00	79231
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.6		1.0	S.U.		1 09/23/2014 0:00	R84501
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	ND		0.050	mg/L		1 09/23/2014 13:20	79159
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	200		10	mg/L		1 10/02/2014 19:23	79338

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/10/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-8-20140922

Lab ID: N1773-03

Project: Raytheon - Wayland

Collection Date: 09/22/14 13:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 09/29/2014 18:42	79262
Acetic Acid	230		25	mg/L		5 09/30/2014 8:49	79262
Propionic Acid	3.2	J	5.0	mg/L		1 09/29/2014 18:42	79262
Butyric Acid	4.7	J	5.0	mg/L		1 09/29/2014 18:42	79262
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	33	B	2.0	mg/L		1 09/23/2014 16:41	79153
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 09/23/2014 16:41	79153
Sulfate	6.9	B	5.0	mg/L		1 09/23/2014 16:41	79153
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	210		20	mg/L CaCO3		1 09/26/2014 15:00	79231
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.8		1.0	S.U.		1 09/23/2014 0:00	R84501
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	ND		0.050	mg/L		1 09/23/2014 13:24	79159
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	230		10	mg/L		1 10/02/2014 20:31	79338

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/10/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-9-20140922

Lab ID: N1773-04

Project: Raytheon - Wayland

Collection Date: 09/22/14 12:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 09/29/2014 19:04	79262
Acetic Acid	380		25	mg/L		5 09/30/2014 9:10	79262
Propionic Acid	4.8	J	5.0	mg/L		1 09/29/2014 19:04	79262
Butyric Acid	11		5.0	mg/L		1 09/29/2014 19:04	79262
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	21	B	2.0	mg/L		1 09/23/2014 16:53	79153
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 09/23/2014 16:53	79153
Sulfate	14	B	5.0	mg/L		1 09/23/2014 16:53	79153
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	250		20	mg/L CaCO3		1 09/26/2014 15:00	79231
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.5		1.0	S.U.		1 09/23/2014 0:00	R84501
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	ND		0.050	mg/L		1 09/23/2014 13:28	79159
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	580		50	mg/L		5 10/08/2014 16:32	79404

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-11-20140922

Lab ID: N1773-05

Project: Raytheon - Wayland

Collection Date: 09/22/14 8:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 09/29/2014 19:25	79262
Acetic Acid	220		25	mg/L		5 09/30/2014 9:32	79262
Propionic Acid	3.9	J	5.0	mg/L		1 09/29/2014 19:25	79262
Butyric Acid	4.7	J	5.0	mg/L		1 09/29/2014 19:25	79262
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	28	B	2.0	mg/L		1 09/23/2014 17:05	79153
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 09/23/2014 17:05	79153
Sulfate	2.3	BJ	5.0	mg/L		1 09/23/2014 17:05	79153
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	270		20	mg/L CaCO3		1 09/26/2014 15:00	79231
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.2		1.0	S.U.		1 09/23/2014 0:00	R84501
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	ND		0.050	mg/L		1 09/23/2014 13:32	79159
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	190		10	mg/L		1 10/02/2014 21:26	79338

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-12-20140922

Lab ID: N1773-06

Project: Raytheon - Wayland

Collection Date: 09/22/14 11:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 09/29/2014 19:47	79262
Acetic Acid	160		25	mg/L		5 09/30/2014 9:53	79262
Propionic Acid	0.66	J	5.0	mg/L		1 09/29/2014 19:47	79262
Butyric Acid	2.3	J	5.0	mg/L		1 09/29/2014 19:47	79262
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	36	B	2.0	mg/L		1 09/23/2014 17:16	79153
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 09/23/2014 17:16	79153
Sulfate	9.4	B	5.0	mg/L		1 09/23/2014 17:16	79153
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	170		20	mg/L CaCO3		1 09/26/2014 15:00	79231
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.4		1.0	S.U.		1 09/23/2014 0:00	R84501
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	ND		0.050	mg/L		1 09/23/2014 13:36	79159
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	120		10	mg/L		1 10/02/2014 21:51	79338

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/10/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-553-20140922

Lab ID: N1773-07

Project: Raytheon - Wayland

Collection Date: 09/22/14 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 09/29/2014 20:08	79262
Acetic Acid	1.0	J	5.0	mg/L		1 09/29/2014 20:08	79262
Propionic Acid	ND		5.0	mg/L		1 09/29/2014 20:08	79262
Butyric Acid	ND		5.0	mg/L		1 09/29/2014 20:08	79262
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	21	B	2.0	mg/L		1 09/23/2014 17:28	79153
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 09/23/2014 17:28	79153
Sulfate	0.67	BJ	5.0	mg/L		1 09/23/2014 17:28	79153
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	520		20	mg/L CaCO3		1 09/26/2014 15:00	79231
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	7.0		1.0	S.U.		1 09/23/2014 0:00	R84501
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.074		0.050	mg/L		1 09/23/2014 13:40	79159
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	5.5	J	10	mg/L		1 10/02/2014 22:12	79338

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-560-20140922

Lab ID: N1773-08

Project: Raytheon - Wayland

Collection Date: 09/22/14 12:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 09/29/2014 20:30	79262
Acetic Acid	310		25	mg/L		5 09/30/2014 10:15	79262
Propionic Acid	13		5.0	mg/L		1 09/29/2014 20:30	79262
Butyric Acid	11		5.0	mg/L		1 09/29/2014 20:30	79262
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	31	B	2.0	mg/L		1 09/23/2014 17:40	79153
Nitrogen, Nitrate (As N)	4.2		0.26	mg/L		2 09/24/2014 12:36	79153
Sulfate	0.37	BJ	5.0	mg/L		1 09/23/2014 17:40	79153
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	340		40	mg/L CaCO3		2 09/26/2014 15:00	79231
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.4		1.0	S.U.		1 09/23/2014 0:00	R84501
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.086		0.050	mg/L		1 09/23/2014 13:44	79159
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	210		10	mg/L		1 10/02/2014 22:34	79338

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/10/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-561-20140922

Lab ID: N1773-09

Project: Raytheon - Wayland

Collection Date: 09/22/14 10:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 09/29/2014 21:34	79262
Acetic Acid	630		50	mg/L		10 09/30/2014 11:41	79262
Propionic Acid	8.9		5.0	mg/L		1 09/29/2014 21:34	79262
Butyric Acid	31		5.0	mg/L		1 09/29/2014 21:34	79262
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	32	B	2.0	mg/L		1 09/23/2014 18:15	79153
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 09/23/2014 18:15	79153
Sulfate	0.31	BJ	5.0	mg/L		1 09/23/2014 18:15	79153
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	380		20	mg/L CaCO3		1 09/26/2014 15:00	79231
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	5.5		1.0	S.U.		1 09/23/2014 0:00	R84501
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.059		0.050	mg/L		1 09/23/2014 13:48	79159
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	2400		100	mg/L		10 10/08/2014 16:56	79404

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/10/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-562-20140922

Lab ID: N1773-10

Project: Raytheon - Wayland

Collection Date: 09/22/14 9:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 09/29/2014 21:55	79262
Acetic Acid	1200		100	mg/L		20 09/30/2014 12:02	79262
Propionic Acid	18		5.0	mg/L		1 09/29/2014 21:55	79262
Butyric Acid	110		100	mg/L		20 09/30/2014 12:02	79262
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	38	B	2.0	mg/L		1 09/23/2014 18:27	79153
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 09/23/2014 18:27	79153
Sulfate	0.41	BJ	5.0	mg/L		1 09/23/2014 18:27	79153
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	810		20	mg/L CaCO3		1 09/26/2014 15:00	79231
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	5.4		1.0	S.U.		1 09/23/2014 0:00	R84501
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	11		1.3	mg/L		1 09/23/2014 13:52	79159
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	5300		200	mg/L		20 10/10/2014 10:35	79459

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-563-20140922

Lab ID: N1773-11

Project: Raytheon - Wayland

Collection Date: 09/22/14 13:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 09/29/2014 22:17	79262
Acetic Acid	300		25	mg/L		5 09/30/2014 12:24	79262
Propionic Acid	9.7		5.0	mg/L		1 09/29/2014 22:17	79262
Butyric Acid	17		5.0	mg/L		1 09/29/2014 22:17	79262
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	53	B	2.0	mg/L		1 09/23/2014 18:39	79153
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 09/23/2014 18:39	79153
Sulfate	0.35	BJ	5.0	mg/L		1 09/23/2014 18:39	79153
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	330		80	mg/L CaCO3		4 09/26/2014 15:00	79231
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.4		1.0	S.U.		1 09/23/2014 0:00	R84501
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	ND		0.050	mg/L		1 09/23/2014 13:56	79159
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	380		10	mg/L		1 10/02/2014 23:54	79338

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/10/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: DUP 2-20140922

Lab ID: N1773-12

Project: Raytheon - Wayland

Collection Date: 09/22/14 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 09/29/2014 22:38	79262
Acetic Acid	380		25	mg/L		5 09/30/2014 12:45	79262
Propionic Acid	6.1		5.0	mg/L		1 09/29/2014 22:38	79262
Butyric Acid	17		5.0	mg/L		1 09/29/2014 22:38	79262
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	39	B	2.0	mg/L		1 09/23/2014 18:50	79153
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 09/23/2014 18:50	79153
Sulfate	9.0	B	5.0	mg/L		1 09/23/2014 18:50	79153
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	290		20	mg/L CaCO3		1 09/26/2014 15:00	79231
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.3		1.0	S.U.		1 09/23/2014 0:00	R84501
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.054		0.050	mg/L		1 09/23/2014 14:00	79159
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	750		50	mg/L		5 10/08/2014 17:50	79404

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT
E300_VOA_W
EPA 300.0 Modified -- Volatile Organic Acids

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: N1773
Project: Raytheon - Wayland

Sample ID:	MB-79262	SampType:	MBLK	TestCode:	E300_VOA_W	Prep Date:	09/29/14 14:35	Run ID:	IC1_140929A		
Client ID:	MB-79262	Batch ID:	79262	Units:	mg/L	Analysis Date:	09/29/14 15:06	SeqNo:	2159098		
Analyte	Result	MDL	RL	SPK value	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lactic Acid	ND	2.2	5.0	50.00	92.0	75	125	0	0		
Acetic Acid	ND	0.35	5.0	50.00	99.8	75	125	0	0		
Propionic Acid	ND	0.50	5.0	50.00	97.6	75	125	0	0		
Butyric Acid	ND	0.45	5.0	50.00	94.2	75	125	0	0		

Sample ID:	LCS-79262	SampType:	LCS	TestCode:	E300_VOA_W	Prep Date:	09/29/14 14:35	Run ID:	IC1_140929A		
Client ID:	LCS-79262	Batch ID:	79262	Units:	mg/L	Analysis Date:	09/29/14 15:27	SeqNo:	2159099		
Analyte	Result	MDL	RL	SPK value	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lactic Acid	46.02	2.2	5.0	50.00	92.0	75	125	0	0		
Acetic Acid	49.90	0.35	5.0	50.00	99.8	75	125	0	0		
Propionic Acid	48.79	0.50	5.0	50.00	97.6	75	125	0	0		
Butyric Acid	47.10	0.45	5.0	50.00	94.2	75	125	0	0		

Sample ID:	N1773-01BMS	SampType:	MS	TestCode:	E300_VOA_W	Prep Date:	09/29/14 14:35	Run ID:	IC1_140929A		
Client ID:	REW-6-20140922	Batch ID:	79262	Units:	mg/L	Analysis Date:	09/29/14 16:55	SeqNo:	2159103		
Analyte	Result	MDL	RL	SPK value	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lactic Acid	48.56	2.2	5.0	50.00	97.1	75	125	0	0		
Propionic Acid	54.20	0.50	5.0	50.00	101	75	125	0	0		
Butyric Acid	64.28	0.45	5.0	50.00	17.35	75	125	0	0		

Sample ID:	N1773-01BMS	SampType:	MS	TestCode:	E300_VOA_W	Prep Date:	09/29/14 14:35	Run ID:	IC1_140930A		
Client ID:	REW-6-20140922	Batch ID:	79262	Units:	mg/L	Analysis Date:	09/30/14 7:44	SeqNo:	2159850		
Analyte	Result	MDL	RL	SPK value	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetic Acid	416.8	1.8	25	50.00	389.5	54.8	75	125	0	0	S

Sample ID:	N1773-01BMSD	SampType:	MSD	TestCode:	E300_VOA_W	Prep Date:	09/29/14 14:35	Run ID:	IC1_140929A		
Client ID:	REW-6-20140922	Batch ID:	79262	Units:	mg/L	Analysis Date:	09/29/14 17:16	SeqNo:	2159104		
Analyte	Result	MDL	RL	SPK value	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lactic Acid	49.17	2.2	5.0	50.00	98.3	75	125	48.56	1.24	25	
Propionic Acid	53.06	0.50	5.0	50.00	99.1	75	125	54.20	2.12	25	
Butyric Acid	64.01	0.45	5.0	50.00	93.3	75	125	64.28	0.414	25	

Qualifiers: ND - Not Detected at the MDL
 J - Analyte detected below quantitation limits
 S - Recovery outside accepted recovery limits
 MDL - Method Detection Limit
 RL - Reporting Limit
 B - Analyte detected in the associated Method Blank

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N1773

Subject: Raytheon - Wayland

E300_VOA_W

EPA 300.0 Modified -- Volatile Organic Acids

Sample ID: N1773-01BMSD	SampType: MSD	TestCode: E300_VOA_W	Prep Date: 09/29/14 14:35	Run ID: IC1_140930A
Client ID: REW-6-20140922	Batch ID: 79262	Units: mg/L	Analysis Date: 09/30/14 8:05	SeqNo: 2159852
Analyte	Result	MDL	SPK Ref Val	SPK value
Acetic Acid	419.2	1.8	389.5	50.00
		RL	%REC	LowLimit
		25	59.5	75
			HighLimit	RPD Ref Val
			125	416.8
			%RPD	RPDLimit
			0.566	25
				S

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N1773

E300IC_W

Project: Raytheon - Wayland

EPA 300.0 -- Anions by Ion Chromotography (LOW)

Sample ID: MB-79153	SampType: MBLK	TestCode: E300IC_W	Prep Date: 09/23/14 12:10	Run ID: IC1_140923A							
Client ID: MB-79153	Batch ID: 79153	Units: mg/L	Analysis Date: 09/23/14 12:23	SeqNo: 2156091							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	1.214	0.28									J
Nitrogen, Nitrate (As N)	ND	0.083									J
Sulfate	0.3249	0.15									J

Sample ID: LCS-79153	SampType: LCS	TestCode: E300IC_W	Prep Date: 09/23/14 12:10	Run ID: IC1_140923A							
Client ID: LCS-79153	Batch ID: 79153	Units: mg/L	Analysis Date: 09/23/14 12:34	SeqNo: 2156092							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	14.96	0.28	16.00	0	93.5	90	110	0	0		B
Nitrogen, Nitrate (As N)	0.9698	0.083	1.000	0	97.0	90	110	0	0		B
Sulfate	38.78	0.15	40.00	0	96.9	90	110	0	0		B

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m 14.1003.1043 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N1773

SM2320_W

Project: Raytheon - Wayland

SM 2320B -- Alkalinity (Total)

Sample ID: MB-79231	SampType: MBLK	TestCode: SM2320_W	Prep Date: 09/26/14 14:00	Run ID: MANUAL_140926C
Client ID: MB-79231	Batch ID: 79231	Units: mg/L CaCO3	Analysis Date: 09/26/14 15:00	SeqNo: 2159155
Analyte	Result	MDL	SPK Ref Val	RPD Ref Val
Alkalinity, Total (As CaCO3)	ND	20	0	0
		RL	%REC	%RPD
		20	101	120
			LowLimit	HighLimit
			80	120
			RPD Ref Val	RPD Limit
			0	0

Sample ID: LCS-79231	SampType: LCS	TestCode: SM2320_W	Prep Date: 09/26/14 14:00	Run ID: MANUAL_140926C
Client ID: LCS-79231	Batch ID: 79231	Units: mg/L CaCO3	Analysis Date: 09/26/14 15:00	SeqNo: 2159156
Analyte	Result	MDL	SPK Ref Val	RPD Ref Val
Alkalinity, Total (As CaCO3)	101.0	20	0	0
		RL	%REC	%RPD
		20	101	120
			LowLimit	HighLimit
			80	120
			RPD Ref Val	RPD Limit
			0	0

Sample ID: LCSD-79231	SampType: LCSD	TestCode: SM2320_W	Prep Date: 09/26/14 14:00	Run ID: MANUAL_140926C
Client ID: LCSD-79231	Batch ID: 79231	Units: mg/L CaCO3	Analysis Date: 09/26/14 15:00	SeqNo: 2159157
Analyte	Result	MDL	SPK Ref Val	RPD Ref Val
Alkalinity, Total (As CaCO3)	101.0	20	0	0
		RL	%REC	%RPD
		20	101	120
			LowLimit	HighLimit
			80	120
			RPD Ref Val	RPD Limit
			0	0

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m 14.1003.1043 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N1773

Project: Raytheon - Wayland

SM4500_H+

SM 4500 H+ B -- pH VALUE

Sample ID: N1773-12FDUP	SampType: DUP	TestCode: SM4500_H+	Prep Date: 09/23/14 0:00	Run ID: WC03_140923A						
Client ID: DUP 2-20140922	Batch ID: R84501	Units: S.U.	Analysis Date: 09/23/14 0:00	SeqNo: 2155542						
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.360	1.0	0	0	0	0	6.330	0.473	20	

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N1773

Project: Raytheon - Wayland

SM4500_OP_W

SM 4500P-E OP -- Orthophosphate

Sample ID: MB-79159	SampType: MBLK	TestCode: SM4500_OP_W	Prep Date: 09/23/14 13:00	Run ID: SPEC2_140923A
Client ID: MB-79159	Batch ID: 79159	Units: mg/L	Analysis Date: 09/23/14 13:00	SeqNo: 2155448
Analyte	Result	MDL	SPK Ref Val	SPK value
Orthophosphate (As PO4)	ND	0.050	0	0.4128
			%REC	LowLimit
			105	80
			RPD Ref Val	%RPD
			0	0.4332
			HighLimit	RPDLimit
			120	20

Sample ID: LCS-79159	SampType: LCS	TestCode: SM4500_OP_W	Prep Date: 09/23/14 13:00	Run ID: SPEC2_140923A
Client ID: LCS-79159	Batch ID: 79159	Units: mg/L	Analysis Date: 09/23/14 13:04	SeqNo: 2155449
Analyte	Result	MDL	SPK Ref Val	SPK value
Orthophosphate (As PO4)	0.4332	0.050	0	0.4128
			%REC	LowLimit
			105	80
			RPD Ref Val	%RPD
			0	0.4332
			HighLimit	RPDLimit
			120	20

Sample ID: LCSD-79159	SampType: LCSD	TestCode: SM4500_OP_W	Prep Date: 09/23/14 13:00	Run ID: SPEC2_140923A
Client ID: LCSD-79159	Batch ID: 79159	Units: mg/L	Analysis Date: 09/23/14 13:08	SeqNo: 2155450
Analyte	Result	MDL	SPK Ref Val	SPK value
Orthophosphate (As PO4)	0.4248	0.050	0	0.4128
			%REC	LowLimit
			103	80
			RPD Ref Val	%RPD
			0	0.4332
			HighLimit	RPDLimit
			120	20

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m 14.1003.1043 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: N1773
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT
SM5310B_TOC_W
SM 5310B TOC -- Total Organic Carbon by combustion

Sample ID: MB-79338	SampType: MBLK	TestCode: SM5310B_TOC_W	Prep Date: 10/02/14 14:48	Run ID: TOC1_141002A
Client ID: MB-79338	Batch ID: 79338	Units: mg/L	Analysis Date: 10/02/14 16:16	SeqNo: 2161708
Analyte	Result	MDL	SPK Ref Val	%REC
	ND	2.0	SPK value	LowLimit
Organic Carbon, Total			HighLimit	%RPD
			RPD Ref Val	RPDLimit
			Qual	

Sample ID: MB-79404	SampType: MBLK	TestCode: SM5310B_TOC_W	Prep Date: 10/08/14 10:00	Run ID: TOC1_141008A
Client ID: MB-79404	Batch ID: 79404	Units: mg/L	Analysis Date: 10/08/14 15:03	SeqNo: 2164917
Analyte	Result	MDL	SPK Ref Val	%REC
	ND	2.0	SPK value	LowLimit
Organic Carbon, Total			HighLimit	%RPD
			RPD Ref Val	RPDLimit
			Qual	

Sample ID: MB-79459	SampType: MBLK	TestCode: SM5310B_TOC_W	Prep Date: 10/10/14 7:53	Run ID: TOC1_141010A
Client ID: MB-79459	Batch ID: 79459	Units: mg/L	Analysis Date: 10/10/14 9:29	SeqNo: 2165835
Analyte	Result	MDL	SPK Ref Val	%REC
	ND	2.0	SPK value	LowLimit
Organic Carbon, Total			HighLimit	%RPD
			RPD Ref Val	RPDLimit
			Qual	

Sample ID: LCS-79338	SampType: LCS	TestCode: SM5310B_TOC_W	Prep Date: 10/02/14 14:48	Run ID: TOC1_141002A
Client ID: LCS-79338	Batch ID: 79338	Units: mg/L	Analysis Date: 10/02/14 16:36	SeqNo: 2161709
Analyte	Result	MDL	SPK Ref Val	%REC
	67.03	2.0	60.00	112
Organic Carbon, Total			80	120
			0	0
			RPD Ref Val	%RPD
			RPDLimit	Qual

Sample ID: LCS-79404	SampType: LCS	TestCode: SM5310B_TOC_W	Prep Date: 10/08/14 10:00	Run ID: TOC1_141008A
Client ID: LCS-79404	Batch ID: 79404	Units: mg/L	Analysis Date: 10/08/14 15:25	SeqNo: 2164918
Analyte	Result	MDL	SPK Ref Val	%REC
	66.83	2.0	60.00	111
Organic Carbon, Total			80	120
			0	0
			RPD Ref Val	%RPD
			RPDLimit	Qual

Sample ID: LCS-79459	SampType: LCS	TestCode: SM5310B_TOC_W	Prep Date: 10/10/14 7:53	Run ID: TOC1_141010A
Client ID: LCS-79459	Batch ID: 79459	Units: mg/L	Analysis Date: 10/10/14 9:51	SeqNo: 2165836
Analyte	Result	MDL	SPK Ref Val	%REC
	68.38	2.0	60.00	114
Organic Carbon, Total			80	120
			0	0
			RPD Ref Val	%RPD
			RPDLimit	Qual

Sample ID: LCSD-79338	SampType: LCSD	TestCode: SM5310B_TOC_W	Prep Date: 10/02/14 14:48	Run ID: TOC1_141002A
Client ID: LCSD-79338	Batch ID: 79338	Units: mg/L	Analysis Date: 10/02/14 16:57	SeqNo: 2161710
Analyte	Result	MDL	SPK Ref Val	%REC
	68.60	2.0	60.00	114
Organic Carbon, Total			80	120
			0	0
			RPD Ref Val	%RPD
			RPDLimit	Qual

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits R - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N1773

SM5310B_TOC_W

Project: Raytheon - Wayland

SM 5310B TOC -- Total Organic Carbon by combustion

Sample ID: LCSD-79404	SampType: LCSD	TestCode: SM5310B_TOC_W	Prep Date: 10/08/14 10:00	Run ID: TOC1_141008A	
Client ID: LCSD-79404	Batch ID: 79404	Units: mg/L	Analysis Date: 10/08/14 15:46	SeqNo: 2164919	
Analyte	Result	MDL	SPK Ref Val	LowLimit	HighLimit
Organic Carbon, Total	69.54	2.0	0	116	120
			SPK value	%REC	RPD Ref Val
			60.00	1.16	66.83
					%RPD
					3.98
					20

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

Report Date:
03-Oct-14 12:23



- Final Report
- Re-Issued Report
- Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY
Laboratory Report

Spectrum Analytical, Inc.
646 Camp Ave.
North Kingstown, RI 02852
Attn: Agnes Huntley

Project: Raytheon-Wayland
Project #: N1773

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB96955-01	REW-6-20140922	Aqueous	22-Sep-14 09:50	24-Sep-14 16:45
SB96955-02	REW-7-20140922	Aqueous	22-Sep-14 14:00	24-Sep-14 16:45
SB96955-03	REW-8-20140922	Aqueous	22-Sep-14 13:15	24-Sep-14 16:45
SB96955-04	REW-9-20140922	Aqueous	22-Sep-14 12:35	24-Sep-14 16:45
SB96955-05	REW-11-20140922	Aqueous	22-Sep-14 08:15	24-Sep-14 16:45
SB96955-06	REW-12-20140922	Aqueous	22-Sep-14 11:10	24-Sep-14 16:45
SB96955-07	MW-553-20140922	Aqueous	22-Sep-14 14:10	24-Sep-14 16:45
SB96955-08	MW-560-20140922	Aqueous	22-Sep-14 12:10	24-Sep-14 16:45
SB96955-09	MW-561-20140922	Aqueous	22-Sep-14 10:50	24-Sep-14 16:45
SB96955-10	MW-562-20140922	Aqueous	22-Sep-14 09:40	24-Sep-14 16:45
SB96955-11	MW-563-20140922	Aqueous	22-Sep-14 13:00	24-Sep-14 16:45
SB96955-12	DUP 2-20140922	Aqueous	22-Sep-14 00:00	24-Sep-14 16:45

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435



Authorized by:

A handwritten signature in black ink that reads "Nicole Leja".

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 8 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, NJ-MA012, PA-68-04426 and FL-E87936).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

The samples were received 0.5 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Acceptance Check Form

Client: Spectrum Analytical, Inc. - North Kingstown, RI
 Project: Raytheon-Wayland / N1773
 Work Order: SB96955
 Sample(s) received on: 9/24/2014

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
1. Were custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Were custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Were samples cooled on ice upon transfer to laboratory representative?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Were samples refrigerated upon transfer to laboratory representative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sample Identification

REW-6-20140922
SB96955-01

Client Project #
N1773

Matrix
Aqueous

Collection Date/Time
22-Sep-14 09:50

Received
24-Sep-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N	0.140	J	mg/l	0.200	0.118	1	SM4500-NH3 C.	26-Sep-14	26-Sep-14	EEM	1422728	X
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Sample Identification

REW-7-20140922
SB96955-02

Client Project #
N1773

Matrix
Aqueous

Collection Date/Time
22-Sep-14 14:00

Received
24-Sep-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N	0.210		mg/l	0.200	0.118	1	SM4500-NH3 C.	26-Sep-14	26-Sep-14	EEM	1422728	X
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Sample Identification

REW-8-20140922
SB96955-03

Client Project #
N1773

Matrix
Aqueous

Collection Date/Time
22-Sep-14 13:15

Received
24-Sep-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N	0.140	J	mg/l	0.200	0.118	1	SM4500-NH3 C.	26-Sep-14	26-Sep-14	EEM	1422728	X
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Sample Identification

REW-9-20140922
SB96955-04

Client Project #
N1773

Matrix
Aqueous

Collection Date/Time
22-Sep-14 12:35

Received
24-Sep-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N	0.280		mg/l	0.200	0.118	1	SM4500-NH3 C.	26-Sep-14	26-Sep-14	EEM	1422728	X
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Sample Identification

REW-11-20140922
SB96955-05

Client Project #
N1773

Matrix
Aqueous

Collection Date/Time
22-Sep-14 08:15

Received
24-Sep-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N	0.280		mg/l	0.200	0.118	1	SM4500-NH3 C.	26-Sep-14	26-Sep-14	EEM	1422728	X
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Sample Identification

REW-12-20140922
SB96955-06

Client Project #
N1773

Matrix
Aqueous

Collection Date/Time
22-Sep-14 11:10

Received
24-Sep-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N	0.210		mg/l	0.200	0.118	1	SM4500-NH3 C.	26-Sep-14	26-Sep-14	EEM	1422728	X
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Sample Identification

MW-553-20140922

SB96955-07

Client Project #

N1773

Matrix

Aqueous

Collection Date/Time

22-Sep-14 14:10

Received

24-Sep-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N

0.910

mg/l

0.200

0.118

1

SM4500-NH3 C.

26-Sep-14

26-Sep-14

EEM

1422728

X

Sample Identification

MW-560-20140922

SB96955-08

Client Project #

N1773

Matrix

Aqueous

Collection Date/Time

22-Sep-14 12:10

Received

24-Sep-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N

0.910

mg/l

0.200

0.118

1

SM4500-NH3 C.

26-Sep-14

26-Sep-14

EEM

1422728

X

Sample Identification

MW-561-20140922

SB96955-09

Client Project #

N1773

Matrix

Aqueous

Collection Date/Time

22-Sep-14 10:50

Received

24-Sep-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N

0.420

mg/l

0.200

0.118

1

SM4500-NH3 C.

26-Sep-14

26-Sep-14

EEM

1422728

X

Sample Identification

MW-562-20140922

SB96955-10

Client Project #

N1773

Matrix

Aqueous

Collection Date/Time

22-Sep-14 09:40

Received

24-Sep-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N

< 0.200

U

mg/l

0.200

0.118

1

SM4500-NH3 C.

26-Sep-14

26-Sep-14

EEM

1422728

X

Sample Identification

MW-563-20140922

SB96955-11

Client Project #

N1773

Matrix

Aqueous

Collection Date/Time

22-Sep-14 13:00

Received

24-Sep-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N

0.140

J

mg/l

0.200

0.118

1

SM4500-NH3 C.

26-Sep-14

26-Sep-14

EEM

1422728

X

Sample Identification

DUP 2-20140922

SB96955-12

Client Project #

N1773

Matrix

Aqueous

Collection Date/Time

22-Sep-14 00:00

Received

24-Sep-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N

0.210

mg/l

0.200

0.118

1

SM4500-NH3 C.

26-Sep-14

26-Sep-14

EEM

1422728

X

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1422728 - General Preparation										
<u>Blank (1422728-BLK1)</u>										
Ammonia as N	< 0.200	U	mg/l	0.200						
<u>LCS (1422728-BS1)</u>										
Ammonia as N	4.97		mg/l	0.200	5.00		99	90-110		
<u>Reference (1422728-SRM1)</u>										
Ammonia as N	1.89		mg/l	0.200	1.92		98	84-116		

Notes and Definitions

J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
Nicole Leja

CHAIN-OF-CUSTODY RECORD

SB910955 mmw

WorkOrder : N1773

Project: Raytheon - Wayland

Report Type : LEVEL 2

Due Date : 10/3/2014

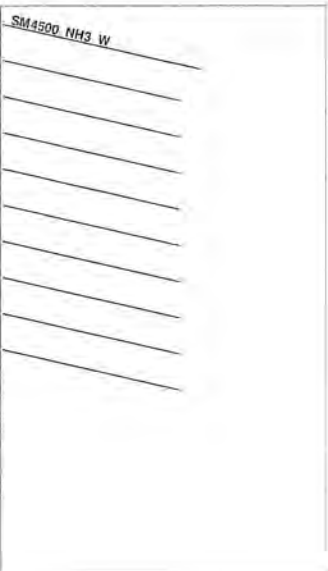
FAX Due Date :

Report To : Agnes R Huntley

Purchase Order : N1773

EDD Types : **Please generate a Little PEL EDD**

Requested Test



EQUSFacilityCode: N/A

Client Sample ID

Collection Date

Matrix

DUP/MS/MSD

Mitkem Sample ID

= number of containers

REW-6-20140922	SB910955-01	09/22/2014 09:50	1	Aqueous		N1773-01E	X											
REW-7-20140922		09/22/2014 14:00	1	Aqueous		N1773-02E	X											
REW-8-20140922		09/22/2014 13:15	1	Aqueous		N1773-03E	X											
REW-9-20140922		09/22/2014 12:35	1	Aqueous		N1773-04E	X											
REW-11-20140922		09/22/2014 08:15	1	Aqueous		N1773-05E	X											
REW-12-20140922		09/22/2014 11:10	1	Aqueous		N1773-06E	X											

1) SM4500_NH3_W, NITROGEN (AMMONIA)

Use 'Client Sample ID' when reporting data. If needed, truncate 'Client Sample ID' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments:

Relinquished by:	<i>Agnes R Huntley</i>	Date/Time		Received by:	<i>Wayne Wilson</i>	Date/Time	
Relinquished by:	<i>AR</i>	9/24/2014		Received by:	<i>Wayne Wilson</i>	9/24/2014	10:45

646 Camp Ave * North Kingstown * RI * 028524008 * 401-732-3400 * 401-732-3499
 www.spectrum-analytical.com

05/06/05 IR
 9/24/14
 N1773



CHAIN-OF-CUSTODY RECORD

SB9100955mm

WorkOrder : N1773

Project: Raytheon - Wayland

Report Type : LEVEL 2

Due Date : 10/3/2014

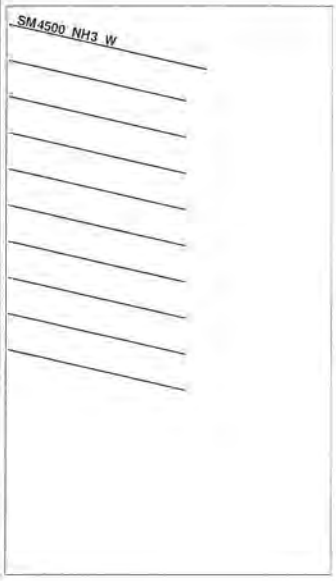
FAX Due Date :

Report To : Agnes R Huntley

Purchase Order : N1773

EDD Types : **Please generate a Little PEL EDD**

Requested Test



Subcontractor:
Spectrum Analytical, Inc. - Agawam, MA
11 Almgren Drive
Agawam, Massachusetts 01001
Phone: (413) 789-9018
EQUIFacilityCode: N/A

= number of containers

Client Sample ID	Collection Date	#	Matrix	DUP/MS/MSD	Mitkem Sample ID																
MMW-553-20140922	09/22/2014 14:10	1	Aqueous		N1773-07E	X															
MMW-560-20140922	09/22/2014 12:10	1	Aqueous		N1773-08E	X															
MMW-561-20140922	09/22/2014 10:50	1	Aqueous		N1773-09E	X															
MMW-562-20140922	09/22/2014 09:40	1	Aqueous		N1773-10E	X															
MMW-563-20140922	09/22/2014 13:00	1	Aqueous		N1773-11E	X															
DUP 2-20140922	09/22/2014 00:00	1	Aqueous		N1773-12E	X															

1) SM4500_NH3_W_NITROGEN (AMMONIA)

Use 'Client Sample ID's' when reporting data. If needed, truncate 'Client Sample ID's' to fit on reports. Use full 'Client Sample ID' when generating EDD.
Comments:

Reinquished by:		Date/Time		Received by:		Date/Time	
Reinquished by:		9-24-2014		Received by:		9-24-14 12:00	
						9-24-14 10:45	

646 Camp Ave * North Kingstown * RI * 028524008 * 401-732-3400 * 401-732-3499
www.spectrum-analytical.com

05/10/05 IR
9-24-14 NW
N1773

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N1773

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-006

HC Due: 10/03/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N1773-01A	REW-6-20140922	09/22/2014 09:50	09/23/2014	Aqueous	SM5310B_TOC_W	/					R22
N1773-01B	REW-6-20140922	09/22/2014 09:50	09/23/2014	Aqueous	E300_VOA_W	/				Y	R22
N1773-01C	REW-6-20140922	09/22/2014 09:50	09/23/2014	Aqueous	RSK175	/					VOA
N1773-01D	REW-6-20140922	09/22/2014 09:50	09/23/2014	Aqueous	SM4500_OP_W	/					T2
N1773-01E	REW-6-20140922	09/22/2014 09:50	09/23/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1773-01F	REW-6-20140922	09/22/2014 09:50	09/23/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	T2
N1773-01F	REW-6-20140922	09/22/2014 09:50	09/23/2014	Aqueous	SM2320_W	/					T2
N1773-01F	REW-6-20140922	09/22/2014 09:50	09/23/2014	Aqueous	SM4500_H+	/					T2
N1773-01G	REW-6-20140922	09/22/2014 09:50	09/23/2014	Aqueous	SW6010_W	/ Fe only				Y	M2
N1773-02A	REW-7-20140922	09/22/2014 14:00	09/23/2014	Aqueous	SM5310B_TOC_W	/					R22
N1773-02B	REW-7-20140922	09/22/2014 14:00	09/23/2014	Aqueous	E300_VOA_W	/				Y	R22
N1773-02C	REW-7-20140922	09/22/2014 14:00	09/23/2014	Aqueous	RSK175	/					VOA
N1773-02D	REW-7-20140922	09/22/2014 14:00	09/23/2014	Aqueous	SM4500_OP_W	/					T2
N1773-02E	REW-7-20140922	09/22/2014 14:00	09/23/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1773-02F	REW-7-20140922	09/22/2014 14:00	09/23/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	T2
N1773-02F	REW-7-20140922	09/22/2014 14:00	09/23/2014	Aqueous	SM2320_W	/					T2
N1773-02F	REW-7-20140922	09/22/2014 14:00	09/23/2014	Aqueous	SM4500_H+	/					T2
N1773-02G	REW-7-20140922	09/22/2014 14:00	09/23/2014	Aqueous	SW6010_W	/ Fe only				Y	M2
N1773-03A	REW-8-20140922	09/22/2014 13:15	09/23/2014	Aqueous	SM5310B_TOC_W	/					R22

HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N1773

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-006

HC Due: 10/03/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N1773-03B	REW-8-20140922	09/22/2014 13:15	09/23/2014	Aqueous	E300_VOA_W	/				Y	R22
N1773-03C	REW-8-20140922	09/22/2014 13:15	09/23/2014	Aqueous	RSK175	/					VOA
N1773-03D	REW-8-20140922	09/22/2014 13:15	09/23/2014	Aqueous	SM4500_OP_W	/					T2
N1773-03E	REW-8-20140922	09/22/2014 13:15	09/23/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1773-03F	REW-8-20140922	09/22/2014 13:15	09/23/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	T2
N1773-03F	REW-8-20140922	09/22/2014 13:15	09/23/2014	Aqueous	SM2320_W	/					T2
N1773-03F	REW-8-20140922	09/22/2014 13:15	09/23/2014	Aqueous	SM4500_H+	/					T2
N1773-03G	REW-8-20140922	09/22/2014 13:15	09/23/2014	Aqueous	SW6010_W	/ Fe only				Y	M2
N1773-04A	REW-9-20140922	09/22/2014 12:35	09/23/2014	Aqueous	SM5310B_TOC_W	/					R22
N1773-04B	REW-9-20140922	09/22/2014 12:35	09/23/2014	Aqueous	E300_VOA_W	/				Y	R22
N1773-04C	REW-9-20140922	09/22/2014 12:35	09/23/2014	Aqueous	RSK175	/					VOA
N1773-04D	REW-9-20140922	09/22/2014 12:35	09/23/2014	Aqueous	SM4500_OP_W	/					T2
N1773-04E	REW-9-20140922	09/22/2014 12:35	09/23/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1773-04F	REW-9-20140922	09/22/2014 12:35	09/23/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	T2
N1773-04F	REW-9-20140922	09/22/2014 12:35	09/23/2014	Aqueous	SM2320_W	/					T2
N1773-04F	REW-9-20140922	09/22/2014 12:35	09/23/2014	Aqueous	SM4500_H+	/					T2
N1773-04G	REW-9-20140922	09/22/2014 12:35	09/23/2014	Aqueous	SW6010_W	/ Fe only				Y	M2
N1773-05A	REW-11-20140922	09/22/2014 08:15	09/23/2014	Aqueous	SM5310B_TOC_W	/					R22
N1773-05B	REW-11-20140922	09/22/2014 08:15	09/23/2014	Aqueous	E300_VOA_W	/				Y	R22

HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division **WorkOrder: N1773**

Client ID: IESI Case: HC Due: 10/03/14 Report Level: LEVEL 2
 Project: Raytheon - Wayland SDG: Fax Due: Special Program:
 WO Name: Raytheon - Wayland PO: RA-006 Fax Report: EDD: CLF
 Location: IESI_WAYLAND,
 Comments: N/A

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N1773-05C	REW-11-20140922	09/22/2014 08:15	09/23/2014	Aqueous	RSK175	/					VOA
N1773-05D	REW-11-20140922	09/22/2014 08:15	09/23/2014	Aqueous	SM4500_OP_W	/					T2
N1773-05E	REW-11-20140922	09/22/2014 08:15	09/23/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1773-05F	REW-11-20140922	09/22/2014 08:15	09/23/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	T2
N1773-05F	REW-11-20140922	09/22/2014 08:15	09/23/2014	Aqueous	SM2320_W	/					T2
N1773-05F	REW-11-20140922	09/22/2014 08:15	09/23/2014	Aqueous	SM4500_H+	/					T2
N1773-05G	REW-11-20140922	09/22/2014 08:15	09/23/2014	Aqueous	SW6010_W	/ Fe only				Y	M2
N1773-06A	REW-12-20140922	09/22/2014 11:10	09/23/2014	Aqueous	SM5310B_TOC_W	/					R22
N1773-06B	REW-12-20140922	09/22/2014 11:10	09/23/2014	Aqueous	E300_VOA_W	/				Y	R22
N1773-06C	REW-12-20140922	09/22/2014 11:10	09/23/2014	Aqueous	RSK175	/					VOA
N1773-06D	REW-12-20140922	09/22/2014 11:10	09/23/2014	Aqueous	SM4500_OP_W	/					T2
N1773-06E	REW-12-20140922	09/22/2014 11:10	09/23/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1773-06F	REW-12-20140922	09/22/2014 11:10	09/23/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	T2
N1773-06F	REW-12-20140922	09/22/2014 11:10	09/23/2014	Aqueous	SM2320_W	/					T2
N1773-06F	REW-12-20140922	09/22/2014 11:10	09/23/2014	Aqueous	SM4500_H+	/					T2
N1773-06G	REW-12-20140922	09/22/2014 11:10	09/23/2014	Aqueous	SW6010_W	/ Fe only				Y	M2
N1773-07A	MW-553-20140922	09/22/2014 14:10	09/23/2014	Aqueous	SM5310B_TOC_W	/					R22
N1773-07B	MW-553-20140922	09/22/2014 14:10	09/23/2014	Aqueous	E300_VOA_W	/				Y	R22
N1773-07C	MW-553-20140922	09/22/2014 14:10	09/23/2014	Aqueous	RSK175	/					VOA

HT = Fraction logged in but all tests have been placed on hold HT = Test logged in but has been placed on hold
 10/10/2014 16:31 Lab Client Rep: Agnes R Huntley Page 03 of 06

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N1773

Client ID: IESI

Project: Raytheon - Wayland
 WO Name: Raytheon - Wayland
 Location: IESI_WAYLAND,

Case: HC Due: 10/03/14
 SDG: Fax Report:

Report Level: LEVEL 2
 Special Program: EDD: CLF

PO: RA-006

Comments: N/A

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N1773-07D	MW-553-20140922	09/22/2014 14:10	09/23/2014	Aqueous	SM4500_OP_W	/					T2
N1773-07E	MW-553-20140922	09/22/2014 14:10	09/23/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1773-07F	MW-553-20140922	09/22/2014 14:10	09/23/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	T2
N1773-07F	MW-553-20140922	09/22/2014 14:10	09/23/2014	Aqueous	SM2320_W	/					T2
N1773-07F	MW-553-20140922	09/22/2014 14:10	09/23/2014	Aqueous	SM4500_H+	/					T2
N1773-07G	MW-553-20140922	09/22/2014 14:10	09/23/2014	Aqueous	SW6010_W	/ Fe only				Y	M2
N1773-08A	MW-560-20140922	09/22/2014 12:10	09/23/2014	Aqueous	SM5310B_TOC_W	/					R22
N1773-08B	MW-560-20140922	09/22/2014 12:10	09/23/2014	Aqueous	E300_VOA_W	/				Y	R22
N1773-08C	MW-560-20140922	09/22/2014 12:10	09/23/2014	Aqueous	RSK175	/					VOA
N1773-08D	MW-560-20140922	09/22/2014 12:10	09/23/2014	Aqueous	SM4500_OP_W	/					T2
N1773-08E	MW-560-20140922	09/22/2014 12:10	09/23/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1773-08F	MW-560-20140922	09/22/2014 12:10	09/23/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	T2
N1773-08F	MW-560-20140922	09/22/2014 12:10	09/23/2014	Aqueous	SM2320_W	/					T2
N1773-08F	MW-560-20140922	09/22/2014 12:10	09/23/2014	Aqueous	SM4500_H+	/					T2
N1773-08G	MW-560-20140922	09/22/2014 12:10	09/23/2014	Aqueous	SW6010_W	/ Fe only				Y	M2
N1773-09A	MW-561-20140922	09/22/2014 10:50	09/23/2014	Aqueous	SM5310B_TOC_W	/					R22
N1773-09B	MW-561-20140922	09/22/2014 10:50	09/23/2014	Aqueous	E300_VOA_W	/				Y	R22
N1773-09C	MW-561-20140922	09/22/2014 10:50	09/23/2014	Aqueous	RSK175	/					VOA
N1773-09D	MW-561-20140922	09/22/2014 10:50	09/23/2014	Aqueous	SM4500_OP_W	/					T2

HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N1773

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-006

HC Due: 10/03/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N1773-09E	MW-561-20140922	09/22/2014 10:50	09/23/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1773-09F	MW-561-20140922	09/22/2014 10:50	09/23/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	T2
N1773-09F	MW-561-20140922	09/22/2014 10:50	09/23/2014	Aqueous	SM2320_W	/					T2
N1773-09F	MW-561-20140922	09/22/2014 10:50	09/23/2014	Aqueous	SM4500_H+	/					T2
N1773-09G	MW-561-20140922	09/22/2014 10:50	09/23/2014	Aqueous	SW6010_W	/ Fe only				Y	M2
N1773-10A	MW-562-20140922	09/22/2014 09:40	09/23/2014	Aqueous	SM5310B_TOC_W	/					R22
N1773-10B	MW-562-20140922	09/22/2014 09:40	09/23/2014	Aqueous	E300_VOA_W	/				Y	R22
N1773-10C	MW-562-20140922	09/22/2014 09:40	09/23/2014	Aqueous	RSK175	/					VOA
N1773-10D	MW-562-20140922	09/22/2014 09:40	09/23/2014	Aqueous	SM4500_OP_W	/					T2
N1773-10E	MW-562-20140922	09/22/2014 09:40	09/23/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1773-10F	MW-562-20140922	09/22/2014 09:40	09/23/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	T2
N1773-10F	MW-562-20140922	09/22/2014 09:40	09/23/2014	Aqueous	SM2320_W	/					T2
N1773-10F	MW-562-20140922	09/22/2014 09:40	09/23/2014	Aqueous	SM4500_H+	/					T2
N1773-10G	MW-562-20140922	09/22/2014 09:40	09/23/2014	Aqueous	SW6010_W	/ Fe only				Y	M2
N1773-11A	MW-563-20140922	09/22/2014 13:00	09/23/2014	Aqueous	SM5310B_TOC_W	/					R22
N1773-11B	MW-563-20140922	09/22/2014 13:00	09/23/2014	Aqueous	E300_VOA_W	/				Y	R22
N1773-11C	MW-563-20140922	09/22/2014 13:00	09/23/2014	Aqueous	RSK175	/					VOA
N1773-11D	MW-563-20140922	09/22/2014 13:00	09/23/2014	Aqueous	SM4500_OP_W	/					T2
N1773-11E	MW-563-20140922	09/22/2014 13:00	09/23/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB

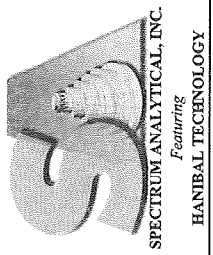
HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division **WorkOrder: N1773**

Client ID: IESI Case: HC Due: 10/03/14 Report Level: LEVEL 2
 Project: Raytheon - Wayland Special Program: EDD: CLF
 WO Name: Raytheon - Wayland SDG:
 Location: IESI_WAYLAND, Fax Report: /
 Comments: N/A PO: RA-006

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N1773-11F	MW-563-20140922	09/22/2014 13:00	09/23/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	T2
N1773-11F	MW-563-20140922	09/22/2014 13:00	09/23/2014	Aqueous	SM2320_W	/					T2
N1773-11F	MW-563-20140922	09/22/2014 13:00	09/23/2014	Aqueous	SM4500_H+	/					T2
N1773-11G	MW-563-20140922	09/22/2014 13:00	09/23/2014	Aqueous	SW6010_W	/ Fe only				Y	M2
N1773-12A	DUP 2-20140922	09/22/2014 00:00	09/23/2014	Aqueous	SM5310B_TOC_W	/					R22
N1773-12B	DUP 2-20140922	09/22/2014 00:00	09/23/2014	Aqueous	E300_VOA_W	/				Y	R22
N1773-12C	DUP 2-20140922	09/22/2014 00:00	09/23/2014	Aqueous	RSK175	/					VOA
N1773-12D	DUP 2-20140922	09/22/2014 00:00	09/23/2014	Aqueous	SM4500_OP_W	/					T2
N1773-12E	DUP 2-20140922	09/22/2014 00:00	09/23/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1773-12F	DUP 2-20140922	09/22/2014 00:00	09/23/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	T2
N1773-12F	DUP 2-20140922	09/22/2014 00:00	09/23/2014	Aqueous	SM2320_W	/					T2
N1773-12F	DUP 2-20140922	09/22/2014 00:00	09/23/2014	Aqueous	SM4500_H+	/					T2
N1773-12G	DUP 2-20140922	09/22/2014 00:00	09/23/2014	Aqueous	SW6010_W	/ Fe only				Y	M2



N1773

CHAIN OF CUSTODY RECORD

Page 1 of 2

Special Handling:
 Standard TAT - 7 to 10 business days
 Rush TAT - Date Needed: _____
 All TATs subject to laboratory approval
 Min. 24-hr notification needed for rushes
 Samples disposed after 60 days unless otherwise instructed.

Report To: LANDSHAW ENGINEERING SOLUTIONS INC
25 SPRING ST
WALPOLE MA 02081
508-668-0033
Nicki Parise

Telephone #: _____
 Project Mgr: _____

Invoice To: SAME

P.O. No.: RA-008 Quote/RQ#: _____

Project No: RA-008
 Site Name: RANDOLPH WOODLAND
 Location: WOODLAND State: MA
 Sampler(s): DANNY SOKOS
CAROL APRESCH

F=Field Filtered 1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
 7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ 11= _____ 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
 O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas

X1= _____ X2= _____ X3= _____

Lab ID:	G= Grab	Sample ID:	C-Composite		Date:	Time:	Matrix Type	Containers				List Preservative Code below:					Check if chlorinated	QA/QC Reporting Notes: * additional charges may apply
			Date:	Time:				# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	2	3	4	10			
N1773-01		RAW-6-20140922	9/22/14	0950	9/22/14	0950	GW	6			4	X	X	X	X	X	X	MA DEP MCP CAM Report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No CT DPH RCP Report? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Standard <input type="checkbox"/> No QC <input type="checkbox"/> ASP A* <input type="checkbox"/> ASP B* <input type="checkbox"/> NU Reduced* <input type="checkbox"/> NU Full* <input type="checkbox"/> Tier II* <input type="checkbox"/> Tier IV* Other: <u>FOR</u> State-specific reporting standards:
02		RAW-7-20140922	9/22/14	1400	9/22/14	1400	GW	6			4	X	X	X	X	X	X	
03		RAW-8-20140922	9/22/14	1315	9/22/14	1315	GW	6			4	X	X	X	X	X	X	
04		RAW-9-20140922	9/22/14	1235	9/22/14	1235	GW	6			4	X	X	X	X	X	X	
05		RAW-11-20140922	9/22/14	0815	9/22/14	0815	GW	6			4	X	X	X	X	X	X	
06		RAW-12-20140922	9/22/14	1110	9/22/14	1110	GW	6			4	X	X	X	X	X	X	
07		MW-553-20140922	9/22/14	1410	9/22/14	1410	GW	6			4	X	X	X	X	X	X	
08		MW-510-20140922	9/22/14	1310	9/22/14	1310	GW	6			4	X	X	X	X	X	X	
09		MW-561-20140922	9/22/14	1050	9/22/14	1050	GW	6			4	X	X	X	X	X	X	
10		MW-512-20140922	9/22/14	0940	9/22/14	0940	GW	6			4	X	X	X	X	X	X	

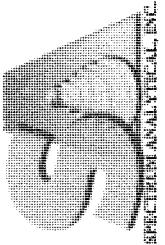
Lab ID:	G= Grab	Sample ID:	C-Composite		Date:	Time:	Matrix Type	Containers				List Preservative Code below:					Check if chlorinated	QA/QC Reporting Notes: * additional charges may apply
			Date:	Time:				# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	2	3	4	10			
					9/22/14	1513	Observed											
					9/22/14	1710	Concentration Factor											
					9/23/14	11:40	Corrected											
					9/23/14	11:40	IR PA											

Relinquished by: _____ Received by: _____

Temp °C: Observed -1.0 Concentration Factor 0 Corrected -1.0 IR PA 01

E-mail to: v.papay@jessonline.com

Condition upon receipt: Custody Seals: Present Intact Broken
 Ambient Iced Refrigerated DI VOA Frozen Soil Jan Frozen



HANIBAL TECHNOLOGY

N1773

CHAIN OF CUSTODY RECORD

Page 2 of 2

Special Handling:
 Standard TAT - 7 to 10 business days
 Rush TAT - Date Needed: _____
 All TATs subject to laboratory approval
 Min. 24-hr notification needed for rushes
 Samples disposed after 60 days unless otherwise instructed.

Report To: INDUSTRIAL ENGINEERING SOLUTIONS
25 SPAIN SA
Woburn MA 01801
 Telephone #: 508-468-0033
 Project Mgr: Vicki Perrin

Invoice To: same
 P.O.No.: RA-009 Quote/RQN: _____

Project No: RA-009
 Site Name: Bayshore Weyland
 Location: Weyland State: MA
 Sampler(s): Drew Soaks
COASTAL HILLS

F=Field Filtered 1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
 7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ 11= _____ 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
 O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
 XI= _____ X2= _____ X3= _____

Lab ID	Sample ID	Date	Time	Type	Matrix	Containers			List Preservative Code below:				Check if chlorinated	QA/QC Reporting Notes: * additional charges may apply	
						# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	2	3	4			10
N1773	G= Grab														
11	MW-563-20140826	9/22/14	1300	C CW		6		5							
12	Dup 2-20140822	9/22/14		C CW		6		5							

MA DEP MCP CAM Report? Yes No
 CTDPH MCP Report? Yes No
 Standard No QC
 DQA*
 ASP A* ASP B*
 NJ Reduced* NJ Full*
 Tier II* Tier IV*
 Other: _____
 State-specific Reporting standards: _____

Relinquished by: [Signature] Received by: [Signature]
[Signature] [Signature]
[Signature] [Signature]

Temp °C
 Observed: -1.0
 Correction Factor: 0
 Corrected: -1.0
 IR ID #: 01

Date: 9/22/14 Time: 1515
9/23/14 1710
9-23-14 12
09/23/14 11:40

EDD format:
 E-mail to: V.perrin@IESJonline.com

Condition upon receipt: Custody Seals: Present In tact Broken
 Ambient Iced Refrigerated DI VOA Frozen Soil Jar Frozen

Received By: <u>WJL</u>		Page 01 of 00	
Reviewed By: <u>RP</u>		Log-in Date 09/23/2014	
Work Order: N1773		Client Name: Innovative Engineering Solutions, Inc.	
Project Name/Event: Raytheon - Wayland			
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.			
		Preservation (pH)	
	Lab Sample ID	HNO3	H2SO4
		HCl	NaOH
		H3PO4	VOA Matrix
1. Custody Seal(s)		<2	<2
Present / Absent			<2
Intact / Broken		<2	<2
N/A			<2
2. Custody Seal Nos.		<2	<2
Present / Absent			<2
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists		<2	<2
Present / Absent			<2
AirBill / Sticker		<2	<2
Present / Absent			<2
4. Airbill		<2	<2
AirBill / Sticker			<2
Present / Absent		<2	<2
5. Airbill No.		<2	<2
Courier N/A			<2
6. Sample Tags		<2	<2
Present / Absent			<2
Sample Tag Numbers			
Listed /			
Not Listed on Chain-of-Custody			
7. Sample Condition			
Intact / Broken / Leaking			
8. Cooler Temperature Indicator Bottle			
Present / Absent			
9. Cooler Temperature	1.2 °C		
10. Does information on TR/COCs and sample tags agree?	Yes / No		
11. Date Received at Laboratory	09/23/2014		
12. Time Received	11:40		
Sample Transfer			
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO		
Area #	Area #		
By	By		
On	On		
IR Temp Gun ID: MT-74		VOA Matrix Key:	
Coolant Condition: ICE		US = Unpreserved Soil A = Air	
Preservative Name/Lot No:		UA = Unpreserved Aqueous H = HCl	
		M = MeOH E = Encore	
		N = NaHSO4 F = Freeze	
		See Sample Condition Notification/Corrective Action Form Yes / No	
		Rad OK Yes / No	

Last Page of Data Report

Report Date:
16-Oct-14 09:54



- Final Report
 Re-Issued Report
 Revised Report

Laboratory Report

Innovative Engineering Solutions, Inc.
25 Spring Street
Walpole, MA 02081

Work Order: N1786
Project : Raytheon - Wayland
Project #:

Attn: Sami Fam

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
N1786-01	MW-261S-20140923	Aqueous	23-Sep-14 07:25	24-Sep-14 11:45
N1786-02	MW-265M-20140923	Aqueous	23-Sep-14 10:25	24-Sep-14 11:45
N1786-03	MW-268S-20140923	Aqueous	23-Sep-14 10:35	24-Sep-14 11:45
N1786-04	MW-268M-20140923	Aqueous	23-Sep-14 09:40	24-Sep-14 11:45
N1786-05	MW-552-20140923	Aqueous	23-Sep-14 08:35	24-Sep-14 11:45
N1786-06	REW-1-20140923	Aqueous	23-Sep-14 13:40	24-Sep-14 11:45
N1786-07	REW-4-20140923	Aqueous	23-Sep-14 12:35	24-Sep-14 11:45
N1786-08	REW-5-20140923	Aqueous	23-Sep-14 11:25	24-Sep-14 11:45
N1786-09	REW-10-20140923	Aqueous	23-Sep-14 12:15	24-Sep-14 11:45
N1786-10	DUP3-20140923	Aqueous	23-Sep-14 00:00	24-Sep-14 11:45
N1786-11	TRIP BLANK	Aqueous	23-Sep-14 00:00	24-Sep-14 11:45

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirements have been met.

Spectrum Analytical (Rhode Island) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033



Authorized by:

Yihai Ding
Laboratory Director

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Innovative Engineering Solutions, Inc.

Project: Raytheon - Wayland

Laboratory Workorder / SDG #: N1786

RSK175, Dissolved Gases by GC-FID

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
RSK175

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030B

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: V7
Instrument Type: GC-FID

Description: HP5890 II
Manufacturer: Hewlett-Packard
Model: 5890
GC Column used: 30 m X 0.53 mm ID [um thickness] CARBOXEM 1006
capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

N/A.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

NA.

F. Dilutions:

The following samples were analyzed at dilution:

MW-261S-20140923 (N1786-01ADL) : Dilution Factor: 20
MW-265M-20140923 (N1786-02ADL) : Dilution Factor: 25
MW-268M-20140923 (N1786-04ADL) : Dilution Factor: 5
MW-552-20140923 (N1786-05ADL) : Dilution Factor: 25
REW-1-20140923 (N1786-06ADL) : Dilution Factor: 50
REW-4-20140923 (N1786-07ADL) : Dilution Factor: 50
REW-5-20140923 (N1786-08ADL) : Dilution Factor: 50
REW-10-20140923 (N1786-09ADL) : Dilution Factor: 50

DUP3-20140923 (N1786-10ADL) : Dilution Factor: 25

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

- M1 peak tailing or fronting
- M2 peak co-elution
- M3 rising or falling baseline
- M4 retention time shift
- M5 miscellaneous - under this category, the justification is explained
- M6 software did not integrate peak
- M7 partial peak integration

The following samples were manually integrated:

LCS-79365 Methane due to M6

LCSD-79365 Methane due to M6

VSTD005I7 Methane due to M7

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

A handwritten signature in black ink, appearing to be 'J. H. P.', written over a horizontal line.

Signed: _____

Date: _____ 10/7/2014 _____

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Innovative Engineering Solutions, Inc.

Project: Raytheon - Wayland

Laboratory Workorder / SDG #: N1786

SW846 6010C

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code:
SW846 6010C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3005A

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: OPTIMA3
Instrument Type: ICP

Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

A matrix spike was not performed on any sample in this SDG.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

A duplicate analysis was not performed on any sample in this SDG.

F. Serial Dilution (SD):

A serial dilution was not performed on any sample in this SDG.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:  _____

Date: 10/06/14

REPORT NARRATIVE

Spectrum Analytical, Inc. Featuring Hanibal Technology, RI Division.

Client : Innovative Engineering Solutions, Inc.

Project: Raytheon - Wayland

Laboratory Workorder / SDG #: N1786

EPA 300.0, EPA 300.0 Modified, SM 2320B, SM 4500 H+ B, SM 4500P-E OP, SM 5310B TOC

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test codes: EPA 300.0, EPA 300.0 Modified, SM 2320B, SM 4500 H+ B, SM 4500P-E OP, SM 5310B TOC

IV. PREPARATION

Samples were prepared following procedures in laboratory test codes: EPA 300.0, EPA 300.0 Modified, SM 2320B, SM 4500 H+ B, SM 4500P-E OP, SM 5310B TOC

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: IC1
Instrument Type: IC
Description: DX-500
Manufacturer: Dionex
Model: DX-500
GC Column used: 0.25 m X 4 mm ID [um thickness] AS14A-7 capillary column.

Instrument Code: SPEC2
Instrument Type: SP
Description: Spectronic 20 Genesys
Manufacturer: Spectronic Instruments
Model: 4004-000

Instrument Code: TOC1
Instrument Type: TOC
Description: TOC
Manufacturer: Tekmar Dohrman
Model: Apollo 9000

Instrument Code: WC03
Instrument Type: Probe
Description: pH Meter
Manufacturer: Oakton Instruments
Model: Bench 2700 Series

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

D. Duplicate sample:

No client-requested laboratory duplicate analyses were included in this SDG.

E. Dilutions:

The following samples were analyzed at dilution:

MW-265M-20140923 (N1786-02B), dilution factor: 20 for Acetic Acid
MW-265M-20140923 (N1786-02C), dilution factor: 20 for Organic Carbon, Total
MW-268M-20140923 (N1786-04B), dilution factor: 10 for Acetic Acid
MW-268M-20140923 (N1786-04C), dilution factor: 10 for Organic Carbon, Total
MW-552-20140923 (N1786-05B), dilution factor: 10 for Acetic Acid
MW-552-20140923 (N1786-05C), dilution factor: 5 for Organic Carbon, Total
REW-5-20140923 (N1786-08B), dilution factor: 10 for Acetic Acid
REW-10-20140923 (N1786-09B), dilution factor: 10 for Acetic Acid

F. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: 

Date: 10/14/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-261S-20140923

Lab ID: N1786-01

Project: Raytheon - Wayland

Collection Date: 09/23/14 7:25

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	13000 E	0.60 µg/L	1 10/02/2014 11:10	79328
Ethane	6.2	1.2 µg/L	1 10/02/2014 11:10	79328
Ethene	3.8	1.5 µg/L	1 10/02/2014 11:10	79328

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-261S-20140923

Lab ID: N1786-01

Project: Raytheon - Wayland

Collection Date: 09/23/14 7:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	15000			12 µg/L		20 10/02/2014 14:29	79328
Ethane		ND		25 µg/L		20 10/02/2014 14:29	79328
Ethene		ND		31 µg/L		20 10/02/2014 14:29	79328

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-265M-20140923

Lab ID: N1786-02

Project: Raytheon - Wayland

Collection Date: 09/23/14 10:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	19000	E	0.60	µg/L		1 10/02/2014 11:18	79328
Ethane	4.0		1.2	µg/L		1 10/02/2014 11:18	79328
Ethene	2.6		1.5	µg/L		1 10/02/2014 11:18	79328

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-265M-20140923

Lab ID: N1786-02

Project: Raytheon - Wayland

Collection Date: 09/23/14 10:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	19000		15	µg/L		25 10/06/2014 11:00	79365
Ethane		ND	31	µg/L		25 10/06/2014 11:00	79365
Ethene		ND	39	µg/L		25 10/06/2014 11:00	79365

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-268S-20140923

Lab ID: N1786-03

Project: Raytheon - Wayland

Collection Date: 09/23/14 10:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	20		0.60	µg/L		1 10/02/2014 11:26	79328
Ethane	ND		1.2	µg/L		1 10/02/2014 11:26	79328
Ethene	ND		1.5	µg/L		1 10/02/2014 11:26	79328

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-268M-20140923

Lab ID: N1786-04

Project: Raytheon - Wayland

Collection Date: 09/23/14 9:40

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	4400 E	0.60 µg/L	1 10/02/2014 11:34	79328
Ethane	3.0	1.2 µg/L	1 10/02/2014 11:34	79328
Ethene	20	1.5 µg/L	1 10/02/2014 11:34	79328

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/07/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-268M-20140923

Project: Raytheon - Wayland

Lab ID: N1786-04

Collection Date: 09/23/14 9:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	3900		3.0	µg/L	5	10/06/2014 11:18	79365
Ethane	ND		6.2	µg/L	5	10/06/2014 11:18	79365
Ethene	16		7.7	µg/L	5	10/06/2014 11:18	79365

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-552-20140923

Lab ID: N1786-05

Project: Raytheon - Wayland

Collection Date: 09/23/14 8:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	17000	E	0.60	µg/L	1	10/02/2014 11:42	79328
Ethane	5.5		1.2	µg/L	1	10/02/2014 11:42	79328
Ethene	8.7		1.5	µg/L	1	10/02/2014 11:42	79328

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-552-20140923

Lab ID: N1786-05

Project: Raytheon - Wayland

Collection Date: 09/23/14 8:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	16000			15 µg/L		25 10/06/2014 11:33	79365
Ethane		ND		31 µg/L		25 10/06/2014 11:33	79365
Ethene		ND		39 µg/L		25 10/06/2014 11:33	79365

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-1-20140923

Lab ID: N1786-06

Project: Raytheon - Wayland

Collection Date: 09/23/14 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	21000	E	0.60	µg/L		1 10/02/2014 11:50	79328
Ethane	9.0		1.2	µg/L		1 10/02/2014 11:50	79328
Ethene	2.8		1.5	µg/L		1 10/02/2014 11:50	79328

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-1-20140923

Lab ID: N1786-06

Project: Raytheon - Wayland

Collection Date: 09/23/14 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	45000		30	µg/L	50	10/06/2014 11:57	79365
Ethane		ND	62	µg/L	50	10/06/2014 11:57	79365
Ethene		ND	77	µg/L	50	10/06/2014 11:57	79365

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-4-20140923

Lab ID: N1786-07

Project: Raytheon - Wayland

Collection Date: 09/23/14 12:35

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	24000 E	0.60 µg/L	1 10/02/2014 11:58	79328
Ethane	12	1.2 µg/L	1 10/02/2014 11:58	79328
Ethene	ND	1.5 µg/L	1 10/02/2014 11:58	79328

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/07/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-4-20140923

Lab ID: N1786-07

Project: Raytheon - Wayland

Collection Date: 09/23/14 12:35

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	49000	30 µg/L	50 10/06/2014 12:05	79365
Ethane	ND	62 µg/L	50 10/06/2014 12:05	79365
Ethene	ND	77 µg/L	50 10/06/2014 12:05	79365

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-5-20140923

Lab ID: N1786-08

Project: Raytheon - Wayland

Collection Date: 09/23/14 11:25

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	23000 E	0.60 µg/L	1 10/02/2014 12:08	79328
Ethane	4.9	1.2 µg/L	1 10/02/2014 12:08	79328
Ethene	9.3	1.5 µg/L	1 10/02/2014 12:08	79328

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/07/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-5-20140923

Lab ID: N1786-08

Project: Raytheon - Wayland

Collection Date: 09/23/14 11:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	45000		30	µg/L	50	10/06/2014 12:33	79365
Ethane		ND	62	µg/L	50	10/06/2014 12:33	79365
Ethene		ND	77	µg/L	50	10/06/2014 12:33	79365

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-10-20140923

Lab ID: N1786-09

Project: Raytheon - Wayland

Collection Date: 09/23/14 12:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	34000	E	0.60	µg/L	1	10/02/2014 12:16	79328
Ethane	ND		1.2	µg/L	1	10/02/2014 12:16	79328
Ethene	4.1		1.5	µg/L	1	10/02/2014 12:16	79328

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/07/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-10-20140923

Lab ID: N1786-09

Project: Raytheon - Wayland

Collection Date: 09/23/14 12:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	40000		30	µg/L	50	10/06/2014 12:58	79365
Ethane		ND	62	µg/L	50	10/06/2014 12:58	79365
Ethene		ND	77	µg/L	50	10/06/2014 12:58	79365

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: DUP3-20140923

Lab ID: N1786-10

Project: Raytheon - Wayland

Collection Date: 09/23/14 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	17000	E	0.60	µg/L	1	10/02/2014 12:24	79328
Ethane	7.8		1.2	µg/L	1	10/02/2014 12:24	79328
Ethene	4.6		1.5	µg/L	1	10/02/2014 12:24	79328

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: DUP3-20140923

Lab ID: N1786-10

Project: Raytheon - Wayland

Collection Date: 09/23/14 0:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID				RSK175
Methane	25000	15 µg/L	25 10/06/2014 13:05	79365
Ethane	ND	31 µg/L	25 10/06/2014 13:05	79365
Ethene	ND	39 µg/L	25 10/06/2014 13:05	79365

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: TRIP BLANK

Lab ID: N1786-11

Project: Raytheon - Wayland

Collection Date: 09/23/14 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
RSK175 -- Dissolved Gases by GC-FID							RSK175
Methane	23		0.61	µg/L		1 10/02/2014 13:44	79328
Ethane	ND		1.3	µg/L		1 10/02/2014 13:44	79328
Ethene	ND		1.6	µg/L		1 10/02/2014 13:44	79328

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: N1786
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT
RSK175
RSK175 -- Dissolved Gases by GC-FID

Sample ID: MB-79328	SampType: MBLK	TestCode: RSK175	Prep Date: 10/02/14 8:40	Run ID: V7_141002A							
Client ID: MB-79328	Batch ID: 79328	Units: µg/L	Analysis Date: 10/02/14 11:01	SeqNo: 2163070							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.37	0	0	0	0	0	0	0	0	0
Ethane	ND	0.53	0	0	0	0	0	0	0	0	0
Ethene	ND	0.73	0	0	0	0	0	0	0	0	0

Sample ID: MB-79365	SampType: MBLK	TestCode: RSK175	Prep Date: 10/06/14 8:48	Run ID: V7_141006A							
Client ID: MB-79365	Batch ID: 79365	Units: µg/L	Analysis Date: 10/06/14 10:42	SeqNo: 2163428							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.37	0	0	0	0	0	0	0	0	0
Ethane	ND	0.53	0	0	0	0	0	0	0	0	0
Ethene	ND	0.73	0	0	0	0	0	0	0	0	0

Sample ID: LCS-79328	SampType: LCS	TestCode: RSK175	Prep Date: 10/02/14 8:40	Run ID: V7_141002A							
Client ID: LCS-79328	Batch ID: 79328	Units: µg/L	Analysis Date: 10/02/14 10:29	SeqNo: 2163068							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	36.66	0.37	47.57	0	77.1	75	125	0	0	0	0
Ethane	70.76	0.53	89.86	0	78.7	75	125	0	0	0	0
Ethene	93.06	0.73	83.51	0	111	75	125	0	0	0	0

Sample ID: LCS-79365	SampType: LCS	TestCode: RSK175	Prep Date: 10/06/14 8:48	Run ID: V7_141006A							
Client ID: LCS-79365	Batch ID: 79365	Units: µg/L	Analysis Date: 10/06/14 10:15	SeqNo: 2163426							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	44.08	0.37	47.57	0	92.7	75	125	0	0	0	0
Ethane	80.24	0.53	89.86	0	89.3	75	125	0	0	0	0
Ethene	92.14	0.73	83.51	0	110	75	125	0	0	0	0

Sample ID: LCSD-79328	SampType: LCSD	TestCode: RSK175	Prep Date: 10/02/14 8:40	Run ID: V7_141002A							
Client ID: LCSD-79328	Batch ID: 79328	Units: µg/L	Analysis Date: 10/02/14 10:54	SeqNo: 2163069							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	37.93	0.37	47.57	0	79.7	75	125	36.66	3.39	30	30
Ethane	72.46	0.53	89.86	0	80.6	75	125	70.76	2.38	30	30
Ethene	95.18	0.73	83.51	0	114	75	125	93.06	2.25	30	30

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N1786

RSK175

Subject: Raytheon - Wayland

RSK175 -- Dissolved Gases by GC-FID

Run ID: V7_141006A

Prep Date: 10/06/14 8:48

TestCode: RSK175

SampType: LCSD

SeqNo: 2163427

Analysis Date: 10/06/14 10:27

Units: µg/L

Batch ID: 79365

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	47.12	0.36	0.60	46.29	0	102	75	125	44.08	6.67	30	
Ethane	85.04	0.51	1.2	87.43	0	97.3	75	125	80.24	5.81	30	
Ethene	96.08	0.71	1.5	81.26	0	118	75	125	92.14	4.18	30	

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/30/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-261S-20140923

Project: Raytheon - Wayland

Lab ID: N1786-01

Collection Date: 09/23/14 7:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	94000		200	ug/L		1 09/26/2014 10:24	79197

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/30/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-265M-20140923

Project: Raytheon - Wayland

Lab ID: N1786-02

Collection Date: 09/23/14 10:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	170000		200	ug/L		1 09/26/2014 10:28	79197

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/30/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-268S-20140923

Lab ID: N1786-03

Project: Raytheon - Wayland

Collection Date: 09/23/14 10:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	220		200	ug/L		1 09/26/2014 10:32	79197

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/30/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-268M-20140923

Project: Raytheon - Wayland

Lab ID: N1786-04

Collection Date: 09/23/14 9:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	110000		200	ug/L		1 09/26/2014 10:35	79197

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/30/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-552-20140923

Lab ID: N1786-05

Project: Raytheon - Wayland

Collection Date: 09/23/14 8:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	110000		200	ug/L		1 09/26/2014 10:39	79197

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/30/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-1-20140923

Project: Raytheon - Wayland

Lab ID: N1786-06

Collection Date: 09/23/14 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	31000		200	ug/L		1 09/26/2014 10:43	79197

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/30/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-4-20140923

Lab ID: N1786-07

Project: Raytheon - Wayland

Collection Date: 09/23/14 12:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	7100		200	ug/L		1 09/26/2014 10:47	79197

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/30/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-5-20140923

Project: Raytheon - Wayland

Lab ID: N1786-08

Collection Date: 09/23/14 11:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	43000		200	ug/L		1 09/26/2014 10:50	79197

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/30/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-10-20140923

Lab ID: N1786-09

Project: Raytheon - Wayland

Collection Date: 09/23/14 12:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	77000		200	ug/L		1 09/26/2014 10:54	79197

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

09/30/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: DUP3-20140923

Project: Raytheon - Wayland

Lab ID: N1786-10

Collection Date: 09/23/14 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							SW6010_W
Iron	100000		200	ug/L		1 09/26/2014 10:58	79197

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N1786

Project: Raytheon - Wayland

SW6010_w

SW846 6010C -- Metals by ICP

Sample ID: MB-79197	SampType: MBLK	TestCode: SW6010_W	Prep Date: 09/25/14 10:00	Run ID: OPTIMA3_140926A
Client ID: MB-79197	Batch ID: 79197	Units: ug/L	Analysis Date: 09/26/14 9:44	SeqNo: 2157292
Analyte	Result	MDL	SPK Ref Val	%REC
Iron	ND	3.1	0	105
		RL	SPK value	LowLimit
		200	4550	80
			HighLimit	120
			RPD Ref Val	%RPD
			0	0
			RPDLimit	Qual

Sample ID: LCS-79197	SampType: LCS	TestCode: SW6010_W	Prep Date: 09/25/14 10:00	Run ID: OPTIMA3_140926A
Client ID: LCS-79197	Batch ID: 79197	Units: ug/L	Analysis Date: 09/26/14 9:48	SeqNo: 2157293
Analyte	Result	MDL	SPK Ref Val	%REC
Iron	4794	3.1	0	105
		RL	SPK value	LowLimit
		200	4550	80
			HighLimit	120
			RPD Ref Val	%RPD
			0	0
			RPDLimit	Qual

Sample ID: LCSD-79197	SampType: LCSD	TestCode: SW6010_W	Prep Date: 09/25/14 10:00	Run ID: OPTIMA3_140926A
Client ID: LCSD-79197	Batch ID: 79197	Units: ug/L	Analysis Date: 09/26/14 9:51	SeqNo: 2157294
Analyte	Result	MDL	SPK Ref Val	%REC
Iron	5046	3.1	0	111
		RL	SPK value	LowLimit
		200	4550	80
			HighLimit	120
			RPD Ref Val	%RPD
			4794	5.11
			RPDLimit	Qual
			20	

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m14.09.25.1144 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/16/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-261S-20140923

Lab ID: N1786-01

Project: Raytheon - Wayland

Collection Date: 09/23/14 7:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 09/30/2014 19:44	79293
Acetic Acid	19		5.0	mg/L		1 09/30/2014 19:44	79293
Propionic Acid	ND		5.0	mg/L		1 09/30/2014 19:44	79293
Butyric Acid	ND		5.0	mg/L		1 09/30/2014 19:44	79293
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	38	B	2.0	mg/L		1 09/24/2014 20:00	79190
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 09/24/2014 20:00	79190
Sulfate	0.33	BJ	5.0	mg/L		1 09/24/2014 20:00	79190
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	660		20	mg/L CaCO3		1 09/30/2014 16:00	79294
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.9		1.0	S.U.		1 09/24/2014 0:00	R84503
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.14		0.050	mg/L		1 09/25/2014 11:12	79201
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	20		10	mg/L		1 10/09/2014 6:41	79405

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/16/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-265M-20140923

Lab ID: N1786-02

Project: Raytheon - Wayland

Collection Date: 09/23/14 10:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 09/30/2014 20:05	79293
Acetic Acid	1500		100	mg/L		20 10/01/2014 9:33	79293
Propionic Acid	24		5.0	mg/L		1 09/30/2014 20:05	79293
Butyric Acid	79		5.0	mg/L		1 09/30/2014 20:05	79293
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	35	B	2.0	mg/L		1 09/24/2014 20:12	79190
Nitrogen, Nitrate (As N)	0.36		0.13	mg/L		1 09/24/2014 20:12	79190
Sulfate	0.56	BJ	5.0	mg/L		1 09/24/2014 20:12	79190
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	900		20	mg/L CaCO3		1 09/30/2014 16:00	79294
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	5.6		1.0	S.U.		1 09/24/2014 0:00	R84503
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.16		0.050	mg/L		1 09/25/2014 11:16	79201
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	2300		200	mg/L		20 10/09/2014 19:37	79405

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-268S-20140923

Lab ID: N1786-03

Project: Raytheon - Wayland

Collection Date: 09/23/14 10:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 09/30/2014 20:27	79293
Acetic Acid	0.37	J	5.0	mg/L		1 09/30/2014 20:27	79293
Propionic Acid	ND		5.0	mg/L		1 09/30/2014 20:27	79293
Butyric Acid	ND		5.0	mg/L		1 09/30/2014 20:27	79293
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	9.1	B	2.0	mg/L		1 09/24/2014 20:24	79190
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 09/24/2014 20:24	79190
Sulfate	26	B	5.0	mg/L		1 09/24/2014 20:24	79190
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	40		20	mg/L CaCO3		1 09/30/2014 16:00	79294
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.8		1.0	S.U.		1 09/24/2014 0:00	R84503
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	ND		0.050	mg/L		1 09/25/2014 11:20	79201
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	6.5	J	10	mg/L		1 10/09/2014 7:26	79405

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/16/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-268M-20140923

Lab ID: N1786-04

Project: Raytheon - Wayland

Collection Date: 09/23/14 9:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 09/30/2014 20:48	79293
Acetic Acid	530		50	mg/L		10 10/01/2014 9:54	79293
Propionic Acid	1.9	J	5.0	mg/L		1 09/30/2014 20:48	79293
Butyric Acid	19		5.0	mg/L		1 09/30/2014 20:48	79293
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	31	B	2.0	mg/L		1 09/24/2014 20:59	79190
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 09/24/2014 20:59	79190
Sulfate	0.98	BJ	5.0	mg/L		1 09/24/2014 20:59	79190
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	380		20	mg/L CaCO3		1 09/30/2014 16:00	79294
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.1		1.0	S.U.		1 09/24/2014 0:00	R84503
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.054		0.050	mg/L		1 09/25/2014 11:24	79201
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	800		100	mg/L		10 10/09/2014 20:02	79405

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/16/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: MW-552-20140923

Lab ID: N1786-05

Project: Raytheon - Wayland

Collection Date: 09/23/14 8:35

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 09/30/2014 21:10	79293
Acetic Acid	540		50	mg/L		10 10/01/2014 10:16	79293
Propionic Acid	16		5.0	mg/L		1 09/30/2014 21:10	79293
Butyric Acid	19		5.0	mg/L		1 09/30/2014 21:10	79293
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	35	B	2.0	mg/L		1 09/24/2014 21:11	79190
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 09/24/2014 21:11	79190
Sulfate	0.43	BJ	5.0	mg/L		1 09/24/2014 21:11	79190
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	880		20	mg/L CaCO3		1 09/30/2014 16:00	79294
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.7		1.0	S.U.		1 09/24/2014 0:00	R84503
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.12		0.050	mg/L		1 09/25/2014 11:28	79201
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	480		50	mg/L		5 10/09/2014 20:27	79405

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-1-20140923

Lab ID: N1786-06

Project: Raytheon - Wayland

Collection Date: 09/23/14 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L		1 09/30/2014 22:14	79293
Acetic Acid	ND		5.0	mg/L		1 09/30/2014 22:14	79293
Propionic Acid	ND		5.0	mg/L		1 09/30/2014 22:14	79293
Butyric Acid	ND		5.0	mg/L		1 09/30/2014 22:14	79293
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	22	B	2.0	mg/L		1 09/24/2014 21:23	79190
Nitrogen, Nitrate (As N)	ND		0.13	mg/L		1 09/24/2014 21:23	79190
Sulfate	0.77	BJ	5.0	mg/L		1 09/24/2014 21:23	79190
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	380		20	mg/L CaCO3		1 09/30/2014 16:00	79294
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.9		1.0	S.U.		1 09/24/2014 0:00	R84503
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.064		0.050	mg/L		1 09/25/2014 11:32	79201
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	3.4	J	10	mg/L		1 10/09/2014 8:42	79405

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-4-20140923

Lab ID: N1786-07

Project: Raytheon - Wayland

Collection Date: 09/23/14 12:35

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids				E300_VOA_W
Lactic Acid	ND	5.0 mg/L	1 09/30/2014 22:36	79293
Acetic Acid	ND	5.0 mg/L	1 09/30/2014 22:36	79293
Propionic Acid	ND	5.0 mg/L	1 09/30/2014 22:36	79293
Butyric Acid	ND	5.0 mg/L	1 09/30/2014 22:36	79293
EPA 300.0 -- Anions by Ion Chromotography (LOW)				E300IC_W
Chloride	5.2 B	2.0 mg/L	1 09/24/2014 21:34	79190
Nitrogen, Nitrate (As N)	ND	0.13 mg/L	1 09/24/2014 21:34	79190
Sulfate	4.8 BJ	5.0 mg/L	1 09/24/2014 21:34	79190
SM 2320B -- Alkalinity (Total)				SM2320_W
Alkalinity, Total (As CaCO3)	130	20 mg/L CaCO3	1 09/30/2014 16:00	79294
SM 4500 H+ B -- pH VALUE				SM4500_H+
pH	6.7	1.0 S.U.	1 09/24/2014 0:00	R84503
SM 4500P-E OP -- Orthophosphate				SM4500_OP_W
Orthophosphate (As PO4)	0.17	0.050 mg/L	1 09/25/2014 11:36	79201
SM 5310B TOC -- Total Organic Carbon by combustion				SM5310B_TOC_W
Organic Carbon, Total	2.2 J	10 mg/L	1 10/09/2014 9:01	79405

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/16/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-5-20140923

Lab ID: N1786-08

Project: Raytheon - Wayland

Collection Date: 09/23/14 11:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L	1	09/30/2014 22:57	79293
Acetic Acid	350		50	mg/L	10	10/01/2014 10:37	79293
Propionic Acid	3.8	J	5.0	mg/L	1	09/30/2014 22:57	79293
Butyric Acid	3.4	J	5.0	mg/L	1	09/30/2014 22:57	79293
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	12	B	2.0	mg/L	1	09/24/2014 21:46	79190
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	09/24/2014 21:46	79190
Sulfate	0.50	BJ	5.0	mg/L	1	09/24/2014 21:46	79190
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	230		20	mg/L CaCO3	1	09/30/2014 16:00	79294
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	5.6		1.0	S.U.	1	09/24/2014 0:00	R84503
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.10		0.050	mg/L	1	09/25/2014 11:40	79201
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	300		10	mg/L	1	10/09/2014 9:23	79405

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

10/16/2014

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: REW-10-20140923

Lab ID: N1786-09

Project: Raytheon - Wayland

Collection Date: 09/23/14 12:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids							E300_VOA_W
Lactic Acid	ND		5.0	mg/L	1	09/30/2014 23:19	79293
Acetic Acid	230		50	mg/L	10	10/01/2014 10:59	79293
Propionic Acid	11		5.0	mg/L	1	09/30/2014 23:19	79293
Butyric Acid	9.4		5.0	mg/L	1	09/30/2014 23:19	79293
EPA 300.0 -- Anions by Ion Chromotography (LOW)							E300IC_W
Chloride	56	B	2.0	mg/L	1	09/24/2014 21:58	79190
Nitrogen, Nitrate (As N)	ND		0.13	mg/L	1	09/24/2014 21:58	79190
Sulfate	0.98	BJ	5.0	mg/L	1	09/24/2014 21:58	79190
SM 2320B -- Alkalinity (Total)							SM2320_W
Alkalinity, Total (As CaCO3)	340		20	mg/L CaCO3	1	09/30/2014 16:00	79294
SM 4500 H+ B -- pH VALUE							SM4500_H+
pH	6.5		1.0	S.U.	1	09/24/2014 0:00	R84503
SM 4500P-E OP -- Orthophosphate							SM4500_OP_W
Orthophosphate (As PO4)	0.46		0.050	mg/L	1	09/25/2014 11:44	79201
SM 5310B TOC -- Total Organic Carbon by combustion							SM5310B_TOC_W
Organic Carbon, Total	170		10	mg/L	1	10/09/2014 9:50	79405

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

Client: Innovative Engineering Solutions, Inc.

Client Sample ID: DUP3-20140923

Lab ID: N1786-10

Project: Raytheon - Wayland

Collection Date: 09/23/14 0:00

Analyses	Result Qual	RL Units	DF Date Analyzed	Batch ID
EPA 300.0 Modified -- Volatile Organic Acids				E300_VOA_W
Lactic Acid	ND	5.0 mg/L	1 09/30/2014 23:40	79293
Acetic Acid	18	5.0 mg/L	1 09/30/2014 23:40	79293
Propionic Acid	ND	5.0 mg/L	1 09/30/2014 23:40	79293
Butyric Acid	ND	5.0 mg/L	1 09/30/2014 23:40	79293
EPA 300.0 -- Anions by Ion Chromotography (LOW)				E300IC_W
Chloride	38 B	2.0 mg/L	1 09/24/2014 22:10	79190
Nitrogen, Nitrate (As N)	ND	0.13 mg/L	1 09/24/2014 22:10	79190
Sulfate	0.54 BJ	5.0 mg/L	1 09/24/2014 22:10	79190
SM 2320B -- Alkalinity (Total)				SM2320_W
Alkalinity, Total (As CaCO3)	660	20 mg/L CaCO3	1 09/30/2014 16:00	79294
SM 4500 H+ B -- pH VALUE				SM4500_H+
pH	6.8	1.0 S.U.	1 09/24/2014 0:00	R84503
SM 4500P-E OP -- Orthophosphate				SM4500_OP_W
Orthophosphate (As PO4)	0.11	0.050 mg/L	1 09/25/2014 11:48	79201
SM 5310B TOC -- Total Organic Carbon by combustion				SM5310B_TOC_W
Organic Carbon, Total	22	10 mg/L	1 10/09/2014 10:11	79405

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DF - Dilution Factor

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range
 RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: NI1786
Project: Raytheon - Wayland

E300_VOA_W
EPA 300.0 Modified -- Volatile Organic Acids

Sample ID: **MB-79293** Prep Date: **09/30/14 11:21** Run ID: **IC1_140930A**
 Client ID: **MB-79293** Analysis Date: **09/30/14 13:06** SeqNo: **2159816**
 TestCode: **E300_VOA_W**
 Units: **mg/L**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lactic Acid	ND	2.2	5.0									
Acetic Acid	ND	0.35	5.0									
Propionic Acid	ND	0.50	5.0									
Butyric Acid	ND	0.45	5.0									

Sample ID: **LCS-79293** Prep Date: **09/30/14 11:21** Run ID: **IC1_140930A**
 Client ID: **LCS-79293** Analysis Date: **09/30/14 13:28** SeqNo: **2159817**
 TestCode: **E300_VOA_W**
 Units: **mg/L**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lactic Acid	45.36	2.2	5.0	50.00	0	90.7	75	125	0			
Acetic Acid	49.55	0.35	5.0	50.00	0	99.1	75	125	0			
Propionic Acid	48.40	0.50	5.0	50.00	0	96.8	75	125	0			
Butyric Acid	46.58	0.45	5.0	50.00	0	93.2	75	125	0			

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

CLIENT: Innovative Engineering Solutions, Inc.
Work Order: NI1786
Project: Raytheon - Wayland

ANALYTICAL QC SUMMARY REPORT

E300IC_W
EPA 300.0 -- Anions by Ion Chromotography (LOW)

Sample ID: MB-79190	SampType: MBLK	TestCode: E300IC_W	Prep Date: 09/24/14 16:04	Run ID: IC1_140924A							
Client ID: MB-79190	Batch ID: 79190	Units: mg/L	Analysis Date: 09/24/14 18:50	SeqNo: 2156472							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	0.5866	0.28	2.0								J
Nitrogen, Nitrate (As N)	ND	0.083	0.13								J
Sulfate	0.3419	0.15	5.0								J

Sample ID: LCS-79190	SampType: LCS	TestCode: E300IC_W	Prep Date: 09/24/14 16:04	Run ID: IC1_140924A							
Client ID: LCS-79190	Batch ID: 79190	Units: mg/L	Analysis Date: 09/24/14 19:02	SeqNo: 2156473							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	15.10	0.28	2.0	0	94.4	90	11.0	0			B
Nitrogen, Nitrate (As N)	0.9909	0.083	0.13	0	99.1	90	11.0	0			B
Sulfate	38.05	0.15	5.0	0	95.1	90	11.0	0			B

Sample ID: LCSD-79190	SampType: LCSD	TestCode: E300IC_W	Prep Date: 09/24/14 16:04	Run ID: IC1_140924A							
Client ID: LCSD-79190	Batch ID: 79190	Units: mg/L	Analysis Date: 09/24/14 19:13	SeqNo: 2156474							
Analyte	Result	MDL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	14.39	0.28	2.0	0	89.9	90	11.0	15.10	4.82	20	BS
Nitrogen, Nitrate (As N)	0.9382	0.083	0.13	0	93.8	90	11.0	0.9909	5.46	20	B
Sulfate	36.18	0.15	5.0	0	90.4	90	11.0	38.05	5.04	20	B

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 m14.10.03.1043 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: N1786

SM2320_W

Project: Raytheon - Wayland

SM 2320B -- Alkalinity (Total)

Sample ID: MB-79294	SampType: MBLK	TestCode: SM2320_W	Prep Date: 09/30/14 15:00	Run ID: MANUAL_140930A
Client ID: MB-79294	Batch ID: 79294	Units: mg/L CaCO3	Analysis Date: 09/30/14 16:00	SeqNo: 2159644
Analyte	Result	MDL	SPK Ref Val	%REC
	ND	20	0	1.01
			SPK value	LowLimit HighLimit
			1.00.0	80 1.20
			RPD Ref Val	%RPD RPDLimit
			0	0

Sample ID: LCS-79294	SampType: LCS	TestCode: SM2320_W	Prep Date: 09/30/14 15:00	Run ID: MANUAL_140930A
Client ID: LCS-79294	Batch ID: 79294	Units: mg/L CaCO3	Analysis Date: 09/30/14 16:00	SeqNo: 2159645
Analyte	Result	MDL	SPK Ref Val	%REC
	1.01.0	20	0	1.01
			SPK value	LowLimit HighLimit
			1.00.0	80 1.20
			RPD Ref Val	%RPD RPDLimit
			0	0

Alkalinity, Total (As CaCO3)

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: NI1786

SM4500_OP_W

Project: Raytheon - Wayland

SM 4500P-E OP -- Orthophosphate

Sample ID: MB-79201	SampType: MBLK	TestCode: SM4500_OP_W	Prep Date: 09/25/14 11:00	Run ID: SPEC2_140925A
Client ID: MB-79201	Batch ID: 79201	Units: mg/L	Analysis Date: 09/25/14 11:00	SeqNo: 2156596
Analyte	Result	MDL	SPK Ref Val	RPD Ref Val
	ND	0.050	0	0
			LowLimit	HighLimit
			104	120
			%REC	%RPD
			0	0
			RPD	RPDLimit
			0	0

Sample ID: LCS-79201	SampType: LCS	TestCode: SM4500_OP_W	Prep Date: 09/25/14 11:00	Run ID: SPEC2_140925A
Client ID: LCS-79201	Batch ID: 79201	Units: mg/L	Analysis Date: 09/25/14 11:04	SeqNo: 2156597
Analyte	Result	MDL	SPK Ref Val	RPD Ref Val
	0.4309	0.050	0	0
			LowLimit	HighLimit
			104	120
			%REC	%RPD
			0	0
			RPD	RPDLimit
			0	0

Sample ID: LCSD-79201	SampType: LCSD	TestCode: SM4500_OP_W	Prep Date: 09/25/14 11:00	Run ID: SPEC2_140925A
Client ID: LCSD-79201	Batch ID: 79201	Units: mg/L	Analysis Date: 09/25/14 11:08	SeqNo: 2156598
Analyte	Result	MDL	SPK Ref Val	RPD Ref Val
	0.4279	0.050	0	0
			LowLimit	HighLimit
			104	120
			%REC	%RPD
			0	0
			RPD	RPDLimit
			0	0

Orthophosphate (As PO4)	0.4279	0.050	0	0	0.4309	0.707	20
			0.4128	120			
			0.4128	120			

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

ANALYTICAL QC SUMMARY REPORT

CLIENT: Innovative Engineering Solutions, Inc.

Work Order: NI1786

SM5310B_TOC_W

Project: Raytheon - Wayland

SM 5310B TOC -- Total Organic Carbon by combustion

Sample ID: MB-79405	SampType: MBLK	TestCode: SM5310B_TOC_W	Prep Date: 10/08/14 10:00	Run ID: TOC1_141008A	
Client ID: MB-79405	Batch ID: 79405	Units: mg/L	Analysis Date: 10/09/14 1:17	SeqNo: 2164936	
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit HighLimit
	ND	2.0	0	116	80 120
Organic Carbon, Total			SPK value	%RPD	RPDLimit
			60.00	0	0

Sample ID: LCS-79405	SampType: LCS	TestCode: SM5310B_TOC_W	Prep Date: 10/08/14 10:00	Run ID: TOC1_141008A	
Client ID: LCS-79405	Batch ID: 79405	Units: mg/L	Analysis Date: 10/09/14 1:39	SeqNo: 2164937	
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit HighLimit
	69.53	2.0	0	116	80 120
Organic Carbon, Total			SPK value	%RPD	RPDLimit
			60.00	0	0

Sample ID: LCSD-79405	SampType: LCSD	TestCode: SM5310B_TOC_W	Prep Date: 10/08/14 10:00	Run ID: TOC1_141008A	
Client ID: LCSD-79405	Batch ID: 79405	Units: mg/L	Analysis Date: 10/09/14 2:00	SeqNo: 2164944	
Analyte	Result	MDL	SPK Ref Val	%REC	LowLimit HighLimit
	69.58	2.0	0	116	80 120
Organic Carbon, Total			SPK value	%RPD	RPDLimit
			60.00	0	0

Qualifiers: ND - Not Detected at the MDL S - Recovery outside accepted recovery limits MDL - Method Detection Limit B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits RL - Reporting Limit

Report Date:
06-Oct-14 11:30



- Final Report
- Re-Issued Report
- Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY
Laboratory Report

Spectrum Analytical, Inc.
646 Camp Ave.
North Kingstown, RI 02852
Attn: Agnes Huntley

Project: Raytheon-Wayland
Project #: N1786

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SB97097-01	MW-261S-20140923	Aqueous	23-Sep-14 07:25	25-Sep-14 18:15
SB97097-02	MW-265M-20140923	Aqueous	23-Sep-14 10:25	25-Sep-14 18:15
SB97097-03	MW-268S-20140923	Aqueous	23-Sep-14 10:35	25-Sep-14 18:15
SB97097-04	MW-268M-20140923	Aqueous	23-Sep-14 09:40	25-Sep-14 18:15
SB97097-05	MW-552-20140923	Aqueous	23-Sep-14 08:35	25-Sep-14 18:15
SB97097-06	REW-1-20140923	Aqueous	23-Sep-14 13:40	25-Sep-14 18:15
SB97097-07	REW-4-20140923	Aqueous	23-Sep-14 12:35	25-Sep-14 18:15
SB97097-08	REW-5-20140923	Aqueous	23-Sep-14 11:25	25-Sep-14 18:15
SB97097-09	REW-10-20140923	Aqueous	23-Sep-14 12:15	25-Sep-14 18:15
SB97097-10	DUP3-20140923	Aqueous	23-Sep-14 00:00	25-Sep-14 18:15

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Pennsylvania # 68-04426/68-02924
Rhode Island # 98
USDA # S-51435



Authorized by:

Nicole Leja
Laboratory Director

Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 7 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

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Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

The samples were received -0.6 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Acceptance Check Form

Client: Spectrum Analytical, Inc. - North Kingstown, RI
 Project: Raytheon-Wayland / N1786
 Work Order: SB97097
 Sample(s) received on: 9/25/2014

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
1. Were custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Were custody seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Were samples cooled on ice upon transfer to laboratory representative?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Were samples refrigerated upon transfer to laboratory representative?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Were sample containers received intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Were samples accompanied by a Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. Did sample container labels agree with Chain of Custody document?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Were samples received within method-specific holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Sample IdentificationMW-261S-20140923
SB97097-01Client Project #
N1786Matrix
AqueousCollection Date/Time
23-Sep-14 07:25Received
25-Sep-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N	0.560			mg/l	0.200	0.118	1	SM4500-NH3 C.	01-Oct-14	01-Oct-14	EEM	1423087	X
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Sample IdentificationMW-265M-20140923
SB97097-02Client Project #
N1786Matrix
AqueousCollection Date/Time
23-Sep-14 10:25Received
25-Sep-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N	0.210			mg/l	0.200	0.118	1	SM4500-NH3 C.	01-Oct-14	01-Oct-14	EEM	1423087	X
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Sample IdentificationMW-268S-20140923
SB97097-03Client Project #
N1786Matrix
AqueousCollection Date/Time
23-Sep-14 10:35Received
25-Sep-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N	0.210			mg/l	0.200	0.118	1	SM4500-NH3 C.	01-Oct-14	01-Oct-14	EEM	1423087	X
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Sample IdentificationMW-268M-20140923
SB97097-04Client Project #
N1786Matrix
AqueousCollection Date/Time
23-Sep-14 09:40Received
25-Sep-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N	0.210			mg/l	0.200	0.118	1	SM4500-NH3 C.	01-Oct-14	01-Oct-14	EEM	1423087	X
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Sample IdentificationMW-552-20140923
SB97097-05Client Project #
N1786Matrix
AqueousCollection Date/Time
23-Sep-14 08:35Received
25-Sep-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N	< 0.200	U		mg/l	0.200	0.118	1	SM4500-NH3 C.	01-Oct-14	01-Oct-14	EEM	1423087	X
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Sample IdentificationREW-1-20140923
SB97097-06Client Project #
N1786Matrix
AqueousCollection Date/Time
23-Sep-14 13:40Received
25-Sep-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N	0.630			mg/l	0.200	0.118	1	SM4500-NH3 C.	01-Oct-14	01-Oct-14	EEM	1423087	X
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Sample Identification

REW-4-20140923

SB97097-07

Client Project #

N1786

Matrix

Aqueous

Collection Date/Time

23-Sep-14 12:35

Received

25-Sep-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N

3.08

mg/l

0.200

0.118

1

SM4500-NH3 C.

01-Oct-14

01-Oct-14

EEM

1423087

X

Sample Identification

REW-5-20140923

SB97097-08

Client Project #

N1786

Matrix

Aqueous

Collection Date/Time

23-Sep-14 11:25

Received

25-Sep-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N

0.210

mg/l

0.200

0.118

1

SM4500-NH3 C.

01-Oct-14

01-Oct-14

EEM

1423087

X

Sample Identification

REW-10-20140923

SB97097-09

Client Project #

N1786

Matrix

Aqueous

Collection Date/Time

23-Sep-14 12:15

Received

25-Sep-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
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General Chemistry Parameters

Ammonia as N

2.66

LIV

mg/l

0.400

0.236

1

SM4500-NH3 C.

01-Oct-14

01-Oct-14

EEM

1423087

X

Sample Identification

DUP3-20140923

SB97097-10

Client Project #

N1786

Matrix

Aqueous

Collection Date/Time

23-Sep-14 00:00

Received

25-Sep-14

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
---------	------------	--------	------	-------	------	-----	----------	-------------	----------	----------	---------	-------	-------

General Chemistry Parameters

Ammonia as N

0.560

mg/l

0.200

0.118

1

SM4500-NH3 C.

01-Oct-14

01-Oct-14

EEM

1423087

X

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1423087 - General Preparation										
<u>Blank (1423087-BLK1)</u>								<u>Prepared & Analyzed: 01-Oct-14</u>		
Ammonia as N	< 0.200	U	mg/l	0.200						
<u>LCS (1423087-BS1)</u>								<u>Prepared & Analyzed: 01-Oct-14</u>		
Ammonia as N	4.69		mg/l	0.200	5.00		94	90-110		
<u>Reference (1423087-SRM1)</u>								<u>Prepared & Analyzed: 01-Oct-14</u>		
Ammonia as N	1.89		mg/l	0.200	1.92		98	55-144		

Notes and Definitions

U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
LIV	The initial volume for this sample has been reduced due to sample matrix and/or historical data therefore elevating the reporting limit.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

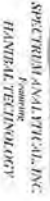
Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.

Validated by:
June O'Connor



CHAIN-OF-CUSTODY RECORD

SB97097-01

WorkOrder : N1786

Project: Raytheon - Wayland

Report Type : LEVEL 2

Due Date : 10/6/2014

FAX Due Date :

Report To : Agnes R Huntley

Purchase Order : N1786

EDD Types : **Please generate a Little PEL EDD**

Requested Test

Subcontractor:
Spectrum Analytical, Inc. - Agawam, MA
11 Almgren Drive
Agawam, Massachusetts 01001
Phone: (413) 789-9018

EQUIFacilityCode: N/A

= number of containers

Client Sample ID	Collection Date	#	Matrix	DUP/MS/MSD	Mitkem Sample ID	SM4500 NH3 W														
MMW-261S-20140923	09/23/2014 07:25	1	Aqueous		N1786-01G	X														
MMW-265M-20140923	09/23/2014 10:25	1	Aqueous		N1786-02G	X														
MMW-268S-20140923	09/23/2014 10:35	1	Aqueous		N1786-03G	X														
MMW-268M-20140923	09/23/2014 09:40	1	Aqueous		N1786-04G	X														
MMW-552-20140923	09/23/2014 08:35	1	Aqueous		N1786-05G	X														
REW-1-20140923	09/23/2014 13:40	1	Aqueous		N1786-06G	X														

1) SM4500_NH3_W, NITROGEN (AMMONIA)

Use 'Client Sample ID' when reporting data. If needed, truncate 'Client Sample ID' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments:

Reinquished by:	<i>Agnes R Huntley</i>	Date/Time	Received by:	<i>Michael</i>	Date/Time
Reinquished by:	<i>MLP</i>		Received by:	<i>SM</i>	

646 Camp Ave * North Kingstown * RI * (0285)24008 * 401-732-3400 * 401-732-3499
www.spectrum-analytical.com

CHAIN-OF-CUSTODY RECORD

WorkOrder : N1786

Project: Raytheon - Wayland

Report Type : LEVEL 2

Due Date : 10/6/2014

FAX Due Date :

Report To : Agnes R Huntley

Purchase Order : N1786

EDD Types : **Please generate a Little PEL EDD**

Requested Test

Subcontractor:
 Spectrum Analytical, Inc. - Agawam, MA
 11 Almgren Drive
 Agawam, Massachusetts 01001
 Phone: (413) 789-9018

EquipFacilityCode: N/A

= number of containers

Client Sample ID	Collection Date	#	Matrix	DUP/PMS/MSD	Mitkem Sample ID	SM4500 NH3 W														
REW-4-20140923	09/23/2014 12:35	1	Aqueous		N1786-07G	X														
REW-5-20140923	09/23/2014 11:25	1	Aqueous		N1786-08G	X														
REW-10-20140923	09/23/2014 12:15	1	Aqueous		N1786-09G	X														
DUP3-20140923	09/23/2014 00:00	1	Aqueous		N1786-10G	X														

1) SM4500_NH3_W, NITROGEN (AMMONIA)

Use 'Client Sample ID's' when reporting data. If needed, truncate 'Client Sample ID's' to fit on reports. Use full 'Client Sample ID' when generating EDD.
Comments:

Reinquished by:	<i>Agnes R Huntley</i>	Date/Time	
Received by:	<i>McLeod</i>	Date/Time	09/23/2014
Reinquished by:	<i>McLeod</i>	Received by:	<i>JVM</i>
		Date/Time	09/23/14

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 www.spectrum-analytical.com

SB9709754

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N1786

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-008

HC Due: 10/06/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N1786-01A	MW-261S-20140923	09/23/2014 07:25	09/24/2014	Aqueous	RSK175	/					VOA
N1786-01B	MW-261S-20140923	09/23/2014 07:25	09/24/2014	Aqueous	E300_VOA_W	/				Y	H3
N1786-01C	MW-261S-20140923	09/23/2014 07:25	09/24/2014	Aqueous	SM5310B_TOC_W	/					R22
N1786-01D	MW-261S-20140923	09/23/2014 07:25	09/24/2014	Aqueous	SM4500_OP_W	/					H3
N1786-01E	MW-261S-20140923	09/23/2014 07:25	09/24/2014	Aqueous	SW6010_W	/ Fe only				Y	M1
N1786-01F	MW-261S-20140923	09/23/2014 07:25	09/24/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	H3
N1786-01F	MW-261S-20140923	09/23/2014 07:25	09/24/2014	Aqueous	SM2320_W	/					H3
N1786-01F	MW-261S-20140923	09/23/2014 07:25	09/24/2014	Aqueous	SM4500_H+	/					H3
N1786-01G	MW-261S-20140923	09/23/2014 07:25	09/24/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1786-02A	MW-265M-20140923	09/23/2014 10:25	09/24/2014	Aqueous	RSK175	/					VOA
N1786-02B	MW-265M-20140923	09/23/2014 10:25	09/24/2014	Aqueous	E300_VOA_W	/				Y	H3
N1786-02C	MW-265M-20140923	09/23/2014 10:25	09/24/2014	Aqueous	SM5310B_TOC_W	/					R22
N1786-02D	MW-265M-20140923	09/23/2014 10:25	09/24/2014	Aqueous	SM4500_OP_W	/					H3
N1786-02E	MW-265M-20140923	09/23/2014 10:25	09/24/2014	Aqueous	SW6010_W	/ Fe only				Y	M1
N1786-02F	MW-265M-20140923	09/23/2014 10:25	09/24/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	H3
N1786-02F	MW-265M-20140923	09/23/2014 10:25	09/24/2014	Aqueous	SM2320_W	/					H3
N1786-02F	MW-265M-20140923	09/23/2014 10:25	09/24/2014	Aqueous	SM4500_H+	/					H3
N1786-02G	MW-265M-20140923	09/23/2014 10:25	09/24/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1786-03A	MW-268S-20140923	09/23/2014 10:35	09/24/2014	Aqueous	RSK175	/					VOA

HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N1786

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-008

HC Due: 10/06/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N1786-03B	MW-268S-20140923	09/23/2014 10:35	09/24/2014	Aqueous	E300_VOA_W	/				Y	H3
N1786-03C	MW-268S-20140923	09/23/2014 10:35	09/24/2014	Aqueous	SM5310B_TOC_W	/					R22
N1786-03D	MW-268S-20140923	09/23/2014 10:35	09/24/2014	Aqueous	SM4500_OP_W	/					H3
N1786-03E	MW-268S-20140923	09/23/2014 10:35	09/24/2014	Aqueous	SW6010_W	/ Fe only				Y	M1
N1786-03F	MW-268S-20140923	09/23/2014 10:35	09/24/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	H3
N1786-03F	MW-268S-20140923	09/23/2014 10:35	09/24/2014	Aqueous	SM2320_W	/					H3
N1786-03F	MW-268S-20140923	09/23/2014 10:35	09/24/2014	Aqueous	SM4500_H+	/					H3
N1786-03G	MW-268S-20140923	09/23/2014 10:35	09/24/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1786-04A	MW-268M-20140923	09/23/2014 09:40	09/24/2014	Aqueous	RSK175	/					VOA
N1786-04B	MW-268M-20140923	09/23/2014 09:40	09/24/2014	Aqueous	E300_VOA_W	/				Y	H3
N1786-04C	MW-268M-20140923	09/23/2014 09:40	09/24/2014	Aqueous	SM5310B_TOC_W	/					R22
N1786-04D	MW-268M-20140923	09/23/2014 09:40	09/24/2014	Aqueous	SM4500_OP_W	/					H3
N1786-04E	MW-268M-20140923	09/23/2014 09:40	09/24/2014	Aqueous	SW6010_W	/ Fe only				Y	M1
N1786-04F	MW-268M-20140923	09/23/2014 09:40	09/24/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	H3
N1786-04F	MW-268M-20140923	09/23/2014 09:40	09/24/2014	Aqueous	SM2320_W	/					H3
N1786-04F	MW-268M-20140923	09/23/2014 09:40	09/24/2014	Aqueous	SM4500_H+	/					H3
N1786-04G	MW-268M-20140923	09/23/2014 09:40	09/24/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1786-05A	MW-552-20140923	09/23/2014 08:35	09/24/2014	Aqueous	RSK175	/					VOA
N1786-05B	MW-552-20140923	09/23/2014 08:35	09/24/2014	Aqueous	E300_VOA_W	/				Y	H3

HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N1786

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-008

HC Due: 10/06/14

Fax Due:

EDD: CLF

Report Level: LEVEL 2

Special Program:

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N1786-05C	MW-552-20140923	09/23/2014 08:35	09/24/2014	Aqueous	SM5310B_TOC_W	/					R22
N1786-05D	MW-552-20140923	09/23/2014 08:35	09/24/2014	Aqueous	SM4500_OP_W	/					H3
N1786-05E	MW-552-20140923	09/23/2014 08:35	09/24/2014	Aqueous	SW6010_W	/ Fe only				Y	M1
N1786-05F	MW-552-20140923	09/23/2014 08:35	09/24/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	H3
N1786-05F	MW-552-20140923	09/23/2014 08:35	09/24/2014	Aqueous	SM2320_W	/					H3
N1786-05F	MW-552-20140923	09/23/2014 08:35	09/24/2014	Aqueous	SM4500_H+	/					H3
N1786-05G	MW-552-20140923	09/23/2014 08:35	09/24/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1786-06A	REW-1-20140923	09/23/2014 13:40	09/24/2014	Aqueous	RSK175	/					VOA
N1786-06B	REW-1-20140923	09/23/2014 13:40	09/24/2014	Aqueous	E300_VOA_W	/				Y	H3
N1786-06C	REW-1-20140923	09/23/2014 13:40	09/24/2014	Aqueous	SM5310B_TOC_W	/					R22
N1786-06D	REW-1-20140923	09/23/2014 13:40	09/24/2014	Aqueous	SM4500_OP_W	/					H3
N1786-06E	REW-1-20140923	09/23/2014 13:40	09/24/2014	Aqueous	SW6010_W	/ Fe only				Y	M1
N1786-06F	REW-1-20140923	09/23/2014 13:40	09/24/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	H3
N1786-06F	REW-1-20140923	09/23/2014 13:40	09/24/2014	Aqueous	SM2320_W	/					H3
N1786-06F	REW-1-20140923	09/23/2014 13:40	09/24/2014	Aqueous	SM4500_H+	/					H3
N1786-06G	REW-1-20140923	09/23/2014 13:40	09/24/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1786-07A	REW-4-20140923	09/23/2014 12:35	09/24/2014	Aqueous	RSK175	/					VOA
N1786-07B	REW-4-20140923	09/23/2014 12:35	09/24/2014	Aqueous	E300_VOA_W	/				Y	H3
N1786-07C	REW-4-20140923	09/23/2014 12:35	09/24/2014	Aqueous	SM5310B_TOC_W	/					R22

HT = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division **WorkOrder: N1786**

Client ID: IESI **Case:** **HC Due:** 10/06/14 **Report Level:** LEVEL 2
Project: Raytheon - Wayland **Special Program:**
WO Name: Raytheon - Wayland **Fax Due:** **EDD:** CLF
Location: IESI_WAYLAND, **Fax Report:**
Comments: N/A **PO:** RA-008

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N1786-07D	REW-4-20140923	09/23/2014 12:35	09/24/2014	Aqueous	SM4500_OP_W	/					H3
N1786-07E	REW-4-20140923	09/23/2014 12:35	09/24/2014	Aqueous	SW6010_W	/ Fe only				Y	M1
N1786-07F	REW-4-20140923	09/23/2014 12:35	09/24/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	H3
N1786-07F	REW-4-20140923	09/23/2014 12:35	09/24/2014	Aqueous	SM2320_W	/					H3
N1786-07F	REW-4-20140923	09/23/2014 12:35	09/24/2014	Aqueous	SM4500_H+	/					H3
N1786-07G	REW-4-20140923	09/23/2014 12:35	09/24/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1786-08A	REW-5-20140923	09/23/2014 11:25	09/24/2014	Aqueous	RSK175	/					VOA
N1786-08B	REW-5-20140923	09/23/2014 11:25	09/24/2014	Aqueous	E300_VOA_W	/				Y	H3
N1786-08C	REW-5-20140923	09/23/2014 11:25	09/24/2014	Aqueous	SM5310B_TOC_W	/					R22
N1786-08D	REW-5-20140923	09/23/2014 11:25	09/24/2014	Aqueous	SM4500_OP_W	/					H3
N1786-08E	REW-5-20140923	09/23/2014 11:25	09/24/2014	Aqueous	SW6010_W	/ Fe only				Y	M1
N1786-08F	REW-5-20140923	09/23/2014 11:25	09/24/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	H3
N1786-08F	REW-5-20140923	09/23/2014 11:25	09/24/2014	Aqueous	SM2320_W	/					H3
N1786-08F	REW-5-20140923	09/23/2014 11:25	09/24/2014	Aqueous	SM4500_H+	/					H3
N1786-08G	REW-5-20140923	09/23/2014 11:25	09/24/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1786-09A	REW-10-20140923	09/23/2014 12:15	09/24/2014	Aqueous	RSK175	/					VOA
N1786-09B	REW-10-20140923	09/23/2014 12:15	09/24/2014	Aqueous	E300_VOA_W	/				Y	H3
N1786-09C	REW-10-20140923	09/23/2014 12:15	09/24/2014	Aqueous	SM5310B_TOC_W	/					R22
N1786-09D	REW-10-20140923	09/23/2014 12:15	09/24/2014	Aqueous	SM4500_OP_W	/					H3

HT = Fraction logged in but all tests have been placed on hold
 HT = Test logged in but has been placed on hold
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 Lab Client Rep: Agnes R Huntley
 09/25/2014 10:24
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Spectrum Analytical Inc. - North Kingstown RI -- Rhode Island Division

WorkOrder: N1786

Client ID: IESI

Project: Raytheon - Wayland

WO Name: Raytheon - Wayland

Location: IESI_WAYLAND,

Comments: N/A

Case:

SDG:

PO: RA-008

HC Due: 10/06/14

Fax Due:

Fax Report:

Report Level: LEVEL 2

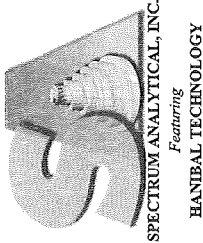
Special Program:

EDD: CLF

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
N1786-09E	REW-10-20140923	09/23/2014 12:15	09/24/2014	Aqueous	SW6010_W	/ Fe only				Y	M1
N1786-09F	REW-10-20140923	09/23/2014 12:15	09/24/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	H3
N1786-09F	REW-10-20140923	09/23/2014 12:15	09/24/2014	Aqueous	SM2320_W	/					H3
N1786-09F	REW-10-20140923	09/23/2014 12:15	09/24/2014	Aqueous	SM4500_H+	/					H3
N1786-09G	REW-10-20140923	09/23/2014 12:15	09/24/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1786-10A	DUP3-20140923	09/23/2014 00:00	09/24/2014	Aqueous	RSK175	/					VOA
N1786-10B	DUP3-20140923	09/23/2014 00:00	09/24/2014	Aqueous	E300_VOA_W	/				Y	H3
N1786-10C	DUP3-20140923	09/23/2014 00:00	09/24/2014	Aqueous	SM5310B_TOC_W	/					R22
N1786-10D	DUP3-20140923	09/23/2014 00:00	09/24/2014	Aqueous	SM4500_OP_W	/					H3
N1786-10E	DUP3-20140923	09/23/2014 00:00	09/24/2014	Aqueous	SW6010_W	/ Fe only				Y	M1
N1786-10F	DUP3-20140923	09/23/2014 00:00	09/24/2014	Aqueous	E300IC_W	/ NO3,Cl,SO4				Y	H3
N1786-10F	DUP3-20140923	09/23/2014 00:00	09/24/2014	Aqueous	SM2320_W	/					H3
N1786-10F	DUP3-20140923	09/23/2014 00:00	09/24/2014	Aqueous	SM4500_H+	/					H3
N1786-10G	DUP3-20140923	09/23/2014 00:00	09/24/2014	Aqueous	SM4500_NH3_W	/ SPECTRUM--sub to Agawam					SUB
N1786-11A	TRIP BLANK	09/23/2014 00:00	09/24/2014	Aqueous	RSK175	/					VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold



N1786

CHAIN OF CUSTODY RECORD

HANIBAL TECHNOLOGY

Page 1 of 2

Special Handling:
 Standard TAT - 7 to 10 business days
 Rush TAT - Date Needed: _____
 All TATs subject to laboratory approval
 Min. 24-hr notification needed for rushes
 Samples disposed after 60 days unless otherwise instructed.

Report To: Industrial Engineering Solutions Inc
25 Spaulding St
Woburn, MA 01891
 Telephone #: 508-668-0033
 Project Mgr: Nick Penney

Invoice To: same
 P.O. No.: RA-008 Quote/RQN: _____

Project No: RA-008
 Site Name: Roathen Wmford
 Location: Woburn State: MA
 Sampler(s): Debra Gately
Cynthia Hiron

F=Field Filtered 1=Na₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
 7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₃PO₄ 11= _____ 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
 O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
 X1= _____ X2= _____ X3= _____

List Preservative Code below:

2	2	2	4	10
---	---	---	---	----

QA/QC Reporting Notes:
 * additional charges may apply

MA DEP MCP CAM Report? Yes No
 CTDPH RCP Report? Yes No
 Standard No QC
 DQA*
 ASP A* ASP B*
 NI Reduced* NI Full*
 Tier II* Tier IV*
 Other: _____
 State-specific reporting standards: _____

Check if chlorinated:

Containers

of VOA Vials
 # of Amber Glass
 # of Clear Glass
 # of Plastic

Analysis

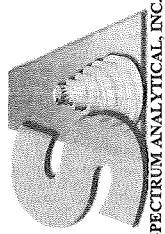
Matrix

Lab ID:	Sample ID:	Date:	Time:	C-Composite	
				Type	Matrix
N1786-01	MW-2165-20140923	9/23/14	0725	C CW	6
-02	MW-2165M-20140923	9/23/14	1025	C CW	6
-03	MW-2165-20140923	9/23/14	1035	C CW	6
-04	MW-2165M-20140923	9/23/14	0940	C CW	6
-05	MW-552-20140923	9/23/14	0835	C CW	6
-06	REW-1-20140923	9/23/14	1340	C CW	6
-07	REW-1-20140923	9/23/14	1235	C CW	6
-08	REW-5-20140923	9/23/14	1215	C CW	6
-09	REW-10-20140923	9/23/14	1215	C CW	6
N1786-10	Dup3-20140923	9/23/14	-	C CW	6

Relinquished by:	Received by:	Date:	Time:	Temp °C
<i>[Signature]</i>	<i>[Signature]</i>	9/23/14	1430	Observed -0.8
<i>[Signature]</i>	<i>[Signature]</i>	9/23/17	1620	Corrected Factor 6
<i>[Signature]</i>	<i>[Signature]</i>	9-24-14	9:00	Corrected -0.8
<i>[Signature]</i>	<i>[Signature]</i>	9/24/14	11:45	IPED 0

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Condition upon receipt: Custody Seals: Present Intact Broken
 Ambient Iced Refrigerated DI VOA Frozen Soil Jar Frozen



SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

N1786

CHAIN OF CUSTODY RECORD

Page 2 of 2

Special Handling:
 Standard TAT - 7 to 10 business days
 Rush TAT - Date Needed: _____

All TATs subject to laboratory approval
 Min. 24-hr notification needed for rushes
 Samples disposed after 60 days unless otherwise instructed.

Report To: Tancred Engineering Solutions Inc
83 Spruce St
Walden MA 02091
 Telephone #: 508-668-0033
 Project Mgr: V. P. P...

Invoice To: Scorx
 P.O. No.: RA-008 Quote/RON: _____

Project No: RA-008
 Site Name: Raytheon - Walden
 Location: Walden State: MA
 Sampler(s): Davey Stone
Christina Hirsch

F=Field Filtered 1=N₂S₂O₃ 2=HCl 3=H₂SO₄ 4=HNO₃ 5=NaOH 6=Ascorbic Acid
 7=CH₃OH 8=NaHSO₄ 9=Deionized Water 10=H₂O
 11= _____ 12= _____

DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water
 O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas
 X1= _____ X2= _____ X3= _____

List Preservative Code below:

QA/QC Reporting Notes:
 * additional charges may apply

MA DEP MCP CAM Report? Yes No
 CT DPH RCP Report? Yes No
 Standard No QC
 DQA* ASP A* ASP B*
 NJ Reduced* NJ Full*
 Tier II* Tier IV*
 Other: _____
 State-specific reporting standards: _____

Lab ID:	Sample ID:	Date:	Time:	Containers			Temp °C	E-mail to:
				# of VOA Vials	# of Amber Glass	# of Clear Glass		
N1786-11	Triple Bleach	9/23/14	11:30	2			-0.8	V. P. P. @ TestSolvent.com
		9/23/14	16:20				0	
		9-24-14	9:00				-0.8	
		9/24/14	11:45				0	

Relinquished by:	Received by:	Date:	Time:	Temp °C	EDD format:
<u>[Signature]</u>	<u>[Signature]</u>	9/23/14	11:30	-0.8	<input checked="" type="checkbox"/> A
<u>[Signature]</u>	<u>[Signature]</u>	9/23/14	16:20	0	<input type="checkbox"/> B
<u>[Signature]</u>	<u>[Signature]</u>	9-24-14	9:00	-0.8	<input checked="" type="checkbox"/> C
<u>[Signature]</u>	<u>[Signature]</u>	9/24/14	11:45	0	<input type="checkbox"/> D

Received By: <u>ARAA</u>		Page 01 of 00					
Reviewed By: <u>KP</u>		Log-in Date 09/24/2014					
Work Order: N1786	Client Name: Innovative Engineering Solutions, Inc.						
Project Name/Event: Raytheon - Wayland							
Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.							
	Lab Sample ID	Preservation (pH)			VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"	
		HNO3	H2SO4	HCl	NaOH	H3PO4	
1. Custody Seal(s)	<u>Present / Absent</u>						
	N1786-01	<2	<2			<2	H
	<u>Intact / Broken</u>						
	N1786-02	<2	<2			<2	H
2. Custody Seal Nos.	N/A						
	N1786-03	<2	<2			<2	H
	<u>Present / Absent</u>						
	N1786-04	<2	<2			<2	H
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists							
	N1786-05	<2	<2			<2	H
	N1786-06	<2	<2			<2	H
	N1786-07	<2	<2			<2	H
4. Airbill	<u>AirBill / Sticker</u>						
	<u>Present / Absent</u>						
	N1786-08	<2	<2			<2	H
	N1786-09	<2	<2			<2	H
5. Airbill No.	Courier N/A						
	N1786-10	<2	<2			<2	H
	N1786-11						H
6. Sample Tags	<u>Present / Absent</u>						
Sample Tag Numbers	Listed /						
	<u>Not Listed on Chain-of-Custody</u>						
7. Sample Condition	<u>Intact / Broken / Leaking</u>						
8. Cooler Temperature Indicator Bottle	<u>Present / Absent</u>						
9. Cooler Temperature	1.3 °C						
10. Does information on TR/COCs and sample tags agree?	<u>Yes / No</u>						
11. Date Received at Laboratory	09/24/2014						
12. Time Received	11:45						
Sample Transfer							
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO						
Area #	Area #						
By	By						
On	On						
IR Temp Gun ID:MT-74							
Coolant Condition:							
<u>Preservative Name/Lot No:</u>							
VOA Matrix Key: US = Unpreserved Soil A = Air UA = Unpreserved Aqueous H = HCl M = MeOH E = Encore N = NaHSO4 F = Freeze							
See Sample Condition Notification/Corrective Action Form Yes / <u>No</u>							
Rad OK <u>Yes</u> / No							

Last Page of Data Report