

Roxie Trachtenberg

From: Julia Redden
Sent: Thursday, March 4, 2021 1:11 PM
To: Roxie Trachtenberg
Subject: FW: Wayland Property Owner Data Transmittal - March/April 2020
Attachments: National Development BWSC-123 Form.pdf; ERM Lab Reports_March April 2020.pdf; IESI Lab Report_March April 2020.pdf

From: Julia Redden
Sent: Tuesday, April 21, 2020 1:10 PM
To: jknights@NatDev.com; JFrazier@NatDev.com
Cc: Clementine Dulieu <Clementine.Dulieu@erm.com>; Katie Wolf <Katie.Wolf@erm.com>
Subject: Wayland Property Owner Data Transmittal - March/April 2020

Hi James and Joanne,

Environmental Resources Management (ERM) and Innovative Engineering Solutions, Inc. (IESI) collected groundwater samples from monitoring wells located on National Development property at the former Raytheon Facility located at 430 Boston Post Road in Wayland, MA in March/April 2020. The analytical results and BWSC-123 form are attached to this email.

These results are being sent for National Development's records.

Please let me know if you have any questions or require any additional information.

Thanks,

Julia Redden
Project Geologist

ERM
T 508 498 5311
E julia.redden@erm.com | W www.erm.com



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

-

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

1. Street Address: _____
City/Town: _____ Zip Code: _____

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

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

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

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

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

1. Street Address: _____
City/Town: _____ Zip Code: _____

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

- | | |
|--|---|
| Immediate Response Action | Phase III Feasibility Evaluation |
| Release Abatement Measure | Phase IV Remedy Implementation Plan |
| Utility-related Abatement Measure | Phase V/Remedy Operation Status |
| Phase I Initial Site Investigation | Post-Temporary Solution Operation, Maintenance and Monitoring |
| Phase II Comprehensive Site Assessment | Other _____ |
- (specify)

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

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

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

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



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

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NOTICE OF ENVIRONMENTAL SAMPLING

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

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

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

THE PERSON(S) PROVIDING THIS NOTICE

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

PURPOSE OF THIS NOTICE

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

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

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

FOR MORE INFORMATION

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

ANALYTICAL REPORT

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

Laboratory Job ID: 480-167984-1
Client Project/Site: IDS Wayland

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

Attn: Lyndsey Colburn



Authorized for release by:
4/7/2020 5:06:02 PM
Wyatt Watson, Project Management Assistant I
wyatt.watson@testamericainc.com
Designee for
Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

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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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Definitions/Glossary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Qualifiers

GC/MS VOA

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

Glossary

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

Case Narrative

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Job ID: 480-167984-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-167984-1

Receipt

The samples were received on 4/1/2020 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3° C.

GC/MS VOA

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

Method 8260C: The continuing calibration verification (CCV) for Tetrachloroethene and Hexachlorobutadiene associated with batch 480-524020 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following samples were affected : MW-1001M-20200331-01 (480-167984-1), MW-1003-20200331-01 (480-167984-2), MW-1004-20200331-01 (480-167984-3), MW-1005-20200331-01 (480-167984-4), MW-1010M-20200331-01 (480-167984-5), MW-1010D-20200331-01 (480-167984-6), MW-1013-20200331-01 (480-167984-8), MW-1014-20200331-01 (480-167984-9), MW-1015D-20200331-01 (480-167984-10), MW-1028-20200331-01 (480-167984-11), MW-1032-20200331-01 (480-167984-13), DUP-002-20200331-01 (480-167984-14), DUP-001-20200331-01 (480-167984-15), MW-1034-20200331-01 (480-167984-16) and TB-001-20200331-01 (480-167984-17).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-524020 exceeded control limits for the following analyte: 2-Butanone and Tetrahydrofuran. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate and Methacrylonitrile in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample. The following samples were affected : MW-1001M-20200331-01 (480-167984-1), MW-1003-20200331-01 (480-167984-2), MW-1004-20200331-01 (480-167984-3), MW-1005-20200331-01 (480-167984-4), MW-1010M-20200331-01 (480-167984-5), MW-1010D-20200331-01 (480-167984-6), MW-1013-20200331-01 (480-167984-8), MW-1014-20200331-01 (480-167984-9), MW-1015D-20200331-01 (480-167984-10), MW-1028-20200331-01 (480-167984-11), MW-1032-20200331-01 (480-167984-13), DUP-002-20200331-01 (480-167984-14), DUP-001-20200331-01 (480-167984-15), MW-1034-20200331-01 (480-167984-16) and TB-001-20200331-01 (480-167984-17).

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

GC/MS Semi VOA

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

Organic Prep

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

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-167984-1**

Project Location: **IDS Wayland** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):
480-167984 (1,2,3,4,5,6,7,8,9,10,11,13,14,15,16,17)

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

CAM Protocols (check all that apply below):

8260 VOC CAM II A <input checked="" type="checkbox"/>	7470/7471 Hg CAM III B <input type="checkbox"/>	Mass DEP VPH CAM IV A <input type="checkbox"/>	8081 Pesticides CAM V B <input type="checkbox"/>	7196 Hex Cr CAM VI B <input type="checkbox"/>	Mass DEP APH CAM IX A <input type="checkbox"/>
8270 SVOC CAM II B <input type="checkbox"/>	7010 Metals CAM III C <input type="checkbox"/>	Mass DEP EPH CAM IV B <input type="checkbox"/>	8151 Herbicides CAM V C <input type="checkbox"/>	8330 Explosives CAM VIII A <input type="checkbox"/>	TO-15 VOC CAM IX B <input type="checkbox"/>
6010 Metals CAM III A <input type="checkbox"/>	6020 Metals CAM III D <input type="checkbox"/>	8082 PCB CAM V A <input type="checkbox"/>	9014 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: Wyatt Watson Position: Project Manager Assistant
 Printed Name: Wyatt Watson Date: 4/7/20 16:00

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1001M-20200331-01

Lab Sample ID: 480-167984-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	170		50		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1003-20200331-01

Lab Sample ID: 480-167984-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	150		50		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1004-20200331-01

Lab Sample ID: 480-167984-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	140		50		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1005-20200331-01

Lab Sample ID: 480-167984-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	140		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	9.4		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	5.5		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1010M-20200331-01

Lab Sample ID: 480-167984-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	170		50		ug/L	1		8260C	Total/NA
Trichloroethene	6.4		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1010D-20200331-01

Lab Sample ID: 480-167984-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	91		50		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1026D-20200331-01

Lab Sample ID: 480-167984-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.65		0.20		ug/L	1		522	Total/NA

Client Sample ID: MW-1013-20200331-01

Lab Sample ID: 480-167984-8

No Detections.

Client Sample ID: MW-1014-20200331-01

Lab Sample ID: 480-167984-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	150		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	4.4		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	17		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1015D-20200331-01

Lab Sample ID: 480-167984-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	250		50		ug/L	1		8260C	Total/NA
Tetrachloroethene	1.7		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	8.1		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1028-20200331-01

Lab Sample ID: 480-167984-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	130		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.1		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	5.9		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1032-20200331-01

Lab Sample ID: 480-167984-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.0		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	1.4		1.0		ug/L	1		8260C	Total/NA
Methyl tert-butyl ether	53		1.0		ug/L	1		8260C	Total/NA
Tert-amyl methyl ether	13		5.0		ug/L	1		8260C	Total/NA
Trichloroethene	7.8		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: DUP-002-20200331-01

Lab Sample ID: 480-167984-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	130		50		ug/L	1		8260C	Total/NA
Trichloroethene	5.7		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: DUP-001-20200331-01

Lab Sample ID: 480-167984-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	51		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	11		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.2		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	29		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1034-20200331-01

Lab Sample ID: 480-167984-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	56		50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	12		1.0		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.3		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	29		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: TB-001-20200331-01

Lab Sample ID: 480-167984-17

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1001M-20200331-01

Lab Sample ID: 480-167984-1

Date Collected: 03/31/20 09:07

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/02/20 16:10	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/20 16:10	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/20 16:10	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/20 16:10	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/20 16:10	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/20 16:10	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/20 16:10	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/20 16:10	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/20 16:10	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/20 16:10	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/20 16:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/20 16:10	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/20 16:10	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/20 16:10	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/20 16:10	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/20 16:10	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/20 16:10	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/20 16:10	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/20 16:10	1
1,4-Dioxane	ND		50		ug/L			04/02/20 16:10	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/20 16:10	1
2-Butanone (MEK)	ND *		10		ug/L			04/02/20 16:10	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/20 16:10	1
2-Hexanone	ND		10		ug/L			04/02/20 16:10	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/20 16:10	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/20 16:10	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/20 16:10	1
Acetone	170		50		ug/L			04/02/20 16:10	1
Benzene	ND		1.0		ug/L			04/02/20 16:10	1
Bromobenzene	ND		1.0		ug/L			04/02/20 16:10	1
Bromoform	ND		1.0		ug/L			04/02/20 16:10	1
Bromomethane	ND		2.0		ug/L			04/02/20 16:10	1
Carbon disulfide	ND		10		ug/L			04/02/20 16:10	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/20 16:10	1
Chlorobenzene	ND		1.0		ug/L			04/02/20 16:10	1
Chlorobromomethane	ND		1.0		ug/L			04/02/20 16:10	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/20 16:10	1
Chloroethane	ND		2.0		ug/L			04/02/20 16:10	1
Chloroform	ND		1.0		ug/L			04/02/20 16:10	1
Chloromethane	ND		2.0		ug/L			04/02/20 16:10	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 16:10	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 16:10	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/20 16:10	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/02/20 16:10	1
Ethyl ether	ND		1.0		ug/L			04/02/20 16:10	1
Ethylbenzene	ND		1.0		ug/L			04/02/20 16:10	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/20 16:10	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/20 16:10	1
Isopropyl ether	ND		10		ug/L			04/02/20 16:10	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1001M-20200331-01

Lab Sample ID: 480-167984-1

Date Collected: 03/31/20 09:07

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/02/20 16:10	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/20 16:10	1
Methylene Chloride	ND		1.0		ug/L			04/02/20 16:10	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/20 16:10	1
Naphthalene	ND		5.0		ug/L			04/02/20 16:10	1
n-Butylbenzene	ND		1.0		ug/L			04/02/20 16:10	1
N-Propylbenzene	ND		1.0		ug/L			04/02/20 16:10	1
o-Xylene	ND		1.0		ug/L			04/02/20 16:10	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/20 16:10	1
Styrene	ND		1.0		ug/L			04/02/20 16:10	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/20 16:10	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/20 16:10	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/20 16:10	1
Tetrachloroethene	ND		1.0		ug/L			04/02/20 16:10	1
Tetrahydrofuran	ND *		10		ug/L			04/02/20 16:10	1
Toluene	ND		1.0		ug/L			04/02/20 16:10	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 16:10	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 16:10	1
Trichloroethene	ND		1.0		ug/L			04/02/20 16:10	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/20 16:10	1
Vinyl chloride	ND		1.0		ug/L			04/02/20 16:10	1
Dibromomethane	ND		1.0		ug/L			04/02/20 16:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	107		70 - 130		04/02/20 16:10	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	105		70 - 130		04/02/20 16:10	1
<i>4-Bromofluorobenzene (Surr)</i>	112		70 - 130		04/02/20 16:10	1

Client Sample ID: MW-1003-20200331-01

Lab Sample ID: 480-167984-2

Date Collected: 03/31/20 10:35

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/02/20 16:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/20 16:34	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/20 16:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/20 16:34	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/20 16:34	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/20 16:34	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/20 16:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/20 16:34	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/20 16:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/20 16:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/20 16:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/20 16:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/20 16:34	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/20 16:34	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/20 16:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/20 16:34	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1003-20200331-01

Lab Sample ID: 480-167984-2

Date Collected: 03/31/20 10:35

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/20 16:34	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/20 16:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/20 16:34	1
1,4-Dioxane	ND		50		ug/L			04/02/20 16:34	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/20 16:34	1
2-Butanone (MEK)	ND	*	10		ug/L			04/02/20 16:34	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/20 16:34	1
2-Hexanone	ND		10		ug/L			04/02/20 16:34	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/20 16:34	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/20 16:34	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/20 16:34	1
Acetone	150		50		ug/L			04/02/20 16:34	1
Benzene	ND		1.0		ug/L			04/02/20 16:34	1
Bromobenzene	ND		1.0		ug/L			04/02/20 16:34	1
Bromoform	ND		1.0		ug/L			04/02/20 16:34	1
Bromomethane	ND		2.0		ug/L			04/02/20 16:34	1
Carbon disulfide	ND		10		ug/L			04/02/20 16:34	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/20 16:34	1
Chlorobenzene	ND		1.0		ug/L			04/02/20 16:34	1
Chlorobromomethane	ND		1.0		ug/L			04/02/20 16:34	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/20 16:34	1
Chloroethane	ND		2.0		ug/L			04/02/20 16:34	1
Chloroform	ND		1.0		ug/L			04/02/20 16:34	1
Chloromethane	ND		2.0		ug/L			04/02/20 16:34	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 16:34	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 16:34	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/20 16:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/02/20 16:34	1
Ethyl ether	ND		1.0		ug/L			04/02/20 16:34	1
Ethylbenzene	ND		1.0		ug/L			04/02/20 16:34	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/20 16:34	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/20 16:34	1
Isopropyl ether	ND		10		ug/L			04/02/20 16:34	1
Isopropylbenzene	ND		1.0		ug/L			04/02/20 16:34	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/20 16:34	1
Methylene Chloride	ND		1.0		ug/L			04/02/20 16:34	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/20 16:34	1
Naphthalene	ND		5.0		ug/L			04/02/20 16:34	1
n-Butylbenzene	ND		1.0		ug/L			04/02/20 16:34	1
N-Propylbenzene	ND		1.0		ug/L			04/02/20 16:34	1
o-Xylene	ND		1.0		ug/L			04/02/20 16:34	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/20 16:34	1
Styrene	ND		1.0		ug/L			04/02/20 16:34	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/20 16:34	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/20 16:34	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/20 16:34	1
Tetrachloroethene	ND		1.0		ug/L			04/02/20 16:34	1
Tetrahydrofuran	ND	*	10		ug/L			04/02/20 16:34	1
Toluene	ND		1.0		ug/L			04/02/20 16:34	1

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1003-20200331-01

Lab Sample ID: 480-167984-2

Date Collected: 03/31/20 10:35

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 16:34	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 16:34	1
Trichloroethene	ND		1.0		ug/L			04/02/20 16:34	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/20 16:34	1
Vinyl chloride	ND		1.0		ug/L			04/02/20 16:34	1
Dibromomethane	ND		1.0		ug/L			04/02/20 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/02/20 16:34	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/02/20 16:34	1
4-Bromofluorobenzene (Surr)	106		70 - 130		04/02/20 16:34	1

Client Sample ID: MW-1004-20200331-01

Lab Sample ID: 480-167984-3

Date Collected: 03/31/20 10:04

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/02/20 16:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/20 16:59	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/20 16:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/20 16:59	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/20 16:59	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/20 16:59	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/20 16:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/20 16:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/20 16:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/20 16:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/20 16:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/20 16:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/20 16:59	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/20 16:59	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/20 16:59	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/20 16:59	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/20 16:59	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/20 16:59	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/20 16:59	1
1,4-Dioxane	ND		50		ug/L			04/02/20 16:59	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/20 16:59	1
2-Butanone (MEK)	ND *		10		ug/L			04/02/20 16:59	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/20 16:59	1
2-Hexanone	ND		10		ug/L			04/02/20 16:59	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/20 16:59	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/20 16:59	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/20 16:59	1
Acetone	140		50		ug/L			04/02/20 16:59	1
Benzene	ND		1.0		ug/L			04/02/20 16:59	1
Bromobenzene	ND		1.0		ug/L			04/02/20 16:59	1
Bromoform	ND		1.0		ug/L			04/02/20 16:59	1
Bromomethane	ND		2.0		ug/L			04/02/20 16:59	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1004-20200331-01

Lab Sample ID: 480-167984-3

Date Collected: 03/31/20 10:04

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			04/02/20 16:59	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/20 16:59	1
Chlorobenzene	ND		1.0		ug/L			04/02/20 16:59	1
Chlorobromomethane	ND		1.0		ug/L			04/02/20 16:59	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/20 16:59	1
Chloroethane	ND		2.0		ug/L			04/02/20 16:59	1
Chloroform	ND		1.0		ug/L			04/02/20 16:59	1
Chloromethane	ND		2.0		ug/L			04/02/20 16:59	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 16:59	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 16:59	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/20 16:59	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/02/20 16:59	1
Ethyl ether	ND		1.0		ug/L			04/02/20 16:59	1
Ethylbenzene	ND		1.0		ug/L			04/02/20 16:59	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/20 16:59	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/20 16:59	1
Isopropyl ether	ND		10		ug/L			04/02/20 16:59	1
Isopropylbenzene	ND		1.0		ug/L			04/02/20 16:59	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/20 16:59	1
Methylene Chloride	ND		1.0		ug/L			04/02/20 16:59	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/20 16:59	1
Naphthalene	ND		5.0		ug/L			04/02/20 16:59	1
n-Butylbenzene	ND		1.0		ug/L			04/02/20 16:59	1
N-Propylbenzene	ND		1.0		ug/L			04/02/20 16:59	1
o-Xylene	ND		1.0		ug/L			04/02/20 16:59	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/20 16:59	1
Styrene	ND		1.0		ug/L			04/02/20 16:59	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/20 16:59	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/20 16:59	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/20 16:59	1
Tetrachloroethene	ND		1.0		ug/L			04/02/20 16:59	1
Tetrahydrofuran	ND *		10		ug/L			04/02/20 16:59	1
Toluene	ND		1.0		ug/L			04/02/20 16:59	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 16:59	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 16:59	1
Trichloroethene	ND		1.0		ug/L			04/02/20 16:59	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/20 16:59	1
Vinyl chloride	ND		1.0		ug/L			04/02/20 16:59	1
Dibromomethane	ND		1.0		ug/L			04/02/20 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		04/02/20 16:59	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		04/02/20 16:59	1
4-Bromofluorobenzene (Surr)	105		70 - 130		04/02/20 16:59	1

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1005-20200331-01

Lab Sample ID: 480-167984-4

Date Collected: 03/31/20 09:42

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/02/20 17:23	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/20 17:23	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/20 17:23	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/20 17:23	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/20 17:23	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/20 17:23	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/20 17:23	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/20 17:23	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/20 17:23	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/20 17:23	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/20 17:23	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/20 17:23	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/20 17:23	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/20 17:23	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/20 17:23	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/20 17:23	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/20 17:23	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/20 17:23	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/20 17:23	1
1,4-Dioxane	ND		50		ug/L			04/02/20 17:23	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/20 17:23	1
2-Butanone (MEK)	ND *		10		ug/L			04/02/20 17:23	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/20 17:23	1
2-Hexanone	ND		10		ug/L			04/02/20 17:23	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/20 17:23	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/20 17:23	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/20 17:23	1
Acetone	140		50		ug/L			04/02/20 17:23	1
Benzene	ND		1.0		ug/L			04/02/20 17:23	1
Bromobenzene	ND		1.0		ug/L			04/02/20 17:23	1
Bromoform	ND		1.0		ug/L			04/02/20 17:23	1
Bromomethane	ND		2.0		ug/L			04/02/20 17:23	1
Carbon disulfide	ND		10		ug/L			04/02/20 17:23	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/20 17:23	1
Chlorobenzene	ND		1.0		ug/L			04/02/20 17:23	1
Chlorobromomethane	ND		1.0		ug/L			04/02/20 17:23	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/20 17:23	1
Chloroethane	ND		2.0		ug/L			04/02/20 17:23	1
Chloroform	ND		1.0		ug/L			04/02/20 17:23	1
Chloromethane	ND		2.0		ug/L			04/02/20 17:23	1
cis-1,2-Dichloroethene	9.4		1.0		ug/L			04/02/20 17:23	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 17:23	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/20 17:23	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/02/20 17:23	1
Ethyl ether	ND		1.0		ug/L			04/02/20 17:23	1
Ethylbenzene	ND		1.0		ug/L			04/02/20 17:23	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/20 17:23	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/20 17:23	1
Isopropyl ether	ND		10		ug/L			04/02/20 17:23	1

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1005-20200331-01

Lab Sample ID: 480-167984-4

Date Collected: 03/31/20 09:42

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/02/20 17:23	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/20 17:23	1
Methylene Chloride	ND		1.0		ug/L			04/02/20 17:23	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/20 17:23	1
Naphthalene	ND		5.0		ug/L			04/02/20 17:23	1
n-Butylbenzene	ND		1.0		ug/L			04/02/20 17:23	1
N-Propylbenzene	ND		1.0		ug/L			04/02/20 17:23	1
o-Xylene	ND		1.0		ug/L			04/02/20 17:23	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/20 17:23	1
Styrene	ND		1.0		ug/L			04/02/20 17:23	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/20 17:23	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/20 17:23	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/20 17:23	1
Tetrachloroethene	ND		1.0		ug/L			04/02/20 17:23	1
Tetrahydrofuran	ND *		10		ug/L			04/02/20 17:23	1
Toluene	ND		1.0		ug/L			04/02/20 17:23	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 17:23	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 17:23	1
Trichloroethene	5.5		1.0		ug/L			04/02/20 17:23	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/20 17:23	1
Vinyl chloride	ND		1.0		ug/L			04/02/20 17:23	1
Dibromomethane	ND		1.0		ug/L			04/02/20 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	100		70 - 130		04/02/20 17:23	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	103		70 - 130		04/02/20 17:23	1
<i>4-Bromofluorobenzene (Surr)</i>	104		70 - 130		04/02/20 17:23	1

Client Sample ID: MW-1010M-20200331-01

Lab Sample ID: 480-167984-5

Date Collected: 03/31/20 11:11

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/02/20 17:48	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/20 17:48	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/20 17:48	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/20 17:48	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/20 17:48	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/20 17:48	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/20 17:48	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/20 17:48	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/20 17:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/20 17:48	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/20 17:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/20 17:48	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/20 17:48	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/20 17:48	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/20 17:48	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/20 17:48	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1010M-20200331-01

Lab Sample ID: 480-167984-5

Date Collected: 03/31/20 11:11

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/20 17:48	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/20 17:48	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/20 17:48	1
1,4-Dioxane	ND		50		ug/L			04/02/20 17:48	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/20 17:48	1
2-Butanone (MEK)	ND	*	10		ug/L			04/02/20 17:48	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/20 17:48	1
2-Hexanone	ND		10		ug/L			04/02/20 17:48	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/20 17:48	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/20 17:48	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/20 17:48	1
Acetone	170		50		ug/L			04/02/20 17:48	1
Benzene	ND		1.0		ug/L			04/02/20 17:48	1
Bromobenzene	ND		1.0		ug/L			04/02/20 17:48	1
Bromoform	ND		1.0		ug/L			04/02/20 17:48	1
Bromomethane	ND		2.0		ug/L			04/02/20 17:48	1
Carbon disulfide	ND		10		ug/L			04/02/20 17:48	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/20 17:48	1
Chlorobenzene	ND		1.0		ug/L			04/02/20 17:48	1
Chlorobromomethane	ND		1.0		ug/L			04/02/20 17:48	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/20 17:48	1
Chloroethane	ND		2.0		ug/L			04/02/20 17:48	1
Chloroform	ND		1.0		ug/L			04/02/20 17:48	1
Chloromethane	ND		2.0		ug/L			04/02/20 17:48	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 17:48	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 17:48	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/20 17:48	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/02/20 17:48	1
Ethyl ether	ND		1.0		ug/L			04/02/20 17:48	1
Ethylbenzene	ND		1.0		ug/L			04/02/20 17:48	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/20 17:48	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/20 17:48	1
Isopropyl ether	ND		10		ug/L			04/02/20 17:48	1
Isopropylbenzene	ND		1.0		ug/L			04/02/20 17:48	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/20 17:48	1
Methylene Chloride	ND		1.0		ug/L			04/02/20 17:48	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/20 17:48	1
Naphthalene	ND		5.0		ug/L			04/02/20 17:48	1
n-Butylbenzene	ND		1.0		ug/L			04/02/20 17:48	1
N-Propylbenzene	ND		1.0		ug/L			04/02/20 17:48	1
o-Xylene	ND		1.0		ug/L			04/02/20 17:48	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/20 17:48	1
Styrene	ND		1.0		ug/L			04/02/20 17:48	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/20 17:48	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/20 17:48	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/20 17:48	1
Tetrachloroethene	ND		1.0		ug/L			04/02/20 17:48	1
Tetrahydrofuran	ND	*	10		ug/L			04/02/20 17:48	1
Toluene	ND		1.0		ug/L			04/02/20 17:48	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1010M-20200331-01

Lab Sample ID: 480-167984-5

Date Collected: 03/31/20 11:11

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 17:48	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 17:48	1
Trichloroethene	6.4		1.0		ug/L			04/02/20 17:48	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/20 17:48	1
Vinyl chloride	ND		1.0		ug/L			04/02/20 17:48	1
Dibromomethane	ND		1.0		ug/L			04/02/20 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		04/02/20 17:48	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/02/20 17:48	1
4-Bromofluorobenzene (Surr)	106		70 - 130		04/02/20 17:48	1

Client Sample ID: MW-1010D-20200331-01

Lab Sample ID: 480-167984-6

Date Collected: 03/31/20 11:36

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/02/20 18:12	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/20 18:12	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/20 18:12	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/20 18:12	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/20 18:12	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/20 18:12	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/20 18:12	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/20 18:12	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/20 18:12	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/20 18:12	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/20 18:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/20 18:12	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/20 18:12	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/20 18:12	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/20 18:12	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/20 18:12	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/20 18:12	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/20 18:12	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/20 18:12	1
1,4-Dioxane	ND		50		ug/L			04/02/20 18:12	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/20 18:12	1
2-Butanone (MEK)	ND *		10		ug/L			04/02/20 18:12	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/20 18:12	1
2-Hexanone	ND		10		ug/L			04/02/20 18:12	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/20 18:12	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/20 18:12	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/20 18:12	1
Acetone	91		50		ug/L			04/02/20 18:12	1
Benzene	ND		1.0		ug/L			04/02/20 18:12	1
Bromobenzene	ND		1.0		ug/L			04/02/20 18:12	1
Bromoform	ND		1.0		ug/L			04/02/20 18:12	1
Bromomethane	ND		2.0		ug/L			04/02/20 18:12	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1010D-20200331-01

Lab Sample ID: 480-167984-6

Date Collected: 03/31/20 11:36

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			04/02/20 18:12	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/20 18:12	1
Chlorobenzene	ND		1.0		ug/L			04/02/20 18:12	1
Chlorobromomethane	ND		1.0		ug/L			04/02/20 18:12	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/20 18:12	1
Chloroethane	ND		2.0		ug/L			04/02/20 18:12	1
Chloroform	ND		1.0		ug/L			04/02/20 18:12	1
Chloromethane	ND		2.0		ug/L			04/02/20 18:12	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 18:12	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 18:12	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/20 18:12	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/02/20 18:12	1
Ethyl ether	ND		1.0		ug/L			04/02/20 18:12	1
Ethylbenzene	ND		1.0		ug/L			04/02/20 18:12	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/20 18:12	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/20 18:12	1
Isopropyl ether	ND		10		ug/L			04/02/20 18:12	1
Isopropylbenzene	ND		1.0		ug/L			04/02/20 18:12	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/20 18:12	1
Methylene Chloride	ND		1.0		ug/L			04/02/20 18:12	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/20 18:12	1
Naphthalene	ND		5.0		ug/L			04/02/20 18:12	1
n-Butylbenzene	ND		1.0		ug/L			04/02/20 18:12	1
N-Propylbenzene	ND		1.0		ug/L			04/02/20 18:12	1
o-Xylene	ND		1.0		ug/L			04/02/20 18:12	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/20 18:12	1
Styrene	ND		1.0		ug/L			04/02/20 18:12	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/20 18:12	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/20 18:12	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/20 18:12	1
Tetrachloroethene	ND		1.0		ug/L			04/02/20 18:12	1
Tetrahydrofuran	ND *		10		ug/L			04/02/20 18:12	1
Toluene	ND		1.0		ug/L			04/02/20 18:12	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 18:12	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 18:12	1
Trichloroethene	ND		1.0		ug/L			04/02/20 18:12	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/20 18:12	1
Vinyl chloride	ND		1.0		ug/L			04/02/20 18:12	1
Dibromomethane	ND		1.0		ug/L			04/02/20 18:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130		04/02/20 18:12	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		04/02/20 18:12	1
4-Bromofluorobenzene (Surr)	111		70 - 130		04/02/20 18:12	1

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1026D-20200331-01

Lab Sample ID: 480-167984-7

Date Collected: 03/31/20 13:55

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.65		0.20		ug/L		04/01/20 18:45	04/05/20 23:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	111		46 - 130				04/01/20 18:45	04/05/20 23:19	1

Client Sample ID: MW-1013-20200331-01

Lab Sample ID: 480-167984-8

Date Collected: 03/31/20 08:55

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/02/20 18:36	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/20 18:36	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/20 18:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/20 18:36	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/20 18:36	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/20 18:36	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/20 18:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/20 18:36	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/20 18:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/20 18:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/20 18:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/20 18:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/20 18:36	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/20 18:36	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/20 18:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/20 18:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/20 18:36	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/20 18:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/20 18:36	1
1,4-Dioxane	ND		50		ug/L			04/02/20 18:36	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/20 18:36	1
2-Butanone (MEK)	ND *		10		ug/L			04/02/20 18:36	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/20 18:36	1
2-Hexanone	ND		10		ug/L			04/02/20 18:36	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/20 18:36	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/20 18:36	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/20 18:36	1
Acetone	ND		50		ug/L			04/02/20 18:36	1
Benzene	ND		1.0		ug/L			04/02/20 18:36	1
Bromobenzene	ND		1.0		ug/L			04/02/20 18:36	1
Bromoform	ND		1.0		ug/L			04/02/20 18:36	1
Bromomethane	ND		2.0		ug/L			04/02/20 18:36	1
Carbon disulfide	ND		10		ug/L			04/02/20 18:36	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/20 18:36	1
Chlorobenzene	ND		1.0		ug/L			04/02/20 18:36	1
Chlorobromomethane	ND		1.0		ug/L			04/02/20 18:36	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/20 18:36	1
Chloroethane	ND		2.0		ug/L			04/02/20 18:36	1
Chloroform	ND		1.0		ug/L			04/02/20 18:36	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1013-20200331-01

Lab Sample ID: 480-167984-8

Date Collected: 03/31/20 08:55

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		2.0		ug/L			04/02/20 18:36	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 18:36	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 18:36	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/20 18:36	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/02/20 18:36	1
Ethyl ether	ND		1.0		ug/L			04/02/20 18:36	1
Ethylbenzene	ND		1.0		ug/L			04/02/20 18:36	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/20 18:36	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/20 18:36	1
Isopropyl ether	ND		10		ug/L			04/02/20 18:36	1
Isopropylbenzene	ND		1.0		ug/L			04/02/20 18:36	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/20 18:36	1
Methylene Chloride	ND		1.0		ug/L			04/02/20 18:36	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/20 18:36	1
Naphthalene	ND		5.0		ug/L			04/02/20 18:36	1
n-Butylbenzene	ND		1.0		ug/L			04/02/20 18:36	1
N-Propylbenzene	ND		1.0		ug/L			04/02/20 18:36	1
o-Xylene	ND		1.0		ug/L			04/02/20 18:36	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/20 18:36	1
Styrene	ND		1.0		ug/L			04/02/20 18:36	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/20 18:36	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/20 18:36	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/20 18:36	1
Tetrachloroethene	ND		1.0		ug/L			04/02/20 18:36	1
Tetrahydrofuran	ND *		10		ug/L			04/02/20 18:36	1
Toluene	ND		1.0		ug/L			04/02/20 18:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 18:36	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 18:36	1
Trichloroethene	ND		1.0		ug/L			04/02/20 18:36	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/20 18:36	1
Vinyl chloride	ND		1.0		ug/L			04/02/20 18:36	1
Dibromomethane	ND		1.0		ug/L			04/02/20 18:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130		04/02/20 18:36	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/02/20 18:36	1
4-Bromofluorobenzene (Surr)	106		70 - 130		04/02/20 18:36	1

Client Sample ID: MW-1014-20200331-01

Lab Sample ID: 480-167984-9

Date Collected: 03/31/20 09:40

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/02/20 19:01	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/20 19:01	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/20 19:01	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/20 19:01	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/20 19:01	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/20 19:01	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1014-20200331-01

Lab Sample ID: 480-167984-9

Date Collected: 03/31/20 09:40

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		1.0		ug/L			04/02/20 19:01	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/20 19:01	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/20 19:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/20 19:01	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/20 19:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/20 19:01	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/20 19:01	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/20 19:01	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/20 19:01	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/20 19:01	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/20 19:01	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/20 19:01	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/20 19:01	1
1,4-Dioxane	ND		50		ug/L			04/02/20 19:01	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/20 19:01	1
2-Butanone (MEK)	ND *		10		ug/L			04/02/20 19:01	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/20 19:01	1
2-Hexanone	ND		10		ug/L			04/02/20 19:01	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/20 19:01	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/20 19:01	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/20 19:01	1
Acetone	150		50		ug/L			04/02/20 19:01	1
Benzene	ND		1.0		ug/L			04/02/20 19:01	1
Bromobenzene	ND		1.0		ug/L			04/02/20 19:01	1
Bromoform	ND		1.0		ug/L			04/02/20 19:01	1
Bromomethane	ND		2.0		ug/L			04/02/20 19:01	1
Carbon disulfide	ND		10		ug/L			04/02/20 19:01	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/20 19:01	1
Chlorobenzene	ND		1.0		ug/L			04/02/20 19:01	1
Chlorobromomethane	ND		1.0		ug/L			04/02/20 19:01	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/20 19:01	1
Chloroethane	ND		2.0		ug/L			04/02/20 19:01	1
Chloroform	ND		1.0		ug/L			04/02/20 19:01	1
Chloromethane	ND		2.0		ug/L			04/02/20 19:01	1
cis-1,2-Dichloroethene	4.4		1.0		ug/L			04/02/20 19:01	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 19:01	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/20 19:01	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/02/20 19:01	1
Ethyl ether	ND		1.0		ug/L			04/02/20 19:01	1
Ethylbenzene	ND		1.0		ug/L			04/02/20 19:01	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/20 19:01	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/20 19:01	1
Isopropyl ether	ND		10		ug/L			04/02/20 19:01	1
Isopropylbenzene	ND		1.0		ug/L			04/02/20 19:01	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/20 19:01	1
Methylene Chloride	ND		1.0		ug/L			04/02/20 19:01	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/20 19:01	1
Naphthalene	ND		5.0		ug/L			04/02/20 19:01	1
n-Butylbenzene	ND		1.0		ug/L			04/02/20 19:01	1

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1014-20200331-01

Lab Sample ID: 480-167984-9

Date Collected: 03/31/20 09:40

Matrix: Water

Date Received: 04/01/20 08:00

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			04/02/20 19:01	1
o-Xylene	ND		1.0		ug/L			04/02/20 19:01	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/20 19:01	1
Styrene	ND		1.0		ug/L			04/02/20 19:01	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/20 19:01	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/20 19:01	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/20 19:01	1
Tetrachloroethene	ND		1.0		ug/L			04/02/20 19:01	1
Tetrahydrofuran	ND	*	10		ug/L			04/02/20 19:01	1
Toluene	ND		1.0		ug/L			04/02/20 19:01	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 19:01	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 19:01	1
Trichloroethene	17		1.0		ug/L			04/02/20 19:01	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/20 19:01	1
Vinyl chloride	ND		1.0		ug/L			04/02/20 19:01	1
Dibromomethane	ND		1.0		ug/L			04/02/20 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		70 - 130		04/02/20 19:01	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/02/20 19:01	1
4-Bromofluorobenzene (Surr)	110		70 - 130		04/02/20 19:01	1

Client Sample ID: MW-1015D-20200331-01

Lab Sample ID: 480-167984-10

Date Collected: 03/31/20 10:20

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/02/20 19:25	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/20 19:25	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/20 19:25	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/20 19:25	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/20 19:25	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/20 19:25	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/20 19:25	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/20 19:25	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/20 19:25	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/20 19:25	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/20 19:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/20 19:25	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/20 19:25	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/20 19:25	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/20 19:25	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/20 19:25	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/20 19:25	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/20 19:25	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/20 19:25	1
1,4-Dioxane	ND		50		ug/L			04/02/20 19:25	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/20 19:25	1
2-Butanone (MEK)	ND	*	10		ug/L			04/02/20 19:25	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1015D-20200331-01

Lab Sample ID: 480-167984-10

Date Collected: 03/31/20 10:20

Matrix: Water

Date Received: 04/01/20 08:00

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			04/02/20 19:25	1
2-Hexanone	ND		10		ug/L			04/02/20 19:25	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/20 19:25	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/20 19:25	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/20 19:25	1
Acetone	250		50		ug/L			04/02/20 19:25	1
Benzene	ND		1.0		ug/L			04/02/20 19:25	1
Bromobenzene	ND		1.0		ug/L			04/02/20 19:25	1
Bromoform	ND		1.0		ug/L			04/02/20 19:25	1
Bromomethane	ND		2.0		ug/L			04/02/20 19:25	1
Carbon disulfide	ND		10		ug/L			04/02/20 19:25	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/20 19:25	1
Chlorobenzene	ND		1.0		ug/L			04/02/20 19:25	1
Chlorobromomethane	ND		1.0		ug/L			04/02/20 19:25	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/20 19:25	1
Chloroethane	ND		2.0		ug/L			04/02/20 19:25	1
Chloroform	ND		1.0		ug/L			04/02/20 19:25	1
Chloromethane	ND		2.0		ug/L			04/02/20 19:25	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 19:25	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 19:25	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/20 19:25	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/02/20 19:25	1
Ethyl ether	ND		1.0		ug/L			04/02/20 19:25	1
Ethylbenzene	ND		1.0		ug/L			04/02/20 19:25	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/20 19:25	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/20 19:25	1
Isopropyl ether	ND		10		ug/L			04/02/20 19:25	1
Isopropylbenzene	ND		1.0		ug/L			04/02/20 19:25	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/20 19:25	1
Methylene Chloride	ND		1.0		ug/L			04/02/20 19:25	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/20 19:25	1
Naphthalene	ND		5.0		ug/L			04/02/20 19:25	1
n-Butylbenzene	ND		1.0		ug/L			04/02/20 19:25	1
N-Propylbenzene	ND		1.0		ug/L			04/02/20 19:25	1
o-Xylene	ND		1.0		ug/L			04/02/20 19:25	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/20 19:25	1
Styrene	ND		1.0		ug/L			04/02/20 19:25	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/20 19:25	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/20 19:25	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/20 19:25	1
Tetrachloroethene	1.7		1.0		ug/L			04/02/20 19:25	1
Tetrahydrofuran	ND *		10		ug/L			04/02/20 19:25	1
Toluene	ND		1.0		ug/L			04/02/20 19:25	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 19:25	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 19:25	1
Trichloroethene	8.1		1.0		ug/L			04/02/20 19:25	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/20 19:25	1
Vinyl chloride	ND		1.0		ug/L			04/02/20 19:25	1
Dibromomethane	ND		1.0		ug/L			04/02/20 19:25	1

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1015D-20200331-01

Lab Sample ID: 480-167984-10

Date Collected: 03/31/20 10:20

Matrix: Water

Date Received: 04/01/20 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130		04/02/20 19:25	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/02/20 19:25	1
4-Bromofluorobenzene (Surr)	108		70 - 130		04/02/20 19:25	1

Client Sample ID: MW-1028-20200331-01

Lab Sample ID: 480-167984-11

Date Collected: 03/31/20 13:00

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/02/20 19:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/20 19:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/20 19:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/20 19:49	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/20 19:49	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/20 19:49	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/20 19:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/20 19:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/20 19:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/20 19:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/20 19:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/20 19:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/20 19:49	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/20 19:49	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/20 19:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/20 19:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/20 19:49	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/20 19:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/20 19:49	1
1,4-Dioxane	ND		50		ug/L			04/02/20 19:49	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/20 19:49	1
2-Butanone (MEK)	ND	*	10		ug/L			04/02/20 19:49	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/20 19:49	1
2-Hexanone	ND		10		ug/L			04/02/20 19:49	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/20 19:49	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/20 19:49	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/20 19:49	1
Acetone	130		50		ug/L			04/02/20 19:49	1
Benzene	ND		1.0		ug/L			04/02/20 19:49	1
Bromobenzene	ND		1.0		ug/L			04/02/20 19:49	1
Bromoform	ND		1.0		ug/L			04/02/20 19:49	1
Bromomethane	ND		2.0		ug/L			04/02/20 19:49	1
Carbon disulfide	ND		10		ug/L			04/02/20 19:49	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/20 19:49	1
Chlorobenzene	ND		1.0		ug/L			04/02/20 19:49	1
Chlorobromomethane	ND		1.0		ug/L			04/02/20 19:49	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/20 19:49	1
Chloroethane	ND		2.0		ug/L			04/02/20 19:49	1
Chloroform	ND		1.0		ug/L			04/02/20 19:49	1
Chloromethane	ND		2.0		ug/L			04/02/20 19:49	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1028-20200331-01

Lab Sample ID: 480-167984-11

Date Collected: 03/31/20 13:00

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.1		1.0		ug/L			04/02/20 19:49	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 19:49	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/20 19:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/02/20 19:49	1
Ethyl ether	ND		1.0		ug/L			04/02/20 19:49	1
Ethylbenzene	ND		1.0		ug/L			04/02/20 19:49	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/20 19:49	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/20 19:49	1
Isopropyl ether	ND		10		ug/L			04/02/20 19:49	1
Isopropylbenzene	ND		1.0		ug/L			04/02/20 19:49	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/20 19:49	1
Methylene Chloride	ND		1.0		ug/L			04/02/20 19:49	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/20 19:49	1
Naphthalene	ND		5.0		ug/L			04/02/20 19:49	1
n-Butylbenzene	ND		1.0		ug/L			04/02/20 19:49	1
N-Propylbenzene	ND		1.0		ug/L			04/02/20 19:49	1
o-Xylene	ND		1.0		ug/L			04/02/20 19:49	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/20 19:49	1
Styrene	ND		1.0		ug/L			04/02/20 19:49	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/20 19:49	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/20 19:49	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/20 19:49	1
Tetrachloroethene	ND		1.0		ug/L			04/02/20 19:49	1
Tetrahydrofuran	ND *		10		ug/L			04/02/20 19:49	1
Toluene	ND		1.0		ug/L			04/02/20 19:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 19:49	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 19:49	1
Trichloroethene	5.9		1.0		ug/L			04/02/20 19:49	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/20 19:49	1
Vinyl chloride	ND		1.0		ug/L			04/02/20 19:49	1
Dibromomethane	ND		1.0		ug/L			04/02/20 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/02/20 19:49	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		04/02/20 19:49	1
4-Bromofluorobenzene (Surr)	107		70 - 130		04/02/20 19:49	1

Client Sample ID: MW-1032-20200331-01

Lab Sample ID: 480-167984-13

Date Collected: 03/31/20 13:45

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/02/20 20:38	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/20 20:38	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/20 20:38	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/20 20:38	1
1,1-Dichloroethane	1.0		1.0		ug/L			04/02/20 20:38	1
1,1-Dichloroethene	1.4		1.0		ug/L			04/02/20 20:38	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/20 20:38	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1032-20200331-01

Lab Sample ID: 480-167984-13

Date Collected: 03/31/20 13:45

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/20 20:38	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/20 20:38	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/20 20:38	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/20 20:38	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/20 20:38	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/20 20:38	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/20 20:38	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/20 20:38	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/20 20:38	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/20 20:38	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/20 20:38	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/20 20:38	1
1,4-Dioxane	ND		50		ug/L			04/02/20 20:38	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/20 20:38	1
2-Butanone (MEK)	ND	*	10		ug/L			04/02/20 20:38	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/20 20:38	1
2-Hexanone	ND		10		ug/L			04/02/20 20:38	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/20 20:38	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/20 20:38	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/20 20:38	1
Acetone	ND		50		ug/L			04/02/20 20:38	1
Benzene	ND		1.0		ug/L			04/02/20 20:38	1
Bromobenzene	ND		1.0		ug/L			04/02/20 20:38	1
Bromoform	ND		1.0		ug/L			04/02/20 20:38	1
Bromomethane	ND		2.0		ug/L			04/02/20 20:38	1
Carbon disulfide	ND		10		ug/L			04/02/20 20:38	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/20 20:38	1
Chlorobenzene	ND		1.0		ug/L			04/02/20 20:38	1
Chlorobromomethane	ND		1.0		ug/L			04/02/20 20:38	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/20 20:38	1
Chloroethane	ND		2.0		ug/L			04/02/20 20:38	1
Chloroform	ND		1.0		ug/L			04/02/20 20:38	1
Chloromethane	ND		2.0		ug/L			04/02/20 20:38	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 20:38	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 20:38	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/20 20:38	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/02/20 20:38	1
Ethyl ether	ND		1.0		ug/L			04/02/20 20:38	1
Ethylbenzene	ND		1.0		ug/L			04/02/20 20:38	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/20 20:38	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/20 20:38	1
Isopropyl ether	ND		10		ug/L			04/02/20 20:38	1
Isopropylbenzene	ND		1.0		ug/L			04/02/20 20:38	1
Methyl tert-butyl ether	53		1.0		ug/L			04/02/20 20:38	1
Methylene Chloride	ND		1.0		ug/L			04/02/20 20:38	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/20 20:38	1
Naphthalene	ND		5.0		ug/L			04/02/20 20:38	1
n-Butylbenzene	ND		1.0		ug/L			04/02/20 20:38	1
N-Propylbenzene	ND		1.0		ug/L			04/02/20 20:38	1

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1032-20200331-01

Lab Sample ID: 480-167984-13

Date Collected: 03/31/20 13:45

Matrix: Water

Date Received: 04/01/20 08:00

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			04/02/20 20:38	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/20 20:38	1
Styrene	ND		1.0		ug/L			04/02/20 20:38	1
Tert-amyl methyl ether	13		5.0		ug/L			04/02/20 20:38	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/20 20:38	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/20 20:38	1
Tetrachloroethene	ND		1.0		ug/L			04/02/20 20:38	1
Tetrahydrofuran	ND	*	10		ug/L			04/02/20 20:38	1
Toluene	ND		1.0		ug/L			04/02/20 20:38	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 20:38	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 20:38	1
Trichloroethene	7.8		1.0		ug/L			04/02/20 20:38	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/20 20:38	1
Vinyl chloride	ND		1.0		ug/L			04/02/20 20:38	1
Dibromomethane	ND		1.0		ug/L			04/02/20 20:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		04/02/20 20:38	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		04/02/20 20:38	1
4-Bromofluorobenzene (Surr)	110		70 - 130		04/02/20 20:38	1

Client Sample ID: DUP-002-20200331-01

Lab Sample ID: 480-167984-14

Date Collected: 03/31/20 00:02

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/02/20 21:03	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/20 21:03	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/20 21:03	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/20 21:03	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/20 21:03	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/20 21:03	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/20 21:03	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/20 21:03	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/20 21:03	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/20 21:03	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/20 21:03	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/20 21:03	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/20 21:03	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/20 21:03	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/20 21:03	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/20 21:03	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/20 21:03	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/20 21:03	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/20 21:03	1
1,4-Dioxane	ND		50		ug/L			04/02/20 21:03	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/20 21:03	1
2-Butanone (MEK)	ND	*	10		ug/L			04/02/20 21:03	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/20 21:03	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: DUP-002-20200331-01

Lab Sample ID: 480-167984-14

Date Collected: 03/31/20 00:02

Matrix: Water

Date Received: 04/01/20 08:00

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			04/02/20 21:03	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/20 21:03	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/20 21:03	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/20 21:03	1
Acetone	130		50		ug/L			04/02/20 21:03	1
Benzene	ND		1.0		ug/L			04/02/20 21:03	1
Bromobenzene	ND		1.0		ug/L			04/02/20 21:03	1
Bromoform	ND		1.0		ug/L			04/02/20 21:03	1
Bromomethane	ND		2.0		ug/L			04/02/20 21:03	1
Carbon disulfide	ND		10		ug/L			04/02/20 21:03	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/20 21:03	1
Chlorobenzene	ND		1.0		ug/L			04/02/20 21:03	1
Chlorobromomethane	ND		1.0		ug/L			04/02/20 21:03	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/20 21:03	1
Chloroethane	ND		2.0		ug/L			04/02/20 21:03	1
Chloroform	ND		1.0		ug/L			04/02/20 21:03	1
Chloromethane	ND		2.0		ug/L			04/02/20 21:03	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 21:03	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 21:03	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/20 21:03	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/02/20 21:03	1
Ethyl ether	ND		1.0		ug/L			04/02/20 21:03	1
Ethylbenzene	ND		1.0		ug/L			04/02/20 21:03	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/20 21:03	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/20 21:03	1
Isopropyl ether	ND		10		ug/L			04/02/20 21:03	1
Isopropylbenzene	ND		1.0		ug/L			04/02/20 21:03	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/20 21:03	1
Methylene Chloride	ND		1.0		ug/L			04/02/20 21:03	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/20 21:03	1
Naphthalene	ND		5.0		ug/L			04/02/20 21:03	1
n-Butylbenzene	ND		1.0		ug/L			04/02/20 21:03	1
N-Propylbenzene	ND		1.0		ug/L			04/02/20 21:03	1
o-Xylene	ND		1.0		ug/L			04/02/20 21:03	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/20 21:03	1
Styrene	ND		1.0		ug/L			04/02/20 21:03	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/20 21:03	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/20 21:03	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/20 21:03	1
Tetrachloroethene	ND		1.0		ug/L			04/02/20 21:03	1
Tetrahydrofuran	ND *		10		ug/L			04/02/20 21:03	1
Toluene	ND		1.0		ug/L			04/02/20 21:03	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 21:03	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 21:03	1
Trichloroethene	5.7		1.0		ug/L			04/02/20 21:03	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/20 21:03	1
Vinyl chloride	ND		1.0		ug/L			04/02/20 21:03	1
Dibromomethane	ND		1.0		ug/L			04/02/20 21:03	1

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: DUP-002-20200331-01

Lab Sample ID: 480-167984-14

Date Collected: 03/31/20 00:02

Matrix: Water

Date Received: 04/01/20 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/02/20 21:03	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		04/02/20 21:03	1
4-Bromofluorobenzene (Surr)	104		70 - 130		04/02/20 21:03	1

Client Sample ID: DUP-001-20200331-01

Lab Sample ID: 480-167984-15

Date Collected: 03/31/20 00:01

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/02/20 21:27	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/20 21:27	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/20 21:27	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/20 21:27	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/20 21:27	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/20 21:27	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/20 21:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/20 21:27	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/20 21:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/20 21:27	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/20 21:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/20 21:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/20 21:27	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/20 21:27	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/20 21:27	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/20 21:27	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/20 21:27	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/20 21:27	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/20 21:27	1
1,4-Dioxane	ND		50		ug/L			04/02/20 21:27	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/20 21:27	1
2-Butanone (MEK)	ND	*	10		ug/L			04/02/20 21:27	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/20 21:27	1
2-Hexanone	ND		10		ug/L			04/02/20 21:27	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/20 21:27	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/20 21:27	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/20 21:27	1
Acetone	51		50		ug/L			04/02/20 21:27	1
Benzene	ND		1.0		ug/L			04/02/20 21:27	1
Bromobenzene	ND		1.0		ug/L			04/02/20 21:27	1
Bromoform	ND		1.0		ug/L			04/02/20 21:27	1
Bromomethane	ND		2.0		ug/L			04/02/20 21:27	1
Carbon disulfide	ND		10		ug/L			04/02/20 21:27	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/20 21:27	1
Chlorobenzene	ND		1.0		ug/L			04/02/20 21:27	1
Chlorobromomethane	ND		1.0		ug/L			04/02/20 21:27	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/20 21:27	1
Chloroethane	ND		2.0		ug/L			04/02/20 21:27	1
Chloroform	ND		1.0		ug/L			04/02/20 21:27	1
Chloromethane	ND		2.0		ug/L			04/02/20 21:27	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: DUP-001-20200331-01

Lab Sample ID: 480-167984-15

Date Collected: 03/31/20 00:01

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	11		1.0		ug/L			04/02/20 21:27	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 21:27	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/20 21:27	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/02/20 21:27	1
Ethyl ether	ND		1.0		ug/L			04/02/20 21:27	1
Ethylbenzene	ND		1.0		ug/L			04/02/20 21:27	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/20 21:27	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/20 21:27	1
Isopropyl ether	ND		10		ug/L			04/02/20 21:27	1
Isopropylbenzene	ND		1.0		ug/L			04/02/20 21:27	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/20 21:27	1
Methylene Chloride	ND		1.0		ug/L			04/02/20 21:27	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/20 21:27	1
Naphthalene	ND		5.0		ug/L			04/02/20 21:27	1
n-Butylbenzene	ND		1.0		ug/L			04/02/20 21:27	1
N-Propylbenzene	ND		1.0		ug/L			04/02/20 21:27	1
o-Xylene	ND		1.0		ug/L			04/02/20 21:27	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/20 21:27	1
Styrene	ND		1.0		ug/L			04/02/20 21:27	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/20 21:27	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/20 21:27	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/20 21:27	1
Tetrachloroethene	ND		1.0		ug/L			04/02/20 21:27	1
Tetrahydrofuran	ND *		10		ug/L			04/02/20 21:27	1
Toluene	ND		1.0		ug/L			04/02/20 21:27	1
trans-1,2-Dichloroethene	1.2		1.0		ug/L			04/02/20 21:27	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 21:27	1
Trichloroethene	29		1.0		ug/L			04/02/20 21:27	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/20 21:27	1
Vinyl chloride	ND		1.0		ug/L			04/02/20 21:27	1
Dibromomethane	ND		1.0		ug/L			04/02/20 21:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		04/02/20 21:27	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		04/02/20 21:27	1
4-Bromofluorobenzene (Surr)	107		70 - 130		04/02/20 21:27	1

Client Sample ID: MW-1034-20200331-01

Lab Sample ID: 480-167984-16

Date Collected: 03/31/20 14:30

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/02/20 21:52	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/20 21:52	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/20 21:52	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/20 21:52	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/20 21:52	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/20 21:52	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/20 21:52	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1034-20200331-01

Lab Sample ID: 480-167984-16

Date Collected: 03/31/20 14:30

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/20 21:52	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/20 21:52	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/20 21:52	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/20 21:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/20 21:52	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/20 21:52	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/20 21:52	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/20 21:52	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/20 21:52	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/20 21:52	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/20 21:52	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/20 21:52	1
1,4-Dioxane	ND		50		ug/L			04/02/20 21:52	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/20 21:52	1
2-Butanone (MEK)	ND	*	10		ug/L			04/02/20 21:52	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/20 21:52	1
2-Hexanone	ND		10		ug/L			04/02/20 21:52	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/20 21:52	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/20 21:52	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/20 21:52	1
Acetone	56		50		ug/L			04/02/20 21:52	1
Benzene	ND		1.0		ug/L			04/02/20 21:52	1
Bromobenzene	ND		1.0		ug/L			04/02/20 21:52	1
Bromoform	ND		1.0		ug/L			04/02/20 21:52	1
Bromomethane	ND		2.0		ug/L			04/02/20 21:52	1
Carbon disulfide	ND		10		ug/L			04/02/20 21:52	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/20 21:52	1
Chlorobenzene	ND		1.0		ug/L			04/02/20 21:52	1
Chlorobromomethane	ND		1.0		ug/L			04/02/20 21:52	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/20 21:52	1
Chloroethane	ND		2.0		ug/L			04/02/20 21:52	1
Chloroform	ND		1.0		ug/L			04/02/20 21:52	1
Chloromethane	ND		2.0		ug/L			04/02/20 21:52	1
cis-1,2-Dichloroethene	12		1.0		ug/L			04/02/20 21:52	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 21:52	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/20 21:52	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/02/20 21:52	1
Ethyl ether	ND		1.0		ug/L			04/02/20 21:52	1
Ethylbenzene	ND		1.0		ug/L			04/02/20 21:52	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/20 21:52	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/20 21:52	1
Isopropyl ether	ND		10		ug/L			04/02/20 21:52	1
Isopropylbenzene	ND		1.0		ug/L			04/02/20 21:52	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/20 21:52	1
Methylene Chloride	ND		1.0		ug/L			04/02/20 21:52	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/20 21:52	1
Naphthalene	ND		5.0		ug/L			04/02/20 21:52	1
n-Butylbenzene	ND		1.0		ug/L			04/02/20 21:52	1
N-Propylbenzene	ND		1.0		ug/L			04/02/20 21:52	1

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1034-20200331-01

Lab Sample ID: 480-167984-16

Date Collected: 03/31/20 14:30

Matrix: Water

Date Received: 04/01/20 08:00

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			04/02/20 21:52	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/20 21:52	1
Styrene	ND		1.0		ug/L			04/02/20 21:52	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/20 21:52	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/20 21:52	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/20 21:52	1
Tetrachloroethene	ND		1.0		ug/L			04/02/20 21:52	1
Tetrahydrofuran	ND	*	10		ug/L			04/02/20 21:52	1
Toluene	ND		1.0		ug/L			04/02/20 21:52	1
trans-1,2-Dichloroethene	1.3		1.0		ug/L			04/02/20 21:52	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 21:52	1
Trichloroethene	29		1.0		ug/L			04/02/20 21:52	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/20 21:52	1
Vinyl chloride	ND		1.0		ug/L			04/02/20 21:52	1
Dibromomethane	ND		1.0		ug/L			04/02/20 21:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		04/02/20 21:52	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		04/02/20 21:52	1
4-Bromofluorobenzene (Surr)	107		70 - 130		04/02/20 21:52	1

Client Sample ID: TB-001-20200331-01

Lab Sample ID: 480-167984-17

Date Collected: 03/31/20 00:00

Matrix: Water

Date Received: 04/01/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/02/20 22:16	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/20 22:16	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/20 22:16	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/20 22:16	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/20 22:16	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/20 22:16	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/20 22:16	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/20 22:16	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/20 22:16	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/20 22:16	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/20 22:16	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/20 22:16	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/20 22:16	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/20 22:16	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/20 22:16	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/20 22:16	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/20 22:16	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/20 22:16	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/20 22:16	1
1,4-Dioxane	ND		50		ug/L			04/02/20 22:16	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/20 22:16	1
2-Butanone (MEK)	ND	*	10		ug/L			04/02/20 22:16	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/20 22:16	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: TB-001-20200331-01

Lab Sample ID: 480-167984-17

Date Collected: 03/31/20 00:00

Matrix: Water

Date Received: 04/01/20 08:00

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			04/02/20 22:16	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/20 22:16	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/20 22:16	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/20 22:16	1
Acetone	ND		50		ug/L			04/02/20 22:16	1
Benzene	ND		1.0		ug/L			04/02/20 22:16	1
Bromobenzene	ND		1.0		ug/L			04/02/20 22:16	1
Bromoform	ND		1.0		ug/L			04/02/20 22:16	1
Bromomethane	ND		2.0		ug/L			04/02/20 22:16	1
Carbon disulfide	ND		10		ug/L			04/02/20 22:16	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/20 22:16	1
Chlorobenzene	ND		1.0		ug/L			04/02/20 22:16	1
Chlorobromomethane	ND		1.0		ug/L			04/02/20 22:16	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/20 22:16	1
Chloroethane	ND		2.0		ug/L			04/02/20 22:16	1
Chloroform	ND		1.0		ug/L			04/02/20 22:16	1
Chloromethane	ND		2.0		ug/L			04/02/20 22:16	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 22:16	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 22:16	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/20 22:16	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/02/20 22:16	1
Ethyl ether	ND		1.0		ug/L			04/02/20 22:16	1
Ethylbenzene	ND		1.0		ug/L			04/02/20 22:16	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/20 22:16	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/20 22:16	1
Isopropyl ether	ND		10		ug/L			04/02/20 22:16	1
Isopropylbenzene	ND		1.0		ug/L			04/02/20 22:16	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/20 22:16	1
Methylene Chloride	ND		1.0		ug/L			04/02/20 22:16	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/20 22:16	1
Naphthalene	ND		5.0		ug/L			04/02/20 22:16	1
n-Butylbenzene	ND		1.0		ug/L			04/02/20 22:16	1
N-Propylbenzene	ND		1.0		ug/L			04/02/20 22:16	1
o-Xylene	ND		1.0		ug/L			04/02/20 22:16	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/20 22:16	1
Styrene	ND		1.0		ug/L			04/02/20 22:16	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/20 22:16	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/20 22:16	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/20 22:16	1
Tetrachloroethene	ND		1.0		ug/L			04/02/20 22:16	1
Tetrahydrofuran	ND *		10		ug/L			04/02/20 22:16	1
Toluene	ND		1.0		ug/L			04/02/20 22:16	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 22:16	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 22:16	1
Trichloroethene	ND		1.0		ug/L			04/02/20 22:16	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/20 22:16	1
Vinyl chloride	ND		1.0		ug/L			04/02/20 22:16	1
Dibromomethane	ND		1.0		ug/L			04/02/20 22:16	1

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: TB-001-20200331-01

Lab Sample ID: 480-167984-17

Date Collected: 03/31/20 00:00

Matrix: Water

Date Received: 04/01/20 08:00

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	101		70 - 130		04/02/20 22:16	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	104		70 - 130		04/02/20 22:16	1
<i>4-Bromofluorobenzene (Surr)</i>	106		70 - 130		04/02/20 22:16	1

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

Surrogate Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (70-130)	DCA (70-130)	BFB (70-130)
480-167984-1	MW-1001M-20200331-01	107	105	112
480-167984-2	MW-1003-20200331-01	100	103	106
480-167984-3	MW-1004-20200331-01	101	102	105
480-167984-4	MW-1005-20200331-01	100	103	104
480-167984-5	MW-1010M-20200331-01	101	105	106
480-167984-6	MW-1010D-20200331-01	103	106	111
480-167984-8	MW-1013-20200331-01	102	105	106
480-167984-9	MW-1014-20200331-01	104	104	110
480-167984-10	MW-1015D-20200331-01	103	104	108
480-167984-11	MW-1028-20200331-01	98	101	107
480-167984-13	MW-1032-20200331-01	101	106	110
480-167984-14	DUP-002-20200331-01	98	97	104
480-167984-15	DUP-001-20200331-01	101	101	107
480-167984-16	MW-1034-20200331-01	101	102	107
480-167984-17	TB-001-20200331-01	101	104	106
LCS 480-524020/5	Lab Control Sample	100	109	104
LCSD 480-524020/6	Lab Control Sample Dup	98	109	104
MB 480-524020/8	Method Blank	100	105	109

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DXE (46-130)
480-167984-7	MW-1026D-20200331-01	111
LLCS 200-153788/2-A	Lab Control Sample	100
LLCSD 200-153788/3-A	Lab Control Sample Dup	105
MB 200-153788/1-A	Method Blank	105

Surrogate Legend

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

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

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

Lab Sample ID: MB 480-524020/8
Matrix: Water
Analysis Batch: 524020

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/02/20 13:37	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/20 13:37	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/20 13:37	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/20 13:37	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/20 13:37	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/20 13:37	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/20 13:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/20 13:37	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/20 13:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/20 13:37	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/20 13:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/20 13:37	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/20 13:37	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/20 13:37	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/20 13:37	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/20 13:37	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/20 13:37	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/20 13:37	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/20 13:37	1
1,4-Dioxane	ND		50		ug/L			04/02/20 13:37	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/20 13:37	1
2-Butanone (MEK)	ND		10		ug/L			04/02/20 13:37	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/20 13:37	1
2-Hexanone	ND		10		ug/L			04/02/20 13:37	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/20 13:37	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/20 13:37	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/20 13:37	1
Acetone	ND		50		ug/L			04/02/20 13:37	1
Benzene	ND		1.0		ug/L			04/02/20 13:37	1
Bromobenzene	ND		1.0		ug/L			04/02/20 13:37	1
Bromoform	ND		1.0		ug/L			04/02/20 13:37	1
Bromomethane	ND		2.0		ug/L			04/02/20 13:37	1
Carbon disulfide	ND		10		ug/L			04/02/20 13:37	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/20 13:37	1
Chlorobenzene	ND		1.0		ug/L			04/02/20 13:37	1
Chlorobromomethane	ND		1.0		ug/L			04/02/20 13:37	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/20 13:37	1
Chloroethane	ND		2.0		ug/L			04/02/20 13:37	1
Chloroform	ND		1.0		ug/L			04/02/20 13:37	1
Chloromethane	ND		2.0		ug/L			04/02/20 13:37	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 13:37	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 13:37	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/20 13:37	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/02/20 13:37	1
Ethyl ether	ND		1.0		ug/L			04/02/20 13:37	1
Ethylbenzene	ND		1.0		ug/L			04/02/20 13:37	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/20 13:37	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/20 13:37	1

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

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

Lab Sample ID: MB 480-524020/8
Matrix: Water
Analysis Batch: 524020

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			04/02/20 13:37	1
Isopropylbenzene	ND		1.0		ug/L			04/02/20 13:37	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/20 13:37	1
Methylene Chloride	ND		1.0		ug/L			04/02/20 13:37	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/20 13:37	1
Naphthalene	ND		5.0		ug/L			04/02/20 13:37	1
n-Butylbenzene	ND		1.0		ug/L			04/02/20 13:37	1
N-Propylbenzene	ND		1.0		ug/L			04/02/20 13:37	1
o-Xylene	ND		1.0		ug/L			04/02/20 13:37	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/20 13:37	1
Styrene	ND		1.0		ug/L			04/02/20 13:37	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/20 13:37	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/20 13:37	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/20 13:37	1
Tetrachloroethene	ND		1.0		ug/L			04/02/20 13:37	1
Tetrahydrofuran	ND		10		ug/L			04/02/20 13:37	1
Toluene	ND		1.0		ug/L			04/02/20 13:37	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 13:37	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 13:37	1
Trichloroethene	ND		1.0		ug/L			04/02/20 13:37	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/20 13:37	1
Vinyl chloride	ND		1.0		ug/L			04/02/20 13:37	1
Dibromomethane	ND		1.0		ug/L			04/02/20 13:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/02/20 13:37	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/02/20 13:37	1
4-Bromofluorobenzene (Surr)	109		70 - 130		04/02/20 13:37	1

Lab Sample ID: LCS 480-524020/5
Matrix: Water
Analysis Batch: 524020

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	28.3		ug/L		113	70 - 130
1,1,1-Trichloroethane	25.0	26.9		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	25.0	26.4		ug/L		106	70 - 130
1,1,2-Trichloroethane	25.0	27.0		ug/L		108	70 - 130
1,1-Dichloroethane	25.0	26.6		ug/L		106	70 - 130
1,1-Dichloroethene	25.0	25.5		ug/L		102	70 - 130
1,1-Dichloropropene	25.0	26.5		ug/L		106	70 - 130
1,2,3-Trichlorobenzene	25.0	27.5		ug/L		110	70 - 130
1,2,3-Trichloropropane	25.0	27.3		ug/L		109	70 - 130
1,2,4-Trichlorobenzene	25.0	27.9		ug/L		112	70 - 130
1,2,4-Trimethylbenzene	25.0	26.7		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.3		ug/L		97	70 - 130
1,2-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,2-Dichloroethane	25.0	26.2		ug/L		105	70 - 130

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

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

Lab Sample ID: LCS 480-524020/5

Matrix: Water

Analysis Batch: 524020

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	26.3		ug/L		105	70 - 130
1,3-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,3-Dichloropropane	25.0	26.5		ug/L		106	70 - 130
1,4-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,4-Dioxane	500	577		ug/L		115	70 - 130
2,2-Dichloropropane	25.0	25.2		ug/L		101	70 - 130
2-Butanone (MEK)	125	241 *		ug/L		192	70 - 130
2-Chlorotoluene	25.0	26.1		ug/L		104	70 - 130
2-Hexanone	125	125		ug/L		100	70 - 130
4-Chlorotoluene	25.0	29.1		ug/L		117	70 - 130
4-Isopropyltoluene	25.0	26.5		ug/L		106	70 - 130
4-Methyl-2-pentanone (MIBK)	125	128		ug/L		103	70 - 130
Acetone	125	149		ug/L		119	70 - 130
Benzene	25.0	26.3		ug/L		105	70 - 130
Bromobenzene	25.0	26.8		ug/L		107	70 - 130
Bromoform	25.0	27.1		ug/L		108	70 - 130
Bromomethane	25.0	23.6		ug/L		95	70 - 130
Carbon disulfide	25.0	26.1		ug/L		104	70 - 130
Carbon tetrachloride	25.0	27.1		ug/L		108	70 - 130
Chlorobenzene	25.0	27.0		ug/L		108	70 - 130
Chlorobromomethane	25.0	28.5		ug/L		114	70 - 130
Chlorodibromomethane	25.0	29.0		ug/L		116	70 - 130
Chloroethane	25.0	24.4		ug/L		98	70 - 130
Chloroform	25.0	25.2		ug/L		101	70 - 130
Chloromethane	25.0	22.3		ug/L		89	70 - 130
cis-1,2-Dichloroethene	25.0	26.2		ug/L		105	70 - 130
cis-1,3-Dichloropropene	25.0	27.6		ug/L		110	70 - 130
Dichlorobromomethane	25.0	27.3		ug/L		109	70 - 130
Dichlorodifluoromethane	25.0	24.1		ug/L		96	70 - 130
Ethyl ether	25.0	26.1		ug/L		104	70 - 130
Ethylbenzene	25.0	26.6		ug/L		106	70 - 130
Ethylene Dibromide	25.0	27.2		ug/L		109	70 - 130
Hexachlorobutadiene	25.0	28.7		ug/L		115	70 - 130
Isopropyl ether	25.0	24.2		ug/L		97	70 - 130
Isopropylbenzene	25.0	26.2		ug/L		105	70 - 130
Methyl tert-butyl ether	25.0	26.3		ug/L		105	70 - 130
Methylene Chloride	25.0	25.0		ug/L		100	70 - 130
m-Xylene & p-Xylene	25.0	27.2		ug/L		109	70 - 130
Naphthalene	25.0	26.6		ug/L		106	70 - 130
n-Butylbenzene	25.0	25.9		ug/L		104	70 - 130
N-Propylbenzene	25.0	26.0		ug/L		104	70 - 130
o-Xylene	25.0	27.1		ug/L		109	70 - 130
sec-Butylbenzene	25.0	26.6		ug/L		107	70 - 130
Styrene	25.0	27.7		ug/L		111	70 - 130
Tert-amyl methyl ether	25.0	25.7		ug/L		103	70 - 130
Tert-butyl ethyl ether	25.0	23.0		ug/L		92	70 - 130
tert-Butylbenzene	25.0	27.4		ug/L		110	70 - 130
Tetrachloroethene	25.0	30.5		ug/L		122	70 - 130

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

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

Lab Sample ID: LCS 480-524020/5
Matrix: Water
Analysis Batch: 524020

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrahydrofuran	50.0	71.1	*	ug/L		142	70 - 130
Toluene	25.0	26.6		ug/L		106	70 - 130
trans-1,2-Dichloroethene	25.0	26.7		ug/L		107	70 - 130
trans-1,3-Dichloropropene	25.0	26.5		ug/L		106	70 - 130
Trichloroethene	25.0	27.3		ug/L		109	70 - 130
Trichlorofluoromethane	25.0	25.0		ug/L		100	70 - 130
Vinyl chloride	25.0	23.4		ug/L		93	70 - 130
Dibromomethane	25.0	26.3		ug/L		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 480-524020/6
Matrix: Water
Analysis Batch: 524020

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	26.5		ug/L		106	70 - 130	7	20
1,1,1-Trichloroethane	25.0	25.6		ug/L		102	70 - 130	5	20
1,1,1,2-Tetrachloroethane	25.0	25.5		ug/L		102	70 - 130	3	20
1,1,2-Trichloroethane	25.0	24.9		ug/L		99	70 - 130	8	20
1,1-Dichloroethane	25.0	25.3		ug/L		101	70 - 130	5	20
1,1-Dichloroethene	25.0	24.3		ug/L		97	70 - 130	5	20
1,1-Dichloropropene	25.0	25.5		ug/L		102	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	25.9		ug/L		104	70 - 130	6	20
1,2,3-Trichloropropane	25.0	25.5		ug/L		102	70 - 130	7	20
1,2,4-Trichlorobenzene	25.0	25.9		ug/L		104	70 - 130	7	20
1,2,4-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130	9	20
1,2-Dibromo-3-Chloropropane	25.0	23.8		ug/L		95	70 - 130	2	20
1,2-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130	5	20
1,2-Dichloroethane	25.0	25.1		ug/L		100	70 - 130	4	20
1,2-Dichloropropane	25.0	25.8		ug/L		103	70 - 130	3	20
1,3,5-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130	7	20
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130	8	20
1,3-Dichloropropane	25.0	25.4		ug/L		102	70 - 130	4	20
1,4-Dichlorobenzene	25.0	24.9		ug/L		99	70 - 130	5	20
1,4-Dioxane	500	598		ug/L		120	70 - 130	4	20
2,2-Dichloropropane	25.0	24.8		ug/L		99	70 - 130	2	20
2-Butanone (MEK)	125	241	*	ug/L		193	70 - 130	0	20
2-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130	6	20
2-Hexanone	125	124		ug/L		99	70 - 130	1	20
4-Chlorotoluene	25.0	28.5		ug/L		114	70 - 130	2	20
4-Isopropyltoluene	25.0	24.7		ug/L		99	70 - 130	7	20
4-Methyl-2-pentanone (MIBK)	125	124		ug/L		99	70 - 130	4	20
Acetone	125	148		ug/L		119	70 - 130	1	20
Benzene	25.0	25.6		ug/L		102	70 - 130	3	20

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

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

Lab Sample ID: LCSD 480-524020/6
Matrix: Water
Analysis Batch: 524020

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
Bromobenzene	25.0	25.0		ug/L		100	70 - 130	7	20
Bromoform	25.0	26.8		ug/L		107	70 - 130	1	20
Bromomethane	25.0	22.5		ug/L		90	70 - 130	5	20
Carbon disulfide	25.0	24.7		ug/L		99	70 - 130	6	20
Carbon tetrachloride	25.0	25.7		ug/L		103	70 - 130	5	20
Chlorobenzene	25.0	25.5		ug/L		102	70 - 130	6	20
Chlorobromomethane	25.0	27.5		ug/L		110	70 - 130	4	20
Chlorodibromomethane	25.0	27.2		ug/L		109	70 - 130	7	20
Chloroethane	25.0	22.4		ug/L		90	70 - 130	8	20
Chloroform	25.0	24.4		ug/L		97	70 - 130	3	20
Chloromethane	25.0	21.1		ug/L		85	70 - 130	6	20
cis-1,2-Dichloroethene	25.0	25.2		ug/L		101	70 - 130	4	20
cis-1,3-Dichloropropene	25.0	27.6		ug/L		110	70 - 130	0	20
Dichlorobromomethane	25.0	26.6		ug/L		106	70 - 130	3	20
Dichlorodifluoromethane	25.0	23.0		ug/L		92	70 - 130	4	20
Ethyl ether	25.0	25.6		ug/L		102	70 - 130	2	20
Ethylbenzene	25.0	25.0		ug/L		100	70 - 130	6	20
Ethylene Dibromide	25.0	26.5		ug/L		106	70 - 130	2	20
Hexachlorobutadiene	25.0	27.1		ug/L		108	70 - 130	6	20
Isopropyl ether	25.0	24.2		ug/L		97	70 - 130	0	20
Isopropylbenzene	25.0	24.7		ug/L		99	70 - 130	6	20
Methyl tert-butyl ether	25.0	25.8		ug/L		103	70 - 130	2	20
Methylene Chloride	25.0	24.1		ug/L		96	70 - 130	4	20
m-Xylene & p-Xylene	25.0	25.4		ug/L		101	70 - 130	7	20
Naphthalene	25.0	25.4		ug/L		102	70 - 130	4	20
n-Butylbenzene	25.0	23.7		ug/L		95	70 - 130	9	20
N-Propylbenzene	25.0	23.9		ug/L		96	70 - 130	8	20
o-Xylene	25.0	25.0		ug/L		100	70 - 130	8	20
sec-Butylbenzene	25.0	24.3		ug/L		97	70 - 130	9	20
Styrene	25.0	25.7		ug/L		103	70 - 130	8	20
Tert-amyl methyl ether	25.0	24.9		ug/L		100	70 - 130	3	20
Tert-butyl ethyl ether	25.0	22.8		ug/L		91	70 - 130	1	20
tert-Butylbenzene	25.0	24.7		ug/L		99	70 - 130	10	20
Tetrachloroethene	25.0	27.2		ug/L		109	70 - 130	11	20
Tetrahydrofuran	50.0	71.2	*	ug/L		142	70 - 130	0	20
Toluene	25.0	24.9		ug/L		100	70 - 130	7	20
trans-1,2-Dichloroethene	25.0	25.0		ug/L		100	70 - 130	7	20
trans-1,3-Dichloropropene	25.0	25.9		ug/L		104	70 - 130	2	20
Trichloroethene	25.0	25.8		ug/L		103	70 - 130	5	20
Trichlorofluoromethane	25.0	23.4		ug/L		94	70 - 130	6	20
Vinyl chloride	25.0	22.0		ug/L		88	70 - 130	6	20
Dibromomethane	25.0	25.3		ug/L		101	70 - 130	4	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

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

Lab Sample ID: MB 200-153788/1-A
Matrix: Water
Analysis Batch: 153876

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 153788

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/01/20 18:45	04/05/20 20:37	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	105		46 - 130				04/01/20 18:45	04/05/20 20:37	1

Lab Sample ID: LLCS 200-153788/2-A
Matrix: Water
Analysis Batch: 153876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153788

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.200	0.227		ug/L		113	50 - 150
Surrogate	LLCS %Recovery	LLCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	100		46 - 130				

Lab Sample ID: LLCSD 200-153788/3-A
Matrix: Water
Analysis Batch: 153876

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 153788

Analyte	Spike Added	LLCSD Result	LLCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	0.200	0.263		ug/L		131	50 - 150	15	50
Surrogate	LLCSD %Recovery	LLCSD Qualifier	Limits						
1,4-Dioxane-d8 (Surr)	105		46 - 130						

QC Association Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

GC/MS VOA

Analysis Batch: 524020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-167984-1	MW-1001M-20200331-01	Total/NA	Water	8260C	
480-167984-2	MW-1003-20200331-01	Total/NA	Water	8260C	
480-167984-3	MW-1004-20200331-01	Total/NA	Water	8260C	
480-167984-4	MW-1005-20200331-01	Total/NA	Water	8260C	
480-167984-5	MW-1010M-20200331-01	Total/NA	Water	8260C	
480-167984-6	MW-1010D-20200331-01	Total/NA	Water	8260C	
480-167984-8	MW-1013-20200331-01	Total/NA	Water	8260C	
480-167984-9	MW-1014-20200331-01	Total/NA	Water	8260C	
480-167984-10	MW-1015D-20200331-01	Total/NA	Water	8260C	
480-167984-11	MW-1028-20200331-01	Total/NA	Water	8260C	
480-167984-13	MW-1032-20200331-01	Total/NA	Water	8260C	
480-167984-14	DUP-002-20200331-01	Total/NA	Water	8260C	
480-167984-15	DUP-001-20200331-01	Total/NA	Water	8260C	
480-167984-16	MW-1034-20200331-01	Total/NA	Water	8260C	
480-167984-17	TB-001-20200331-01	Total/NA	Water	8260C	
MB 480-524020/8	Method Blank	Total/NA	Water	8260C	
LCS 480-524020/5	Lab Control Sample	Total/NA	Water	8260C	
LCS 480-524020/6	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 153788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-167984-7	MW-1026D-20200331-01	Total/NA	Water	522	
MB 200-153788/1-A	Method Blank	Total/NA	Water	522	
LLCS 200-153788/2-A	Lab Control Sample	Total/NA	Water	522	
LLCSD 200-153788/3-A	Lab Control Sample Dup	Total/NA	Water	522	

Analysis Batch: 153876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-167984-7	MW-1026D-20200331-01	Total/NA	Water	522	153788
MB 200-153788/1-A	Method Blank	Total/NA	Water	522	153788
LLCS 200-153788/2-A	Lab Control Sample	Total/NA	Water	522	153788
LLCSD 200-153788/3-A	Lab Control Sample Dup	Total/NA	Water	522	153788

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1001M-20200331-01

Lab Sample ID: 480-167984-1

Date Collected: 03/31/20 09:07

Matrix: Water

Date Received: 04/01/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524020	04/02/20 16:10	RJF	TAL BUF

Client Sample ID: MW-1003-20200331-01

Lab Sample ID: 480-167984-2

Date Collected: 03/31/20 10:35

Matrix: Water

Date Received: 04/01/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524020	04/02/20 16:34	RJF	TAL BUF

Client Sample ID: MW-1004-20200331-01

Lab Sample ID: 480-167984-3

Date Collected: 03/31/20 10:04

Matrix: Water

Date Received: 04/01/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524020	04/02/20 16:59	RJF	TAL BUF

Client Sample ID: MW-1005-20200331-01

Lab Sample ID: 480-167984-4

Date Collected: 03/31/20 09:42

Matrix: Water

Date Received: 04/01/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524020	04/02/20 17:23	RJF	TAL BUF

Client Sample ID: MW-1010M-20200331-01

Lab Sample ID: 480-167984-5

Date Collected: 03/31/20 11:11

Matrix: Water

Date Received: 04/01/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524020	04/02/20 17:48	RJF	TAL BUF

Client Sample ID: MW-1010D-20200331-01

Lab Sample ID: 480-167984-6

Date Collected: 03/31/20 11:36

Matrix: Water

Date Received: 04/01/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524020	04/02/20 18:12	RJF	TAL BUF

Client Sample ID: MW-1026D-20200331-01

Lab Sample ID: 480-167984-7

Date Collected: 03/31/20 13:55

Matrix: Water

Date Received: 04/01/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	522			153788	04/01/20 18:45	EK	TAL BUR
Total/NA	Analysis	522		1	153876	04/05/20 23:19	MLF	TAL BUR

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1013-20200331-01

Lab Sample ID: 480-167984-8

Date Collected: 03/31/20 08:55

Matrix: Water

Date Received: 04/01/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524020	04/02/20 18:36	RJF	TAL BUF

Client Sample ID: MW-1014-20200331-01

Lab Sample ID: 480-167984-9

Date Collected: 03/31/20 09:40

Matrix: Water

Date Received: 04/01/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524020	04/02/20 19:01	RJF	TAL BUF

Client Sample ID: MW-1015D-20200331-01

Lab Sample ID: 480-167984-10

Date Collected: 03/31/20 10:20

Matrix: Water

Date Received: 04/01/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524020	04/02/20 19:25	RJF	TAL BUF

Client Sample ID: MW-1028-20200331-01

Lab Sample ID: 480-167984-11

Date Collected: 03/31/20 13:00

Matrix: Water

Date Received: 04/01/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524020	04/02/20 19:49	RJF	TAL BUF

Client Sample ID: MW-1032-20200331-01

Lab Sample ID: 480-167984-13

Date Collected: 03/31/20 13:45

Matrix: Water

Date Received: 04/01/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524020	04/02/20 20:38	RJF	TAL BUF

Client Sample ID: DUP-002-20200331-01

Lab Sample ID: 480-167984-14

Date Collected: 03/31/20 00:02

Matrix: Water

Date Received: 04/01/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524020	04/02/20 21:03	RJF	TAL BUF

Client Sample ID: DUP-001-20200331-01

Lab Sample ID: 480-167984-15

Date Collected: 03/31/20 00:01

Matrix: Water

Date Received: 04/01/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524020	04/02/20 21:27	RJF	TAL BUF

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Client Sample ID: MW-1034-20200331-01

Lab Sample ID: 480-167984-16

Date Collected: 03/31/20 14:30

Matrix: Water

Date Received: 04/01/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524020	04/02/20 21:52	RJF	TAL BUF

Client Sample ID: TB-001-20200331-01

Lab Sample ID: 480-167984-17

Date Collected: 03/31/20 00:00

Matrix: Water

Date Received: 04/01/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524020	04/02/20 22:16	RJF	TAL BUF

Laboratory References:

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

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

Accreditation/Certification Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-20
California	State	2931	04-01-20 *
Connecticut	State	PH-0568	09-30-20
Florida	NELAP	E87672	06-30-20
Georgia	State	10026 (NY)	04-01-21
Georgia	State Program	N/A	03-31-09 *
Georgia (DW)	State	956	03-31-20 *
Illinois	NELAP	200003	09-30-20
Iowa	State	374	02-28-21
Kansas	NELAP	E-10187	01-31-20 *
Kentucky (DW)	State	90029	12-31-20
Kentucky (UST)	State	30	04-01-21
Kentucky (WW)	State	KY90029	12-31-20
Louisiana	NELAP	02031	06-30-20
Maine	State	NY00044	12-04-20
Maryland	State	294	04-01-21
Massachusetts	State	M-NY044	06-30-20
Michigan	State	9937	03-31-20 *
Michigan	State Program	9937	04-01-09 *
Minnesota	NELAP	1524384	12-31-20
New Hampshire	NELAP	2337	11-18-20
New Jersey	NELAP	NY455	06-30-20
New York	NELAP	10026	04-02-21
North Dakota	State	R-176	03-31-20 *
Oklahoma	State	9421	09-01-20
Oregon	NELAP	NY200003	06-10-20
Pennsylvania	NELAP	68-00281	07-31-20
Rhode Island	State	LAO00328	12-30-20
Tennessee	State	02970	03-31-20 *
Texas	NELAP	T104704412-18-10	08-01-20
USDA	US Federal Programs	P330-18-00039	02-06-21
Virginia	NELAP	460185	09-14-20
Washington	State	C784	02-11-21
Wisconsin	State	998310390	08-31-20

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

Accreditation/Certification Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Laboratory: Eurofins TestAmerica, Burlington

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-15-20
Florida	NELAP	E87467	06-30-20
Minnesota	NELAP	050-999-436	12-31-20
New Hampshire	NELAP	2006	12-18-20
New Jersey	NELAP	VT972	06-30-20
New York	NELAP	10391	04-01-21
Pennsylvania	NELAP	68-00489	04-30-20
Rhode Island	State	LAO00298	12-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00272	08-09-20
Vermont	State	VT4000	12-31-20
Virginia	NELAP	460209	12-14-20

Method Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
522	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR
5030C	Purge and Trap	SW846	TAL BUF
522	Solid-Phase Extraction (SPE)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

MA DEP = Massachusetts Department Of Environmental Protection

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

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

Sample Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-167984-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-167984-1	MW-1001M-20200331-01	Water	03/31/20 09:07	04/01/20 08:00	
480-167984-2	MW-1003-20200331-01	Water	03/31/20 10:35	04/01/20 08:00	
480-167984-3	MW-1004-20200331-01	Water	03/31/20 10:04	04/01/20 08:00	
480-167984-4	MW-1005-20200331-01	Water	03/31/20 09:42	04/01/20 08:00	
480-167984-5	MW-1010M-20200331-01	Water	03/31/20 11:11	04/01/20 08:00	
480-167984-6	MW-1010D-20200331-01	Water	03/31/20 11:36	04/01/20 08:00	
480-167984-7	MW-1026D-20200331-01	Water	03/31/20 13:55	04/01/20 08:00	
480-167984-8	MW-1013-20200331-01	Water	03/31/20 08:55	04/01/20 08:00	
480-167984-9	MW-1014-20200331-01	Water	03/31/20 09:40	04/01/20 08:00	
480-167984-10	MW-1015D-20200331-01	Water	03/31/20 10:20	04/01/20 08:00	
480-167984-11	MW-1028-20200331-01	Water	03/31/20 13:00	04/01/20 08:00	
480-167984-13	MW-1032-20200331-01	Water	03/31/20 13:45	04/01/20 08:00	
480-167984-14	DUP-002-20200331-01	Water	03/31/20 00:02	04/01/20 08:00	
480-167984-15	DUP-001-20200331-01	Water	03/31/20 00:01	04/01/20 08:00	
480-167984-16	MW-1034-20200331-01	Water	03/31/20 14:30	04/01/20 08:00	
480-167984-17	TB-001-20200331-01	Water	03/31/20 00:00	04/01/20 08:00	

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-167984-1

Login Number: 167984

List Number: 1

Creator: Yeager, Brian A

List Source: Eurofins TestAmerica, Buffalo

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

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-167984-1

Login Number: 167984

List Number: 2

Creator: Khudaier, Zahraa

List Source: Eurofins TestAmerica, Burlington

List Creation: 04/01/20 12:02 PM

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	Seal present with no number.
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7°C, 2.3°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	PS
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Eurofins TestAmerica, Buffalo
 10 Hazelwood Drive
 Amherst, NY 14228-2298
 Phone: 716-691-2600 Fax: 716-691-7991

Boston #215

Chain of Custody Record



Client Information
 Client Contact: Lyndsey Colburn
 Company: ERM-Northeast
 Address: One Beacon Steel 5th Floor
 City: Boston
 State, Zip: MA, 02108
 Phone: 617-646-7800
 Email: lyndsey.colburn@erm.com
 Project Name: IDS Wayland
 Site: Wayland, MA

Sampler: Paulina Staley
Phone: 978-566-0078
Lab PM: Mason, Becky C
E-Mail: becky.mason@lestamericainc.com

Carrier Tracking No(s): COC No: 480-144054-32097.2
 Page: Page 2 of 4
 Job #:

Analysis Requested

Field Filtered Sample (Yes or No) A
 Perform MS/MSD (Yes or No) A
 8260MCP - MCP 8260 Analyte List
 522 - 1,4 Dioxane Low Level

Preservation Codes:
 A - HCL
 M - Hexane
 B - NaOH
 N - None
 C - Zn Acetate
 O - AsNaO2
 D - Nitric Acid

Barcode: 480-167984 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Preservation Code	Matrix (Water, Solid, Over-sat, etc)	Total Number of	Special Instructions/Note:
MW-1001M-20200331-01	03/31/20	09:07	G		Water	3	
MW-1003-20200331-01		10:35			Water	3	
MW-1004-20200331-01		10:04			Water	3	
MW-1005-20200331-01		09:42			Water	3	
MW-1010M-20200331-01		11:11			Water	3	
MW-1010D-20200331-01		11:36			Water	3	
MW-1026D-20200331-01		13:55			Water	3	
MW-1013-20200331-01		08:55			Water	3	
MW-1014-20200331-01		09:40			Water	3	
MW-1015D-20200331-01		10:20			Water	3	
MW-1028-20200331-01		13:00			Water	3	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant
 Deliverable Requested: I, II, III, IV, Other (specify)

Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:
 Contact sampler with questions

Empty Kit Relinquished by: Date: _____ Time: _____

Relinquished by: Samuel J. Dute Date: 03/31/20 1615 Company: ERM
 Relinquished by: Date: 5-31-20-1800 Company:
 Relinquished by: Date: 4/17/20 0800 Company:

Custody Seals Intact: Custody Seal No.: 3-70C #2 CK

Client Information		Lab PM: Mason, Becky C		COC No: 480-144054-32097.4					
Client Contact: Lyndsey Colburn		E-Mail: becky.mason@testamericainc.com		Page: Page 4 of 4					
Company: ERM-Northeast		Phone: 440-976-6608		Job #: #215					
Address: One Beacon Steel 5th Floor		Due Date Requested:		Analysis Requested					
City: Boston		TAT Requested (days): Standard		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Z - other (specify) Other:					
State, Zip: MA, 02108		PO #: 0530678		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anichlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA					
Phone: 617-646-7800		WO #:		Other:					
Email: lyndsey.colburn@erm.com		Project #: 48007117		Special Instructions/Note:					
Project Name: IDS Wayland		SSOW#:		Total Number of containers					
Site: Wayland, MA									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Water, Spill, Overhead, etc)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	522 - 1,4 Dioxane Low Level	826MCP - MCP 8260 Analyte List	522 - 1,4 Dioxane Low Level
MW-1032-20200331-01	03/31/20	13:45	G	Water	X	X			
DUP-002-20200331-01		00:02			X	X			
DUP-001-20200331-01		00:01			X	X			
MW-1034-20200331-01		14:30			X	X			
TB-001-20200331-01	LAB WATER				X	X			

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____ Time: _____
 Relinquished by: Samuel P. Jost Company: ERM
 Relinquished by: _____ Date/Time: 03/31/20 1615
 Relinquished by: _____ Date/Time: 3-3-20, 1042
 Relinquished by: _____ Date/Time: _____
 Custody Seal Intact: _____ Custody Seal No.: _____
 Yes No

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Method of Shipment: _____
 Date/Time: 3-3-20 1615
 Date/Time: _____
 Date/Time: 4/20/2020
 Cooler Temperature (°C) and Other Remarks:




Boston #215
 10 Hazelwood Drive
 Amherst, NY 14228-2298
 Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

Boston #215

eurofims

Environmental Testing
 TestAmerica

Client Information		Lab Pkt: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-144054-32097.2					
Client Contact: Lyndsey Colburn		E-Mail: becky.mason@testamericainc.com		Page: Page 2 of 4					
Company: ERM-Northeast				Job #:					
Address: One Beacon Steel 5th Floor		Analysis Requested							
City: Boston									
State, Zip: MA, 02108		480-167984 Chain of Custody							
Phone: 617-646-7800		Preservation Codes: A - HCl M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA L - EDA Z - other (specify) Other:							
Email: lyndsey.colburn@erm.com		Total Number of Containers:							
Project Name: IDS Wayland		Special Instructions/Note:							
Site: Wayland, MA									
Due Date Requested:									
TAT Requested (days): Standard									
PO #: 0530678									
WO #:									
Project #:									
48007117									
SSOW#:									
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=soil, G=grab, etc. Please Abb.)	Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	522 - 1/4 Dioxane Low level	8260MCP - MCP 8260 Analyte List	480-167984 Chain of Custody
MW-1001M-20200331-01	03/31/20	09:07	G	Water	N	N			
MW-1003-20200331-01		10:35		Water	N	N			
MW-1004-20200331-01		10:04		Water	N	N			
MW-1005-20200331-01		09:42		Water	N	N			
MW-1010M-20200331-01		11:11		Water	N	N			
MW-1010D-20200331-01		11:36		Water	N	N			
MW-1026D-20200331-01		13:55		Water	N	N			
MW-1013-20200331-01		08:55		Water	N	N			
MW-1014-20200331-01		09:40		Water	N	N			
MW-1015D-20200331-01		10:20		Water	N	N			
MW-1028-20200331-01		13:00		Water	N	N			
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological					<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements: Contact sampler with questions				
Empty Kit Relinquished by:					Method of Shipment:				
Relinquished by: Samuel J. Jark					Date/Time: 03/31/20 16:15				
Relinquished by: [Signature]					Date/Time: 3-31-20 10:35				
Relinquished by: [Signature]					Date/Time: 4/1/20 10:35				
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Cooler Temperature(s): °C and Other Remarks:				



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

SHIP DATE: 31MAR20
ACTWGT: 42.00 LB
CAD: 590687/CAFE3211

BILL RECIPIENT

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

(802) 660-1990

REF:

DEPT:

INU:

PO:

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

SHIP DATE: 31MAR20
ACTWGT: 47.35 LB
CAD: 590687/CAFE3211

BILL RECIPIENT

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

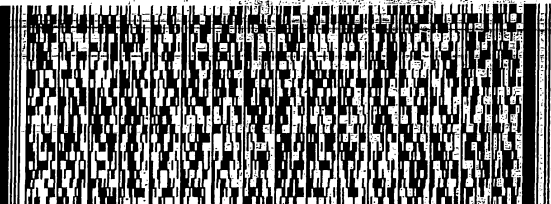
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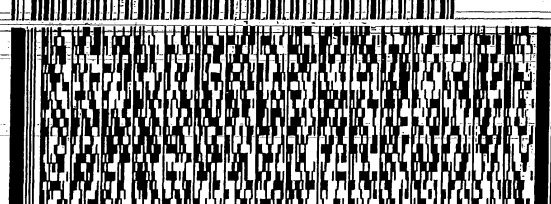
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FedEx
Express



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FedEx
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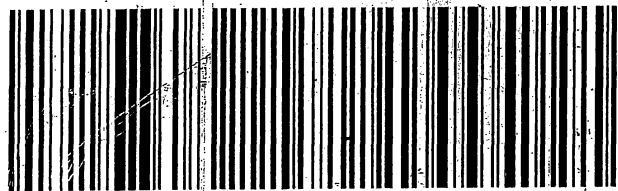
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PRIORITY OVERNIGHT

0201

NL BTVA

05403
VT-US BTV

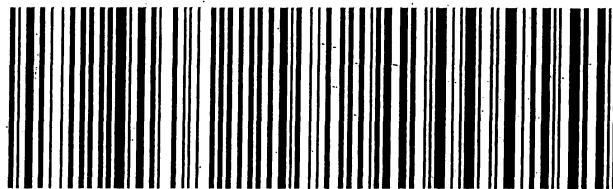


1 of 2
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MASTER

WED - 01 APR 10:30
PRIORITY OVERNIGHT

NL BTVA

0540
VT-US BT



ANALYTICAL REPORT

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

Laboratory Job ID: 480-168101-1
Client Project/Site: IDS Wayland

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

Attn: Lyndsey Colburn



Authorized for release by:
4/10/2020 2:25:42 PM
Wyatt Watson, Project Management Assistant I
wyatt.watson@testamericainc.com

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

LINKS

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www.testamericainc.com

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

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

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



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Definitions/Glossary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

Qualifiers

GC/MS VOA

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

Glossary

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

Case Narrative

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

Job ID: 480-168101-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-168101-1

Receipt

The samples were received on 4/3/2020 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.7° C.

GC/MS VOA

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

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-524475 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. The following samples were affected : MW-1008-20200401-01 (480-168101-1), PDB-001-20200401-01 (480-168101-8) and TB-001-20200401-01 (480-168101-10).

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

GC/MS Semi VOA

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

Organic Prep

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

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-168101**

Project Location: **IDS Wayland** RTN:

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

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"/>	9014 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 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: Wyatt Watson Position: Project Manager Assistant
 Printed Name: Wyatt Watson Date: 4/8/20 14:09

Detection Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

Client Sample ID: MW-1008-20200401-01

Lab Sample ID: 480-168101-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	3.8		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-1020-20200401-01

Lab Sample ID: 480-168101-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.36		0.20		ug/L	1		522	Total/NA

Client Sample ID: MW-1025M-20200401-01

Lab Sample ID: 480-168101-3

No Detections.

Client Sample ID: MW-1033-20200401-01

Lab Sample ID: 480-168101-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.7		0.20		ug/L	1		522	Total/NA

Client Sample ID: MW-1034-20200401-01

Lab Sample ID: 480-168101-5

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

Client Sample ID: MW-1036-20200401-01

Lab Sample ID: 480-168101-6

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

Client Sample ID: MW-1039-20200401-01

Lab Sample ID: 480-168101-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.26		0.20		ug/L	1		522	Total/NA

Client Sample ID: PDB-001-20200401-01

Lab Sample ID: 480-168101-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	4.1		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: DUP-001-20200401-01

Lab Sample ID: 480-168101-9

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

Client Sample ID: TB-001-20200401-01

Lab Sample ID: 480-168101-10

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

Client Sample ID: MW-1008-20200401-01

Lab Sample ID: 480-168101-1

Date Collected: 04/01/20 08:39

Matrix: Water

Date Received: 04/03/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/20 15:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/20 15:34	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/20 15:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/20 15:34	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/20 15:34	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/20 15:34	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/20 15:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/20 15:34	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/20 15:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/20 15:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/20 15:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/20 15:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/20 15:34	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/20 15:34	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/20 15:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/20 15:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/20 15:34	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/20 15:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/20 15:34	1
1,4-Dioxane	ND		50		ug/L			04/06/20 15:34	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/20 15:34	1
2-Butanone (MEK)	ND	*	10		ug/L			04/06/20 15:34	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/20 15:34	1
2-Hexanone	ND		10		ug/L			04/06/20 15:34	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/20 15:34	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/20 15:34	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/20 15:34	1
Acetone	ND		50		ug/L			04/06/20 15:34	1
Benzene	ND		1.0		ug/L			04/06/20 15:34	1
Bromobenzene	ND		1.0		ug/L			04/06/20 15:34	1
Bromoform	ND		1.0		ug/L			04/06/20 15:34	1
Bromomethane	ND		2.0		ug/L			04/06/20 15:34	1
Carbon disulfide	ND		10		ug/L			04/06/20 15:34	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/20 15:34	1
Chlorobenzene	ND		1.0		ug/L			04/06/20 15:34	1
Chlorobromomethane	ND		1.0		ug/L			04/06/20 15:34	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/20 15:34	1
Chloroethane	ND		2.0		ug/L			04/06/20 15:34	1
Chloroform	ND		1.0		ug/L			04/06/20 15:34	1
Chloromethane	ND		2.0		ug/L			04/06/20 15:34	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 15:34	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 15:34	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/20 15:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/20 15:34	1
Ethyl ether	ND		1.0		ug/L			04/06/20 15:34	1
Ethylbenzene	ND		1.0		ug/L			04/06/20 15:34	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/20 15:34	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/20 15:34	1
Isopropyl ether	ND		10		ug/L			04/06/20 15:34	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

Client Sample ID: MW-1008-20200401-01

Lab Sample ID: 480-168101-1

Date Collected: 04/01/20 08:39

Matrix: Water

Date Received: 04/03/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/06/20 15:34	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/20 15:34	1
Methylene Chloride	ND		1.0		ug/L			04/06/20 15:34	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/20 15:34	1
Naphthalene	ND		5.0		ug/L			04/06/20 15:34	1
n-Butylbenzene	ND		1.0		ug/L			04/06/20 15:34	1
N-Propylbenzene	ND		1.0		ug/L			04/06/20 15:34	1
o-Xylene	ND		1.0		ug/L			04/06/20 15:34	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/20 15:34	1
Styrene	ND		1.0		ug/L			04/06/20 15:34	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/20 15:34	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/20 15:34	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/20 15:34	1
Tetrachloroethene	ND		1.0		ug/L			04/06/20 15:34	1
Tetrahydrofuran	ND		10		ug/L			04/06/20 15:34	1
Toluene	ND		1.0		ug/L			04/06/20 15:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 15:34	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 15:34	1
Trichloroethene	3.8		1.0		ug/L			04/06/20 15:34	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/20 15:34	1
Vinyl chloride	ND		1.0		ug/L			04/06/20 15:34	1
Dibromomethane	ND		1.0		ug/L			04/06/20 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		04/06/20 15:34	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 130		04/06/20 15:34	1
4-Bromofluorobenzene (Surr)	107		70 - 130		04/06/20 15:34	1

Client Sample ID: MW-1020-20200401-01

Lab Sample ID: 480-168101-2

Date Collected: 04/01/20 14:15

Matrix: Water

Date Received: 04/03/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.36		0.20		ug/L		04/03/20 17:35	04/09/20 02:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	69		46 - 130	04/03/20 17:35	04/09/20 02:04	1

Client Sample ID: MW-1025M-20200401-01

Lab Sample ID: 480-168101-3

Date Collected: 04/01/20 15:05

Matrix: Water

Date Received: 04/03/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/03/20 17:35	04/09/20 02:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	61		46 - 130	04/03/20 17:35	04/09/20 02:17	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

Client Sample ID: MW-1033-20200401-01

Lab Sample ID: 480-168101-4

Date Collected: 04/01/20 11:55

Matrix: Water

Date Received: 04/03/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.7		0.20		ug/L		04/03/20 17:35	04/09/20 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	61		46 - 130				04/03/20 17:35	04/09/20 02:31	1

Client Sample ID: MW-1034-20200401-01

Lab Sample ID: 480-168101-5

Date Collected: 04/01/20 09:50

Matrix: Water

Date Received: 04/03/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.28		0.20		ug/L		04/03/20 17:35	04/09/20 02:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	51		46 - 130				04/03/20 17:35	04/09/20 02:45	1

Client Sample ID: MW-1036-20200401-01

Lab Sample ID: 480-168101-6

Date Collected: 04/01/20 11:05

Matrix: Water

Date Received: 04/03/20 09:00

Method: 522 - 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		04/03/20 17:35	04/09/20 02:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	62		46 - 130				04/03/20 17:35	04/09/20 02:59	1

Client Sample ID: MW-1039-20200401-01

Lab Sample ID: 480-168101-7

Date Collected: 04/01/20 12:24

Matrix: Water

Date Received: 04/03/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.26		0.20		ug/L		04/03/20 17:35	04/09/20 03:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	71		46 - 130				04/03/20 17:35	04/09/20 03:12	1

Client Sample ID: PDB-001-20200401-01

Lab Sample ID: 480-168101-8

Date Collected: 04/01/20 15:55

Matrix: Water

Date Received: 04/03/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/20 15:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/20 15:59	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/20 15:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/20 15:59	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/20 15:59	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/20 15:59	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/20 15:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/20 15:59	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

Client Sample ID: PDB-001-20200401-01

Lab Sample ID: 480-168101-8

Date Collected: 04/01/20 15:55

Matrix: Water

Date Received: 04/03/20 09:00

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			04/06/20 15:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/20 15:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/20 15:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/20 15:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/20 15:59	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/20 15:59	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/20 15:59	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/20 15:59	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/20 15:59	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/20 15:59	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/20 15:59	1
1,4-Dioxane	ND		50		ug/L			04/06/20 15:59	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/20 15:59	1
2-Butanone (MEK)	ND	*	10		ug/L			04/06/20 15:59	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/20 15:59	1
2-Hexanone	ND		10		ug/L			04/06/20 15:59	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/20 15:59	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/20 15:59	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/20 15:59	1
Acetone	ND		50		ug/L			04/06/20 15:59	1
Benzene	ND		1.0		ug/L			04/06/20 15:59	1
Bromobenzene	ND		1.0		ug/L			04/06/20 15:59	1
Bromoform	ND		1.0		ug/L			04/06/20 15:59	1
Bromomethane	ND		2.0		ug/L			04/06/20 15:59	1
Carbon disulfide	ND		10		ug/L			04/06/20 15:59	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/20 15:59	1
Chlorobenzene	ND		1.0		ug/L			04/06/20 15:59	1
Chlorobromomethane	ND		1.0		ug/L			04/06/20 15:59	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/20 15:59	1
Chloroethane	ND		2.0		ug/L			04/06/20 15:59	1
Chloroform	ND		1.0		ug/L			04/06/20 15:59	1
Chloromethane	ND		2.0		ug/L			04/06/20 15:59	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 15:59	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 15:59	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/20 15:59	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/20 15:59	1
Ethyl ether	ND		1.0		ug/L			04/06/20 15:59	1
Ethylbenzene	ND		1.0		ug/L			04/06/20 15:59	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/20 15:59	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/20 15:59	1
Isopropyl ether	ND		10		ug/L			04/06/20 15:59	1
Isopropylbenzene	ND		1.0		ug/L			04/06/20 15:59	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/20 15:59	1
Methylene Chloride	4.1		1.0		ug/L			04/06/20 15:59	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/20 15:59	1
Naphthalene	ND		5.0		ug/L			04/06/20 15:59	1
n-Butylbenzene	ND		1.0		ug/L			04/06/20 15:59	1
N-Propylbenzene	ND		1.0		ug/L			04/06/20 15:59	1
o-Xylene	ND		1.0		ug/L			04/06/20 15:59	1

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

Client Sample ID: PDB-001-20200401-01

Lab Sample ID: 480-168101-8

Date Collected: 04/01/20 15:55

Matrix: Water

Date Received: 04/03/20 09:00

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			04/06/20 15:59	1
Styrene	ND		1.0		ug/L			04/06/20 15:59	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/20 15:59	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/20 15:59	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/20 15:59	1
Tetrachloroethene	ND		1.0		ug/L			04/06/20 15:59	1
Tetrahydrofuran	ND		10		ug/L			04/06/20 15:59	1
Toluene	ND		1.0		ug/L			04/06/20 15:59	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 15:59	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 15:59	1
Trichloroethene	ND		1.0		ug/L			04/06/20 15:59	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/20 15:59	1
Vinyl chloride	ND		1.0		ug/L			04/06/20 15:59	1
Dibromomethane	ND		1.0		ug/L			04/06/20 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130		04/06/20 15:59	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/06/20 15:59	1
4-Bromofluorobenzene (Surr)	105		70 - 130		04/06/20 15:59	1

Client Sample ID: DUP-001-20200401-01

Lab Sample ID: 480-168101-9

Date Collected: 04/01/20 00:01

Matrix: Water

Date Received: 04/03/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.34		0.20		ug/L		04/03/20 17:35	04/09/20 03:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	67		46 - 130	04/03/20 17:35	04/09/20 03:54	1

Client Sample ID: TB-001-20200401-01

Lab Sample ID: 480-168101-10

Date Collected: 04/01/20 00:00

Matrix: Water

Date Received: 04/03/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/20 16:22	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/20 16:22	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/20 16:22	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/20 16:22	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/20 16:22	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/20 16:22	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/20 16:22	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/20 16:22	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/20 16:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/20 16:22	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/20 16:22	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/20 16:22	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/20 16:22	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/20 16:22	1

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Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

Client Sample ID: TB-001-20200401-01

Lab Sample ID: 480-168101-10

Date Collected: 04/01/20 00:00

Matrix: Water

Date Received: 04/03/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.0		ug/L			04/06/20 16:22	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/20 16:22	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/20 16:22	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/20 16:22	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/20 16:22	1
1,4-Dioxane	ND		50		ug/L			04/06/20 16:22	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/20 16:22	1
2-Butanone (MEK)	ND	*	10		ug/L			04/06/20 16:22	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/20 16:22	1
2-Hexanone	ND		10		ug/L			04/06/20 16:22	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/20 16:22	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/20 16:22	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/20 16:22	1
Acetone	ND		50		ug/L			04/06/20 16:22	1
Benzene	ND		1.0		ug/L			04/06/20 16:22	1
Bromobenzene	ND		1.0		ug/L			04/06/20 16:22	1
Bromoform	ND		1.0		ug/L			04/06/20 16:22	1
Bromomethane	ND		2.0		ug/L			04/06/20 16:22	1
Carbon disulfide	ND		10		ug/L			04/06/20 16:22	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/20 16:22	1
Chlorobenzene	ND		1.0		ug/L			04/06/20 16:22	1
Chlorobromomethane	ND		1.0		ug/L			04/06/20 16:22	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/20 16:22	1
Chloroethane	ND		2.0		ug/L			04/06/20 16:22	1
Chloroform	ND		1.0		ug/L			04/06/20 16:22	1
Chloromethane	ND		2.0		ug/L			04/06/20 16:22	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 16:22	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 16:22	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/20 16:22	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/20 16:22	1
Ethyl ether	ND		1.0		ug/L			04/06/20 16:22	1
Ethylbenzene	ND		1.0		ug/L			04/06/20 16:22	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/20 16:22	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/20 16:22	1
Isopropyl ether	ND		10		ug/L			04/06/20 16:22	1
Isopropylbenzene	ND		1.0		ug/L			04/06/20 16:22	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/20 16:22	1
Methylene Chloride	ND		1.0		ug/L			04/06/20 16:22	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/20 16:22	1
Naphthalene	ND		5.0		ug/L			04/06/20 16:22	1
n-Butylbenzene	ND		1.0		ug/L			04/06/20 16:22	1
N-Propylbenzene	ND		1.0		ug/L			04/06/20 16:22	1
o-Xylene	ND		1.0		ug/L			04/06/20 16:22	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/20 16:22	1
Styrene	ND		1.0		ug/L			04/06/20 16:22	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/20 16:22	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/20 16:22	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/20 16:22	1
Tetrachloroethene	ND		1.0		ug/L			04/06/20 16:22	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

Client Sample ID: TB-001-20200401-01

Lab Sample ID: 480-168101-10

Date Collected: 04/01/20 00:00

Matrix: Water

Date Received: 04/03/20 09:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	ND		10		ug/L			04/06/20 16:22	1
Toluene	ND		1.0		ug/L			04/06/20 16:22	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 16:22	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 16:22	1
Trichloroethene	ND		1.0		ug/L			04/06/20 16:22	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/20 16:22	1
Vinyl chloride	ND		1.0		ug/L			04/06/20 16:22	1
Dibromomethane	ND		1.0		ug/L			04/06/20 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	<i>101</i>		<i>70 - 130</i>					<i>04/06/20 16:22</i>	<i>1</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	<i>109</i>		<i>70 - 130</i>					<i>04/06/20 16:22</i>	<i>1</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>108</i>		<i>70 - 130</i>					<i>04/06/20 16:22</i>	<i>1</i>

Surrogate Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (70-130)	DCA (70-130)	BFB (70-130)
480-168101-1	MW-1008-20200401-01	101	114	107
480-168101-8	PDB-001-20200401-01	102	110	105
480-168101-10	TB-001-20200401-01	101	109	108
LCS 480-524475/7	Lab Control Sample	100	109	104
LCSD 480-524475/8	Lab Control Sample Dup	101	108	107
MB 480-524475/10	Method Blank	100	111	104

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE
		(46-130)
480-168101-2	MW-1020-20200401-01	69
480-168101-3	MW-1025M-20200401-01	61
480-168101-4	MW-1033-20200401-01	61
480-168101-5	MW-1034-20200401-01	51
480-168101-6	MW-1036-20200401-01	62
480-168101-7	MW-1039-20200401-01	71
480-168101-7 MS	MW-1039-20200401-01	64
480-168101-7 MSD	MW-1039-20200401-01	71
480-168101-9	DUP-001-20200401-01	67
LCS 200-153865/2-A	Lab Control Sample	77
MB 200-153865/1-A	Method Blank	77

Surrogate Legend

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

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

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

Lab Sample ID: MB 480-524475/10
Matrix: Water
Analysis Batch: 524475

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/20 14:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/20 14:34	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/20 14:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/20 14:34	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/20 14:34	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/20 14:34	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/20 14:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/20 14:34	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/20 14:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/20 14:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/20 14:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/20 14:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/20 14:34	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/20 14:34	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/20 14:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/20 14:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/20 14:34	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/20 14:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/20 14:34	1
1,4-Dioxane	ND		50		ug/L			04/06/20 14:34	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/20 14:34	1
2-Butanone (MEK)	ND		10		ug/L			04/06/20 14:34	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/20 14:34	1
2-Hexanone	ND		10		ug/L			04/06/20 14:34	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/20 14:34	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/20 14:34	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/20 14:34	1
Acetone	ND		50		ug/L			04/06/20 14:34	1
Benzene	ND		1.0		ug/L			04/06/20 14:34	1
Bromobenzene	ND		1.0		ug/L			04/06/20 14:34	1
Bromoform	ND		1.0		ug/L			04/06/20 14:34	1
Bromomethane	ND		2.0		ug/L			04/06/20 14:34	1
Carbon disulfide	ND		10		ug/L			04/06/20 14:34	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/20 14:34	1
Chlorobenzene	ND		1.0		ug/L			04/06/20 14:34	1
Chlorobromomethane	ND		1.0		ug/L			04/06/20 14:34	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/20 14:34	1
Chloroethane	ND		2.0		ug/L			04/06/20 14:34	1
Chloroform	ND		1.0		ug/L			04/06/20 14:34	1
Chloromethane	ND		2.0		ug/L			04/06/20 14:34	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 14:34	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 14:34	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/20 14:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/20 14:34	1
Ethyl ether	ND		1.0		ug/L			04/06/20 14:34	1
Ethylbenzene	ND		1.0		ug/L			04/06/20 14:34	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/20 14:34	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/20 14:34	1

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

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

Lab Sample ID: MB 480-524475/10
Matrix: Water
Analysis Batch: 524475

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			04/06/20 14:34	1
Isopropylbenzene	ND		1.0		ug/L			04/06/20 14:34	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/20 14:34	1
Methylene Chloride	ND		1.0		ug/L			04/06/20 14:34	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/20 14:34	1
Naphthalene	ND		5.0		ug/L			04/06/20 14:34	1
n-Butylbenzene	ND		1.0		ug/L			04/06/20 14:34	1
N-Propylbenzene	ND		1.0		ug/L			04/06/20 14:34	1
o-Xylene	ND		1.0		ug/L			04/06/20 14:34	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/20 14:34	1
Styrene	ND		1.0		ug/L			04/06/20 14:34	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/20 14:34	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/20 14:34	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/20 14:34	1
Tetrachloroethene	ND		1.0		ug/L			04/06/20 14:34	1
Tetrahydrofuran	ND		10		ug/L			04/06/20 14:34	1
Toluene	ND		1.0		ug/L			04/06/20 14:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 14:34	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 14:34	1
Trichloroethene	ND		1.0		ug/L			04/06/20 14:34	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/20 14:34	1
Vinyl chloride	ND		1.0		ug/L			04/06/20 14:34	1
Dibromomethane	ND		1.0		ug/L			04/06/20 14:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/06/20 14:34	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/06/20 14:34	1
4-Bromofluorobenzene (Surr)	104		70 - 130		04/06/20 14:34	1

Lab Sample ID: LCS 480-524475/7
Matrix: Water
Analysis Batch: 524475

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.9		ug/L		108	70 - 130
1,1,1-Trichloroethane	25.0	26.0		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.8		ug/L		95	70 - 130
1,1,2-Trichloroethane	25.0	25.6		ug/L		102	70 - 130
1,1-Dichloroethane	25.0	27.6		ug/L		110	70 - 130
1,1-Dichloroethene	25.0	26.4		ug/L		105	70 - 130
1,1-Dichloropropene	25.0	27.8		ug/L		111	70 - 130
1,2,3-Trichlorobenzene	25.0	27.2		ug/L		109	70 - 130
1,2,3-Trichloropropane	25.0	23.6		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	25.0	27.4		ug/L		110	70 - 130
1,2,4-Trimethylbenzene	25.0	26.7		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	20.1		ug/L		80	70 - 130
1,2-Dichlorobenzene	25.0	27.1		ug/L		108	70 - 130
1,2-Dichloroethane	25.0	26.9		ug/L		108	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

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

Lab Sample ID: LCS 480-524475/7

Matrix: Water

Analysis Batch: 524475

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	28.6		ug/L		114	70 - 130
1,3,5-Trimethylbenzene	25.0	26.0		ug/L		104	70 - 130
1,3-Dichlorobenzene	25.0	27.4		ug/L		110	70 - 130
1,3-Dichloropropane	25.0	27.3		ug/L		109	70 - 130
1,4-Dichlorobenzene	25.0	27.1		ug/L		108	70 - 130
1,4-Dioxane	500	454		ug/L		91	70 - 130
2,2-Dichloropropane	25.0	25.5		ug/L		102	70 - 130
2-Butanone (MEK)	125	192 *		ug/L		153	70 - 130
2-Chlorotoluene	25.0	27.8		ug/L		111	70 - 130
2-Hexanone	125	108		ug/L		87	70 - 130
4-Chlorotoluene	25.0	24.2		ug/L		97	70 - 130
4-Isopropyltoluene	25.0	26.6		ug/L		106	70 - 130
4-Methyl-2-pentanone (MIBK)	125	108		ug/L		86	70 - 130
Acetone	125	111		ug/L		89	70 - 130
Benzene	25.0	27.3		ug/L		109	70 - 130
Bromobenzene	25.0	26.2		ug/L		105	70 - 130
Bromoform	25.0	26.0		ug/L		104	70 - 130
Bromomethane	25.0	23.4		ug/L		94	70 - 130
Carbon disulfide	25.0	26.4		ug/L		106	70 - 130
Carbon tetrachloride	25.0	27.0		ug/L		108	70 - 130
Chlorobenzene	25.0	26.9		ug/L		107	70 - 130
Chlorobromomethane	25.0	27.5		ug/L		110	70 - 130
Chlorodibromomethane	25.0	27.4		ug/L		110	70 - 130
Chloroethane	25.0	26.4		ug/L		105	70 - 130
Chloroform	25.0	25.5		ug/L		102	70 - 130
Chloromethane	25.0	24.6		ug/L		99	70 - 130
cis-1,2-Dichloroethene	25.0	26.7		ug/L		107	70 - 130
cis-1,3-Dichloropropene	25.0	29.3		ug/L		117	70 - 130
Dichlorobromomethane	25.0	28.4		ug/L		113	70 - 130
Dichlorodifluoromethane	25.0	24.5		ug/L		98	70 - 130
Ethyl ether	25.0	27.0		ug/L		108	70 - 130
Ethylbenzene	25.0	26.2		ug/L		105	70 - 130
Ethylene Dibromide	25.0	25.4		ug/L		101	70 - 130
Hexachlorobutadiene	25.0	24.9		ug/L		100	70 - 130
Isopropyl ether	25.0	29.5		ug/L		118	70 - 130
Isopropylbenzene	25.0	26.1		ug/L		104	70 - 130
Methyl tert-butyl ether	25.0	26.8		ug/L		107	70 - 130
Methylene Chloride	25.0	26.9		ug/L		108	70 - 130
m-Xylene & p-Xylene	25.0	26.7		ug/L		107	70 - 130
Naphthalene	25.0	23.7		ug/L		95	70 - 130
n-Butylbenzene	25.0	26.1		ug/L		104	70 - 130
N-Propylbenzene	25.0	26.0		ug/L		104	70 - 130
o-Xylene	25.0	26.5		ug/L		106	70 - 130
sec-Butylbenzene	25.0	25.6		ug/L		102	70 - 130
Styrene	25.0	28.0		ug/L		112	70 - 130
Tert-amyl methyl ether	25.0	27.8		ug/L		111	70 - 130
Tert-butyl ethyl ether	25.0	29.2		ug/L		117	70 - 130
tert-Butylbenzene	25.0	26.5		ug/L		106	70 - 130
Tetrachloroethene	25.0	27.8		ug/L		111	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

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

Lab Sample ID: LCS 480-524475/7

Matrix: Water

Analysis Batch: 524475

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrahydrofuran	50.0	55.7		ug/L		111	70 - 130
Toluene	25.0	26.5		ug/L		106	70 - 130
trans-1,2-Dichloroethene	25.0	26.1		ug/L		104	70 - 130
trans-1,3-Dichloropropene	25.0	27.1		ug/L		108	70 - 130
Trichloroethene	25.0	27.5		ug/L		110	70 - 130
Trichlorofluoromethane	25.0	24.4		ug/L		98	70 - 130
Vinyl chloride	25.0	25.2		ug/L		101	70 - 130
Dibromomethane	25.0	26.9		ug/L		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 480-524475/8

Matrix: Water

Analysis Batch: 524475

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	26.8		ug/L		107	70 - 130	0	20
1,1,1-Trichloroethane	25.0	25.1		ug/L		100	70 - 130	4	20
1,1,1,2-Tetrachloroethane	25.0	22.7		ug/L		91	70 - 130	5	20
1,1,2-Trichloroethane	25.0	25.4		ug/L		102	70 - 130	1	20
1,1-Dichloroethane	25.0	26.5		ug/L		106	70 - 130	4	20
1,1-Dichloroethene	25.0	24.3		ug/L		97	70 - 130	8	20
1,1-Dichloropropene	25.0	26.6		ug/L		106	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	26.5		ug/L		106	70 - 130	3	20
1,2,3-Trichloropropane	25.0	22.8		ug/L		91	70 - 130	3	20
1,2,4-Trichlorobenzene	25.0	26.8		ug/L		107	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	26.4		ug/L		106	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	19.8		ug/L		79	70 - 130	2	20
1,2-Dichlorobenzene	25.0	27.0		ug/L		108	70 - 130	0	20
1,2-Dichloroethane	25.0	26.3		ug/L		105	70 - 130	2	20
1,2-Dichloropropane	25.0	29.1		ug/L		116	70 - 130	2	20
1,3,5-Trimethylbenzene	25.0	25.3		ug/L		101	70 - 130	3	20
1,3-Dichlorobenzene	25.0	26.8		ug/L		107	70 - 130	2	20
1,3-Dichloropropane	25.0	26.6		ug/L		106	70 - 130	2	20
1,4-Dichlorobenzene	25.0	25.9		ug/L		104	70 - 130	4	20
1,4-Dioxane	500	464		ug/L		93	70 - 130	2	20
2,2-Dichloropropane	25.0	25.0		ug/L		100	70 - 130	2	20
2-Butanone (MEK)	125	186	*	ug/L		149	70 - 130	3	20
2-Chlorotoluene	25.0	27.0		ug/L		108	70 - 130	3	20
2-Hexanone	125	103		ug/L		83	70 - 130	5	20
4-Chlorotoluene	25.0	24.2		ug/L		97	70 - 130	0	20
4-Isopropyltoluene	25.0	25.2		ug/L		101	70 - 130	5	20
4-Methyl-2-pentanone (MIBK)	125	104		ug/L		84	70 - 130	3	20
Acetone	125	104		ug/L		83	70 - 130	7	20
Benzene	25.0	26.7		ug/L		107	70 - 130	2	20

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QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

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

Lab Sample ID: LCSD 480-524475/8

Matrix: Water

Analysis Batch: 524475

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
Bromobenzene	25.0	25.8		ug/L		103	70 - 130	2	20
Bromoform	25.0	25.1		ug/L		100	70 - 130	4	20
Bromomethane	25.0	22.4		ug/L		89	70 - 130	5	20
Carbon disulfide	25.0	25.3		ug/L		101	70 - 130	5	20
Carbon tetrachloride	25.0	25.7		ug/L		103	70 - 130	5	20
Chlorobenzene	25.0	26.1		ug/L		104	70 - 130	3	20
Chlorobromomethane	25.0	27.3		ug/L		109	70 - 130	1	20
Chlorodibromomethane	25.0	27.2		ug/L		109	70 - 130	1	20
Chloroethane	25.0	25.0		ug/L		100	70 - 130	5	20
Chloroform	25.0	25.1		ug/L		100	70 - 130	2	20
Chloromethane	25.0	23.2		ug/L		93	70 - 130	6	20
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	70 - 130	4	20
cis-1,3-Dichloropropene	25.0	28.9		ug/L		116	70 - 130	1	20
Dichlorobromomethane	25.0	27.4		ug/L		109	70 - 130	4	20
Dichlorodifluoromethane	25.0	23.5		ug/L		94	70 - 130	4	20
Ethyl ether	25.0	26.7		ug/L		107	70 - 130	1	20
Ethylbenzene	25.0	25.4		ug/L		102	70 - 130	3	20
Ethylene Dibromide	25.0	25.0		ug/L		100	70 - 130	1	20
Hexachlorobutadiene	25.0	24.0		ug/L		96	70 - 130	4	20
Isopropyl ether	25.0	28.2		ug/L		113	70 - 130	4	20
Isopropylbenzene	25.0	25.2		ug/L		101	70 - 130	4	20
Methyl tert-butyl ether	25.0	26.7		ug/L		107	70 - 130	0	20
Methylene Chloride	25.0	26.6		ug/L		107	70 - 130	1	20
m-Xylene & p-Xylene	25.0	26.1		ug/L		104	70 - 130	2	20
Naphthalene	25.0	23.3		ug/L		93	70 - 130	2	20
n-Butylbenzene	25.0	25.4		ug/L		102	70 - 130	3	20
N-Propylbenzene	25.0	25.1		ug/L		101	70 - 130	3	20
o-Xylene	25.0	25.9		ug/L		104	70 - 130	2	20
sec-Butylbenzene	25.0	24.8		ug/L		99	70 - 130	3	20
Styrene	25.0	26.8		ug/L		107	70 - 130	5	20
Tert-amyl methyl ether	25.0	27.4		ug/L		110	70 - 130	1	20
Tert-butyl ethyl ether	25.0	29.2		ug/L		117	70 - 130	0	20
tert-Butylbenzene	25.0	25.8		ug/L		103	70 - 130	3	20
Tetrachloroethene	25.0	27.6		ug/L		110	70 - 130	1	20
Tetrahydrofuran	50.0	54.8		ug/L		110	70 - 130	2	20
Toluene	25.0	25.8		ug/L		103	70 - 130	3	20
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	70 - 130	3	20
trans-1,3-Dichloropropene	25.0	26.9		ug/L		108	70 - 130	1	20
Trichloroethene	25.0	26.5		ug/L		106	70 - 130	4	20
Trichlorofluoromethane	25.0	23.7		ug/L		95	70 - 130	3	20
Vinyl chloride	25.0	23.6		ug/L		94	70 - 130	6	20
Dibromomethane	25.0	26.9		ug/L		108	70 - 130	0	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	107		70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

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

Lab Sample ID: MB 200-153865/1-A
Matrix: Water
Analysis Batch: 153987

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 153865

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/03/20 17:35	04/08/20 23:18	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	77		46 - 130				04/03/20 17:35	04/08/20 23:18	1

Lab Sample ID: LCS 200-153865/2-A
Matrix: Water
Analysis Batch: 153987

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153865

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,4-Dioxane	2.00	1.68		ug/L		84	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits			%Rec.	Limits
1,4-Dioxane-d8 (Surr)	77		46 - 130				

Lab Sample ID: 480-168101-7 MS
Matrix: Water
Analysis Batch: 153987

Client Sample ID: MW-1039-20200401-01
Prep Type: Total/NA
Prep Batch: 153865

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,4-Dioxane	0.26		2.00	1.71		ug/L		72	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits					%Rec.	Limits
1,4-Dioxane-d8 (Surr)	64		46 - 130						

Lab Sample ID: 480-168101-7 MSD
Matrix: Water
Analysis Batch: 153987

Client Sample ID: MW-1039-20200401-01
Prep Type: Total/NA
Prep Batch: 153865

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	0.26		2.00	1.78		ug/L		76	70 - 130	4	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits					%Rec.	Limits	RPD	Limit
1,4-Dioxane-d8 (Surr)	71		46 - 130								

QC Association Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

GC/MS VOA

Analysis Batch: 524475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168101-1	MW-1008-20200401-01	Total/NA	Water	8260C	
480-168101-8	PDB-001-20200401-01	Total/NA	Water	8260C	
480-168101-10	TB-001-20200401-01	Total/NA	Water	8260C	
MB 480-524475/10	Method Blank	Total/NA	Water	8260C	
LCS 480-524475/7	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-524475/8	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 153865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168101-2	MW-1020-20200401-01	Total/NA	Water	522	
480-168101-3	MW-1025M-20200401-01	Total/NA	Water	522	
480-168101-4	MW-1033-20200401-01	Total/NA	Water	522	
480-168101-5	MW-1034-20200401-01	Total/NA	Water	522	
480-168101-6	MW-1036-20200401-01	Total/NA	Water	522	
480-168101-7	MW-1039-20200401-01	Total/NA	Water	522	
480-168101-9	DUP-001-20200401-01	Total/NA	Water	522	
MB 200-153865/1-A	Method Blank	Total/NA	Water	522	
LCS 200-153865/2-A	Lab Control Sample	Total/NA	Water	522	
480-168101-7 MS	MW-1039-20200401-01	Total/NA	Water	522	
480-168101-7 MSD	MW-1039-20200401-01	Total/NA	Water	522	

Analysis Batch: 153987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168101-2	MW-1020-20200401-01	Total/NA	Water	522	153865
480-168101-3	MW-1025M-20200401-01	Total/NA	Water	522	153865
480-168101-4	MW-1033-20200401-01	Total/NA	Water	522	153865
480-168101-5	MW-1034-20200401-01	Total/NA	Water	522	153865
480-168101-6	MW-1036-20200401-01	Total/NA	Water	522	153865
480-168101-7	MW-1039-20200401-01	Total/NA	Water	522	153865
480-168101-9	DUP-001-20200401-01	Total/NA	Water	522	153865
MB 200-153865/1-A	Method Blank	Total/NA	Water	522	153865
LCS 200-153865/2-A	Lab Control Sample	Total/NA	Water	522	153865
480-168101-7 MS	MW-1039-20200401-01	Total/NA	Water	522	153865
480-168101-7 MSD	MW-1039-20200401-01	Total/NA	Water	522	153865

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

Client Sample ID: MW-1008-20200401-01

Lab Sample ID: 480-168101-1

Date Collected: 04/01/20 08:39

Matrix: Water

Date Received: 04/03/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524475	04/06/20 15:34	RJF	TAL BUF

Client Sample ID: MW-1020-20200401-01

Lab Sample ID: 480-168101-2

Date Collected: 04/01/20 14:15

Matrix: Water

Date Received: 04/03/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	522			153865	04/03/20 17:35	EK	TAL BUR
Total/NA	Analysis	522		1	153987	04/09/20 02:04	A1B	TAL BUR

Client Sample ID: MW-1025M-20200401-01

Lab Sample ID: 480-168101-3

Date Collected: 04/01/20 15:05

Matrix: Water

Date Received: 04/03/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	522			153865	04/03/20 17:35	EK	TAL BUR
Total/NA	Analysis	522		1	153987	04/09/20 02:17	A1B	TAL BUR

Client Sample ID: MW-1033-20200401-01

Lab Sample ID: 480-168101-4

Date Collected: 04/01/20 11:55

Matrix: Water

Date Received: 04/03/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	522			153865	04/03/20 17:35	EK	TAL BUR
Total/NA	Analysis	522		1	153987	04/09/20 02:31	A1B	TAL BUR

Client Sample ID: MW-1034-20200401-01

Lab Sample ID: 480-168101-5

Date Collected: 04/01/20 09:50

Matrix: Water

Date Received: 04/03/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	522			153865	04/03/20 17:35	EK	TAL BUR
Total/NA	Analysis	522		1	153987	04/09/20 02:45	A1B	TAL BUR

Client Sample ID: MW-1036-20200401-01

Lab Sample ID: 480-168101-6

Date Collected: 04/01/20 11:05

Matrix: Water

Date Received: 04/03/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	522			153865	04/03/20 17:35	EK	TAL BUR
Total/NA	Analysis	522		1	153987	04/09/20 02:59	A1B	TAL BUR

Lab Chronicle

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

Client Sample ID: MW-1039-20200401-01

Lab Sample ID: 480-168101-7

Date Collected: 04/01/20 12:24

Matrix: Water

Date Received: 04/03/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	522			153865	04/03/20 17:35	EK	TAL BUR
Total/NA	Analysis	522		1	153987	04/09/20 03:12	A1B	TAL BUR

Client Sample ID: PDB-001-20200401-01

Lab Sample ID: 480-168101-8

Date Collected: 04/01/20 15:55

Matrix: Water

Date Received: 04/03/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524475	04/06/20 15:59	RJF	TAL BUF

Client Sample ID: DUP-001-20200401-01

Lab Sample ID: 480-168101-9

Date Collected: 04/01/20 00:01

Matrix: Water

Date Received: 04/03/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	522			153865	04/03/20 17:35	EK	TAL BUR
Total/NA	Analysis	522		1	153987	04/09/20 03:54	A1B	TAL BUR

Client Sample ID: TB-001-20200401-01

Lab Sample ID: 480-168101-10

Date Collected: 04/01/20 00:00

Matrix: Water

Date Received: 04/03/20 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524475	04/06/20 16:22	RJF	TAL BUF

Laboratory References:

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

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

Accreditation/Certification Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-20
California	State	2931	04-01-20 *
Connecticut	State	PH-0568	09-30-20
Florida	NELAP	E87672	06-30-20
Georgia	State	10026 (NY)	04-01-21
Georgia	State Program	N/A	03-31-09 *
Georgia (DW)	State	956	03-31-20 *
Illinois	NELAP	200003	09-30-20
Iowa	State	374	02-28-21
Kansas	NELAP	E-10187	01-31-20 *
Kentucky (DW)	State	90029	12-31-20
Kentucky (UST)	State	30	04-01-21
Kentucky (WW)	State	KY90029	12-31-20
Louisiana	NELAP	02031	06-30-20
Maine	State	NY00044	12-04-20
Maryland	State	294	04-01-21
Massachusetts	State	M-NY044	06-30-20
Michigan	State	9937	03-31-20 *
Michigan	State Program	9937	04-01-09 *
Minnesota	NELAP	1524384	12-31-20
New Hampshire	NELAP	2337	11-18-20
New Jersey	NELAP	NY455	06-30-20
New York	NELAP	10026	04-02-21
North Dakota	State	R-176	03-31-20 *
Oklahoma	State	9421	09-01-20
Oregon	NELAP	NY200003	06-10-20
Pennsylvania	NELAP	68-00281	07-31-20
Rhode Island	State	LAO00328	12-30-20
Tennessee	State	02970	03-31-20 *
Texas	NELAP	T104704412-18-10	08-01-20
USDA	US Federal Programs	P330-18-00039	02-06-21
Virginia	NELAP	460185	09-14-20
Washington	State	C784	02-11-21
Wisconsin	State	998310390	08-31-20

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

Accreditation/Certification Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

Laboratory: Eurofins TestAmerica, Burlington

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-15-20
Florida	NELAP	E87467	06-30-20
Minnesota	NELAP	050-999-436	12-31-20
New Hampshire	NELAP	2006	12-18-20
New Jersey	NELAP	VT972	06-30-20
New York	NELAP	10391	04-01-21
Pennsylvania	NELAP	68-00489	04-30-21
Rhode Island	State	LAO00298	12-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00272	08-09-20
Vermont	State	VT4000	12-31-20
Virginia	NELAP	460209	12-14-20

Method Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
522	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR
5030C	Purge and Trap	SW846	TAL BUF
522	Solid-Phase Extraction (SPE)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

MA DEP = Massachusetts Department Of Environmental Protection

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

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

Sample Summary

Client: ERM-Northeast
Project/Site: IDS Wayland

Job ID: 480-168101-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-168101-1	MW-1008-20200401-01	Water	04/01/20 08:39	04/03/20 09:00	
480-168101-2	MW-1020-20200401-01	Water	04/01/20 14:15	04/03/20 09:00	
480-168101-3	MW-1025M-20200401-01	Water	04/01/20 15:05	04/03/20 09:00	
480-168101-4	MW-1033-20200401-01	Water	04/01/20 11:55	04/03/20 09:00	
480-168101-5	MW-1034-20200401-01	Water	04/01/20 09:50	04/03/20 09:00	
480-168101-6	MW-1036-20200401-01	Water	04/01/20 11:05	04/03/20 09:00	
480-168101-7	MW-1039-20200401-01	Water	04/01/20 12:24	04/03/20 09:00	
480-168101-8	PDB-001-20200401-01	Water	04/01/20 15:55	04/03/20 09:00	
480-168101-9	DUP-001-20200401-01	Water	04/01/20 00:01	04/03/20 09:00	
480-168101-10	TB-001-20200401-01	Water	04/01/20 00:00	04/03/20 09:00	



Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-168101-1

Login Number: 168101

List Number: 1

Creator: Yeager, Brian A

List Source: Eurofins TestAmerica, Buffalo

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

Login Sample Receipt Checklist

Client: ERM-Northeast

Job Number: 480-168101-1

Login Number: 168101

List Number: 2

Creator: Mohn, Taylor J

List Source: Eurofins TestAmerica, Burlington

List Creation: 04/03/20 04:27 PM

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	Seal present with no number.
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Client Information:		Lab P/M: Mason, Becky C		COC No: 41482	
Client Contact: Lyndsey Colburn		E-Mail: becky.mason@testamerica.com		Page: 1 of 1	
Company: ERM - Northeast		Lab COC Barcode Label		Job #:	
Address: One Beacon St 5th floor		Due Date Requested: Standard		Analysis Requested	
City: Boston		Turnaround Time (TAT) Requested (business days):		Preservation Codes:	
State and Zip: MA, 02108		Quote # or Project #:		A - Hydrochloric Acid J - Deionized Water	
Client's Phone:		PO #:		B - Sodium Hydroxide M - Hexane	
Client's Contact Email: lyndsey.colburn@erm.com		WO #:		C - Zinc Acetate N - No Preservative	
Client's Project Name/Number:		PWS ID #:		D - Nitric Acid P - Sodium Sulfate	
Sample Collection Site Name & Location: Weyland, MA		Sample Collection Date (MM/DD/YY)		E - Sodium Bisulfite Q - Sodium Sulfite	
Sample Identification		Sample Collection Time (24 Hour Clock)		F - Methanol R - Sodium Thiosulfate	
Contact sampler with any questions.		Sample Type: C=Comp G=Grab		Acid (specify)	
MW-1008-20200401-01		08:39		Matrix Type **	
MW-1020-20200401-01		14:15		Preservation Codes =>	
MW-1025M-20200401-01		15:05		W	
MW-1033-20200401-01		11:55		N	
MW-1034-20200401-01		09:50		N	
MW-1036-20200401-01		11:05		N	
MW-1039-20200401-01		12:24		N	
PDB-001-20200401-01		15:55		N	
DVP-001-20200401-01		00:01		N	
TB-001-20200401-01				N	
Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		8260MCP-NCP 8260 Analyte List	
S22 - 1,4 Dioxane Low level		8260MCP-NCP 8260 Analyte List		Total Num	
				3	
				1	
				1	
				1	
				1	
				1	
				3 (MS/MSD)	
				3	
				1	
				2	
Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):		Return To Client <input type="checkbox"/> Disposal By Lab <input checked="" type="checkbox"/> Archive For <input type="checkbox"/> Months		Special Instructions & Notes:	
Possible Hazard Identification (please check off each that may apply):		Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological <input type="checkbox"/>		Unless you provide instructions to the contrary, or subcontract labs, without any additional notification made by us, as necessary used, you agree in to fulfill your work order.	
Matrix Types: A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other:		Relinquished by: Paulina Staley		Date/Time: 04/01/20 17:13	
Relinquished by: Paulina Staley		Date/Time: 4-2-20 18:02		Company: ERM	
Relinquished by: Paulina Staley		Date/Time: 4-2-20 18:02		Company: ERM	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 1.7 # FILE	

Boston #215

Chain of Custody Record



TestAmerica Westfield
 501 Southampton Road
 Westfield MA 01085
 Phone: (413) 572-4000 Fax: (303) 467-7247

TestAmerica Boston
 240 Bear Hill Road - Suite 104
 Waltham MA 02451
 Phone: (781) 466-6900 Fax: (781) 466-6901

Client Information:
 Client Contact: *Lyndsey Colburn*
 Company: *ERM - Northeast*

Sample Collector's Name (Please Print Neatly):
Paulina Staley
 Sample Collector's Phone: *978-566-0078*

Lab PIV: *Mason, Becky C*
 E-Mail: *becky.mason@testamerica.com*

COC No: **41482**
 Page: 1 of 1

Address: *One Beacon St 5th Floor*
 City: *Boston*
 State and Zip: *MA, 02108*
 Client's Phone:
 Client's Contact Email: *lyndsey.colburn@erm.com*
 Client's Project Name/Number:
 Sample Collection Site Name & Location:
Wayland, MA

Due Date Requested:
 Turnaround Time (TAT) Requested (business days):
 Quote # or Project #:
 PO #:
 WO #:
 PWS ID #:

Analysis Requested

8260 MCP-MCP 8260 Analyte List

522-1,4 Dioxane low level

480-188101 COC

Sample ID #	Sample Collection Date (MM/DD/YYYY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Preservation Code =>		Total Number of Containers (enter total for each line)	Special Instructions & Notes:
					W	W		
MW-1008-20200401-01	04/01/20	08:39	G	W	W		3	
MW-1020-20200401-01		14:15					1	
MW-1025M-20200401-01		15:05					1	
MW-1033-20200401-01		11:55					1	
MW-1034-20200401-01		09:50					1	
MW-1036-20200401-01		11:05					1	
MW-1039-20200401-01		12:24					3	(MS/MSD)
PDB-001-20200401-01		15:55					3	
DUP-001-20200401-01		00:01					1	
TB-001-20200401-01							2	

Possible Hazard Identification (please check off each that may apply):
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Matrix Types: A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other:

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):
 Return To Client Disposal By Lab Archive For _____ Months

NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!

Relinquished by: <i>Paulina Staley</i>	Date/Time: <i>04/01/20 17:13</i>	Company: <i>ERM</i>
Relinquished by: <i>[Signature]</i>	Date/Time: <i>4-2-20 18:00</i>	Company: <i>[Signature]</i>
Relinquished by: <i>[Signature]</i>	Date/Time: <i>4/13/20 10:35</i>	Company: <i>[Signature]</i>

Received by: *[Signature]* Date/Time: *4/1/20 17:13* Company: *ERM*
 Received by: *Taylor John* Date/Time: *4/13/20 10:35* Company: *ERM*
 Received by: _____ Date/Time: _____ Company: _____

Cooler Temperature(s) °C and Other Remarks: *2.2*

Custody Seal No.: *10802091M42600* NA

Δ Yes Δ No

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

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

SHIP DATE: 02APR20
 ACTWGT: 17.30 LB
 CAD: 590687/CAFE3311

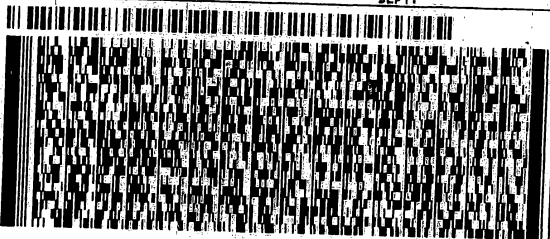
BILL RECIPIENT

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

(802) 660-1980

REF:

DEPT:



FedEx
Express



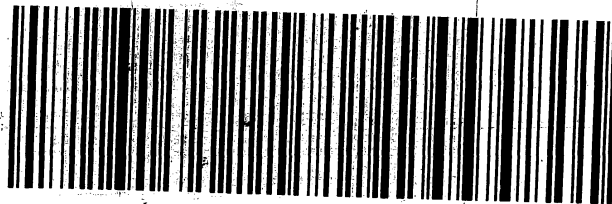
J191219082001NY

TRK# 4258 8395 8106
 0201

FRI - 03 APR 10:30A
PRIORITY OVERNIGHT

NL BTVA

05403
 VT-US BT





ANALYTICAL REPORT

Lab Number:	L2014093
Client:	Innovative Engineering Solutions, Inc. 37 Pearl Street #1 Braintree, MA 02184
ATTN:	Vicki Pariyar
Phone:	(508) 623-1224
Project Name:	RAYTHEON WAYLAND
Project Number:	RA-008
Report Date:	04/07/20

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

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L2014093
Report Date: 04/07/20

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2014093-01	MW-268S-20200401	WATER	WAYLAND, MA	04/01/20 06:20	04/01/20
L2014093-02	MW-268M-20200401	WATER	WAYLAND, MA	04/01/20 07:15	04/01/20
L2014093-03	REW-6-20200331	WATER	WAYLAND, MA	03/31/20 10:35	04/01/20
L2014093-04	REW-7-20200331	WATER	WAYLAND, MA	03/31/20 08:30	04/01/20
L2014093-05	REW-11-20200331	WATER	WAYLAND, MA	03/31/20 09:35	04/01/20
L2014093-06	REW-12-20200331	WATER	WAYLAND, MA	03/31/20 07:25	04/01/20

Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L2014093
Report Date: 04/07/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

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

Please contact Project Management at 800-624-9220 with any questions.

Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L2014093
Report Date: 04/07/20

Case Narrative (continued)

Dissolved Gases

L2014093-01 through -06: The samples were re-analyzed on dilution in order to quantify the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2014093-05: The sample was collected in pre-preserved vials; however, the pH of the sample was determined to be greater than two.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 04/07/20

ORGANICS

VOLATILES

Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L2014093
Report Date: 04/07/20

SAMPLE RESULTS

Lab ID: L2014093-01
 Client ID: MW-268S-20200401
 Sample Location: WAYLAND, MA

Date Collected: 04/01/20 06:20
 Date Received: 04/01/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 04/03/20 09:29
 Analyst: AW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	14900	E	ug/l	1.00	--	1	A
Ethene	10.2		ug/l	0.500	--	1	A
Ethane	4.62		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L2014093
Report Date: 04/07/20

SAMPLE RESULTS

Lab ID: L2014093-01 D
 Client ID: MW-268S-20200401
 Sample Location: WAYLAND, MA

Date Collected: 04/01/20 06:20
 Date Received: 04/01/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 04/03/20 12:45
 Analyst: AW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	14500		ug/l	2.00	--	2	A

Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L2014093
Report Date: 04/07/20

SAMPLE RESULTS

Lab ID: L2014093-02
 Client ID: MW-268M-20200401
 Sample Location: WAYLAND, MA

Date Collected: 04/01/20 07:15
 Date Received: 04/01/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 04/03/20 09:46
 Analyst: AW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	35000	E	ug/l	1.00	--	1	A
Ethene	3.17		ug/l	0.500	--	1	A
Ethane	15.4		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L2014093
Report Date: 04/07/20

SAMPLE RESULTS

Lab ID: L2014093-02 D
 Client ID: MW-268M-20200401
 Sample Location: WAYLAND, MA

Date Collected: 04/01/20 07:15
 Date Received: 04/01/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 04/03/20 13:55
 Analyst: AW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	30500		ug/l	5.00	--	5	A

Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L2014093
Report Date: 04/07/20

SAMPLE RESULTS

Lab ID: L2014093-03
 Client ID: REW-6-20200331
 Sample Location: WAYLAND, MA

Date Collected: 03/31/20 10:35
 Date Received: 04/01/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 04/03/20 10:04
 Analyst: AW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	31500	E	ug/l	1.00	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	4.11		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L2014093
Report Date: 04/07/20

SAMPLE RESULTS

Lab ID: L2014093-03 D
 Client ID: REW-6-20200331
 Sample Location: WAYLAND, MA

Date Collected: 03/31/20 10:35
 Date Received: 04/01/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 04/03/20 13:05
 Analyst: AW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	27900		ug/l	5.00	--	5	A

Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L2014093
Report Date: 04/07/20

SAMPLE RESULTS

Lab ID: L2014093-04
 Client ID: REW-7-20200331
 Sample Location: WAYLAND, MA

Date Collected: 03/31/20 08:30
 Date Received: 04/01/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 04/03/20 10:22
 Analyst: AW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	38300	E	ug/l	1.00	--	1	A
Ethene	ND		ug/l	0.500	--	1	A
Ethane	12.9		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L2014093
Report Date: 04/07/20

SAMPLE RESULTS

Lab ID: L2014093-04 D
 Client ID: REW-7-20200331
 Sample Location: WAYLAND, MA

Date Collected: 03/31/20 08:30
 Date Received: 04/01/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 04/03/20 14:13
 Analyst: AW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	32300		ug/l	5.00	--	5	A

Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L2014093
Report Date: 04/07/20

SAMPLE RESULTS

Lab ID: L2014093-05
 Client ID: REW-11-20200331
 Sample Location: WAYLAND, MA

Date Collected: 03/31/20 09:35
 Date Received: 04/01/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 04/03/20 10:39
 Analyst: AW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	33200	E	ug/l	1.00	--	1	A
Ethene	4.36		ug/l	0.500	--	1	A
Ethane	20.7		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L2014093
Report Date: 04/07/20

SAMPLE RESULTS

Lab ID: L2014093-05 D
 Client ID: REW-11-20200331
 Sample Location: WAYLAND, MA

Date Collected: 03/31/20 09:35
 Date Received: 04/01/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 04/03/20 13:38
 Analyst: AW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	29300		ug/l	5.00	--	5	A

Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L2014093
Report Date: 04/07/20

SAMPLE RESULTS

Lab ID: L2014093-06
 Client ID: REW-12-20200331
 Sample Location: WAYLAND, MA

Date Collected: 03/31/20 07:25
 Date Received: 04/01/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 04/03/20 10:57
 Analyst: AW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	32000	E	ug/l	1.00	--	1	A
Ethene	0.783		ug/l	0.500	--	1	A
Ethane	10.1		ug/l	0.500	--	1	A

Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L2014093
Report Date: 04/07/20

SAMPLE RESULTS

Lab ID: L2014093-06 D
 Client ID: REW-12-20200331
 Sample Location: WAYLAND, MA

Date Collected: 03/31/20 07:25
 Date Received: 04/01/20
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 117,-
 Analytical Date: 04/03/20 13:21
 Analyst: AW

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Dissolved Gases by GC - Mansfield Lab							
Methane	26600		ug/l	5.00	--	5	A

Project Name: RAYTHEON WAYLAND

Lab Number: L2014093

Project Number: RA-008

Report Date: 04/07/20

Method Blank Analysis
Batch Quality Control

Analytical Method: 117,-
Analytical Date: 04/03/20 07:57
Analyst: AW

Parameter	Result	Qualifier	Units	RL	MDL
Dissolved Gases by GC - Mansfield Lab for sample(s): 01-06 Batch: WG1357938-3					
Methane	ND		ug/l	1.00	-- A
Ethene	ND		ug/l	0.500	-- A
Ethane	ND		ug/l	0.500	-- A

Lab Control Sample Analysis

Batch Quality Control

Project Name: RAYTHEON WAYLAND

Project Number: RA-008

Lab Number: L2014093

Report Date: 04/07/20

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Dissolved Gases by GC - Mansfield Lab Associated sample(s): 01-06 Batch: WG1357938-2									
Methane	89		-		80-120	-		25	A
Ethene	100		-		80-120	-		25	A
Ethane	100		-		80-120	-		25	A

Project Name: RAYTHEON WAYLAND**Lab Number:** L2014093**Project Number:** RA-008**Report Date:** 04/07/20**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2014093-01A	Vial HCl preserved	A	NA		2.6	Y	Absent		DISSGAS(14)
L2014093-01B	Vial HCl preserved	A	NA		2.6	Y	Absent		DISSGAS(14)
L2014093-02A	Vial HCl preserved	A	NA		2.6	Y	Absent		DISSGAS(14)
L2014093-02B	Vial HCl preserved	A	NA		2.6	Y	Absent		DISSGAS(14)
L2014093-03A	Vial HCl preserved	A	NA		2.6	Y	Absent		DISSGAS(14)
L2014093-03B	Vial HCl preserved	A	NA		2.6	Y	Absent		DISSGAS(14)
L2014093-04A	Vial HCl preserved	A	NA		2.6	Y	Absent		DISSGAS(14)
L2014093-04B	Vial HCl preserved	A	NA		2.6	Y	Absent		DISSGAS(14)
L2014093-05A	Vial HCl preserved	A	NA		2.6	Y	Absent		DISSGAS(14)
L2014093-05B	Vial HCl preserved	A	NA		2.6	Y	Absent		DISSGAS(14)
L2014093-06A	Vial HCl preserved	A	NA		2.6	Y	Absent		DISSGAS(14)
L2014093-06B	Vial HCl preserved	A	NA		2.6	Y	Absent		DISSGAS(14)

Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L2014093
Report Date: 04/07/20

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report



Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L2014093
Report Date: 04/07/20

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

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Report Format: Data Usability Report



Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L2014093
Report Date: 04/07/20

Data Qualifiers

than 5x the RL. (Metals only.)

- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Project Name: RAYTHEON WAYLAND
Project Number: RA-008

Lab Number: L2014093
Report Date: 04/07/20

REFERENCES

- 117 Technical Guidance for the Natural Attenuation Indicators: Methane, Ethane, and Ethene, EPA-NE, Revision 1, February 21, 2002 and Sample Preparation & Calculations for Dissolved Gas Analysis in Water Samples using a GC Headspace Equilibration Technique, EPA RSKSOP-175, Revision 2, May 2004.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

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

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

EPA TO-12 Non-methane organics

EPA 3C Fixed gases

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.

EPA 522.

Non-Potable Water

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

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

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



CHAIN OF CUSTODY

PAGE 1 OF 1

Date Rec'd in Lab: 4/1/20

ALPHA Job #: L2014093

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

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

Project Information

Project Name: *Reynolds Wayland*
Project Location: *Wayland MA*
Project #: *RA-008*
Project Manager: *Vicki Parry*
ALPHA Quote #:

Report Information - Data Deliverables

ADEx EMAIL

Billing Information

Same as Client info PO #:

Client Information

Client: *Innovative Engineering Solutions*
Address: *37 Pearl St
Barnstable MA 02184*
Phone: *508-668-0033*
Email: *v.parry@FISIonline.com*

Regulatory Requirements & Project Information Requirements

Yes No MA MCP Analytical Methods Yes No CT RCP Analytical Methods
 Yes No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
 Yes No GW1 Standards (Info Required for Metals & EPH with Targets)
 Yes No NPDES RGP
 Other State /Fed Program Criteria *CW-3*

Turn-Around Time

Standard RUSH (only confirmed if pre-approved)
Date Due: *5 days
4/8/20*

Additional Project Information:

ANALYSIS	VOC: <input type="checkbox"/> 8260 <input type="checkbox"/> 624 <input type="checkbox"/> 524.2	SAMPLE INFO	
	SYOC: <input type="checkbox"/> ABN <input type="checkbox"/> PAH		Filtration
	METALS: <input type="checkbox"/> MCP 13 <input type="checkbox"/> MCP 14 <input type="checkbox"/> RCP 15		<input type="checkbox"/> Field
	METALS: <input type="checkbox"/> RCRA5 <input type="checkbox"/> RCRA8		<input type="checkbox"/> Lab to do
EPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only	TPH: <input type="checkbox"/> Quant Only <input type="checkbox"/> Fingerprint	Preservation	
VPH: <input type="checkbox"/> Ranges & Targets <input type="checkbox"/> Ranges Only		<input type="checkbox"/> Lab to do	
<i>Disposal Cases (withhold, 1st hour, rethru)</i>			
		Sample Comments	
		TOTAL # BOTTLES	

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler Initials
		Date	Time		
-01	MW-268S-20200401	4/1/20	0620	CW	bug
-02	MW-268M-20200401	4/1/20	0715	CW	bug
-03	REW-6-20200331	3/31/20	1035	CW	g
-04	REW-7-20200331	3/31/20	0835	CW	g
-05	REW-11-20200331	3/31/20	0935	CW	g
-06	REW-12-20200331	3/31/20	0725	CW	g
	Temp Blank				

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

Preservative
A= None
B= HCl
C= HNO₃
D= H₂SO₄
E= NaOH
F= MeOH
G= NaHSO₄
H= Na₂S₂O₅
I= Ascorbic Acid
J= NH₄Cl
K= Zn Acetate
O= Other

Container Type *V*
Preservative *B*

Relinquished By: *[Signature]* Date/Time: *4/1/20 08:25*
Received By: *[Signature]* Date/Time: *4/1/20 12:15*

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.
FORM NO. 01-01 (rev. 12-Mar-2012)

ANALYTICAL REPORT


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

Laboratory Job ID: 480-167980-1
Client Project/Site: IDS Wayland

For:

Innovative Engineering Solutions, Inc
37 Pearl St
1
Braintree, Massachusetts 02184

Attn: Vicki Pariyar



*Authorized for release by:
4/10/2020 2:16:37 PM*

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

LINKS

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results through
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www.testamericainc.com

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

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

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



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Definitions/Glossary

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

Job ID: 480-167980-1

Qualifiers

GC/MS VOA

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

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

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

Case Narrative

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

Job ID: 480-167980-1

Job ID: 480-167980-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-167980-1

Receipt

The samples were received on 4/1/2020 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3° C.

GC/MS VOA

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

Method 8260C: The following sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples: REW-11-2020 0331 (480-167980-3). Sample pH is 7.

Method 8260C: The following sample was diluted due to the abundance of non-target analytes: REW-11-2020 0331 (480-167980-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) for Acetone, Chlorodibromomethane, and Bromoform associated with batch 480-523857 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following samples were affected : REW-7-2020 0331 (480-167980-2), REW-11-2020 0331 (480-167980-3), REW-12-2020 03131 (480-167980-4) and TRIP BLANKS (480-167980-6).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-523857 exceeded control limits for the following analyte: 2-Butanone and Tetrahydrofuran. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate and Methacrylonitrile in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample. The following samples were affected : REW-7-2020 0331 (480-167980-2), REW-11-2020 0331 (480-167980-3), REW-12-2020 03131 (480-167980-4) and TRIP BLANKS (480-167980-6).

Method 8260C: The continuing calibration verification (CCV) for Tetrachloroethene and Hexachlorobutadiene associated with batch 480-524020 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following sample was affected : DUP 1 (480-167980-5).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-524020 exceeded control limits for the following analyte: 2-Butanone and Tetrahydrofuran. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate and Methacrylonitrile in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample. The following sample was affected : DUP 1 (480-167980-5).

Method 8260C: The continuing calibration verification (CCV) for Acetone and Dichlorodifluoromethane associated with batch 480-524219 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following sample was affected : REW-6-2020 0331 (480-167980-1).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-524219 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

Case Narrative

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

Job ID: 480-167980-1

Job ID: 480-167980-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

distinguished from one another if present in a client sample. The following sample was affected : REW-6-2020 0331 (480-167980-1).

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: REW-6-2020 0331 (480-167980-1). Elevated reporting limits (RLs) are provided.

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

HPLC/IC

Method 300.0: The following samples were reported with elevated reporting limits for all analytes: REW-6-2020 0331 (480-167980-1) and REW-12-2020 03131 (480-167980-4). The sample was analyzed at a dilution based on screening results.

Method 300.0: The following sample was diluted due sample matrix interference: REW-11-2020 0331 (480-167980-3). Elevated reporting limits (RLs) are provided.

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

Metals

Method 6010: At the request of the client, an abbreviated MCP analyte list was reported for this job.

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

General Chemistry

Method 9040C: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: REW-6-2020 0331 (480-167980-1), REW-7-2020 0331 (480-167980-2), REW-11-2020 0331 (480-167980-3) and REW-12-2020 03131 (480-167980-4).

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 #: **480-167980-1**

Project Location: **Wayland MA** RTN:

This form provides certifications for the data set for the following Laboratory Sample ID Number(s):
480-167980-1[1-6]

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

CAM Protocols (check all that apply below):

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

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

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 type="checkbox"/> Yes <input checked="" 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: 4/10/20 14:14

This form has been electronically signed and approved

Detection Summary

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

Job ID: 480-167980-1

Client Sample ID: REW-6-2020 0331

Lab Sample ID: 480-167980-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	2.0		2.0		ug/L	1		8260C	Total/NA
Tetrahydrofuran - DL	240		40		ug/L	4		8260C	Total/NA
Iron	52		0.050		mg/L	1		6010	Total/NA
Chloride	41		2.5		mg/L	5		300.0	Total/NA
Ammonia	5.5		1.0		mg/L	5		350.1	Total/NA
pH	7.0		0.1		SU	1		9040C	Total/NA
Temperature	20.0		0.001		Degrees C	1		9040C	Total/NA
TOC Result 1	3.1		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	2.9		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	3.0		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	640		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.19		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: REW-7-2020 0331

Lab Sample ID: 480-167980-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrahydrofuran	51	*	10		ug/L	1		8260C	Total/NA
Iron	4.7		0.050		mg/L	1		6010	Total/NA
Chloride	7.9		0.50		mg/L	1		300.0	Total/NA
Sulfate	30		2.0		mg/L	1		300.0	Total/NA
Ammonia	0.47		0.20		mg/L	1		350.1	Total/NA
pH	7.0		0.1		SU	1		9040C	Total/NA
Temperature	19.9		0.001		Degrees C	1		9040C	Total/NA
Alkalinity, Total	55		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.21	F1	0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: REW-11-2020 0331

Lab Sample ID: 480-167980-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	1100	*	200		ug/L	20		8260C	Total/NA
Tetrahydrofuran	310	*	200		ug/L	20		8260C	Total/NA
Iron	250		0.050		mg/L	1		6010	Total/NA
Chloride	110		10		mg/L	20		300.0	Total/NA
pH	5.7		0.1		SU	1		9040C	Total/NA
Temperature	20.1		0.001		Degrees C	1		9040C	Total/NA
TOC Result 1	5000		100		mg/L	100		9060A	Total/NA
TOC Result 2	5000		100		mg/L	100		9060A	Total/NA
Total Organic Carbon - Duplicates	5000		100		mg/L	100		9060A	Total/NA
Alkalinity, Total	1400		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.26		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: REW-12-2020 03131

Lab Sample ID: 480-167980-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	3.3		2.0		ug/L	1		8260C	Total/NA
Iron	51		0.050		mg/L	1		6010	Total/NA
Chloride	40		1.0		mg/L	2		300.0	Total/NA
Ammonia	2.6		0.40		mg/L	2		350.1	Total/NA
pH	6.6		0.1		SU	1		9040C	Total/NA
Temperature	20.0		0.001		Degrees C	1		9040C	Total/NA
TOC Result 1	1.5		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	1.4		1.0		mg/L	1		9060A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

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

Job ID: 480-167980-1

Client Sample ID: REW-12-2020 03131 (Continued)

Lab Sample ID: 480-167980-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon - Duplicates	1.4		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	250		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.048		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: DUP 1

Lab Sample ID: 480-167980-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	1.1		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	3.6		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.2		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-167980-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-167980-1

Client Sample ID: REW-6-2020 0331

Lab Sample ID: 480-167980-1

Date Collected: 03/31/20 10:35

Matrix: Water

Date Received: 04/01/20 18:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/03/20 14:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/03/20 14:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/03/20 14:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/03/20 14:49	1
1,1-Dichloroethane	ND		1.0		ug/L			04/03/20 14:49	1
1,1-Dichloroethene	ND		1.0		ug/L			04/03/20 14:49	1
1,1-Dichloropropene	ND		1.0		ug/L			04/03/20 14:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/03/20 14:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/03/20 14:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/03/20 14:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/03/20 14:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/03/20 14:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/03/20 14:49	1
1,2-Dichloroethane	ND		1.0		ug/L			04/03/20 14:49	1
1,2-Dichloropropane	ND		1.0		ug/L			04/03/20 14:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/03/20 14:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/03/20 14:49	1
1,3-Dichloropropane	ND		1.0		ug/L			04/03/20 14:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/03/20 14:49	1
1,4-Dioxane	ND		50		ug/L			04/03/20 14:49	1
2,2-Dichloropropane	ND		1.0		ug/L			04/03/20 14:49	1
2-Butanone (MEK)	ND *		10		ug/L			04/03/20 14:49	1
2-Chlorotoluene	ND		1.0		ug/L			04/03/20 14:49	1
2-Hexanone	ND		10		ug/L			04/03/20 14:49	1
4-Chlorotoluene	ND		1.0		ug/L			04/03/20 14:49	1
4-Isopropyltoluene	ND		1.0		ug/L			04/03/20 14:49	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/03/20 14:49	1
Acetone	ND		50		ug/L			04/03/20 14:49	1
Benzene	ND		1.0		ug/L			04/03/20 14:49	1
Bromobenzene	ND		1.0		ug/L			04/03/20 14:49	1
Bromoform	ND		1.0		ug/L			04/03/20 14:49	1
Bromomethane	ND		2.0		ug/L			04/03/20 14:49	1
Carbon disulfide	ND		10		ug/L			04/03/20 14:49	1
Carbon tetrachloride	ND		1.0		ug/L			04/03/20 14:49	1
Chlorobenzene	ND		1.0		ug/L			04/03/20 14:49	1
Chlorobromomethane	ND		1.0		ug/L			04/03/20 14:49	1
Chlorodibromomethane	ND		0.50		ug/L			04/03/20 14:49	1
Chloroethane	ND		2.0		ug/L			04/03/20 14:49	1
Chloroform	ND		1.0		ug/L			04/03/20 14:49	1
Chloromethane	ND		2.0		ug/L			04/03/20 14:49	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/03/20 14:49	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/03/20 14:49	1
Dichlorobromomethane	ND		0.50		ug/L			04/03/20 14:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/03/20 14:49	1
Ethyl ether	ND		1.0		ug/L			04/03/20 14:49	1
Ethylbenzene	ND		1.0		ug/L			04/03/20 14:49	1
Ethylene Dibromide	ND		1.0		ug/L			04/03/20 14:49	1
Hexachlorobutadiene	ND		0.40		ug/L			04/03/20 14:49	1
Isopropyl ether	ND		10		ug/L			04/03/20 14:49	1

Client Sample Results

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

Job ID: 480-167980-1

Client Sample ID: REW-6-2020 0331

Lab Sample ID: 480-167980-1

Date Collected: 03/31/20 10:35

Matrix: Water

Date Received: 04/01/20 18:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/03/20 14:49	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/03/20 14:49	1
Methylene Chloride	ND		1.0		ug/L			04/03/20 14:49	1
m-Xylene & p-Xylene	2.0		2.0		ug/L			04/03/20 14:49	1
Naphthalene	ND		5.0		ug/L			04/03/20 14:49	1
n-Butylbenzene	ND		1.0		ug/L			04/03/20 14:49	1
N-Propylbenzene	ND		1.0		ug/L			04/03/20 14:49	1
o-Xylene	ND		1.0		ug/L			04/03/20 14:49	1
sec-Butylbenzene	ND		1.0		ug/L			04/03/20 14:49	1
Styrene	ND		1.0		ug/L			04/03/20 14:49	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/03/20 14:49	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/03/20 14:49	1
tert-Butylbenzene	ND		1.0		ug/L			04/03/20 14:49	1
Tetrachloroethene	ND		1.0		ug/L			04/03/20 14:49	1
Toluene	ND		1.0		ug/L			04/03/20 14:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/03/20 14:49	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/03/20 14:49	1
Trichloroethene	ND		1.0		ug/L			04/03/20 14:49	1
Trichlorofluoromethane	ND		1.0		ug/L			04/03/20 14:49	1
Vinyl chloride	ND		1.0		ug/L			04/03/20 14:49	1
Dibromomethane	ND		1.0		ug/L			04/03/20 14:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	106		70 - 130		04/03/20 14:49	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/03/20 14:49	1
4-Bromofluorobenzene (Surr)	110		70 - 130		04/03/20 14:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	240		40		ug/L			04/04/20 15:54	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/04/20 15:54	4
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		04/04/20 15:54	4
4-Bromofluorobenzene (Surr)	108		70 - 130		04/04/20 15:54	4

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	52		0.050		mg/L		04/01/20 18:22	04/02/20 23:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	41		2.5		mg/L			04/02/20 14:44	5
Sulfate	ND		10		mg/L			04/02/20 14:44	5
Ammonia	5.5		1.0		mg/L		04/07/20 07:00	04/07/20 08:59	5
Nitrate as N	ND		0.050		mg/L			04/01/20 16:28	1
TOC Result 1	3.1		1.0		mg/L			04/01/20 22:31	1
TOC Result 2	2.9		1.0		mg/L			04/01/20 22:31	1
Total Organic Carbon - Duplicates	3.0		1.0		mg/L			04/01/20 22:31	1
Alkalinity, Total	640		5.0		mg/L			04/02/20 20:44	1
ortho-Phosphate	0.19		0.020		mg/L			04/01/20 13:26	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-167980-1

Client Sample ID: REW-6-2020 0331

Lab Sample ID: 480-167980-1

Date Collected: 03/31/20 10:35

Matrix: Water

Date Received: 04/01/20 18:03

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.0		0.1		SU			04/01/20 17:11	1
Temperature	20.0		0.001		Degrees C			04/01/20 17:11	1

Client Sample ID: REW-7-2020 0331

Lab Sample ID: 480-167980-2

Date Collected: 03/31/20 08:30

Matrix: Water

Date Received: 04/01/20 18:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/01/20 15:46	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/01/20 15:46	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/01/20 15:46	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/01/20 15:46	1
1,1-Dichloroethane	ND		1.0		ug/L			04/01/20 15:46	1
1,1-Dichloroethene	ND		1.0		ug/L			04/01/20 15:46	1
1,1-Dichloropropene	ND		1.0		ug/L			04/01/20 15:46	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/01/20 15:46	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/01/20 15:46	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/01/20 15:46	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/01/20 15:46	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/01/20 15:46	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/01/20 15:46	1
1,2-Dichloroethane	ND		1.0		ug/L			04/01/20 15:46	1
1,2-Dichloropropane	ND		1.0		ug/L			04/01/20 15:46	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/01/20 15:46	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/01/20 15:46	1
1,3-Dichloropropane	ND		1.0		ug/L			04/01/20 15:46	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/01/20 15:46	1
1,4-Dioxane	ND		50		ug/L			04/01/20 15:46	1
2,2-Dichloropropane	ND		1.0		ug/L			04/01/20 15:46	1
2-Butanone (MEK)	ND	*	10		ug/L			04/01/20 15:46	1
2-Chlorotoluene	ND		1.0		ug/L			04/01/20 15:46	1
2-Hexanone	ND		10		ug/L			04/01/20 15:46	1
4-Chlorotoluene	ND		1.0		ug/L			04/01/20 15:46	1
4-Isopropyltoluene	ND		1.0		ug/L			04/01/20 15:46	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/01/20 15:46	1
Acetone	ND		50		ug/L			04/01/20 15:46	1
Benzene	ND		1.0		ug/L			04/01/20 15:46	1
Bromobenzene	ND		1.0		ug/L			04/01/20 15:46	1
Bromoform	ND		1.0		ug/L			04/01/20 15:46	1
Bromomethane	ND		2.0		ug/L			04/01/20 15:46	1
Carbon disulfide	ND		10		ug/L			04/01/20 15:46	1
Carbon tetrachloride	ND		1.0		ug/L			04/01/20 15:46	1
Chlorobenzene	ND		1.0		ug/L			04/01/20 15:46	1
Chlorobromomethane	ND		1.0		ug/L			04/01/20 15:46	1
Chlorodibromomethane	ND		0.50		ug/L			04/01/20 15:46	1
Chloroethane	ND		2.0		ug/L			04/01/20 15:46	1
Chloroform	ND		1.0		ug/L			04/01/20 15:46	1
Chloromethane	ND		2.0		ug/L			04/01/20 15:46	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/01/20 15:46	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/01/20 15:46	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-167980-1

Client Sample ID: REW-7-2020 0331

Lab Sample ID: 480-167980-2

Date Collected: 03/31/20 08:30

Matrix: Water

Date Received: 04/01/20 18:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50		ug/L			04/01/20 15:46	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/01/20 15:46	1
Ethyl ether	ND		1.0		ug/L			04/01/20 15:46	1
Ethylbenzene	ND		1.0		ug/L			04/01/20 15:46	1
Ethylene Dibromide	ND		1.0		ug/L			04/01/20 15:46	1
Hexachlorobutadiene	ND		0.40		ug/L			04/01/20 15:46	1
Isopropyl ether	ND		10		ug/L			04/01/20 15:46	1
Isopropylbenzene	ND		1.0		ug/L			04/01/20 15:46	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/01/20 15:46	1
Methylene Chloride	ND		1.0		ug/L			04/01/20 15:46	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/01/20 15:46	1
Naphthalene	ND		5.0		ug/L			04/01/20 15:46	1
n-Butylbenzene	ND		1.0		ug/L			04/01/20 15:46	1
N-Propylbenzene	ND		1.0		ug/L			04/01/20 15:46	1
o-Xylene	ND		1.0		ug/L			04/01/20 15:46	1
sec-Butylbenzene	ND		1.0		ug/L			04/01/20 15:46	1
Styrene	ND		1.0		ug/L			04/01/20 15:46	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/01/20 15:46	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/01/20 15:46	1
tert-Butylbenzene	ND		1.0		ug/L			04/01/20 15:46	1
Tetrachloroethene	ND		1.0		ug/L			04/01/20 15:46	1
Tetrahydrofuran	51	*	10		ug/L			04/01/20 15:46	1
Toluene	ND		1.0		ug/L			04/01/20 15:46	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/01/20 15:46	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/01/20 15:46	1
Trichloroethene	ND		1.0		ug/L			04/01/20 15:46	1
Trichlorofluoromethane	ND		1.0		ug/L			04/01/20 15:46	1
Vinyl chloride	ND		1.0		ug/L			04/01/20 15:46	1
Dibromomethane	ND		1.0		ug/L			04/01/20 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		04/01/20 15:46	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		04/01/20 15:46	1
4-Bromofluorobenzene (Surr)	107		70 - 130		04/01/20 15:46	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	4.7		0.050		mg/L		04/01/20 18:22	04/02/20 23:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.9		0.50		mg/L			04/02/20 14:52	1
Sulfate	30		2.0		mg/L			04/02/20 14:52	1
Ammonia	0.47		0.20		mg/L		04/02/20 07:00	04/02/20 12:16	1
Nitrate as N	ND		0.050		mg/L			04/01/20 16:30	1
TOC Result 1	ND		1.0		mg/L			04/01/20 23:32	1
TOC Result 2	ND		1.0		mg/L			04/01/20 23:32	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/01/20 23:32	1
Alkalinity, Total	55		5.0		mg/L			04/02/20 20:50	1
ortho-Phosphate	0.21	F1	0.020		mg/L			04/01/20 13:26	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-167980-1

Client Sample ID: REW-7-2020 0331

Lab Sample ID: 480-167980-2

Date Collected: 03/31/20 08:30

Matrix: Water

Date Received: 04/01/20 18:03

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.0		0.1		SU			04/01/20 17:13	1
Temperature	19.9		0.001		Degrees C			04/01/20 17:13	1

Client Sample ID: REW-11-2020 0331

Lab Sample ID: 480-167980-3

Date Collected: 03/31/20 09:35

Matrix: Water

Date Received: 04/01/20 18:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20		ug/L			04/01/20 16:11	20
1,1,1-Trichloroethane	ND		20		ug/L			04/01/20 16:11	20
1,1,2,2-Tetrachloroethane	ND		10		ug/L			04/01/20 16:11	20
1,1,2-Trichloroethane	ND		20		ug/L			04/01/20 16:11	20
1,1-Dichloroethane	ND		20		ug/L			04/01/20 16:11	20
1,1-Dichloroethene	ND		20		ug/L			04/01/20 16:11	20
1,1-Dichloropropene	ND		20		ug/L			04/01/20 16:11	20
1,2,3-Trichlorobenzene	ND		20		ug/L			04/01/20 16:11	20
1,2,3-Trichloropropane	ND		20		ug/L			04/01/20 16:11	20
1,2,4-Trichlorobenzene	ND		20		ug/L			04/01/20 16:11	20
1,2,4-Trimethylbenzene	ND		20		ug/L			04/01/20 16:11	20
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			04/01/20 16:11	20
1,2-Dichlorobenzene	ND		20		ug/L			04/01/20 16:11	20
1,2-Dichloroethane	ND		20		ug/L			04/01/20 16:11	20
1,2-Dichloropropane	ND		20		ug/L			04/01/20 16:11	20
1,3,5-Trimethylbenzene	ND		20		ug/L			04/01/20 16:11	20
1,3-Dichlorobenzene	ND		20		ug/L			04/01/20 16:11	20
1,3-Dichloropropane	ND		20		ug/L			04/01/20 16:11	20
1,4-Dichlorobenzene	ND		20		ug/L			04/01/20 16:11	20
1,4-Dioxane	ND		1000		ug/L			04/01/20 16:11	20
2,2-Dichloropropane	ND		20		ug/L			04/01/20 16:11	20
2-Butanone (MEK)	1100	*	200		ug/L			04/01/20 16:11	20
2-Chlorotoluene	ND		20		ug/L			04/01/20 16:11	20
2-Hexanone	ND		200		ug/L			04/01/20 16:11	20
4-Chlorotoluene	ND		20		ug/L			04/01/20 16:11	20
4-Isopropyltoluene	ND		20		ug/L			04/01/20 16:11	20
4-Methyl-2-pentanone (MIBK)	ND		200		ug/L			04/01/20 16:11	20
Acetone	ND		1000		ug/L			04/01/20 16:11	20
Benzene	ND		20		ug/L			04/01/20 16:11	20
Bromobenzene	ND		20		ug/L			04/01/20 16:11	20
Bromoform	ND		20		ug/L			04/01/20 16:11	20
Bromomethane	ND		40		ug/L			04/01/20 16:11	20
Carbon disulfide	ND		200		ug/L			04/01/20 16:11	20
Carbon tetrachloride	ND		20		ug/L			04/01/20 16:11	20
Chlorobenzene	ND		20		ug/L			04/01/20 16:11	20
Chlorobromomethane	ND		20		ug/L			04/01/20 16:11	20
Chlorodibromomethane	ND		10		ug/L			04/01/20 16:11	20
Chloroethane	ND		40		ug/L			04/01/20 16:11	20
Chloroform	ND		20		ug/L			04/01/20 16:11	20
Chloromethane	ND		40		ug/L			04/01/20 16:11	20
cis-1,2-Dichloroethene	ND		20		ug/L			04/01/20 16:11	20
cis-1,3-Dichloropropene	ND		8.0		ug/L			04/01/20 16:11	20

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-167980-1

Client Sample ID: REW-11-2020 0331

Lab Sample ID: 480-167980-3

Date Collected: 03/31/20 09:35

Matrix: Water

Date Received: 04/01/20 18:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		10		ug/L			04/01/20 16:11	20
Dichlorodifluoromethane	ND		20		ug/L			04/01/20 16:11	20
Ethyl ether	ND		20		ug/L			04/01/20 16:11	20
Ethylbenzene	ND		20		ug/L			04/01/20 16:11	20
Ethylene Dibromide	ND		20		ug/L			04/01/20 16:11	20
Hexachlorobutadiene	ND		8.0		ug/L			04/01/20 16:11	20
Isopropyl ether	ND		200		ug/L			04/01/20 16:11	20
Isopropylbenzene	ND		20		ug/L			04/01/20 16:11	20
Methyl tert-butyl ether	ND		20		ug/L			04/01/20 16:11	20
Methylene Chloride	ND		20		ug/L			04/01/20 16:11	20
m-Xylene & p-Xylene	ND		40		ug/L			04/01/20 16:11	20
Naphthalene	ND		100		ug/L			04/01/20 16:11	20
n-Butylbenzene	ND		20		ug/L			04/01/20 16:11	20
N-Propylbenzene	ND		20		ug/L			04/01/20 16:11	20
o-Xylene	ND		20		ug/L			04/01/20 16:11	20
sec-Butylbenzene	ND		20		ug/L			04/01/20 16:11	20
Styrene	ND		20		ug/L			04/01/20 16:11	20
Tert-amyl methyl ether	ND		100		ug/L			04/01/20 16:11	20
Tert-butyl ethyl ether	ND		100		ug/L			04/01/20 16:11	20
tert-Butylbenzene	ND		20		ug/L			04/01/20 16:11	20
Tetrachloroethene	ND		20		ug/L			04/01/20 16:11	20
Tetrahydrofuran	310	*	200		ug/L			04/01/20 16:11	20
Toluene	ND		20		ug/L			04/01/20 16:11	20
trans-1,2-Dichloroethene	ND		20		ug/L			04/01/20 16:11	20
trans-1,3-Dichloropropene	ND		8.0		ug/L			04/01/20 16:11	20
Trichloroethene	ND		20		ug/L			04/01/20 16:11	20
Trichlorofluoromethane	ND		20		ug/L			04/01/20 16:11	20
Vinyl chloride	ND		20		ug/L			04/01/20 16:11	20
Dibromomethane	ND		20		ug/L			04/01/20 16:11	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/01/20 16:11	20
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		04/01/20 16:11	20
4-Bromofluorobenzene (Surr)	102		70 - 130		04/01/20 16:11	20

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	250		0.050		mg/L		04/01/20 18:22	04/02/20 23:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		10		mg/L			04/09/20 20:36	20
Sulfate	ND		40		mg/L			04/09/20 20:36	20
Ammonia	ND		0.20		mg/L		04/02/20 07:00	04/02/20 12:20	1
Nitrate as N	ND		0.050		mg/L			04/01/20 16:31	1
TOC Result 1	5000		100		mg/L			04/05/20 01:51	100
TOC Result 2	5000		100		mg/L			04/05/20 01:51	100
Total Organic Carbon - Duplicates	5000		100		mg/L			04/05/20 01:51	100
Alkalinity, Total	1400		5.0		mg/L			04/02/20 21:37	1
ortho-Phosphate	0.26		0.020		mg/L			04/01/20 13:26	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-167980-1

Client Sample ID: REW-11-2020 0331

Lab Sample ID: 480-167980-3

Date Collected: 03/31/20 09:35

Matrix: Water

Date Received: 04/01/20 18:03

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.7		0.1		SU			04/01/20 17:16	1
Temperature	20.1		0.001		Degrees C			04/01/20 17:16	1

Client Sample ID: REW-12-2020 03131

Lab Sample ID: 480-167980-4

Date Collected: 03/31/20 07:25

Matrix: Water

Date Received: 04/01/20 18:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/01/20 16:35	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/01/20 16:35	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/01/20 16:35	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/01/20 16:35	1
1,1-Dichloroethane	ND		1.0		ug/L			04/01/20 16:35	1
1,1-Dichloroethene	ND		1.0		ug/L			04/01/20 16:35	1
1,1-Dichloropropene	ND		1.0		ug/L			04/01/20 16:35	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/01/20 16:35	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/01/20 16:35	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/01/20 16:35	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/01/20 16:35	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/01/20 16:35	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/01/20 16:35	1
1,2-Dichloroethane	ND		1.0		ug/L			04/01/20 16:35	1
1,2-Dichloropropane	ND		1.0		ug/L			04/01/20 16:35	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/01/20 16:35	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/01/20 16:35	1
1,3-Dichloropropane	ND		1.0		ug/L			04/01/20 16:35	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/01/20 16:35	1
1,4-Dioxane	ND		50		ug/L			04/01/20 16:35	1
2,2-Dichloropropane	ND		1.0		ug/L			04/01/20 16:35	1
2-Butanone (MEK)	ND	*	10		ug/L			04/01/20 16:35	1
2-Chlorotoluene	ND		1.0		ug/L			04/01/20 16:35	1
2-Hexanone	ND		10		ug/L			04/01/20 16:35	1
4-Chlorotoluene	ND		1.0		ug/L			04/01/20 16:35	1
4-Isopropyltoluene	ND		1.0		ug/L			04/01/20 16:35	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/01/20 16:35	1
Acetone	ND		50		ug/L			04/01/20 16:35	1
Benzene	ND		1.0		ug/L			04/01/20 16:35	1
Bromobenzene	ND		1.0		ug/L			04/01/20 16:35	1
Bromoform	ND		1.0		ug/L			04/01/20 16:35	1
Bromomethane	ND		2.0		ug/L			04/01/20 16:35	1
Carbon disulfide	ND		10		ug/L			04/01/20 16:35	1
Carbon tetrachloride	ND		1.0		ug/L			04/01/20 16:35	1
Chlorobenzene	ND		1.0		ug/L			04/01/20 16:35	1
Chlorobromomethane	ND		1.0		ug/L			04/01/20 16:35	1
Chlorodibromomethane	ND		0.50		ug/L			04/01/20 16:35	1
Chloroethane	ND		2.0		ug/L			04/01/20 16:35	1
Chloroform	ND		1.0		ug/L			04/01/20 16:35	1
Chloromethane	ND		2.0		ug/L			04/01/20 16:35	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/01/20 16:35	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/01/20 16:35	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-167980-1

Client Sample ID: REW-12-2020 03131

Lab Sample ID: 480-167980-4

Date Collected: 03/31/20 07:25

Matrix: Water

Date Received: 04/01/20 18:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50		ug/L			04/01/20 16:35	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/01/20 16:35	1
Ethyl ether	ND		1.0		ug/L			04/01/20 16:35	1
Ethylbenzene	ND		1.0		ug/L			04/01/20 16:35	1
Ethylene Dibromide	ND		1.0		ug/L			04/01/20 16:35	1
Hexachlorobutadiene	ND		0.40		ug/L			04/01/20 16:35	1
Isopropyl ether	ND		10		ug/L			04/01/20 16:35	1
Isopropylbenzene	ND		1.0		ug/L			04/01/20 16:35	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/01/20 16:35	1
Methylene Chloride	ND		1.0		ug/L			04/01/20 16:35	1
m-Xylene & p-Xylene	3.3		2.0		ug/L			04/01/20 16:35	1
Naphthalene	ND		5.0		ug/L			04/01/20 16:35	1
n-Butylbenzene	ND		1.0		ug/L			04/01/20 16:35	1
N-Propylbenzene	ND		1.0		ug/L			04/01/20 16:35	1
o-Xylene	ND		1.0		ug/L			04/01/20 16:35	1
sec-Butylbenzene	ND		1.0		ug/L			04/01/20 16:35	1
Styrene	ND		1.0		ug/L			04/01/20 16:35	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/01/20 16:35	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/01/20 16:35	1
tert-Butylbenzene	ND		1.0		ug/L			04/01/20 16:35	1
Tetrachloroethene	ND		1.0		ug/L			04/01/20 16:35	1
Tetrahydrofuran	ND *		10		ug/L			04/01/20 16:35	1
Toluene	ND		1.0		ug/L			04/01/20 16:35	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/01/20 16:35	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/01/20 16:35	1
Trichloroethene	ND		1.0		ug/L			04/01/20 16:35	1
Trichlorofluoromethane	ND		1.0		ug/L			04/01/20 16:35	1
Vinyl chloride	ND		1.0		ug/L			04/01/20 16:35	1
Dibromomethane	ND		1.0		ug/L			04/01/20 16:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130					04/01/20 16:35	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130					04/01/20 16:35	1
4-Bromofluorobenzene (Surr)	105		70 - 130					04/01/20 16:35	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	51		0.050		mg/L		04/01/20 18:22	04/02/20 23:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40		1.0		mg/L			04/02/20 15:08	2
Sulfate	ND		4.0		mg/L			04/02/20 15:08	2
Ammonia	2.6		0.40		mg/L		04/02/20 07:00	04/02/20 12:23	2
Nitrate as N	ND		0.050		mg/L			04/01/20 16:32	1
TOC Result 1	1.5		1.0		mg/L			04/02/20 01:04	1
TOC Result 2	1.4		1.0		mg/L			04/02/20 01:04	1
Total Organic Carbon - Duplicates	1.4		1.0		mg/L			04/02/20 01:04	1
Alkalinity, Total	250		5.0		mg/L			04/02/20 21:46	1
ortho-Phosphate	0.048		0.020		mg/L			04/01/20 13:26	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-167980-1

Client Sample ID: REW-12-2020 03131

Lab Sample ID: 480-167980-4

Date Collected: 03/31/20 07:25

Matrix: Water

Date Received: 04/01/20 18:03

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.6		0.1		SU			04/01/20 17:18	1
Temperature	20.0		0.001		Degrees C			04/01/20 17:18	1

Client Sample ID: DUP 1

Lab Sample ID: 480-167980-5

Date Collected: 03/31/20 00:00

Matrix: Water

Date Received: 04/01/20 18:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/02/20 14:09	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/20 14:09	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/20 14:09	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/20 14:09	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/20 14:09	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/20 14:09	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/20 14:09	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/20 14:09	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/20 14:09	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/20 14:09	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/20 14:09	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/20 14:09	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/20 14:09	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/20 14:09	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/20 14:09	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/20 14:09	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/20 14:09	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/20 14:09	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/20 14:09	1
1,4-Dioxane	ND		50		ug/L			04/02/20 14:09	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/20 14:09	1
2-Butanone (MEK)	ND	*	10		ug/L			04/02/20 14:09	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/20 14:09	1
2-Hexanone	ND		10		ug/L			04/02/20 14:09	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/20 14:09	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/20 14:09	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/20 14:09	1
Acetone	ND		50		ug/L			04/02/20 14:09	1
Benzene	ND		1.0		ug/L			04/02/20 14:09	1
Bromobenzene	ND		1.0		ug/L			04/02/20 14:09	1
Bromoform	ND		1.0		ug/L			04/02/20 14:09	1
Bromomethane	ND		2.0		ug/L			04/02/20 14:09	1
Carbon disulfide	ND		10		ug/L			04/02/20 14:09	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/20 14:09	1
Chlorobenzene	ND		1.0		ug/L			04/02/20 14:09	1
Chlorobromomethane	ND		1.0		ug/L			04/02/20 14:09	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/20 14:09	1
Chloroethane	ND		2.0		ug/L			04/02/20 14:09	1
Chloroform	ND		1.0		ug/L			04/02/20 14:09	1
Chloromethane	ND		2.0		ug/L			04/02/20 14:09	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 14:09	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 14:09	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-167980-1

Client Sample ID: DUP 1

Lab Sample ID: 480-167980-5

Date Collected: 03/31/20 00:00

Matrix: Water

Date Received: 04/01/20 18:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	ND		0.50		ug/L			04/02/20 14:09	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/02/20 14:09	1
Ethyl ether	ND		1.0		ug/L			04/02/20 14:09	1
Ethylbenzene	1.1		1.0		ug/L			04/02/20 14:09	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/20 14:09	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/20 14:09	1
Isopropyl ether	ND		10		ug/L			04/02/20 14:09	1
Isopropylbenzene	ND		1.0		ug/L			04/02/20 14:09	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/20 14:09	1
Methylene Chloride	ND		1.0		ug/L			04/02/20 14:09	1
m-Xylene & p-Xylene	3.6		2.0		ug/L			04/02/20 14:09	1
Naphthalene	ND		5.0		ug/L			04/02/20 14:09	1
n-Butylbenzene	ND		1.0		ug/L			04/02/20 14:09	1
N-Propylbenzene	ND		1.0		ug/L			04/02/20 14:09	1
o-Xylene	1.2		1.0		ug/L			04/02/20 14:09	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/20 14:09	1
Styrene	ND		1.0		ug/L			04/02/20 14:09	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/20 14:09	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/20 14:09	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/20 14:09	1
Tetrachloroethene	ND		1.0		ug/L			04/02/20 14:09	1
Tetrahydrofuran	ND *		10		ug/L			04/02/20 14:09	1
Toluene	ND		1.0		ug/L			04/02/20 14:09	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 14:09	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 14:09	1
Trichloroethene	ND		1.0		ug/L			04/02/20 14:09	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/20 14:09	1
Vinyl chloride	ND		1.0		ug/L			04/02/20 14:09	1
Dibromomethane	ND		1.0		ug/L			04/02/20 14:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	108		70 - 130					04/02/20 14:09	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	109		70 - 130					04/02/20 14:09	1
<i>4-Bromofluorobenzene (Surr)</i>	114		70 - 130					04/02/20 14:09	1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-167980-6

Date Collected: 03/31/20 00:00

Matrix: Water

Date Received: 04/01/20 18:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/01/20 17:24	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/01/20 17:24	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/01/20 17:24	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/01/20 17:24	1
1,1-Dichloroethane	ND		1.0		ug/L			04/01/20 17:24	1
1,1-Dichloroethene	ND		1.0		ug/L			04/01/20 17:24	1
1,1-Dichloropropene	ND		1.0		ug/L			04/01/20 17:24	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/01/20 17:24	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/01/20 17:24	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-167980-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-167980-6

Date Collected: 03/31/20 00:00

Matrix: Water

Date Received: 04/01/20 18:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/01/20 17:24	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/01/20 17:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/01/20 17:24	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/01/20 17:24	1
1,2-Dichloroethane	ND		1.0		ug/L			04/01/20 17:24	1
1,2-Dichloropropane	ND		1.0		ug/L			04/01/20 17:24	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/01/20 17:24	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/01/20 17:24	1
1,3-Dichloropropane	ND		1.0		ug/L			04/01/20 17:24	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/01/20 17:24	1
1,4-Dioxane	ND		50		ug/L			04/01/20 17:24	1
2,2-Dichloropropane	ND		1.0		ug/L			04/01/20 17:24	1
2-Butanone (MEK)	ND	*	10		ug/L			04/01/20 17:24	1
2-Chlorotoluene	ND		1.0		ug/L			04/01/20 17:24	1
2-Hexanone	ND		10		ug/L			04/01/20 17:24	1
4-Chlorotoluene	ND		1.0		ug/L			04/01/20 17:24	1
4-Isopropyltoluene	ND		1.0		ug/L			04/01/20 17:24	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/01/20 17:24	1
Acetone	ND		50		ug/L			04/01/20 17:24	1
Benzene	ND		1.0		ug/L			04/01/20 17:24	1
Bromobenzene	ND		1.0		ug/L			04/01/20 17:24	1
Bromoform	ND		1.0		ug/L			04/01/20 17:24	1
Bromomethane	ND		2.0		ug/L			04/01/20 17:24	1
Carbon disulfide	ND		10		ug/L			04/01/20 17:24	1
Carbon tetrachloride	ND		1.0		ug/L			04/01/20 17:24	1
Chlorobenzene	ND		1.0		ug/L			04/01/20 17:24	1
Chlorobromomethane	ND		1.0		ug/L			04/01/20 17:24	1
Chlorodibromomethane	ND		0.50		ug/L			04/01/20 17:24	1
Chloroethane	ND		2.0		ug/L			04/01/20 17:24	1
Chloroform	ND		1.0		ug/L			04/01/20 17:24	1
Chloromethane	ND		2.0		ug/L			04/01/20 17:24	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/01/20 17:24	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/01/20 17:24	1
Dichlorobromomethane	ND		0.50		ug/L			04/01/20 17:24	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/01/20 17:24	1
Ethyl ether	ND		1.0		ug/L			04/01/20 17:24	1
Ethylbenzene	ND		1.0		ug/L			04/01/20 17:24	1
Ethylene Dibromide	ND		1.0		ug/L			04/01/20 17:24	1
Hexachlorobutadiene	ND		0.40		ug/L			04/01/20 17:24	1
Isopropyl ether	ND		10		ug/L			04/01/20 17:24	1
Isopropylbenzene	ND		1.0		ug/L			04/01/20 17:24	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/01/20 17:24	1
Methylene Chloride	ND		1.0		ug/L			04/01/20 17:24	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/01/20 17:24	1
Naphthalene	ND		5.0		ug/L			04/01/20 17:24	1
n-Butylbenzene	ND		1.0		ug/L			04/01/20 17:24	1
N-Propylbenzene	ND		1.0		ug/L			04/01/20 17:24	1
o-Xylene	ND		1.0		ug/L			04/01/20 17:24	1
sec-Butylbenzene	ND		1.0		ug/L			04/01/20 17:24	1

Client Sample Results

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

Job ID: 480-167980-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-167980-6

Date Collected: 03/31/20 00:00

Matrix: Water

Date Received: 04/01/20 18:03

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0		ug/L			04/01/20 17:24	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/01/20 17:24	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/01/20 17:24	1
tert-Butylbenzene	ND		1.0		ug/L			04/01/20 17:24	1
Tetrachloroethene	ND		1.0		ug/L			04/01/20 17:24	1
Tetrahydrofuran	ND	*	10		ug/L			04/01/20 17:24	1
Toluene	ND		1.0		ug/L			04/01/20 17:24	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/01/20 17:24	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/01/20 17:24	1
Trichloroethene	ND		1.0		ug/L			04/01/20 17:24	1
Trichlorofluoromethane	ND		1.0		ug/L			04/01/20 17:24	1
Vinyl chloride	ND		1.0		ug/L			04/01/20 17:24	1
Dibromomethane	ND		1.0		ug/L			04/01/20 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130					04/01/20 17:24	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130					04/01/20 17:24	1
4-Bromofluorobenzene (Surr)	105		70 - 130					04/01/20 17:24	1

Surrogate Summary

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

Job ID: 480-167980-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (70-130)	DCA (70-130)	BFB (70-130)
480-167980-1	REW-6-2020 0331	106	105	110
480-167980-1 - DL	REW-6-2020 0331	100	113	108
480-167980-2	REW-7-2020 0331	101	102	107
480-167980-3	REW-11-2020 0331	99	99	102
480-167980-4	REW-12-2020 03131	99	104	105
480-167980-5	DUP 1	108	109	114
480-167980-6	TRIP BLANKS	97	105	105
LCS 480-523857/5	Lab Control Sample	98	105	106
LCS 480-524020/5	Lab Control Sample	100	109	104
LCS 480-524219/5	Lab Control Sample	99	108	103
LCS 480-524310/5	Lab Control Sample	101	108	111
LCSD 480-523857/9	Lab Control Sample Dup	100	107	106
LCSD 480-524020/6	Lab Control Sample Dup	98	109	104
LCSD 480-524219/6	Lab Control Sample Dup	97	109	107
LCSD 480-524310/6	Lab Control Sample Dup	102	108	111
MB 480-523857/7	Method Blank	101	100	105
MB 480-524020/8	Method Blank	100	105	109
MB 480-524219/8	Method Blank	103	110	109
MB 480-524310/8	Method Blank	102	108	107

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

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

Job ID: 480-167980-1

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

Lab Sample ID: MB 480-523857/7

Matrix: Water

Analysis Batch: 523857

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/01/20 13:36	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/01/20 13:36	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/01/20 13:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/01/20 13:36	1
1,1-Dichloroethane	ND		1.0		ug/L			04/01/20 13:36	1
1,1-Dichloroethene	ND		1.0		ug/L			04/01/20 13:36	1
1,1-Dichloropropene	ND		1.0		ug/L			04/01/20 13:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/01/20 13:36	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/01/20 13:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/01/20 13:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/01/20 13:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/01/20 13:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/01/20 13:36	1
1,2-Dichloroethane	ND		1.0		ug/L			04/01/20 13:36	1
1,2-Dichloropropane	ND		1.0		ug/L			04/01/20 13:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/01/20 13:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/01/20 13:36	1
1,3-Dichloropropane	ND		1.0		ug/L			04/01/20 13:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/01/20 13:36	1
1,4-Dioxane	ND		50		ug/L			04/01/20 13:36	1
2,2-Dichloropropane	ND		1.0		ug/L			04/01/20 13:36	1
2-Butanone (MEK)	ND		10		ug/L			04/01/20 13:36	1
2-Chlorotoluene	ND		1.0		ug/L			04/01/20 13:36	1
2-Hexanone	ND		10		ug/L			04/01/20 13:36	1
4-Chlorotoluene	ND		1.0		ug/L			04/01/20 13:36	1
4-Isopropyltoluene	ND		1.0		ug/L			04/01/20 13:36	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/01/20 13:36	1
Acetone	ND		50		ug/L			04/01/20 13:36	1
Benzene	ND		1.0		ug/L			04/01/20 13:36	1
Bromobenzene	ND		1.0		ug/L			04/01/20 13:36	1
Bromoform	ND		1.0		ug/L			04/01/20 13:36	1
Bromomethane	ND		2.0		ug/L			04/01/20 13:36	1
Carbon disulfide	ND		10		ug/L			04/01/20 13:36	1
Carbon tetrachloride	ND		1.0		ug/L			04/01/20 13:36	1
Chlorobenzene	ND		1.0		ug/L			04/01/20 13:36	1
Chlorobromomethane	ND		1.0		ug/L			04/01/20 13:36	1
Chlorodibromomethane	ND		0.50		ug/L			04/01/20 13:36	1
Chloroethane	ND		2.0		ug/L			04/01/20 13:36	1
Chloroform	ND		1.0		ug/L			04/01/20 13:36	1
Chloromethane	ND		2.0		ug/L			04/01/20 13:36	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/01/20 13:36	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/01/20 13:36	1
Dichlorobromomethane	ND		0.50		ug/L			04/01/20 13:36	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/01/20 13:36	1
Ethyl ether	ND		1.0		ug/L			04/01/20 13:36	1
Ethylbenzene	ND		1.0		ug/L			04/01/20 13:36	1
Ethylene Dibromide	ND		1.0		ug/L			04/01/20 13:36	1
Hexachlorobutadiene	ND		0.40		ug/L			04/01/20 13:36	1

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-167980-1

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

Lab Sample ID: MB 480-523857/7

Matrix: Water

Analysis Batch: 523857

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Isopropyl ether	ND		10		ug/L			04/01/20 13:36	1
Isopropylbenzene	ND		1.0		ug/L			04/01/20 13:36	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/01/20 13:36	1
Methylene Chloride	ND		1.0		ug/L			04/01/20 13:36	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/01/20 13:36	1
Naphthalene	ND		5.0		ug/L			04/01/20 13:36	1
n-Butylbenzene	ND		1.0		ug/L			04/01/20 13:36	1
N-Propylbenzene	ND		1.0		ug/L			04/01/20 13:36	1
o-Xylene	ND		1.0		ug/L			04/01/20 13:36	1
sec-Butylbenzene	ND		1.0		ug/L			04/01/20 13:36	1
Styrene	ND		1.0		ug/L			04/01/20 13:36	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/01/20 13:36	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/01/20 13:36	1
tert-Butylbenzene	ND		1.0		ug/L			04/01/20 13:36	1
Tetrachloroethene	ND		1.0		ug/L			04/01/20 13:36	1
Tetrahydrofuran	ND		10		ug/L			04/01/20 13:36	1
Toluene	ND		1.0		ug/L			04/01/20 13:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/01/20 13:36	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/01/20 13:36	1
Trichloroethene	ND		1.0		ug/L			04/01/20 13:36	1
Trichlorofluoromethane	ND		1.0		ug/L			04/01/20 13:36	1
Vinyl chloride	ND		1.0		ug/L			04/01/20 13:36	1
Dibromomethane	ND		1.0		ug/L			04/01/20 13:36	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	101		70 - 130		04/01/20 13:36	1
1,2-Dichloroethane-d4 (Surr)	100		70 - 130		04/01/20 13:36	1
4-Bromofluorobenzene (Surr)	105		70 - 130		04/01/20 13:36	1

Lab Sample ID: LCS 480-523857/5

Matrix: Water

Analysis Batch: 523857

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	25.9		ug/L		104	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	25.3		ug/L		101	70 - 130
1,1-Dichloroethene	25.0	25.1		ug/L		101	70 - 130
1,1-Dichloropropene	25.0	25.3		ug/L		101	70 - 130
1,2,3-Trichlorobenzene	25.0	27.1		ug/L		108	70 - 130
1,2,3-Trichloropropane	25.0	25.7		ug/L		103	70 - 130
1,2,4-Trichlorobenzene	25.0	26.6		ug/L		106	70 - 130
1,2,4-Trimethylbenzene	25.0	25.7		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	25.5		ug/L		102	70 - 130
1,2-Dichlorobenzene	25.0	25.6		ug/L		102	70 - 130
1,2-Dichloroethane	25.0	24.4		ug/L		98	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-167980-1

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

Lab Sample ID: LCS 480-523857/5

Matrix: Water

Analysis Batch: 523857

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	25.5		ug/L		102	70 - 130
1,3,5-Trimethylbenzene	25.0	25.4		ug/L		102	70 - 130
1,3-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130
1,3-Dichloropropane	25.0	25.5		ug/L		102	70 - 130
1,4-Dichlorobenzene	25.0	25.3		ug/L		101	70 - 130
1,4-Dioxane	500	456		ug/L		91	70 - 130
2,2-Dichloropropane	25.0	25.2		ug/L		101	70 - 130
2-Butanone (MEK)	125	223	*	ug/L		178	70 - 130
2-Chlorotoluene	25.0	25.7		ug/L		103	70 - 130
2-Hexanone	125	122		ug/L		97	70 - 130
4-Chlorotoluene	25.0	24.6		ug/L		99	70 - 130
4-Isopropyltoluene	25.0	26.2		ug/L		105	70 - 130
4-Methyl-2-pentanone (MIBK)	125	124		ug/L		99	70 - 130
Acetone	125	130		ug/L		104	70 - 130
Benzene	25.0	25.3		ug/L		101	70 - 130
Bromobenzene	25.0	25.3		ug/L		101	70 - 130
Bromoform	25.0	29.7		ug/L		119	70 - 130
Bromomethane	25.0	22.8		ug/L		91	70 - 130
Carbon disulfide	25.0	24.9		ug/L		100	70 - 130
Carbon tetrachloride	25.0	27.1		ug/L		108	70 - 130
Chlorobenzene	25.0	26.4		ug/L		106	70 - 130
Chlorobromomethane	25.0	26.8		ug/L		107	70 - 130
Chlorodibromomethane	25.0	30.4		ug/L		122	70 - 130
Chloroethane	25.0	24.1		ug/L		96	70 - 130
Chloroform	25.0	24.4		ug/L		97	70 - 130
Chloromethane	25.0	22.2		ug/L		89	70 - 130
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	70 - 130
cis-1,3-Dichloropropene	25.0	27.2		ug/L		109	70 - 130
Dichlorobromomethane	25.0	27.0		ug/L		108	70 - 130
Dichlorodifluoromethane	25.0	25.1		ug/L		101	70 - 130
Ethyl ether	25.0	24.2		ug/L		97	70 - 130
Ethylbenzene	25.0	26.1		ug/L		105	70 - 130
Ethylene Dibromide	25.0	26.7		ug/L		107	70 - 130
Hexachlorobutadiene	25.0	28.8		ug/L		115	70 - 130
Isopropyl ether	25.0	23.0		ug/L		92	70 - 130
Isopropylbenzene	25.0	25.6		ug/L		102	70 - 130
Methyl tert-butyl ether	25.0	24.9		ug/L		100	70 - 130
Methylene Chloride	25.0	23.9		ug/L		95	70 - 130
m-Xylene & p-Xylene	25.0	26.8		ug/L		107	70 - 130
Naphthalene	25.0	26.2		ug/L		105	70 - 130
n-Butylbenzene	25.0	25.3		ug/L		101	70 - 130
N-Propylbenzene	25.0	25.2		ug/L		101	70 - 130
o-Xylene	25.0	25.8		ug/L		103	70 - 130
sec-Butylbenzene	25.0	25.6		ug/L		102	70 - 130
Styrene	25.0	27.1		ug/L		108	70 - 130
Tert-amyl methyl ether	25.0	23.4		ug/L		94	70 - 130
Tert-butyl ethyl ether	25.0	22.2		ug/L		89	70 - 130
tert-Butylbenzene	25.0	26.1		ug/L		104	70 - 130
Tetrachloroethene	25.0	28.6		ug/L		115	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-167980-1

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

Lab Sample ID: LCS 480-523857/5

Matrix: Water

Analysis Batch: 523857

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrahydrofuran	50.0	64.6		ug/L		129	70 - 130
Toluene	25.0	25.6		ug/L		103	70 - 130
trans-1,2-Dichloroethene	25.0	25.8		ug/L		103	70 - 130
trans-1,3-Dichloropropene	25.0	27.2		ug/L		109	70 - 130
Trichloroethene	25.0	25.7		ug/L		103	70 - 130
Trichlorofluoromethane	25.0	25.7		ug/L		103	70 - 130
Vinyl chloride	25.0	23.4		ug/L		94	70 - 130
Dibromomethane	25.0	25.3		ug/L		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene (Surr)	106		70 - 130

Lab Sample ID: LCSD 480-523857/9

Matrix: Water

Analysis Batch: 523857

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	28.7		ug/L		115	70 - 130	1	20
1,1,1-Trichloroethane	25.0	25.9		ug/L		104	70 - 130	0	20
1,1,1,2,2-Tetrachloroethane	25.0	26.3		ug/L		105	70 - 130	2	20
1,1,1,2-Trichloroethane	25.0	26.2		ug/L		105	70 - 130	0	20
1,1-Dichloroethane	25.0	25.6		ug/L		103	70 - 130	1	20
1,1-Dichloroethane	25.0	24.7		ug/L		99	70 - 130	2	20
1,1-Dichloropropene	25.0	25.4		ug/L		102	70 - 130	1	20
1,2,3-Trichlorobenzene	25.0	27.0		ug/L		108	70 - 130	1	20
1,2,3-Trichloropropane	25.0	26.4		ug/L		105	70 - 130	3	20
1,2,4-Trichlorobenzene	25.0	26.7		ug/L		107	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	25.3		ug/L		101	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	26.2		ug/L		105	70 - 130	3	20
1,2-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	1	20
1,2-Dichloroethane	25.0	25.1		ug/L		101	70 - 130	3	20
1,2-Dichloropropane	25.0	26.0		ug/L		104	70 - 130	2	20
1,3,5-Trimethylbenzene	25.0	25.3		ug/L		101	70 - 130	0	20
1,3-Dichlorobenzene	25.0	25.1		ug/L		101	70 - 130	0	20
1,3-Dichloropropane	25.0	26.0		ug/L		104	70 - 130	2	20
1,4-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130	2	20
1,4-Dioxane	500	509		ug/L		102	70 - 130	11	20
2,2-Dichloropropane	25.0	23.4		ug/L		93	70 - 130	8	20
2-Butanone (MEK)	125	239	*	ug/L		191	70 - 130	7	20
2-Chlorotoluene	25.0	24.7		ug/L		99	70 - 130	4	20
2-Hexanone	125	126		ug/L		101	70 - 130	3	20
4-Chlorotoluene	25.0	29.3		ug/L		117	70 - 130	17	20
4-Isopropyltoluene	25.0	25.9		ug/L		103	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)	125	129		ug/L		103	70 - 130	4	20
Acetone	125	140		ug/L		112	70 - 130	7	20
Benzene	25.0	25.0		ug/L		100	70 - 130	1	20

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-167980-1

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

Lab Sample ID: LCSD 480-523857/9

Matrix: Water

Analysis Batch: 523857

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
Bromobenzene	25.0	25.4		ug/L		102	70 - 130	1	20
Bromoform	25.0	29.6		ug/L		118	70 - 130	0	20
Bromomethane	25.0	22.7		ug/L		91	70 - 130	0	20
Carbon disulfide	25.0	25.0		ug/L		100	70 - 130	0	20
Carbon tetrachloride	25.0	26.7		ug/L		107	70 - 130	2	20
Chlorobenzene	25.0	26.0		ug/L		104	70 - 130	1	20
Chlorobromomethane	25.0	27.1		ug/L		109	70 - 130	1	20
Chlorodibromomethane	25.0	29.5		ug/L		118	70 - 130	3	20
Chloroethane	25.0	22.6		ug/L		90	70 - 130	6	20
Chloroform	25.0	24.2		ug/L		97	70 - 130	0	20
Chloromethane	25.0	22.1		ug/L		88	70 - 130	0	20
cis-1,2-Dichloroethene	25.0	25.7		ug/L		103	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	27.8		ug/L		111	70 - 130	2	20
Dichlorobromomethane	25.0	27.7		ug/L		111	70 - 130	3	20
Dichlorodifluoromethane	25.0	24.3		ug/L		97	70 - 130	3	20
Ethyl ether	25.0	25.6		ug/L		102	70 - 130	6	20
Ethylbenzene	25.0	25.4		ug/L		102	70 - 130	3	20
Ethylene Dibromide	25.0	27.5		ug/L		110	70 - 130	3	20
Hexachlorobutadiene	25.0	28.1		ug/L		113	70 - 130	2	20
Isopropyl ether	25.0	23.6		ug/L		95	70 - 130	3	20
Isopropylbenzene	25.0	25.0		ug/L		100	70 - 130	2	20
Methyl tert-butyl ether	25.0	26.0		ug/L		104	70 - 130	4	20
Methylene Chloride	25.0	23.9		ug/L		96	70 - 130	0	20
m-Xylene & p-Xylene	25.0	26.1		ug/L		104	70 - 130	3	20
Naphthalene	25.0	26.2		ug/L		105	70 - 130	0	20
n-Butylbenzene	25.0	24.7		ug/L		99	70 - 130	2	20
N-Propylbenzene	25.0	24.5		ug/L		98	70 - 130	3	20
o-Xylene	25.0	26.3		ug/L		105	70 - 130	2	20
sec-Butylbenzene	25.0	25.1		ug/L		100	70 - 130	2	20
Styrene	25.0	26.9		ug/L		108	70 - 130	0	20
Tert-amyl methyl ether	25.0	24.5		ug/L		98	70 - 130	5	20
Tert-butyl ethyl ether	25.0	22.7		ug/L		91	70 - 130	2	20
tert-Butylbenzene	25.0	25.7		ug/L		103	70 - 130	1	20
Tetrachloroethene	25.0	28.1		ug/L		112	70 - 130	2	20
Tetrahydrofuran	50.0	69.1 *		ug/L		138	70 - 130	7	20
Toluene	25.0	25.8		ug/L		103	70 - 130	1	20
trans-1,2-Dichloroethene	25.0	25.5		ug/L		102	70 - 130	1	20
trans-1,3-Dichloropropene	25.0	26.9		ug/L		108	70 - 130	1	20
Trichloroethene	25.0	25.2		ug/L		101	70 - 130	2	20
Trichlorofluoromethane	25.0	24.6		ug/L		98	70 - 130	4	20
Vinyl chloride	25.0	23.0		ug/L		92	70 - 130	2	20
Dibromomethane	25.0	25.9		ug/L		104	70 - 130	3	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
4-Bromofluorobenzene (Surr)	106		70 - 130

QC Sample Results

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

Job ID: 480-167980-1

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

Lab Sample ID: MB 480-524020/8

Matrix: Water

Analysis Batch: 524020

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/02/20 13:37	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/20 13:37	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/02/20 13:37	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/20 13:37	1
1,1-Dichloroethane	ND		1.0		ug/L			04/02/20 13:37	1
1,1-Dichloroethene	ND		1.0		ug/L			04/02/20 13:37	1
1,1-Dichloropropene	ND		1.0		ug/L			04/02/20 13:37	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/02/20 13:37	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/02/20 13:37	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/02/20 13:37	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/02/20 13:37	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/02/20 13:37	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/02/20 13:37	1
1,2-Dichloroethane	ND		1.0		ug/L			04/02/20 13:37	1
1,2-Dichloropropane	ND		1.0		ug/L			04/02/20 13:37	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/02/20 13:37	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/02/20 13:37	1
1,3-Dichloropropane	ND		1.0		ug/L			04/02/20 13:37	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/02/20 13:37	1
1,4-Dioxane	ND		50		ug/L			04/02/20 13:37	1
2,2-Dichloropropane	ND		1.0		ug/L			04/02/20 13:37	1
2-Butanone (MEK)	ND		10		ug/L			04/02/20 13:37	1
2-Chlorotoluene	ND		1.0		ug/L			04/02/20 13:37	1
2-Hexanone	ND		10		ug/L			04/02/20 13:37	1
4-Chlorotoluene	ND		1.0		ug/L			04/02/20 13:37	1
4-Isopropyltoluene	ND		1.0		ug/L			04/02/20 13:37	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/02/20 13:37	1
Acetone	ND		50		ug/L			04/02/20 13:37	1
Benzene	ND		1.0		ug/L			04/02/20 13:37	1
Bromobenzene	ND		1.0		ug/L			04/02/20 13:37	1
Bromoform	ND		1.0		ug/L			04/02/20 13:37	1
Bromomethane	ND		2.0		ug/L			04/02/20 13:37	1
Carbon disulfide	ND		10		ug/L			04/02/20 13:37	1
Carbon tetrachloride	ND		1.0		ug/L			04/02/20 13:37	1
Chlorobenzene	ND		1.0		ug/L			04/02/20 13:37	1
Chlorobromomethane	ND		1.0		ug/L			04/02/20 13:37	1
Chlorodibromomethane	ND		0.50		ug/L			04/02/20 13:37	1
Chloroethane	ND		2.0		ug/L			04/02/20 13:37	1
Chloroform	ND		1.0		ug/L			04/02/20 13:37	1
Chloromethane	ND		2.0		ug/L			04/02/20 13:37	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 13:37	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 13:37	1
Dichlorobromomethane	ND		0.50		ug/L			04/02/20 13:37	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/02/20 13:37	1
Ethyl ether	ND		1.0		ug/L			04/02/20 13:37	1
Ethylbenzene	ND		1.0		ug/L			04/02/20 13:37	1
Ethylene Dibromide	ND		1.0		ug/L			04/02/20 13:37	1
Hexachlorobutadiene	ND		0.40		ug/L			04/02/20 13:37	1

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-167980-1

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

Lab Sample ID: MB 480-524020/8

Matrix: Water

Analysis Batch: 524020

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Isopropyl ether	ND		10		ug/L			04/02/20 13:37	1
Isopropylbenzene	ND		1.0		ug/L			04/02/20 13:37	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/02/20 13:37	1
Methylene Chloride	ND		1.0		ug/L			04/02/20 13:37	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/02/20 13:37	1
Naphthalene	ND		5.0		ug/L			04/02/20 13:37	1
n-Butylbenzene	ND		1.0		ug/L			04/02/20 13:37	1
N-Propylbenzene	ND		1.0		ug/L			04/02/20 13:37	1
o-Xylene	ND		1.0		ug/L			04/02/20 13:37	1
sec-Butylbenzene	ND		1.0		ug/L			04/02/20 13:37	1
Styrene	ND		1.0		ug/L			04/02/20 13:37	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/02/20 13:37	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/02/20 13:37	1
tert-Butylbenzene	ND		1.0		ug/L			04/02/20 13:37	1
Tetrachloroethene	ND		1.0		ug/L			04/02/20 13:37	1
Tetrahydrofuran	ND		10		ug/L			04/02/20 13:37	1
Toluene	ND		1.0		ug/L			04/02/20 13:37	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/02/20 13:37	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/02/20 13:37	1
Trichloroethene	ND		1.0		ug/L			04/02/20 13:37	1
Trichlorofluoromethane	ND		1.0		ug/L			04/02/20 13:37	1
Vinyl chloride	ND		1.0		ug/L			04/02/20 13:37	1
Dibromomethane	ND		1.0		ug/L			04/02/20 13:37	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	100		70 - 130		04/02/20 13:37	1
1,2-Dichloroethane-d4 (Surr)	105		70 - 130		04/02/20 13:37	1
4-Bromofluorobenzene (Surr)	109		70 - 130		04/02/20 13:37	1

Lab Sample ID: LCS 480-524020/5

Matrix: Water

Analysis Batch: 524020

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	26.9		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	25.0	26.4		ug/L		106	70 - 130
1,1,2-Trichloroethane	25.0	27.0		ug/L		108	70 - 130
1,1-Dichloroethane	25.0	26.6		ug/L		106	70 - 130
1,1-Dichloroethene	25.0	25.5		ug/L		102	70 - 130
1,1-Dichloropropene	25.0	26.5		ug/L		106	70 - 130
1,2,3-Trichlorobenzene	25.0	27.5		ug/L		110	70 - 130
1,2,3-Trichloropropane	25.0	27.3		ug/L		109	70 - 130
1,2,4-Trichlorobenzene	25.0	27.9		ug/L		112	70 - 130
1,2,4-Trimethylbenzene	25.0	26.7		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.3		ug/L		97	70 - 130
1,2-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,2-Dichloroethane	25.0	26.2		ug/L		105	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-167980-1

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

Lab Sample ID: LCS 480-524020/5

Matrix: Water

Analysis Batch: 524020

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	26.3		ug/L		105	70 - 130
1,3-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,3-Dichloropropane	25.0	26.5		ug/L		106	70 - 130
1,4-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,4-Dioxane	500	577		ug/L		115	70 - 130
2,2-Dichloropropane	25.0	25.2		ug/L		101	70 - 130
2-Butanone (MEK)	125	241 *		ug/L		192	70 - 130
2-Chlorotoluene	25.0	26.1		ug/L		104	70 - 130
2-Hexanone	125	125		ug/L		100	70 - 130
4-Chlorotoluene	25.0	29.1		ug/L		117	70 - 130
4-Isopropyltoluene	25.0	26.5		ug/L		106	70 - 130
4-Methyl-2-pentanone (MIBK)	125	128		ug/L		103	70 - 130
Acetone	125	149		ug/L		119	70 - 130
Benzene	25.0	26.3		ug/L		105	70 - 130
Bromobenzene	25.0	26.8		ug/L		107	70 - 130
Bromoform	25.0	27.1		ug/L		108	70 - 130
Bromomethane	25.0	23.6		ug/L		95	70 - 130
Carbon disulfide	25.0	26.1		ug/L		104	70 - 130
Carbon tetrachloride	25.0	27.1		ug/L		108	70 - 130
Chlorobenzene	25.0	27.0		ug/L		108	70 - 130
Chlorobromomethane	25.0	28.5		ug/L		114	70 - 130
Chlorodibromomethane	25.0	29.0		ug/L		116	70 - 130
Chloroethane	25.0	24.4		ug/L		98	70 - 130
Chloroform	25.0	25.2		ug/L		101	70 - 130
Chloromethane	25.0	22.3		ug/L		89	70 - 130
cis-1,2-Dichloroethene	25.0	26.2		ug/L		105	70 - 130
cis-1,3-Dichloropropene	25.0	27.6		ug/L		110	70 - 130
Dichlorobromomethane	25.0	27.3		ug/L		109	70 - 130
Dichlorodifluoromethane	25.0	24.1		ug/L		96	70 - 130
Ethyl ether	25.0	26.1		ug/L		104	70 - 130
Ethylbenzene	25.0	26.6		ug/L		106	70 - 130
Ethylene Dibromide	25.0	27.2		ug/L		109	70 - 130
Hexachlorobutadiene	25.0	28.7		ug/L		115	70 - 130
Isopropyl ether	25.0	24.2		ug/L		97	70 - 130
Isopropylbenzene	25.0	26.2		ug/L		105	70 - 130
Methyl tert-butyl ether	25.0	26.3		ug/L		105	70 - 130
Methylene Chloride	25.0	25.0		ug/L		100	70 - 130
m-Xylene & p-Xylene	25.0	27.2		ug/L		109	70 - 130
Naphthalene	25.0	26.6		ug/L		106	70 - 130
n-Butylbenzene	25.0	25.9		ug/L		104	70 - 130
N-Propylbenzene	25.0	26.0		ug/L		104	70 - 130
o-Xylene	25.0	27.1		ug/L		109	70 - 130
sec-Butylbenzene	25.0	26.6		ug/L		107	70 - 130
Styrene	25.0	27.7		ug/L		111	70 - 130
Tert-amyl methyl ether	25.0	25.7		ug/L		103	70 - 130
Tert-butyl ethyl ether	25.0	23.0		ug/L		92	70 - 130
tert-Butylbenzene	25.0	27.4		ug/L		110	70 - 130
Tetrachloroethene	25.0	30.5		ug/L		122	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-167980-1

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

Lab Sample ID: LCS 480-524020/5

Matrix: Water

Analysis Batch: 524020

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrahydrofuran	50.0	71.1	*	ug/L		142	70 - 130
Toluene	25.0	26.6		ug/L		106	70 - 130
trans-1,2-Dichloroethene	25.0	26.7		ug/L		107	70 - 130
trans-1,3-Dichloropropene	25.0	26.5		ug/L		106	70 - 130
Trichloroethene	25.0	27.3		ug/L		109	70 - 130
Trichlorofluoromethane	25.0	25.0		ug/L		100	70 - 130
Vinyl chloride	25.0	23.4		ug/L		93	70 - 130
Dibromomethane	25.0	26.3		ug/L		105	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 480-524020/6

Matrix: Water

Analysis Batch: 524020

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	26.5		ug/L		106	70 - 130	7	20
1,1,1-Trichloroethane	25.0	25.6		ug/L		102	70 - 130	5	20
1,1,1,2-Tetrachloroethane	25.0	25.5		ug/L		102	70 - 130	3	20
1,1,2-Trichloroethane	25.0	24.9		ug/L		99	70 - 130	8	20
1,1-Dichloroethane	25.0	25.3		ug/L		101	70 - 130	5	20
1,1-Dichloroethane	25.0	24.3		ug/L		97	70 - 130	5	20
1,1-Dichloropropene	25.0	25.5		ug/L		102	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	25.9		ug/L		104	70 - 130	6	20
1,2,3-Trichloropropane	25.0	25.5		ug/L		102	70 - 130	7	20
1,2,4-Trichlorobenzene	25.0	25.9		ug/L		104	70 - 130	7	20
1,2,4-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130	9	20
1,2-Dibromo-3-Chloropropane	25.0	23.8		ug/L		95	70 - 130	2	20
1,2-Dichlorobenzene	25.0	24.7		ug/L		99	70 - 130	5	20
1,2-Dichloroethane	25.0	25.1		ug/L		100	70 - 130	4	20
1,2-Dichloropropane	25.0	25.8		ug/L		103	70 - 130	3	20
1,3,5-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130	7	20
1,3-Dichlorobenzene	25.0	24.0		ug/L		96	70 - 130	8	20
1,3-Dichloropropane	25.0	25.4		ug/L		102	70 - 130	4	20
1,4-Dichlorobenzene	25.0	24.9		ug/L		99	70 - 130	5	20
1,4-Dioxane	500	598		ug/L		120	70 - 130	4	20
2,2-Dichloropropane	25.0	24.8		ug/L		99	70 - 130	2	20
2-Butanone (MEK)	125	241	*	ug/L		193	70 - 130	0	20
2-Chlorotoluene	25.0	24.5		ug/L		98	70 - 130	6	20
2-Hexanone	125	124		ug/L		99	70 - 130	1	20
4-Chlorotoluene	25.0	28.5		ug/L		114	70 - 130	2	20
4-Isopropyltoluene	25.0	24.7		ug/L		99	70 - 130	7	20
4-Methyl-2-pentanone (MIBK)	125	124		ug/L		99	70 - 130	4	20
Acetone	125	148		ug/L		119	70 - 130	1	20
Benzene	25.0	25.6		ug/L		102	70 - 130	3	20

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-167980-1

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

Lab Sample ID: LCSD 480-524020/6

Matrix: Water

Analysis Batch: 524020

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
Bromobenzene	25.0	25.0		ug/L		100	70 - 130	7	20
Bromoform	25.0	26.8		ug/L		107	70 - 130	1	20
Bromomethane	25.0	22.5		ug/L		90	70 - 130	5	20
Carbon disulfide	25.0	24.7		ug/L		99	70 - 130	6	20
Carbon tetrachloride	25.0	25.7		ug/L		103	70 - 130	5	20
Chlorobenzene	25.0	25.5		ug/L		102	70 - 130	6	20
Chlorobromomethane	25.0	27.5		ug/L		110	70 - 130	4	20
Chlorodibromomethane	25.0	27.2		ug/L		109	70 - 130	7	20
Chloroethane	25.0	22.4		ug/L		90	70 - 130	8	20
Chloroform	25.0	24.4		ug/L		97	70 - 130	3	20
Chloromethane	25.0	21.1		ug/L		85	70 - 130	6	20
cis-1,2-Dichloroethene	25.0	25.2		ug/L		101	70 - 130	4	20
cis-1,3-Dichloropropene	25.0	27.6		ug/L		110	70 - 130	0	20
Dichlorobromomethane	25.0	26.6		ug/L		106	70 - 130	3	20
Dichlorodifluoromethane	25.0	23.0		ug/L		92	70 - 130	4	20
Ethyl ether	25.0	25.6		ug/L		102	70 - 130	2	20
Ethylbenzene	25.0	25.0		ug/L		100	70 - 130	6	20
Ethylene Dibromide	25.0	26.5		ug/L		106	70 - 130	2	20
Hexachlorobutadiene	25.0	27.1		ug/L		108	70 - 130	6	20
Isopropyl ether	25.0	24.2		ug/L		97	70 - 130	0	20
Isopropylbenzene	25.0	24.7		ug/L		99	70 - 130	6	20
Methyl tert-butyl ether	25.0	25.8		ug/L		103	70 - 130	2	20
Methylene Chloride	25.0	24.1		ug/L		96	70 - 130	4	20
m-Xylene & p-Xylene	25.0	25.4		ug/L		101	70 - 130	7	20
Naphthalene	25.0	25.4		ug/L		102	70 - 130	4	20
n-Butylbenzene	25.0	23.7		ug/L		95	70 - 130	9	20
N-Propylbenzene	25.0	23.9		ug/L		96	70 - 130	8	20
o-Xylene	25.0	25.0		ug/L		100	70 - 130	8	20
sec-Butylbenzene	25.0	24.3		ug/L		97	70 - 130	9	20
Styrene	25.0	25.7		ug/L		103	70 - 130	8	20
Tert-amyl methyl ether	25.0	24.9		ug/L		100	70 - 130	3	20
Tert-butyl ethyl ether	25.0	22.8		ug/L		91	70 - 130	1	20
tert-Butylbenzene	25.0	24.7		ug/L		99	70 - 130	10	20
Tetrachloroethene	25.0	27.2		ug/L		109	70 - 130	11	20
Tetrahydrofuran	50.0	71.2	*	ug/L		142	70 - 130	0	20
Toluene	25.0	24.9		ug/L		100	70 - 130	7	20
trans-1,2-Dichloroethene	25.0	25.0		ug/L		100	70 - 130	7	20
trans-1,3-Dichloropropene	25.0	25.9		ug/L		104	70 - 130	2	20
Trichloroethene	25.0	25.8		ug/L		103	70 - 130	5	20
Trichlorofluoromethane	25.0	23.4		ug/L		94	70 - 130	6	20
Vinyl chloride	25.0	22.0		ug/L		88	70 - 130	6	20
Dibromomethane	25.0	25.3		ug/L		101	70 - 130	4	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130

QC Sample Results

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

Job ID: 480-167980-1

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

Lab Sample ID: MB 480-524219/8

Matrix: Water

Analysis Batch: 524219

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/03/20 14:14	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/03/20 14:14	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/03/20 14:14	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/03/20 14:14	1
1,1-Dichloroethane	ND		1.0		ug/L			04/03/20 14:14	1
1,1-Dichloroethene	ND		1.0		ug/L			04/03/20 14:14	1
1,1-Dichloropropene	ND		1.0		ug/L			04/03/20 14:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/03/20 14:14	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/03/20 14:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/03/20 14:14	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/03/20 14:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/03/20 14:14	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/03/20 14:14	1
1,2-Dichloroethane	ND		1.0		ug/L			04/03/20 14:14	1
1,2-Dichloropropane	ND		1.0		ug/L			04/03/20 14:14	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/03/20 14:14	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/03/20 14:14	1
1,3-Dichloropropane	ND		1.0		ug/L			04/03/20 14:14	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/03/20 14:14	1
1,4-Dioxane	ND		50		ug/L			04/03/20 14:14	1
2,2-Dichloropropane	ND		1.0		ug/L			04/03/20 14:14	1
2-Butanone (MEK)	ND		10		ug/L			04/03/20 14:14	1
2-Chlorotoluene	ND		1.0		ug/L			04/03/20 14:14	1
2-Hexanone	ND		10		ug/L			04/03/20 14:14	1
4-Chlorotoluene	ND		1.0		ug/L			04/03/20 14:14	1
4-Isopropyltoluene	ND		1.0		ug/L			04/03/20 14:14	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/03/20 14:14	1
Acetone	ND		50		ug/L			04/03/20 14:14	1
Benzene	ND		1.0		ug/L			04/03/20 14:14	1
Bromobenzene	ND		1.0		ug/L			04/03/20 14:14	1
Bromoform	ND		1.0		ug/L			04/03/20 14:14	1
Bromomethane	ND		2.0		ug/L			04/03/20 14:14	1
Carbon disulfide	ND		10		ug/L			04/03/20 14:14	1
Carbon tetrachloride	ND		1.0		ug/L			04/03/20 14:14	1
Chlorobenzene	ND		1.0		ug/L			04/03/20 14:14	1
Chlorobromomethane	ND		1.0		ug/L			04/03/20 14:14	1
Chlorodibromomethane	ND		0.50		ug/L			04/03/20 14:14	1
Chloroethane	ND		2.0		ug/L			04/03/20 14:14	1
Chloroform	ND		1.0		ug/L			04/03/20 14:14	1
Chloromethane	ND		2.0		ug/L			04/03/20 14:14	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/03/20 14:14	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/03/20 14:14	1
Dichlorobromomethane	ND		0.50		ug/L			04/03/20 14:14	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/03/20 14:14	1
Ethyl ether	ND		1.0		ug/L			04/03/20 14:14	1
Ethylbenzene	ND		1.0		ug/L			04/03/20 14:14	1
Ethylene Dibromide	ND		1.0		ug/L			04/03/20 14:14	1
Hexachlorobutadiene	ND		0.40		ug/L			04/03/20 14:14	1

QC Sample Results

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

Job ID: 480-167980-1

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

Lab Sample ID: MB 480-524219/8

Matrix: Water

Analysis Batch: 524219

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Isopropyl ether	ND		10		ug/L			04/03/20 14:14	1
Isopropylbenzene	ND		1.0		ug/L			04/03/20 14:14	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/03/20 14:14	1
Methylene Chloride	ND		1.0		ug/L			04/03/20 14:14	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/03/20 14:14	1
Naphthalene	ND		5.0		ug/L			04/03/20 14:14	1
n-Butylbenzene	ND		1.0		ug/L			04/03/20 14:14	1
N-Propylbenzene	ND		1.0		ug/L			04/03/20 14:14	1
o-Xylene	ND		1.0		ug/L			04/03/20 14:14	1
sec-Butylbenzene	ND		1.0		ug/L			04/03/20 14:14	1
Styrene	ND		1.0		ug/L			04/03/20 14:14	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/03/20 14:14	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/03/20 14:14	1
tert-Butylbenzene	ND		1.0		ug/L			04/03/20 14:14	1
Tetrachloroethene	ND		1.0		ug/L			04/03/20 14:14	1
Tetrahydrofuran	ND		10		ug/L			04/03/20 14:14	1
Toluene	ND		1.0		ug/L			04/03/20 14:14	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/03/20 14:14	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/03/20 14:14	1
Trichloroethene	ND		1.0		ug/L			04/03/20 14:14	1
Trichlorofluoromethane	ND		1.0		ug/L			04/03/20 14:14	1
Vinyl chloride	ND		1.0		ug/L			04/03/20 14:14	1
Dibromomethane	ND		1.0		ug/L			04/03/20 14:14	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	103		70 - 130		04/03/20 14:14	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/03/20 14:14	1
4-Bromofluorobenzene (Surr)	109		70 - 130		04/03/20 14:14	1

Lab Sample ID: LCS 480-524219/5

Matrix: Water

Analysis Batch: 524219

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	27.5		ug/L		110	70 - 130
1,1,2,2-Tetrachloroethane	25.0	27.3		ug/L		109	70 - 130
1,1,2-Trichloroethane	25.0	25.9		ug/L		103	70 - 130
1,1-Dichloroethane	25.0	27.7		ug/L		111	70 - 130
1,1-Dichloroethene	25.0	28.0		ug/L		112	70 - 130
1,1-Dichloropropene	25.0	27.7		ug/L		111	70 - 130
1,2,3-Trichlorobenzene	25.0	29.7		ug/L		119	70 - 130
1,2,3-Trichloropropane	25.0	27.7		ug/L		111	70 - 130
1,2,4-Trichlorobenzene	25.0	29.5		ug/L		118	70 - 130
1,2,4-Trimethylbenzene	25.0	28.3		ug/L		113	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.7		ug/L		99	70 - 130
1,2-Dichlorobenzene	25.0	27.4		ug/L		109	70 - 130
1,2-Dichloroethane	25.0	26.1		ug/L		104	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-167980-1

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

Lab Sample ID: LCS 480-524219/5

Matrix: Water

Analysis Batch: 524219

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	27.0		ug/L		108	70 - 130
1,3,5-Trimethylbenzene	25.0	27.6		ug/L		110	70 - 130
1,3-Dichlorobenzene	25.0	27.0		ug/L		108	70 - 130
1,3-Dichloropropane	25.0	26.2		ug/L		105	70 - 130
1,4-Dichlorobenzene	25.0	27.5		ug/L		110	70 - 130
1,4-Dioxane	500	611		ug/L		122	70 - 130
2,2-Dichloropropane	25.0	26.6		ug/L		107	70 - 130
2-Butanone (MEK)	125	235 *		ug/L		188	70 - 130
2-Chlorotoluene	25.0	27.8		ug/L		111	70 - 130
2-Hexanone	125	122		ug/L		98	70 - 130
4-Chlorotoluene	25.0	30.9		ug/L		123	70 - 130
4-Isopropyltoluene	25.0	27.8		ug/L		111	70 - 130
4-Methyl-2-pentanone (MIBK)	125	127		ug/L		102	70 - 130
Acetone	125	156		ug/L		124	70 - 130
Benzene	25.0	27.2		ug/L		109	70 - 130
Bromobenzene	25.0	28.0		ug/L		112	70 - 130
Bromoform	25.0	27.3		ug/L		109	70 - 130
Bromomethane	25.0	25.7		ug/L		103	70 - 130
Carbon disulfide	25.0	27.7		ug/L		111	70 - 130
Carbon tetrachloride	25.0	27.9		ug/L		112	70 - 130
Chlorobenzene	25.0	26.9		ug/L		108	70 - 130
Chlorobromomethane	25.0	28.7		ug/L		115	70 - 130
Chlorodibromomethane	25.0	28.8		ug/L		115	70 - 130
Chloroethane	25.0	26.1		ug/L		104	70 - 130
Chloroform	25.0	26.4		ug/L		106	70 - 130
Chloromethane	25.0	25.9		ug/L		104	70 - 130
cis-1,2-Dichloroethene	25.0	28.1		ug/L		113	70 - 130
cis-1,3-Dichloropropene	25.0	28.0		ug/L		112	70 - 130
Dichlorobromomethane	25.0	27.5		ug/L		110	70 - 130
Dichlorodifluoromethane	25.0	31.5		ug/L		126	70 - 130
Ethyl ether	25.0	26.4		ug/L		106	70 - 130
Ethylbenzene	25.0	27.0		ug/L		108	70 - 130
Ethylene Dibromide	25.0	26.9		ug/L		108	70 - 130
Hexachlorobutadiene	25.0	29.8		ug/L		119	70 - 130
Isopropyl ether	25.0	25.9		ug/L		104	70 - 130
Isopropylbenzene	25.0	28.0		ug/L		112	70 - 130
Methyl tert-butyl ether	25.0	27.2		ug/L		109	70 - 130
Methylene Chloride	25.0	26.4		ug/L		106	70 - 130
m-Xylene & p-Xylene	25.0	27.0		ug/L		108	70 - 130
Naphthalene	25.0	28.8		ug/L		115	70 - 130
n-Butylbenzene	25.0	27.2		ug/L		109	70 - 130
N-Propylbenzene	25.0	27.5		ug/L		110	70 - 130
o-Xylene	25.0	27.1		ug/L		109	70 - 130
sec-Butylbenzene	25.0	27.8		ug/L		111	70 - 130
Styrene	25.0	27.8		ug/L		111	70 - 130
Tert-amyl methyl ether	25.0	27.3		ug/L		109	70 - 130
Tert-butyl ethyl ether	25.0	24.8		ug/L		99	70 - 130
tert-Butylbenzene	25.0	28.4		ug/L		114	70 - 130
Tetrachloroethene	25.0	30.0		ug/L		120	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-167980-1

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

Lab Sample ID: LCS 480-524219/5

Matrix: Water

Analysis Batch: 524219

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrahydrofuran	50.0	70.8	*	ug/L		142	70 - 130
Toluene	25.0	27.4		ug/L		109	70 - 130
trans-1,2-Dichloroethene	25.0	28.5		ug/L		114	70 - 130
trans-1,3-Dichloropropene	25.0	27.2		ug/L		109	70 - 130
Trichloroethene	25.0	27.6		ug/L		110	70 - 130
Trichlorofluoromethane	25.0	27.8		ug/L		111	70 - 130
Vinyl chloride	25.0	27.6		ug/L		110	70 - 130
Dibromomethane	25.0	27.2		ug/L		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 480-524219/6

Matrix: Water

Analysis Batch: 524219

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	27.1		ug/L		108	70 - 130	3	20
1,1,1-Trichloroethane	25.0	26.5		ug/L		106	70 - 130	4	20
1,1,1,2,2-Tetrachloroethane	25.0	25.6		ug/L		102	70 - 130	7	20
1,1,2-Trichloroethane	25.0	25.7		ug/L		103	70 - 130	1	20
1,1-Dichloroethane	25.0	26.1		ug/L		104	70 - 130	6	20
1,1-Dichloroethene	25.0	24.8		ug/L		99	70 - 130	12	20
1,1-Dichloropropene	25.0	26.7		ug/L		107	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	25.7		ug/L		103	70 - 130	14	20
1,2,3-Trichloropropane	25.0	25.4		ug/L		102	70 - 130	9	20
1,2,4-Trichlorobenzene	25.0	26.2		ug/L		105	70 - 130	12	20
1,2,4-Trimethylbenzene	25.0	25.7		ug/L		103	70 - 130	10	20
1,2-Dibromo-3-Chloropropane	25.0	24.0		ug/L		96	70 - 130	3	20
1,2-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	8	20
1,2-Dichloroethane	25.0	25.3		ug/L		101	70 - 130	3	20
1,2-Dichloropropane	25.0	27.2		ug/L		109	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	25.4		ug/L		102	70 - 130	8	20
1,3-Dichlorobenzene	25.0	25.8		ug/L		103	70 - 130	4	20
1,3-Dichloropropane	25.0	25.7		ug/L		103	70 - 130	2	20
1,4-Dichlorobenzene	25.0	26.1		ug/L		104	70 - 130	5	20
1,4-Dioxane	500	506		ug/L		101	70 - 130	19	20
2,2-Dichloropropane	25.0	25.1		ug/L		101	70 - 130	6	20
2-Butanone (MEK)	125	249	*	ug/L		199	70 - 130	6	20
2-Chlorotoluene	25.0	25.8		ug/L		103	70 - 130	7	20
2-Hexanone	125	126		ug/L		101	70 - 130	3	20
4-Chlorotoluene	25.0	28.2		ug/L		113	70 - 130	9	20
4-Isopropyltoluene	25.0	25.3		ug/L		101	70 - 130	9	20
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		98	70 - 130	4	20
Acetone	125	131		ug/L		105	70 - 130	17	20
Benzene	25.0	26.4		ug/L		106	70 - 130	3	20

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-167980-1

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

Lab Sample ID: LCSD 480-524219/6

Matrix: Water

Analysis Batch: 524219

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
Bromobenzene	25.0	26.1		ug/L		104	70 - 130	7	20
Bromoform	25.0	26.5		ug/L		106	70 - 130	3	20
Bromomethane	25.0	25.4		ug/L		101	70 - 130	1	20
Carbon disulfide	25.0	25.2		ug/L		101	70 - 130	10	20
Carbon tetrachloride	25.0	26.7		ug/L		107	70 - 130	4	20
Chlorobenzene	25.0	25.7		ug/L		103	70 - 130	5	20
Chlorobromomethane	25.0	27.4		ug/L		110	70 - 130	4	20
Chlorodibromomethane	25.0	27.0		ug/L		108	70 - 130	6	20
Chloroethane	25.0	25.1		ug/L		101	70 - 130	4	20
Chloroform	25.0	24.6		ug/L		98	70 - 130	7	20
Chloromethane	25.0	24.0		ug/L		96	70 - 130	8	20
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	70 - 130	10	20
cis-1,3-Dichloropropene	25.0	28.5		ug/L		114	70 - 130	2	20
Dichlorobromomethane	25.0	27.4		ug/L		109	70 - 130	0	20
Dichlorodifluoromethane	25.0	29.5		ug/L		118	70 - 130	6	20
Ethyl ether	25.0	26.0		ug/L		104	70 - 130	2	20
Ethylbenzene	25.0	25.6		ug/L		103	70 - 130	5	20
Ethylene Dibromide	25.0	26.3		ug/L		105	70 - 130	2	20
Hexachlorobutadiene	25.0	26.6		ug/L		107	70 - 130	11	20
Isopropyl ether	25.0	25.2		ug/L		101	70 - 130	3	20
Isopropylbenzene	25.0	25.6		ug/L		103	70 - 130	9	20
Methyl tert-butyl ether	25.0	25.3		ug/L		101	70 - 130	7	20
Methylene Chloride	25.0	24.2		ug/L		97	70 - 130	9	20
m-Xylene & p-Xylene	25.0	25.7		ug/L		103	70 - 130	5	20
Naphthalene	25.0	25.2		ug/L		101	70 - 130	13	20
n-Butylbenzene	25.0	24.8		ug/L		99	70 - 130	9	20
N-Propylbenzene	25.0	25.2		ug/L		101	70 - 130	9	20
o-Xylene	25.0	25.5		ug/L		102	70 - 130	6	20
sec-Butylbenzene	25.0	25.1		ug/L		101	70 - 130	10	20
Styrene	25.0	27.2		ug/L		109	70 - 130	2	20
Tert-amyl methyl ether	25.0	24.4		ug/L		97	70 - 130	11	20
Tert-butyl ethyl ether	25.0	23.2		ug/L		93	70 - 130	7	20
tert-Butylbenzene	25.0	26.2		ug/L		105	70 - 130	8	20
Tetrachloroethene	25.0	28.5		ug/L		114	70 - 130	5	20
Tetrahydrofuran	50.0	67.9	*	ug/L		136	70 - 130	4	20
Toluene	25.0	25.9		ug/L		103	70 - 130	6	20
trans-1,2-Dichloroethene	25.0	26.5		ug/L		106	70 - 130	7	20
trans-1,3-Dichloropropene	25.0	26.1		ug/L		104	70 - 130	4	20
Trichloroethene	25.0	26.7		ug/L		107	70 - 130	3	20
Trichlorofluoromethane	25.0	26.2		ug/L		105	70 - 130	6	20
Vinyl chloride	25.0	24.9		ug/L		100	70 - 130	10	20
Dibromomethane	25.0	26.1		ug/L		105	70 - 130	4	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	107		70 - 130

QC Sample Results

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

Job ID: 480-167980-1

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

Lab Sample ID: MB 480-524310/8

Matrix: Water

Analysis Batch: 524310

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/04/20 14:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/04/20 14:34	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/04/20 14:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/04/20 14:34	1
1,1-Dichloroethane	ND		1.0		ug/L			04/04/20 14:34	1
1,1-Dichloroethene	ND		1.0		ug/L			04/04/20 14:34	1
1,1-Dichloropropene	ND		1.0		ug/L			04/04/20 14:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/04/20 14:34	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/04/20 14:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/04/20 14:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/04/20 14:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/04/20 14:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/04/20 14:34	1
1,2-Dichloroethane	ND		1.0		ug/L			04/04/20 14:34	1
1,2-Dichloropropane	ND		1.0		ug/L			04/04/20 14:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/04/20 14:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/04/20 14:34	1
1,3-Dichloropropane	ND		1.0		ug/L			04/04/20 14:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/04/20 14:34	1
1,4-Dioxane	ND		50		ug/L			04/04/20 14:34	1
2,2-Dichloropropane	ND		1.0		ug/L			04/04/20 14:34	1
2-Butanone (MEK)	ND		10		ug/L			04/04/20 14:34	1
2-Chlorotoluene	ND		1.0		ug/L			04/04/20 14:34	1
2-Hexanone	ND		10		ug/L			04/04/20 14:34	1
4-Chlorotoluene	ND		1.0		ug/L			04/04/20 14:34	1
4-Isopropyltoluene	ND		1.0		ug/L			04/04/20 14:34	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/04/20 14:34	1
Acetone	ND		50		ug/L			04/04/20 14:34	1
Benzene	ND		1.0		ug/L			04/04/20 14:34	1
Bromobenzene	ND		1.0		ug/L			04/04/20 14:34	1
Bromoform	ND		1.0		ug/L			04/04/20 14:34	1
Bromomethane	ND		2.0		ug/L			04/04/20 14:34	1
Carbon disulfide	ND		10		ug/L			04/04/20 14:34	1
Carbon tetrachloride	ND		1.0		ug/L			04/04/20 14:34	1
Chlorobenzene	ND		1.0		ug/L			04/04/20 14:34	1
Chlorobromomethane	ND		1.0		ug/L			04/04/20 14:34	1
Chlorodibromomethane	ND		0.50		ug/L			04/04/20 14:34	1
Chloroethane	ND		2.0		ug/L			04/04/20 14:34	1
Chloroform	ND		1.0		ug/L			04/04/20 14:34	1
Chloromethane	ND		2.0		ug/L			04/04/20 14:34	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/04/20 14:34	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/04/20 14:34	1
Dichlorobromomethane	ND		0.50		ug/L			04/04/20 14:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/04/20 14:34	1
Ethyl ether	ND		1.0		ug/L			04/04/20 14:34	1
Ethylbenzene	ND		1.0		ug/L			04/04/20 14:34	1
Ethylene Dibromide	ND		1.0		ug/L			04/04/20 14:34	1
Hexachlorobutadiene	ND		0.40		ug/L			04/04/20 14:34	1

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-167980-1

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

Lab Sample ID: MB 480-524310/8

Matrix: Water

Analysis Batch: 524310

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Isopropyl ether	ND		10		ug/L			04/04/20 14:34	1
Isopropylbenzene	ND		1.0		ug/L			04/04/20 14:34	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/04/20 14:34	1
Methylene Chloride	ND		1.0		ug/L			04/04/20 14:34	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/04/20 14:34	1
Naphthalene	ND		5.0		ug/L			04/04/20 14:34	1
n-Butylbenzene	ND		1.0		ug/L			04/04/20 14:34	1
N-Propylbenzene	ND		1.0		ug/L			04/04/20 14:34	1
o-Xylene	ND		1.0		ug/L			04/04/20 14:34	1
sec-Butylbenzene	ND		1.0		ug/L			04/04/20 14:34	1
Styrene	ND		1.0		ug/L			04/04/20 14:34	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/04/20 14:34	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/04/20 14:34	1
tert-Butylbenzene	ND		1.0		ug/L			04/04/20 14:34	1
Tetrachloroethene	ND		1.0		ug/L			04/04/20 14:34	1
Tetrahydrofuran	ND		10		ug/L			04/04/20 14:34	1
Toluene	ND		1.0		ug/L			04/04/20 14:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/04/20 14:34	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/04/20 14:34	1
Trichloroethene	ND		1.0		ug/L			04/04/20 14:34	1
Trichlorofluoromethane	ND		1.0		ug/L			04/04/20 14:34	1
Vinyl chloride	ND		1.0		ug/L			04/04/20 14:34	1
Dibromomethane	ND		1.0		ug/L			04/04/20 14:34	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Toluene-d8 (Surr)	102		70 - 130		04/04/20 14:34	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		04/04/20 14:34	1
4-Bromofluorobenzene (Surr)	107		70 - 130		04/04/20 14:34	1

Lab Sample ID: LCS 480-524310/5

Matrix: Water

Analysis Batch: 524310

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	24.7		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.2		ug/L		93	70 - 130
1,1,2-Trichloroethane	25.0	25.6		ug/L		102	70 - 130
1,1-Dichloroethane	25.0	26.1		ug/L		104	70 - 130
1,1-Dichloroethene	25.0	23.2		ug/L		93	70 - 130
1,1-Dichloropropene	25.0	25.9		ug/L		104	70 - 130
1,2,3-Trichlorobenzene	25.0	26.6		ug/L		106	70 - 130
1,2,3-Trichloropropane	25.0	23.9		ug/L		96	70 - 130
1,2,4-Trichlorobenzene	25.0	26.5		ug/L		106	70 - 130
1,2,4-Trimethylbenzene	25.0	25.7		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	20.9		ug/L		84	70 - 130
1,2-Dichlorobenzene	25.0	26.4		ug/L		106	70 - 130
1,2-Dichloroethane	25.0	25.8		ug/L		103	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-167980-1

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

Lab Sample ID: LCS 480-524310/5

Matrix: Water

Analysis Batch: 524310

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	27.5		ug/L		110	70 - 130
1,3,5-Trimethylbenzene	25.0	24.8		ug/L		99	70 - 130
1,3-Dichlorobenzene	25.0	26.1		ug/L		105	70 - 130
1,3-Dichloropropane	25.0	26.0		ug/L		104	70 - 130
1,4-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,4-Dioxane	500	584		ug/L		117	70 - 130
2,2-Dichloropropane	25.0	24.9		ug/L		100	70 - 130
2-Butanone (MEK)	125	201 *		ug/L		161	70 - 130
2-Chlorotoluene	25.0	26.0		ug/L		104	70 - 130
2-Hexanone	125	110		ug/L		88	70 - 130
4-Chlorotoluene	25.0	23.6		ug/L		94	70 - 130
4-Isopropyltoluene	25.0	25.0		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	125	110		ug/L		88	70 - 130
Acetone	125	115		ug/L		92	70 - 130
Benzene	25.0	26.1		ug/L		104	70 - 130
Bromobenzene	25.0	25.9		ug/L		104	70 - 130
Bromoform	25.0	25.0		ug/L		100	70 - 130
Bromomethane	25.0	24.7		ug/L		99	70 - 130
Carbon disulfide	25.0	23.8		ug/L		95	70 - 130
Carbon tetrachloride	25.0	24.2		ug/L		97	70 - 130
Chlorobenzene	25.0	25.9		ug/L		104	70 - 130
Chlorobromomethane	25.0	26.9		ug/L		107	70 - 130
Chlorodibromomethane	25.0	26.5		ug/L		106	70 - 130
Chloroethane	25.0	26.4		ug/L		106	70 - 130
Chloroform	25.0	24.9		ug/L		100	70 - 130
Chloromethane	25.0	23.8		ug/L		95	70 - 130
cis-1,2-Dichloroethene	25.0	25.9		ug/L		104	70 - 130
cis-1,3-Dichloropropene	25.0	28.3		ug/L		113	70 - 130
Dichlorobromomethane	25.0	27.2		ug/L		109	70 - 130
Dichlorodifluoromethane	25.0	22.0		ug/L		88	70 - 130
Ethyl ether	25.0	25.9		ug/L		103	70 - 130
Ethylbenzene	25.0	25.0		ug/L		100	70 - 130
Ethylene Dibromide	25.0	24.5		ug/L		98	70 - 130
Hexachlorobutadiene	25.0	24.2		ug/L		97	70 - 130
Isopropyl ether	25.0	28.9		ug/L		116	70 - 130
Isopropylbenzene	25.0	24.6		ug/L		98	70 - 130
Methyl tert-butyl ether	25.0	26.3		ug/L		105	70 - 130
Methylene Chloride	25.0	26.5		ug/L		106	70 - 130
m-Xylene & p-Xylene	25.0	25.2		ug/L		101	70 - 130
Naphthalene	25.0	23.9		ug/L		96	70 - 130
n-Butylbenzene	25.0	24.7		ug/L		99	70 - 130
N-Propylbenzene	25.0	24.4		ug/L		98	70 - 130
o-Xylene	25.0	25.3		ug/L		101	70 - 130
sec-Butylbenzene	25.0	23.6		ug/L		95	70 - 130
Styrene	25.0	26.7		ug/L		107	70 - 130
Tert-amyl methyl ether	25.0	29.0		ug/L		116	70 - 130
Tert-butyl ethyl ether	25.0	29.2		ug/L		117	70 - 130
tert-Butylbenzene	25.0	25.4		ug/L		101	70 - 130
Tetrachloroethene	25.0	27.1		ug/L		108	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-167980-1

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

Lab Sample ID: LCS 480-524310/5

Matrix: Water

Analysis Batch: 524310

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrahydrofuran	50.0	58.2		ug/L		116	70 - 130
Toluene	25.0	25.4		ug/L		101	70 - 130
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	70 - 130
trans-1,3-Dichloropropene	25.0	26.0		ug/L		104	70 - 130
Trichloroethene	25.0	26.3		ug/L		105	70 - 130
Trichlorofluoromethane	25.0	22.9		ug/L		92	70 - 130
Vinyl chloride	25.0	23.8		ug/L		95	70 - 130
Dibromomethane	25.0	26.0		ug/L		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 480-524310/6

Matrix: Water

Analysis Batch: 524310

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	4	20
1,1,1-Trichloroethane	25.0	23.8		ug/L		95	70 - 130	4	20
1,1,1,2-Tetrachloroethane	25.0	23.0		ug/L		92	70 - 130	1	20
1,1,2-Trichloroethane	25.0	25.8		ug/L		103	70 - 130	1	20
1,1-Dichloroethane	25.0	25.8		ug/L		103	70 - 130	1	20
1,1-Dichloroethene	25.0	22.4		ug/L		89	70 - 130	4	20
1,1-Dichloropropene	25.0	25.0		ug/L		100	70 - 130	3	20
1,2,3-Trichlorobenzene	25.0	26.5		ug/L		106	70 - 130	0	20
1,2,3-Trichloropropane	25.0	23.9		ug/L		95	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	27.1		ug/L		108	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	24.9		ug/L		99	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	21.0		ug/L		84	70 - 130	1	20
1,2-Dichlorobenzene	25.0	25.9		ug/L		104	70 - 130	2	20
1,2-Dichloroethane	25.0	25.6		ug/L		102	70 - 130	1	20
1,2-Dichloropropane	25.0	26.8		ug/L		107	70 - 130	2	20
1,3,5-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130	1	20
1,3-Dichlorobenzene	25.0	26.1		ug/L		104	70 - 130	0	20
1,3-Dichloropropane	25.0	26.2		ug/L		105	70 - 130	1	20
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	4	20
1,4-Dioxane	500	608		ug/L		122	70 - 130	4	20
2,2-Dichloropropane	25.0	24.0		ug/L		96	70 - 130	4	20
2-Butanone (MEK)	125	201	*	ug/L		161	70 - 130	0	20
2-Chlorotoluene	25.0	25.8		ug/L		103	70 - 130	1	20
2-Hexanone	125	112		ug/L		90	70 - 130	1	20
4-Chlorotoluene	25.0	23.0		ug/L		92	70 - 130	3	20
4-Isopropyltoluene	25.0	24.3		ug/L		97	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	125	111		ug/L		89	70 - 130	1	20
Acetone	125	116		ug/L		93	70 - 130	1	20
Benzene	25.0	25.5		ug/L		102	70 - 130	2	20

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-167980-1

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

Lab Sample ID: LCSD 480-524310/6

Matrix: Water

Analysis Batch: 524310

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
Bromobenzene	25.0	25.9		ug/L		104	70 - 130	0	20
Bromoform	25.0	25.8		ug/L		103	70 - 130	3	20
Bromomethane	25.0	23.2		ug/L		93	70 - 130	7	20
Carbon disulfide	25.0	23.1		ug/L		92	70 - 130	3	20
Carbon tetrachloride	25.0	23.4		ug/L		94	70 - 130	4	20
Chlorobenzene	25.0	25.7		ug/L		103	70 - 130	1	20
Chlorobromomethane	25.0	26.2		ug/L		105	70 - 130	3	20
Chlorodibromomethane	25.0	26.6		ug/L		106	70 - 130	0	20
Chloroethane	25.0	25.2		ug/L		101	70 - 130	5	20
Chloroform	25.0	24.6		ug/L		99	70 - 130	1	20
Chloromethane	25.0	22.9		ug/L		92	70 - 130	4	20
cis-1,2-Dichloroethene	25.0	25.4		ug/L		102	70 - 130	2	20
cis-1,3-Dichloropropene	25.0	27.5		ug/L		110	70 - 130	3	20
Dichlorobromomethane	25.0	27.2		ug/L		109	70 - 130	0	20
Dichlorodifluoromethane	25.0	21.1		ug/L		84	70 - 130	4	20
Ethyl ether	25.0	25.5		ug/L		102	70 - 130	1	20
Ethylbenzene	25.0	24.6		ug/L		98	70 - 130	2	20
Ethylene Dibromide	25.0	25.7		ug/L		103	70 - 130	5	20
Hexachlorobutadiene	25.0	23.8		ug/L		95	70 - 130	1	20
Isopropyl ether	25.0	28.5		ug/L		114	70 - 130	1	20
Isopropylbenzene	25.0	24.0		ug/L		96	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	3	20
m-Xylene & p-Xylene	25.0	25.0		ug/L		100	70 - 130	1	20
Naphthalene	25.0	24.0		ug/L		96	70 - 130	0	20
n-Butylbenzene	25.0	24.1		ug/L		96	70 - 130	3	20
N-Propylbenzene	25.0	23.7		ug/L		95	70 - 130	3	20
o-Xylene	25.0	25.2		ug/L		101	70 - 130	1	20
sec-Butylbenzene	25.0	23.4		ug/L		94	70 - 130	1	20
Styrene	25.0	26.5		ug/L		106	70 - 130	1	20
Tert-amyl methyl ether	25.0	28.6		ug/L		114	70 - 130	1	20
Tert-butyl ethyl ether	25.0	28.5		ug/L		114	70 - 130	2	20
tert-Butylbenzene	25.0	24.9		ug/L		100	70 - 130	2	20
Tetrachloroethene	25.0	26.4		ug/L		106	70 - 130	3	20
Tetrahydrofuran	50.0	59.0		ug/L		118	70 - 130	1	20
Toluene	25.0	24.8		ug/L		99	70 - 130	2	20
trans-1,2-Dichloroethene	25.0	24.3		ug/L		97	70 - 130	4	20
trans-1,3-Dichloropropene	25.0	26.6		ug/L		106	70 - 130	2	20
Trichloroethene	25.0	26.1		ug/L		104	70 - 130	1	20
Trichlorofluoromethane	25.0	21.9		ug/L		88	70 - 130	4	20
Vinyl chloride	25.0	22.6		ug/L		90	70 - 130	5	20
Dibromomethane	25.0	26.1		ug/L		104	70 - 130	0	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	111		70 - 130

QC Sample Results

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

Job ID: 480-167980-1

Method: 6010 - Metals (ICP)

Lab Sample ID: MB 480-523883/1-A
Matrix: Water
Analysis Batch: 524189

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 523883

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050		mg/L		04/01/20 18:22	04/02/20 22:20	1

Lab Sample ID: LCS 480-523883/2-A
Matrix: Water
Analysis Batch: 524189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 523883

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

Lab Sample ID: LCSD 480-523883/24-A
Matrix: Water
Analysis Batch: 524189

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 523883

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-524053/4
Matrix: Water
Analysis Batch: 524053

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			04/02/20 14:36	1
Sulfate	ND		2.0		mg/L			04/02/20 14:36	1

Lab Sample ID: LCS 480-524053/3
Matrix: Water
Analysis Batch: 524053

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.7		mg/L		99	90 - 110
Sulfate	50.0	47.1		mg/L		94	90 - 110

Lab Sample ID: MB 480-524730/4
Matrix: Water
Analysis Batch: 524730

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			04/09/20 20:22	1
Sulfate	ND		2.0		mg/L			04/09/20 20:22	1

Lab Sample ID: LCS 480-524730/3
Matrix: Water
Analysis Batch: 524730

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.3		mg/L		99	90 - 110
Sulfate	50.0	49.7		mg/L		99	90 - 110

QC Sample Results

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

Job ID: 480-167980-1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: 480-167980-2 MS
Matrix: Water
Analysis Batch: 524044

Client Sample ID: REW-7-2020 0331
Prep Type: Total/NA
Prep Batch: 524026

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	0.47		0.200	0.689		mg/L		107	90 - 110

Lab Sample ID: MB 480-524044/73
Matrix: Water
Analysis Batch: 524044

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L			04/02/20 11:39	1

Lab Sample ID: LCS 480-524044/74
Matrix: Water
Analysis Batch: 524044

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.990		mg/L		99	90 - 110

Lab Sample ID: MB 480-524658/17
Matrix: Water
Analysis Batch: 524658

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L			04/07/20 08:48	1

Lab Sample ID: LCS 480-524658/18
Matrix: Water
Analysis Batch: 524658

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	1.00		mg/L		100	90 - 110

Method: 9040C - pH

Lab Sample ID: 480-167980-4 DU
Matrix: Water
Analysis Batch: 524011

Client Sample ID: REW-12-2020 03131
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.6		6.7		SU		0.5	5
Temperature	20.0		19.9		Degrees C		0.5	10

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

Lab Sample ID: MB 480-524176/4
Matrix: Water
Analysis Batch: 524176

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			04/01/20 16:22	1
TOC Result 2	ND		1.0		mg/L			04/01/20 16:22	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/01/20 16:22	1

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QC Sample Results

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

Job ID: 480-167980-1

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

Lab Sample ID: LCS 480-524176/5

Matrix: Water

Analysis Batch: 524176

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	59.4		mg/L		99	90 - 110
TOC Result 2	60.0	59.3		mg/L		99	90 - 110
Total Organic Carbon - Duplicates	60.0	59.3		mg/L		99	90 - 110

Lab Sample ID: 480-167980-1 MS

Matrix: Water

Analysis Batch: 524176

Client Sample ID: REW-6-2020 0331

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	3.1		23.3	27.5		mg/L		105	54 - 131
TOC Result 2	2.9		23.3	25.9		mg/L		99	54 - 131
Total Organic Carbon - Duplicates	3.0		23.3	26.7		mg/L		102	54 - 131

Lab Sample ID: MB 480-524491/4

Matrix: Water

Analysis Batch: 524491

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			04/04/20 19:16	1
TOC Result 2	ND		1.0		mg/L			04/04/20 19:16	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/04/20 19:16	1

Lab Sample ID: LCS 480-524491/5

Matrix: Water

Analysis Batch: 524491

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	62.1		mg/L		103	90 - 110
TOC Result 2	60.0	61.9		mg/L		103	90 - 110
Total Organic Carbon - Duplicates	60.0	62.0		mg/L		103	90 - 110

Lab Sample ID: 480-167980-3 DU

Matrix: Water

Analysis Batch: 524491

Client Sample ID: REW-11-2020 0331

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
TOC Result 1	5000		5020		mg/L		0.5	20
TOC Result 2	5000		4860		mg/L		2	20
Total Organic Carbon - Duplicates	5000		4940		mg/L		1	20

QC Sample Results

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

Job ID: 480-167980-1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-524204/28
Matrix: Water
Analysis Batch: 524204

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			04/02/20 19:31	1

Lab Sample ID: MB 480-524204/4
Matrix: Water
Analysis Batch: 524204

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			04/02/20 16:12	1

Lab Sample ID: LCS 480-524204/29
Matrix: Water
Analysis Batch: 524204

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	101		mg/L		101	90 - 110

Lab Sample ID: LCS 480-524204/5
Matrix: Water
Analysis Batch: 524204

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	103		mg/L		103	90 - 110

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 480-523880/3
Matrix: Water
Analysis Batch: 523880

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ortho-Phosphate	ND		0.020		mg/L			04/01/20 13:26	1

Lab Sample ID: LCS 480-523880/4
Matrix: Water
Analysis Batch: 523880

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.200	0.219		mg/L		109	90 - 110

Lab Sample ID: 480-167980-2 MS
Matrix: Water
Analysis Batch: 523880

Client Sample ID: REW-7-2020 0331
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.21	F1	0.100	0.224	F1	mg/L		16	49 - 138

QC Sample Results

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

Job ID: 480-167980-1

Method: SM 4500 P E - Orthophosphate (Continued)

Lab Sample ID: 480-167980-1 DU

Matrix: Water

Analysis Batch: 523880

Client Sample ID: REW-6-2020 0331

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
ortho-Phosphate	0.19		0.197		mg/L		2	20

1

2

3

4

5

6

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QC Association Summary

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

Job ID: 480-167980-1

GC/MS VOA

Analysis Batch: 523857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-167980-2	REW-7-2020 0331	Total/NA	Water	8260C	
480-167980-3	REW-11-2020 0331	Total/NA	Water	8260C	
480-167980-4	REW-12-2020 03131	Total/NA	Water	8260C	
480-167980-6	TRIP BLANKS	Total/NA	Water	8260C	
MB 480-523857/7	Method Blank	Total/NA	Water	8260C	
LCS 480-523857/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-523857/9	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 524020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-167980-5	DUP 1	Total/NA	Water	8260C	
MB 480-524020/8	Method Blank	Total/NA	Water	8260C	
LCS 480-524020/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-524020/6	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 524219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-167980-1	REW-6-2020 0331	Total/NA	Water	8260C	
MB 480-524219/8	Method Blank	Total/NA	Water	8260C	
LCS 480-524219/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-524219/6	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 524310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-167980-1 - DL	REW-6-2020 0331	Total/NA	Water	8260C	
MB 480-524310/8	Method Blank	Total/NA	Water	8260C	
LCS 480-524310/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-524310/6	Lab Control Sample Dup	Total/NA	Water	8260C	

Metals

Prep Batch: 523883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-167980-1	REW-6-2020 0331	Total/NA	Water	3005A	
480-167980-2	REW-7-2020 0331	Total/NA	Water	3005A	
480-167980-3	REW-11-2020 0331	Total/NA	Water	3005A	
480-167980-4	REW-12-2020 03131	Total/NA	Water	3005A	
MB 480-523883/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-523883/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-523883/24-A	Lab Control Sample Dup	Total/NA	Water	3005A	

Analysis Batch: 524189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-167980-1	REW-6-2020 0331	Total/NA	Water	6010	523883
480-167980-2	REW-7-2020 0331	Total/NA	Water	6010	523883
480-167980-3	REW-11-2020 0331	Total/NA	Water	6010	523883
480-167980-4	REW-12-2020 03131	Total/NA	Water	6010	523883
MB 480-523883/1-A	Method Blank	Total/NA	Water	6010	523883
LCS 480-523883/2-A	Lab Control Sample	Total/NA	Water	6010	523883
LCSD 480-523883/24-A	Lab Control Sample Dup	Total/NA	Water	6010	523883

Eurofins TestAmerica, Buffalo

QC Association Summary

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

Job ID: 480-167980-1

General Chemistry

Analysis Batch: 523880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-167980-1	REW-6-2020 0331	Total/NA	Water	SM 4500 P E	
480-167980-2	REW-7-2020 0331	Total/NA	Water	SM 4500 P E	
480-167980-3	REW-11-2020 0331	Total/NA	Water	SM 4500 P E	
480-167980-4	REW-12-2020 03131	Total/NA	Water	SM 4500 P E	
MB 480-523880/3	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-523880/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	
480-167980-2 MS	REW-7-2020 0331	Total/NA	Water	SM 4500 P E	
480-167980-1 DU	REW-6-2020 0331	Total/NA	Water	SM 4500 P E	

Analysis Batch: 523957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-167980-1	REW-6-2020 0331	Total/NA	Water	353.2	
480-167980-2	REW-7-2020 0331	Total/NA	Water	353.2	
480-167980-3	REW-11-2020 0331	Total/NA	Water	353.2	
480-167980-4	REW-12-2020 03131	Total/NA	Water	353.2	

Analysis Batch: 524011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-167980-1	REW-6-2020 0331	Total/NA	Water	9040C	
480-167980-2	REW-7-2020 0331	Total/NA	Water	9040C	
480-167980-3	REW-11-2020 0331	Total/NA	Water	9040C	
480-167980-4	REW-12-2020 03131	Total/NA	Water	9040C	
LCS 480-524011/1	Lab Control Sample	Total/NA	Water	9040C	
480-167980-4 DU	REW-12-2020 03131	Total/NA	Water	9040C	

Prep Batch: 524026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-167980-2	REW-7-2020 0331	Total/NA	Water	Distill/Ammonia	
480-167980-3	REW-11-2020 0331	Total/NA	Water	Distill/Ammonia	
480-167980-4	REW-12-2020 03131	Total/NA	Water	Distill/Ammonia	
480-167980-2 MS	REW-7-2020 0331	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 524044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-167980-2	REW-7-2020 0331	Total/NA	Water	350.1	524026
480-167980-3	REW-11-2020 0331	Total/NA	Water	350.1	524026
480-167980-4	REW-12-2020 03131	Total/NA	Water	350.1	524026
MB 480-524044/73	Method Blank	Total/NA	Water	350.1	
LCS 480-524044/74	Lab Control Sample	Total/NA	Water	350.1	
480-167980-2 MS	REW-7-2020 0331	Total/NA	Water	350.1	524026

Analysis Batch: 524053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-167980-1	REW-6-2020 0331	Total/NA	Water	300.0	
480-167980-2	REW-7-2020 0331	Total/NA	Water	300.0	
480-167980-4	REW-12-2020 03131	Total/NA	Water	300.0	
MB 480-524053/4	Method Blank	Total/NA	Water	300.0	
LCS 480-524053/3	Lab Control Sample	Total/NA	Water	300.0	

QC Association Summary

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

Job ID: 480-167980-1

General Chemistry

Analysis Batch: 524176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-167980-1	REW-6-2020 0331	Total/NA	Water	9060A	
480-167980-2	REW-7-2020 0331	Total/NA	Water	9060A	
480-167980-4	REW-12-2020 03131	Total/NA	Water	9060A	
MB 480-524176/4	Method Blank	Total/NA	Water	9060A	
LCS 480-524176/5	Lab Control Sample	Total/NA	Water	9060A	
480-167980-1 MS	REW-6-2020 0331	Total/NA	Water	9060A	

Analysis Batch: 524204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-167980-1	REW-6-2020 0331	Total/NA	Water	SM 2320B	
480-167980-2	REW-7-2020 0331	Total/NA	Water	SM 2320B	
480-167980-3	REW-11-2020 0331	Total/NA	Water	SM 2320B	
480-167980-4	REW-12-2020 03131	Total/NA	Water	SM 2320B	
MB 480-524204/28	Method Blank	Total/NA	Water	SM 2320B	
MB 480-524204/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-524204/29	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 480-524204/5	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 524491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-167980-3	REW-11-2020 0331	Total/NA	Water	9060A	
MB 480-524491/4	Method Blank	Total/NA	Water	9060A	
LCS 480-524491/5	Lab Control Sample	Total/NA	Water	9060A	
480-167980-3 DU	REW-11-2020 0331	Total/NA	Water	9060A	

Prep Batch: 524606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-167980-1	REW-6-2020 0331	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 524658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-167980-1	REW-6-2020 0331	Total/NA	Water	350.1	524606
MB 480-524658/17	Method Blank	Total/NA	Water	350.1	
LCS 480-524658/18	Lab Control Sample	Total/NA	Water	350.1	

Analysis Batch: 524730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-167980-3	REW-11-2020 0331	Total/NA	Water	300.0	
MB 480-524730/4	Method Blank	Total/NA	Water	300.0	
LCS 480-524730/3	Lab Control Sample	Total/NA	Water	300.0	

Lab Chronicle

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

Job ID: 480-167980-1

Client Sample ID: REW-6-2020 0331

Lab Sample ID: 480-167980-1

Date Collected: 03/31/20 10:35

Matrix: Water

Date Received: 04/01/20 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524219	04/03/20 14:49	CRL	TAL BUF
Total/NA	Analysis	8260C	DL	4	524310	04/04/20 15:54	RJF	TAL BUF
Total/NA	Prep	3005A			523883	04/01/20 18:22	EMB	TAL BUF
Total/NA	Analysis	6010		1	524189	04/02/20 23:13	LMH	TAL BUF
Total/NA	Analysis	300.0		5	524053	04/02/20 14:44	IMZ	TAL BUF
Total/NA	Prep	Distill/Ammonia			524606	04/07/20 07:00	CLT	TAL BUF
Total/NA	Analysis	350.1		5	524658	04/07/20 08:59	CLT	TAL BUF
Total/NA	Analysis	353.2		1	523957	04/01/20 16:28	BEF	TAL BUF
Total/NA	Analysis	9040C		1	524011	04/01/20 17:11	KEB	TAL BUF
Total/NA	Analysis	9060A		1	524176	04/01/20 22:31	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	524204	04/02/20 20:44	BEF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	523880	04/01/20 13:26	CRK	TAL BUF

Client Sample ID: REW-7-2020 0331

Lab Sample ID: 480-167980-2

Date Collected: 03/31/20 08:30

Matrix: Water

Date Received: 04/01/20 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	523857	04/01/20 15:46	RJF	TAL BUF
Total/NA	Prep	3005A			523883	04/01/20 18:22	EMB	TAL BUF
Total/NA	Analysis	6010		1	524189	04/02/20 23:16	LMH	TAL BUF
Total/NA	Analysis	300.0		1	524053	04/02/20 14:52	IMZ	TAL BUF
Total/NA	Prep	Distill/Ammonia			524026	04/02/20 07:00	CLT	TAL BUF
Total/NA	Analysis	350.1		1	524044	04/02/20 12:16	CLT	TAL BUF
Total/NA	Analysis	353.2		1	523957	04/01/20 16:30	BEF	TAL BUF
Total/NA	Analysis	9040C		1	524011	04/01/20 17:13	KEB	TAL BUF
Total/NA	Analysis	9060A		1	524176	04/01/20 23:32	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	524204	04/02/20 20:50	BEF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	523880	04/01/20 13:26	CRK	TAL BUF

Client Sample ID: REW-11-2020 0331

Lab Sample ID: 480-167980-3

Date Collected: 03/31/20 09:35

Matrix: Water

Date Received: 04/01/20 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	523857	04/01/20 16:11	RJF	TAL BUF
Total/NA	Prep	3005A			523883	04/01/20 18:22	EMB	TAL BUF
Total/NA	Analysis	6010		1	524189	04/02/20 23:20	LMH	TAL BUF
Total/NA	Analysis	300.0		20	524730	04/09/20 20:36	IMZ	TAL BUF
Total/NA	Prep	Distill/Ammonia			524026	04/02/20 07:00	CLT	TAL BUF
Total/NA	Analysis	350.1		1	524044	04/02/20 12:20	CLT	TAL BUF
Total/NA	Analysis	353.2		1	523957	04/01/20 16:31	BEF	TAL BUF
Total/NA	Analysis	9040C		1	524011	04/01/20 17:16	KEB	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

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

Job ID: 480-167980-1

Client Sample ID: REW-11-2020 0331

Lab Sample ID: 480-167980-3

Date Collected: 03/31/20 09:35

Matrix: Water

Date Received: 04/01/20 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		100	524491	04/05/20 01:51	IMZ	TAL BUF
Total/NA	Analysis	SM 2320B		1	524204	04/02/20 21:37	BEF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	523880	04/01/20 13:26	CRK	TAL BUF

Client Sample ID: REW-12-2020 03131

Lab Sample ID: 480-167980-4

Date Collected: 03/31/20 07:25

Matrix: Water

Date Received: 04/01/20 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	523857	04/01/20 16:35	RJF	TAL BUF
Total/NA	Prep	3005A			523883	04/01/20 18:22	EMB	TAL BUF
Total/NA	Analysis	6010		1	524189	04/02/20 23:28	LMH	TAL BUF
Total/NA	Analysis	300.0		2	524053	04/02/20 15:08	IMZ	TAL BUF
Total/NA	Prep	Distill/Ammonia			524026	04/02/20 07:00	CLT	TAL BUF
Total/NA	Analysis	350.1		2	524044	04/02/20 12:23	CLT	TAL BUF
Total/NA	Analysis	353.2		1	523957	04/01/20 16:32	BEF	TAL BUF
Total/NA	Analysis	9040C		1	524011	04/01/20 17:18	KEB	TAL BUF
Total/NA	Analysis	9060A		1	524176	04/02/20 01:04	CLA	TAL BUF
Total/NA	Analysis	SM 2320B		1	524204	04/02/20 21:46	BEF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	523880	04/01/20 13:26	CRK	TAL BUF

Client Sample ID: DUP 1

Lab Sample ID: 480-167980-5

Date Collected: 03/31/20 00:00

Matrix: Water

Date Received: 04/01/20 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524020	04/02/20 14:09	RJF	TAL BUF

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-167980-6

Date Collected: 03/31/20 00:00

Matrix: Water

Date Received: 04/01/20 18:03

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	523857	04/01/20 17:24	RJF	TAL BUF

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 480-167980-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-20
California	State	2931	04-01-20 *
Connecticut	State	PH-0568	09-30-20
Florida	NELAP	E87672	06-30-20
Georgia	State	10026 (NY)	04-01-21
Georgia	State Program	N/A	03-31-09 *
Georgia (DW)	State	956	03-31-20 *
Illinois	NELAP	200003	09-30-20
Iowa	State	374	02-28-21
Kansas	NELAP	E-10187	01-31-20 *
Kentucky (DW)	State	90029	12-31-20
Kentucky (UST)	State	30	04-01-21
Kentucky (WW)	State	KY90029	12-31-20
Louisiana	NELAP	02031	06-30-20
Maine	State	NY00044	12-04-20
Maryland	State	294	04-01-21
Massachusetts	State	M-NY044	06-30-20
Michigan	State	9937	03-31-20 *
Michigan	State Program	9937	04-01-09 *
Minnesota	NELAP	1524384	12-31-20
New Hampshire	NELAP	2337	11-18-20
New Jersey	NELAP	NY455	06-30-20
New York	NELAP	10026	04-02-21
North Dakota	State	R-176	03-31-20 *
Oklahoma	State	9421	09-01-20
Oregon	NELAP	NY200003	06-10-20
Pennsylvania	NELAP	68-00281	07-31-20
Rhode Island	State	LAO00328	12-30-20
Tennessee	State	02970	03-31-20 *
Texas	NELAP	T104704412-18-10	08-01-20
USDA	US Federal Programs	P330-18-00039	02-06-21
Virginia	NELAP	460185	09-14-20
Washington	State	C784	02-11-21
Wisconsin	State	998310390	08-31-20

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

Method Summary

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

Job ID: 480-167980-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
6010	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
9040C	pH	SW846	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 4500 P E	Orthophosphate	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
Distill/Ammonia	Distillation, Ammonia	None	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MA DEP = Massachusetts Department Of Environmental Protection

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

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

Job ID: 480-167980-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-167980-1	REW-6-2020 0331	Water	03/31/20 10:35	04/01/20 18:03	
480-167980-2	REW-7-2020 0331	Water	03/31/20 08:30	04/01/20 18:03	
480-167980-3	REW-11-2020 0331	Water	03/31/20 09:35	04/01/20 18:03	
480-167980-4	REW-12-2020 03131	Water	03/31/20 07:25	04/01/20 18:03	
480-167980-5	DUP 1	Water	03/31/20 00:00	04/01/20 18:03	
480-167980-6	TRIP BLANKS	Water	03/31/20 00:00	04/01/20 18:03	

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Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-167980-1

Login Number: 167980

List Number: 1

Creator: Yeager, Brian A

List Source: Eurofins TestAmerica, Buffalo

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

TestAmerica Westfield
501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (303) 467-7247

TestAmerica Boston
240 Bear Hill Road - Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6901

Boston #215 Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information:
Client Contact: Vicki Ramirez
Company: INNOVATIVE Engineering Solutions Inc
Address: 37 Reed St
City: BRAINTREE
State and Zip: MA 02184
Client's Phone: 508-688-0033
Client's Contact Email: v.ramirez@TESTonline.com
Client's Project Name/Number: Braintree Wayland RA-008
Sample Collection Site Name & Location: Wayland MA

Lab Information:
Lab PM: Lab COC Barcode Label
E-Mail:
COC No: 41470
Page: of
Job #:

Analysis Requested:
A - Hydrochloric Acid
B - Sodium Hydroxide
J - Deionized Water
M - Hexane
active
late
file
sulfate
y)

Preservation Codes:
CT RSR
EDD Required
NPDES
SUBCONTRACT POLICY: advance to permit TestAmerica 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

Sample Identification

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Preservation Codes =>	Total Number of Con	Special Instructions & Notes:
REW-6 - 2020 0331	3/31/20	1035	C	W		10	CW-3
REW-7 - 2020 0331	3/31/20	0830	C	W		10	REQUIREMENTS
REW-11 - 2020 0331	3/31/20	0935	C	W		10	
REW-12 - 2020 0331	3/31/20	0725	C	W		10	
Dupl	3/31/20	-	C	W		3	
Trip Blanks	-	-	-	-		2	

Analysis Requested (each line):
8260 MCP
9060B TOC
350.1 CH3
6010
8330B
4500-ET
5090-880
5090-880

480-167980 Chain of Custody

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):
Return To Client Disposal By Lab Archive For _____ Months

NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!

Possible Hazard Identification (please check off each that may apply):
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Matrix Types: A=Air S=Solid/Soil W=Water O=Oil X=Waste (non-water) Z=Other: _____

Relinquished by: [Signature] Date/Time: 3/31/20 11:20 Company: TEST
Relinquished by: [Signature] Date/Time: 3/13/20 16:00 Company: [Signature]
Relinquished by: [Signature] Date/Time: 4/1/20 0800 Company: [Signature]

Custody Seals Intact: Yes No Custody Seal No.: _____
Cooler Temperature(s) °C and Other Remarks: 3.3°C #1 ICE

ANALYTICAL REPORT

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

Laboratory Job ID: 480-168039-1
Client Project/Site: IDS Wayland

For:

Innovative Engineering Solutions, Inc
37 Pearl St
1
Braintree, Massachusetts 02184

Attn: Vicki Pariyar



Authorized for release by:
4/13/2020 4:30:17 PM

Wyatt Watson, Project Management Assistant I
wyatt.watson@testamericainc.com

Designee for

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

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www.testamericainc.com

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

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

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



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Definitions/Glossary

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

Job ID: 480-168039-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate recovery exceeds control limits

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

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

Case Narrative

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

Job ID: 480-168039-1

Job ID: 480-168039-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-168039-1

Receipt

The samples were received on 4/2/2020 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5° C.

GC/MS VOA

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

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

Method 8260C: The following sample was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The sample was analyzed within the 7-day holding time specified for unpreserved samples:

MW-267S-20200401 (480-168039-1). Sample is pH 4.

Method 8260C: The continuing calibration verification (CCV) for Acetone and Dichlorodifluoromethane associated with batch 480-524219 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following samples were affected : MW-267S-20200401 (480-168039-1), MW-267M-20200401 (480-168039-2), MW-268S-20200401 (480-168039-3), MW-268M-20200401 (480-168039-4), MW-268D-20200401 (480-168039-5), MW-261S-20200401 (480-168039-6), MW-551-20200401 (480-168039-7), MW-552-20200401 (480-168039-8), MW-553-20200401 (480-168039-9), REW-8-2020401 (480-168039-10) and TRIP BLANKS (480-168039-11).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-524219 exceeded control limits for the following analytes: 2-Butanone and Tetrahydrofuran. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate and Methacrylonitrile, 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. The following samples were affected : MW-267S-20200401 (480-168039-1), MW-267M-20200401 (480-168039-2), MW-268S-20200401 (480-168039-3), MW-268M-20200401 (480-168039-4), MW-268D-20200401 (480-168039-5), MW-261S-20200401 (480-168039-6), MW-551-20200401 (480-168039-7), MW-552-20200401 (480-168039-8), MW-553-20200401 (480-168039-9), REW-8-2020401 (480-168039-10) and TRIP BLANKS (480-168039-11).

Method 8260C: The following sample was diluted due to the abundance of non-target analytes: MW-267S-20200401 (480-168039-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-268S-20200401 (480-168039-3). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-268D-20200401 (480-168039-5). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA

Method 522: Surrogate recovery for the following samples were outside control limits: MW-267S-20200401 (480-168039-1) and MW-268S-20200401 (480-168039-3). Re-extraction and/or re-analysis was performed with concurring results. Both sets of data have been reported.

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

Case Narrative

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

Job ID: 480-168039-1

Job ID: 480-168039-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

HPLC/IC

Method 300.0: The following sample was reported with elevated reporting limits for all analytes: MW-268M-20200401 (480-168039-4). The sample was analyzed at a dilution based on screening results.

Method 300.0: The following sample was diluted due sample matrix interference: MW-268S-20200401 (480-168039-3). Elevated reporting limits (RLs) are provided.

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

Metals

Method 6010: At the request of the client, an abbreviated MCP analyte list was reported for this job.

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

General Chemistry

Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: MW-268S-20200401 (480-168039-3) and MW-268M-20200401 (480-168039-4).

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

Organic Prep

Method 522: The reference method requires samples to be preserved to a pH of <2. The following sample was received with insufficient preservation at a pH of 4: MW-267S-20200401 (480-168039-1). The sample was preserved to the appropriate pH in the laboratory using 1.0 mL concentrated hydrochloric acid.

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 #: **480-168039**

Project Location: **IDS Wayland** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):
480-168039(1,2,3,4,5,6,7,8,9,10,11)

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

CAM Protocols (check all that apply below):

8260 VOC CAM II A <input checked="" type="checkbox"/>	7470/7471 Hg CAM III B <input type="checkbox"/>	Mass DEP VPH CAM IV A <input type="checkbox"/>	8081 Pesticides CAM V B <input type="checkbox"/>	7196 Hex Cr CAM VI B <input type="checkbox"/>	Mass DEP APH CAM IX A <input type="checkbox"/>
8270 SVOC CAM II B <input type="checkbox"/>	7010 Metals CAM III C <input type="checkbox"/>	Mass DEP EPH CAM IV B <input type="checkbox"/>	8151 Herbicides CAM V C <input type="checkbox"/>	8330 Explosives CAM VIII A <input type="checkbox"/>	TO-15 VOC CAM IX B <input type="checkbox"/>
6010 Metals CAM III A <input checked="" type="checkbox"/>	6020 Metals CAM III D <input type="checkbox"/>	8082 PCB CAM V A <input type="checkbox"/>	9014 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 type="checkbox"/> Yes <input checked="" 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: Wyatt Watson Position: Project Manager Assistant
 Printed Name: Wyatt Watson Date: 4/13/20 15:18

Detection Summary

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

Job ID: 480-168039-1

Client Sample ID: MW-267S-20200401

Lab Sample ID: 480-168039-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	540	*	200		ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	31		20		ug/L	20		8260C	Total/NA
Methylene Chloride	20		20		ug/L	20		8260C	Total/NA
Toluene	86		20		ug/L	20		8260C	Total/NA
1,4-Dioxane	0.48		0.20		ug/L	1		522	Total/NA
1,4-Dioxane - RA	0.59		0.20		ug/L	1		522	Total/NA

Client Sample ID: MW-267M-20200401

Lab Sample ID: 480-168039-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	4.0		0.20		ug/L	1		522	Total/NA

Client Sample ID: MW-268S-20200401

Lab Sample ID: 480-168039-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	140	*	40		ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	260		4.0		ug/L	4		8260C	Total/NA
Methylene Chloride	4.0		4.0		ug/L	4		8260C	Total/NA
Toluene	150		4.0		ug/L	4		8260C	Total/NA
Trichloroethene	51		4.0		ug/L	4		8260C	Total/NA
Vinyl chloride	14		4.0		ug/L	4		8260C	Total/NA
1,4-Dioxane	7.5		0.20		ug/L	1		522	Total/NA
1,4-Dioxane - RA	7.8		0.20		ug/L	1		522	Total/NA
Iron	110		0.050		mg/L	1		6010	Total/NA
Chloride	29		5.0		mg/L	10		300.0	Total/NA
pH	5.5	HF	0.1		SU	1		9040C	Total/NA
Temperature	18.0	HF	0.001		Degrees C	1		9040C	Total/NA
TOC Result 1	4900		100		mg/L	100		9060A	Total/NA
TOC Result 2	4900		100		mg/L	100		9060A	Total/NA
Total Organic Carbon - Duplicates	4900		100		mg/L	100		9060A	Total/NA
Alkalinity, Total	380		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.12		0.020		mg/L	1		SM 4500 P E	Total/NA

Client Sample ID: MW-268M-20200401

Lab Sample ID: 480-168039-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.2		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	3.9		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	12		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	9.8		0.20		ug/L	1		522	Total/NA
Iron	36		0.050		mg/L	1		6010	Total/NA
Chloride	33		1.0		mg/L	2		300.0	Total/NA
pH	7.1	HF	0.1		SU	1		9040C	Total/NA
Temperature	17.6	HF	0.001		Degrees C	1		9040C	Total/NA
TOC Result 1	2.2		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	2.2		1.0		mg/L	1		9060A	Total/NA
Total Organic Carbon - Duplicates	2.2		1.0		mg/L	1		9060A	Total/NA
Alkalinity, Total	270		5.0		mg/L	1		SM 2320B	Total/NA
ortho-Phosphate	0.056		0.020		mg/L	1		SM 4500 P E	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

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

Job ID: 480-168039-1

Client Sample ID: MW-268D-20200401

Lab Sample ID: 480-168039-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.1		2.0		ug/L	2		8260C	Total/NA
2-Butanone (MEK)	230	*	20		ug/L	2		8260C	Total/NA
Benzene	2.9		2.0		ug/L	2		8260C	Total/NA
Methylene Chloride	2.3		2.0		ug/L	2		8260C	Total/NA
Toluene	130		2.0		ug/L	2		8260C	Total/NA
Trichloroethene	95		2.0		ug/L	2		8260C	Total/NA
Vinyl chloride	4.5		2.0		ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene - DL	390		8.0		ug/L	8		8260C	Total/NA

Client Sample ID: MW-261S-20200401

Lab Sample ID: 480-168039-6

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

Client Sample ID: MW-551-20200401

Lab Sample ID: 480-168039-7

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

Client Sample ID: MW-552-20200401

Lab Sample ID: 480-168039-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.42		0.20		ug/L	1		522	Total/NA

Client Sample ID: MW-553-20200401

Lab Sample ID: 480-168039-9

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
Ethylbenzene	2.3		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	4.8		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.2		1.0		ug/L	1		8260C	Total/NA
Toluene	1.9		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	4.8		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-8-2020401

Lab Sample ID: 480-168039-10

No Detections.

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-168039-11

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168039-1

Client Sample ID: MW-267S-20200401

Lab Sample ID: 480-168039-1

Date Collected: 04/01/20 08:45

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		20		ug/L			04/03/20 15:37	20
1,1,1-Trichloroethane	ND		20		ug/L			04/03/20 15:37	20
1,1,2,2-Tetrachloroethane	ND		10		ug/L			04/03/20 15:37	20
1,1,2-Trichloroethane	ND		20		ug/L			04/03/20 15:37	20
1,1-Dichloroethane	ND		20		ug/L			04/03/20 15:37	20
1,1-Dichloroethene	ND		20		ug/L			04/03/20 15:37	20
1,1-Dichloropropene	ND		20		ug/L			04/03/20 15:37	20
1,2,3-Trichlorobenzene	ND		20		ug/L			04/03/20 15:37	20
1,2,3-Trichloropropane	ND		20		ug/L			04/03/20 15:37	20
1,2,4-Trichlorobenzene	ND		20		ug/L			04/03/20 15:37	20
1,2,4-Trimethylbenzene	ND		20		ug/L			04/03/20 15:37	20
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			04/03/20 15:37	20
1,2-Dichlorobenzene	ND		20		ug/L			04/03/20 15:37	20
1,2-Dichloroethane	ND		20		ug/L			04/03/20 15:37	20
1,2-Dichloropropane	ND		20		ug/L			04/03/20 15:37	20
1,3,5-Trimethylbenzene	ND		20		ug/L			04/03/20 15:37	20
1,3-Dichlorobenzene	ND		20		ug/L			04/03/20 15:37	20
1,3-Dichloropropane	ND		20		ug/L			04/03/20 15:37	20
1,4-Dichlorobenzene	ND		20		ug/L			04/03/20 15:37	20
1,4-Dioxane	ND		1000		ug/L			04/03/20 15:37	20
2,2-Dichloropropane	ND		20		ug/L			04/03/20 15:37	20
2-Butanone (MEK)	540	*	200		ug/L			04/03/20 15:37	20
2-Chlorotoluene	ND		20		ug/L			04/03/20 15:37	20
2-Hexanone	ND		200		ug/L			04/03/20 15:37	20
4-Chlorotoluene	ND		20		ug/L			04/03/20 15:37	20
4-Isopropyltoluene	ND		20		ug/L			04/03/20 15:37	20
4-Methyl-2-pentanone (MIBK)	ND		200		ug/L			04/03/20 15:37	20
Acetone	ND		1000		ug/L			04/03/20 15:37	20
Benzene	ND		20		ug/L			04/03/20 15:37	20
Bromobenzene	ND		20		ug/L			04/03/20 15:37	20
Bromoform	ND		20		ug/L			04/03/20 15:37	20
Bromomethane	ND		40		ug/L			04/03/20 15:37	20
Carbon disulfide	ND		200		ug/L			04/03/20 15:37	20
Carbon tetrachloride	ND		20		ug/L			04/03/20 15:37	20
Chlorobenzene	ND		20		ug/L			04/03/20 15:37	20
Chlorobromomethane	ND		20		ug/L			04/03/20 15:37	20
Chlorodibromomethane	ND		10		ug/L			04/03/20 15:37	20
Chloroethane	ND		40		ug/L			04/03/20 15:37	20
Chloroform	ND		20		ug/L			04/03/20 15:37	20
Chloromethane	ND		40		ug/L			04/03/20 15:37	20
cis-1,2-Dichloroethene	31		20		ug/L			04/03/20 15:37	20
cis-1,3-Dichloropropene	ND		8.0		ug/L			04/03/20 15:37	20
Dichlorobromomethane	ND		10		ug/L			04/03/20 15:37	20
Dichlorodifluoromethane	ND		20		ug/L			04/03/20 15:37	20
Ethyl ether	ND		20		ug/L			04/03/20 15:37	20
Ethylbenzene	ND		20		ug/L			04/03/20 15:37	20
Ethylene Dibromide	ND		20		ug/L			04/03/20 15:37	20
Hexachlorobutadiene	ND		8.0		ug/L			04/03/20 15:37	20
Isopropyl ether	ND		200		ug/L			04/03/20 15:37	20

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168039-1

Client Sample ID: MW-267S-20200401

Lab Sample ID: 480-168039-1

Date Collected: 04/01/20 08:45

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		20		ug/L			04/03/20 15:37	20
Methyl tert-butyl ether	ND		20		ug/L			04/03/20 15:37	20
Methylene Chloride	20		20		ug/L			04/03/20 15:37	20
m-Xylene & p-Xylene	ND		40		ug/L			04/03/20 15:37	20
Naphthalene	ND		100		ug/L			04/03/20 15:37	20
n-Butylbenzene	ND		20		ug/L			04/03/20 15:37	20
N-Propylbenzene	ND		20		ug/L			04/03/20 15:37	20
o-Xylene	ND		20		ug/L			04/03/20 15:37	20
sec-Butylbenzene	ND		20		ug/L			04/03/20 15:37	20
Styrene	ND		20		ug/L			04/03/20 15:37	20
Tert-amyl methyl ether	ND		100		ug/L			04/03/20 15:37	20
Tert-butyl ethyl ether	ND		100		ug/L			04/03/20 15:37	20
tert-Butylbenzene	ND		20		ug/L			04/03/20 15:37	20
Tetrachloroethene	ND		20		ug/L			04/03/20 15:37	20
Tetrahydrofuran	ND *		200		ug/L			04/03/20 15:37	20
Toluene	86		20		ug/L			04/03/20 15:37	20
trans-1,2-Dichloroethene	ND		20		ug/L			04/03/20 15:37	20
trans-1,3-Dichloropropene	ND		8.0		ug/L			04/03/20 15:37	20
Trichloroethene	ND		20		ug/L			04/03/20 15:37	20
Trichlorofluoromethane	ND		20		ug/L			04/03/20 15:37	20
Vinyl chloride	ND		20		ug/L			04/03/20 15:37	20
Dibromomethane	ND		20		ug/L			04/03/20 15:37	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	99		70 - 130		04/03/20 15:37	20
<i>1,2-Dichloroethane-d4 (Surr)</i>	98		70 - 130		04/03/20 15:37	20
<i>4-Bromofluorobenzene (Surr)</i>	104		70 - 130		04/03/20 15:37	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.48		0.20		ug/L		04/03/20 13:10	04/05/20 23:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,4-Dioxane-d8 (Surr)</i>	11	X	46 - 130	04/03/20 13:10	04/05/20 23:59	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.59		0.20		ug/L		04/03/20 13:10	04/06/20 11:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>1,4-Dioxane-d8 (Surr)</i>	12	X	46 - 130	04/03/20 13:10	04/06/20 11:36	1

Client Sample ID: MW-267M-20200401

Lab Sample ID: 480-168039-2

Date Collected: 04/01/20 09:25

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/03/20 16:02	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/03/20 16:02	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/03/20 16:02	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168039-1

Client Sample ID: MW-267M-20200401

Lab Sample ID: 480-168039-2

Date Collected: 04/01/20 09:25

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.0		ug/L			04/03/20 16:02	1
1,1-Dichloroethane	ND		1.0		ug/L			04/03/20 16:02	1
1,1-Dichloroethene	ND		1.0		ug/L			04/03/20 16:02	1
1,1-Dichloropropene	ND		1.0		ug/L			04/03/20 16:02	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/03/20 16:02	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/03/20 16:02	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/03/20 16:02	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/03/20 16:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/03/20 16:02	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/03/20 16:02	1
1,2-Dichloroethane	ND		1.0		ug/L			04/03/20 16:02	1
1,2-Dichloropropane	ND		1.0		ug/L			04/03/20 16:02	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/03/20 16:02	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/03/20 16:02	1
1,3-Dichloropropane	ND		1.0		ug/L			04/03/20 16:02	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/03/20 16:02	1
1,4-Dioxane	ND		50		ug/L			04/03/20 16:02	1
2,2-Dichloropropane	ND		1.0		ug/L			04/03/20 16:02	1
2-Butanone (MEK)	ND *		10		ug/L			04/03/20 16:02	1
2-Chlorotoluene	ND		1.0		ug/L			04/03/20 16:02	1
2-Hexanone	ND		10		ug/L			04/03/20 16:02	1
4-Chlorotoluene	ND		1.0		ug/L			04/03/20 16:02	1
4-Isopropyltoluene	ND		1.0		ug/L			04/03/20 16:02	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/03/20 16:02	1
Acetone	ND		50		ug/L			04/03/20 16:02	1
Benzene	ND		1.0		ug/L			04/03/20 16:02	1
Bromobenzene	ND		1.0		ug/L			04/03/20 16:02	1
Bromoform	ND		1.0		ug/L			04/03/20 16:02	1
Bromomethane	ND		2.0		ug/L			04/03/20 16:02	1
Carbon disulfide	ND		10		ug/L			04/03/20 16:02	1
Carbon tetrachloride	ND		1.0		ug/L			04/03/20 16:02	1
Chlorobenzene	ND		1.0		ug/L			04/03/20 16:02	1
Chlorobromomethane	ND		1.0		ug/L			04/03/20 16:02	1
Chlorodibromomethane	ND		0.50		ug/L			04/03/20 16:02	1
Chloroethane	ND		2.0		ug/L			04/03/20 16:02	1
Chloroform	ND		1.0		ug/L			04/03/20 16:02	1
Chloromethane	ND		2.0		ug/L			04/03/20 16:02	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/03/20 16:02	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/03/20 16:02	1
Dichlorobromomethane	ND		0.50		ug/L			04/03/20 16:02	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/03/20 16:02	1
Ethyl ether	ND		1.0		ug/L			04/03/20 16:02	1
Ethylbenzene	ND		1.0		ug/L			04/03/20 16:02	1
Ethylene Dibromide	ND		1.0		ug/L			04/03/20 16:02	1
Hexachlorobutadiene	ND		0.40		ug/L			04/03/20 16:02	1
Isopropyl ether	ND		10		ug/L			04/03/20 16:02	1
Isopropylbenzene	ND		1.0		ug/L			04/03/20 16:02	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/03/20 16:02	1
Methylene Chloride	ND		1.0		ug/L			04/03/20 16:02	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168039-1

Client Sample ID: MW-267M-20200401

Lab Sample ID: 480-168039-2

Date Collected: 04/01/20 09:25

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0		ug/L			04/03/20 16:02	1
Naphthalene	ND		5.0		ug/L			04/03/20 16:02	1
n-Butylbenzene	ND		1.0		ug/L			04/03/20 16:02	1
N-Propylbenzene	ND		1.0		ug/L			04/03/20 16:02	1
o-Xylene	ND		1.0		ug/L			04/03/20 16:02	1
sec-Butylbenzene	ND		1.0		ug/L			04/03/20 16:02	1
Styrene	ND		1.0		ug/L			04/03/20 16:02	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/03/20 16:02	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/03/20 16:02	1
tert-Butylbenzene	ND		1.0		ug/L			04/03/20 16:02	1
Tetrachloroethene	ND		1.0		ug/L			04/03/20 16:02	1
Tetrahydrofuran	ND *		10		ug/L			04/03/20 16:02	1
Toluene	ND		1.0		ug/L			04/03/20 16:02	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/03/20 16:02	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/03/20 16:02	1
Trichloroethene	ND		1.0		ug/L			04/03/20 16:02	1
Trichlorofluoromethane	ND		1.0		ug/L			04/03/20 16:02	1
Vinyl chloride	ND		1.0		ug/L			04/03/20 16:02	1
Dibromomethane	ND		1.0		ug/L			04/03/20 16:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/03/20 16:02	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		04/03/20 16:02	1
4-Bromofluorobenzene (Surr)	106		70 - 130		04/03/20 16:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	4.0		0.20		ug/L		04/03/20 13:10	04/06/20 00:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	105		46 - 130	04/03/20 13:10	04/06/20 00:13	1

Client Sample ID: MW-268S-20200401

Lab Sample ID: 480-168039-3

Date Collected: 04/01/20 06:20

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0		ug/L			04/03/20 16:26	4
1,1,1-Trichloroethane	ND		4.0		ug/L			04/03/20 16:26	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			04/03/20 16:26	4
1,1,2-Trichloroethane	ND		4.0		ug/L			04/03/20 16:26	4
1,1-Dichloroethane	ND		4.0		ug/L			04/03/20 16:26	4
1,1-Dichloroethene	ND		4.0		ug/L			04/03/20 16:26	4
1,1-Dichloropropene	ND		4.0		ug/L			04/03/20 16:26	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			04/03/20 16:26	4
1,2,3-Trichloropropane	ND		4.0		ug/L			04/03/20 16:26	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			04/03/20 16:26	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			04/03/20 16:26	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			04/03/20 16:26	4
1,2-Dichlorobenzene	ND		4.0		ug/L			04/03/20 16:26	4

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168039-1

Client Sample ID: MW-268S-20200401

Lab Sample ID: 480-168039-3

Date Collected: 04/01/20 06:20

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		4.0		ug/L			04/03/20 16:26	4
1,2-Dichloropropane	ND		4.0		ug/L			04/03/20 16:26	4
1,3,5-Trimethylbenzene	ND		4.0		ug/L			04/03/20 16:26	4
1,3-Dichlorobenzene	ND		4.0		ug/L			04/03/20 16:26	4
1,3-Dichloropropane	ND		4.0		ug/L			04/03/20 16:26	4
1,4-Dichlorobenzene	ND		4.0		ug/L			04/03/20 16:26	4
1,4-Dioxane	ND		200		ug/L			04/03/20 16:26	4
2,2-Dichloropropane	ND		4.0		ug/L			04/03/20 16:26	4
2-Butanone (MEK)	140	*	40		ug/L			04/03/20 16:26	4
2-Chlorotoluene	ND		4.0		ug/L			04/03/20 16:26	4
2-Hexanone	ND		40		ug/L			04/03/20 16:26	4
4-Chlorotoluene	ND		4.0		ug/L			04/03/20 16:26	4
4-Isopropyltoluene	ND		4.0		ug/L			04/03/20 16:26	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			04/03/20 16:26	4
Acetone	ND		200		ug/L			04/03/20 16:26	4
Benzene	ND		4.0		ug/L			04/03/20 16:26	4
Bromobenzene	ND		4.0		ug/L			04/03/20 16:26	4
Bromoform	ND		4.0		ug/L			04/03/20 16:26	4
Bromomethane	ND		8.0		ug/L			04/03/20 16:26	4
Carbon disulfide	ND		40		ug/L			04/03/20 16:26	4
Carbon tetrachloride	ND		4.0		ug/L			04/03/20 16:26	4
Chlorobenzene	ND		4.0		ug/L			04/03/20 16:26	4
Chlorobromomethane	ND		4.0		ug/L			04/03/20 16:26	4
Chlorodibromomethane	ND		2.0		ug/L			04/03/20 16:26	4
Chloroethane	ND		8.0		ug/L			04/03/20 16:26	4
Chloroform	ND		4.0		ug/L			04/03/20 16:26	4
Chloromethane	ND		8.0		ug/L			04/03/20 16:26	4
cis-1,2-Dichloroethene	260		4.0		ug/L			04/03/20 16:26	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			04/03/20 16:26	4
Dichlorobromomethane	ND		2.0		ug/L			04/03/20 16:26	4
Dichlorodifluoromethane	ND		4.0		ug/L			04/03/20 16:26	4
Ethyl ether	ND		4.0		ug/L			04/03/20 16:26	4
Ethylbenzene	ND		4.0		ug/L			04/03/20 16:26	4
Ethylene Dibromide	ND		4.0		ug/L			04/03/20 16:26	4
Hexachlorobutadiene	ND		1.6		ug/L			04/03/20 16:26	4
Isopropyl ether	ND		40		ug/L			04/03/20 16:26	4
Isopropylbenzene	ND		4.0		ug/L			04/03/20 16:26	4
Methyl tert-butyl ether	ND		4.0		ug/L			04/03/20 16:26	4
Methylene Chloride	4.0		4.0		ug/L			04/03/20 16:26	4
m-Xylene & p-Xylene	ND		8.0		ug/L			04/03/20 16:26	4
Naphthalene	ND		20		ug/L			04/03/20 16:26	4
n-Butylbenzene	ND		4.0		ug/L			04/03/20 16:26	4
N-Propylbenzene	ND		4.0		ug/L			04/03/20 16:26	4
o-Xylene	ND		4.0		ug/L			04/03/20 16:26	4
sec-Butylbenzene	ND		4.0		ug/L			04/03/20 16:26	4
Styrene	ND		4.0		ug/L			04/03/20 16:26	4
Tert-amyl methyl ether	ND		20		ug/L			04/03/20 16:26	4
Tert-butyl ethyl ether	ND		20		ug/L			04/03/20 16:26	4
tert-Butylbenzene	ND		4.0		ug/L			04/03/20 16:26	4

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168039-1

Client Sample ID: MW-268S-20200401

Lab Sample ID: 480-168039-3

Date Collected: 04/01/20 06:20

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		4.0		ug/L			04/03/20 16:26	4
Tetrahydrofuran	ND	*	40		ug/L			04/03/20 16:26	4
Toluene	150		4.0		ug/L			04/03/20 16:26	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			04/03/20 16:26	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			04/03/20 16:26	4
Trichloroethene	51		4.0		ug/L			04/03/20 16:26	4
Trichlorofluoromethane	ND		4.0		ug/L			04/03/20 16:26	4
Vinyl chloride	14		4.0		ug/L			04/03/20 16:26	4
Dibromomethane	ND		4.0		ug/L			04/03/20 16:26	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130					04/03/20 16:26	4
1,2-Dichloroethane-d4 (Surr)	98		70 - 130					04/03/20 16:26	4
4-Bromofluorobenzene (Surr)	103		70 - 130					04/03/20 16:26	4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	7.5		0.20		ug/L		04/03/20 13:10	04/06/20 00:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	39	X	46 - 130				04/03/20 13:10	04/06/20 00:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	7.8		0.20		ug/L		04/03/20 13:10	04/06/20 12:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	35	X	46 - 130				04/03/20 13:10	04/06/20 12:03	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	110		0.050		mg/L		04/02/20 20:10	04/03/20 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	29		5.0		mg/L			04/09/20 20:50	10
Sulfate	ND		20		mg/L			04/09/20 20:50	10
Ammonia	ND		0.20		mg/L		04/06/20 07:00	04/06/20 09:58	1
Nitrate as N	ND		0.050		mg/L			04/02/20 12:02	1
TOC Result 1	4900		100		mg/L			04/05/20 08:54	100
TOC Result 2	4900		100		mg/L			04/05/20 08:54	100
Total Organic Carbon - Duplicates	4900		100		mg/L			04/05/20 08:54	100
Alkalinity, Total	380		5.0		mg/L			04/05/20 16:48	1
ortho-Phosphate	0.12		0.020		mg/L			04/02/20 16:13	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	5.5	HF	0.1		SU			04/05/20 15:27	1
Temperature	18.0	HF	0.001		Degrees C			04/05/20 15:27	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168039-1

Client Sample ID: MW-268M-20200401

Lab Sample ID: 480-168039-4

Date Collected: 04/01/20 07:15

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/03/20 16:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/03/20 16:50	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/03/20 16:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/03/20 16:50	1
1,1-Dichloroethane	1.2		1.0		ug/L			04/03/20 16:50	1
1,1-Dichloroethene	ND		1.0		ug/L			04/03/20 16:50	1
1,1-Dichloropropene	ND		1.0		ug/L			04/03/20 16:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/03/20 16:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/03/20 16:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/03/20 16:50	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/03/20 16:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/03/20 16:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/03/20 16:50	1
1,2-Dichloroethane	ND		1.0		ug/L			04/03/20 16:50	1
1,2-Dichloropropane	ND		1.0		ug/L			04/03/20 16:50	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/03/20 16:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/03/20 16:50	1
1,3-Dichloropropane	ND		1.0		ug/L			04/03/20 16:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/03/20 16:50	1
1,4-Dioxane	ND		50		ug/L			04/03/20 16:50	1
2,2-Dichloropropane	ND		1.0		ug/L			04/03/20 16:50	1
2-Butanone (MEK)	ND *		10		ug/L			04/03/20 16:50	1
2-Chlorotoluene	ND		1.0		ug/L			04/03/20 16:50	1
2-Hexanone	ND		10		ug/L			04/03/20 16:50	1
4-Chlorotoluene	ND		1.0		ug/L			04/03/20 16:50	1
4-Isopropyltoluene	ND		1.0		ug/L			04/03/20 16:50	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/03/20 16:50	1
Acetone	ND		50		ug/L			04/03/20 16:50	1
Benzene	ND		1.0		ug/L			04/03/20 16:50	1
Bromobenzene	ND		1.0		ug/L			04/03/20 16:50	1
Bromoform	ND		1.0		ug/L			04/03/20 16:50	1
Bromomethane	ND		2.0		ug/L			04/03/20 16:50	1
Carbon disulfide	ND		10		ug/L			04/03/20 16:50	1
Carbon tetrachloride	ND		1.0		ug/L			04/03/20 16:50	1
Chlorobenzene	ND		1.0		ug/L			04/03/20 16:50	1
Chlorobromomethane	ND		1.0		ug/L			04/03/20 16:50	1
Chlorodibromomethane	ND		0.50		ug/L			04/03/20 16:50	1
Chloroethane	ND		2.0		ug/L			04/03/20 16:50	1
Chloroform	ND		1.0		ug/L			04/03/20 16:50	1
Chloromethane	ND		2.0		ug/L			04/03/20 16:50	1
cis-1,2-Dichloroethene	3.9		1.0		ug/L			04/03/20 16:50	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/03/20 16:50	1
Dichlorobromomethane	ND		0.50		ug/L			04/03/20 16:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/03/20 16:50	1
Ethyl ether	ND		1.0		ug/L			04/03/20 16:50	1
Ethylbenzene	ND		1.0		ug/L			04/03/20 16:50	1
Ethylene Dibromide	ND		1.0		ug/L			04/03/20 16:50	1
Hexachlorobutadiene	ND		0.40		ug/L			04/03/20 16:50	1
Isopropyl ether	ND		10		ug/L			04/03/20 16:50	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168039-1

Client Sample ID: MW-268M-20200401

Lab Sample ID: 480-168039-4

Date Collected: 04/01/20 07:15

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/03/20 16:50	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/03/20 16:50	1
Methylene Chloride	ND		1.0		ug/L			04/03/20 16:50	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/03/20 16:50	1
Naphthalene	ND		5.0		ug/L			04/03/20 16:50	1
n-Butylbenzene	ND		1.0		ug/L			04/03/20 16:50	1
N-Propylbenzene	ND		1.0		ug/L			04/03/20 16:50	1
o-Xylene	ND		1.0		ug/L			04/03/20 16:50	1
sec-Butylbenzene	ND		1.0		ug/L			04/03/20 16:50	1
Styrene	ND		1.0		ug/L			04/03/20 16:50	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/03/20 16:50	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/03/20 16:50	1
tert-Butylbenzene	ND		1.0		ug/L			04/03/20 16:50	1
Tetrachloroethene	ND		1.0		ug/L			04/03/20 16:50	1
Tetrahydrofuran	ND *		10		ug/L			04/03/20 16:50	1
Toluene	ND		1.0		ug/L			04/03/20 16:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/03/20 16:50	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/03/20 16:50	1
Trichloroethene	ND		1.0		ug/L			04/03/20 16:50	1
Trichlorofluoromethane	ND		1.0		ug/L			04/03/20 16:50	1
Vinyl chloride	12		1.0		ug/L			04/03/20 16:50	1
Dibromomethane	ND		1.0		ug/L			04/03/20 16:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	104		70 - 130		04/03/20 16:50	1
1,2-Dichloroethane-d4 (Surr)	107		70 - 130		04/03/20 16:50	1
4-Bromofluorobenzene (Surr)	112		70 - 130		04/03/20 16:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	9.8		0.20		ug/L		04/03/20 13:10	04/06/20 00:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	115		46 - 130	04/03/20 13:10	04/06/20 00:40	1

Method: 6010 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	36		0.050		mg/L		04/02/20 20:10	04/03/20 12:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33		1.0		mg/L			04/02/20 19:29	2
Sulfate	ND		4.0		mg/L			04/02/20 19:29	2
Ammonia	ND		0.20		mg/L		04/06/20 07:00	04/06/20 10:03	1
Nitrate as N	ND		0.050		mg/L			04/02/20 12:03	1
TOC Result 1	2.2		1.0		mg/L			04/05/20 09:50	1
TOC Result 2	2.2		1.0		mg/L			04/05/20 09:50	1
Total Organic Carbon - Duplicates	2.2		1.0		mg/L			04/05/20 09:50	1
Alkalinity, Total	270		5.0		mg/L			04/05/20 16:56	1
ortho-Phosphate	0.056		0.020		mg/L			04/02/20 16:13	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168039-1

Client Sample ID: MW-268M-20200401

Lab Sample ID: 480-168039-4

Date Collected: 04/01/20 07:15

Matrix: Water

Date Received: 04/02/20 08:00

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.1	HF	0.1		SU			04/05/20 15:30	1
Temperature	17.6	HF	0.001		Degrees C			04/05/20 15:30	1

Client Sample ID: MW-268D-20200401

Lab Sample ID: 480-168039-5

Date Collected: 04/01/20 08:23

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			04/03/20 17:15	2
1,1,1-Trichloroethane	ND		2.0		ug/L			04/03/20 17:15	2
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/03/20 17:15	2
1,1,2-Trichloroethane	ND		2.0		ug/L			04/03/20 17:15	2
1,1-Dichloroethane	2.1		2.0		ug/L			04/03/20 17:15	2
1,1-Dichloroethene	ND		2.0		ug/L			04/03/20 17:15	2
1,1-Dichloropropene	ND		2.0		ug/L			04/03/20 17:15	2
1,2,3-Trichlorobenzene	ND		2.0		ug/L			04/03/20 17:15	2
1,2,3-Trichloropropane	ND		2.0		ug/L			04/03/20 17:15	2
1,2,4-Trichlorobenzene	ND		2.0		ug/L			04/03/20 17:15	2
1,2,4-Trimethylbenzene	ND		2.0		ug/L			04/03/20 17:15	2
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			04/03/20 17:15	2
1,2-Dichlorobenzene	ND		2.0		ug/L			04/03/20 17:15	2
1,2-Dichloroethane	ND		2.0		ug/L			04/03/20 17:15	2
1,2-Dichloropropane	ND		2.0		ug/L			04/03/20 17:15	2
1,3,5-Trimethylbenzene	ND		2.0		ug/L			04/03/20 17:15	2
1,3-Dichlorobenzene	ND		2.0		ug/L			04/03/20 17:15	2
1,3-Dichloropropane	ND		2.0		ug/L			04/03/20 17:15	2
1,4-Dichlorobenzene	ND		2.0		ug/L			04/03/20 17:15	2
1,4-Dioxane	ND		100		ug/L			04/03/20 17:15	2
2,2-Dichloropropane	ND		2.0		ug/L			04/03/20 17:15	2
2-Butanone (MEK)	230	*	20		ug/L			04/03/20 17:15	2
2-Chlorotoluene	ND		2.0		ug/L			04/03/20 17:15	2
2-Hexanone	ND		20		ug/L			04/03/20 17:15	2
4-Chlorotoluene	ND		2.0		ug/L			04/03/20 17:15	2
4-Isopropyltoluene	ND		2.0		ug/L			04/03/20 17:15	2
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			04/03/20 17:15	2
Acetone	ND		100		ug/L			04/03/20 17:15	2
Benzene	2.9		2.0		ug/L			04/03/20 17:15	2
Bromobenzene	ND		2.0		ug/L			04/03/20 17:15	2
Bromoform	ND		2.0		ug/L			04/03/20 17:15	2
Bromomethane	ND		4.0		ug/L			04/03/20 17:15	2
Carbon disulfide	ND		20		ug/L			04/03/20 17:15	2
Carbon tetrachloride	ND		2.0		ug/L			04/03/20 17:15	2
Chlorobenzene	ND		2.0		ug/L			04/03/20 17:15	2
Chlorobromomethane	ND		2.0		ug/L			04/03/20 17:15	2
Chlorodibromomethane	ND		1.0		ug/L			04/03/20 17:15	2
Chloroethane	ND		4.0		ug/L			04/03/20 17:15	2
Chloroform	ND		2.0		ug/L			04/03/20 17:15	2
Chloromethane	ND		4.0		ug/L			04/03/20 17:15	2
cis-1,3-Dichloropropene	ND		0.80		ug/L			04/03/20 17:15	2
Dichlorobromomethane	ND		1.0		ug/L			04/03/20 17:15	2

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168039-1

Client Sample ID: MW-268D-20200401

Lab Sample ID: 480-168039-5

Date Collected: 04/01/20 08:23

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			04/03/20 17:15	2
Ethyl ether	ND		2.0		ug/L			04/03/20 17:15	2
Ethylbenzene	ND		2.0		ug/L			04/03/20 17:15	2
Ethylene Dibromide	ND		2.0		ug/L			04/03/20 17:15	2
Hexachlorobutadiene	ND		0.80		ug/L			04/03/20 17:15	2
Isopropyl ether	ND		20		ug/L			04/03/20 17:15	2
Isopropylbenzene	ND		2.0		ug/L			04/03/20 17:15	2
Methyl tert-butyl ether	ND		2.0		ug/L			04/03/20 17:15	2
Methylene Chloride	2.3		2.0		ug/L			04/03/20 17:15	2
m-Xylene & p-Xylene	ND		4.0		ug/L			04/03/20 17:15	2
Naphthalene	ND		10		ug/L			04/03/20 17:15	2
n-Butylbenzene	ND		2.0		ug/L			04/03/20 17:15	2
N-Propylbenzene	ND		2.0		ug/L			04/03/20 17:15	2
o-Xylene	ND		2.0		ug/L			04/03/20 17:15	2
sec-Butylbenzene	ND		2.0		ug/L			04/03/20 17:15	2
Styrene	ND		2.0		ug/L			04/03/20 17:15	2
Tert-amyl methyl ether	ND		10		ug/L			04/03/20 17:15	2
Tert-butyl ethyl ether	ND		10		ug/L			04/03/20 17:15	2
tert-Butylbenzene	ND		2.0		ug/L			04/03/20 17:15	2
Tetrachloroethene	ND		2.0		ug/L			04/03/20 17:15	2
Tetrahydrofuran	ND *		20		ug/L			04/03/20 17:15	2
Toluene	130		2.0		ug/L			04/03/20 17:15	2
trans-1,2-Dichloroethene	ND		2.0		ug/L			04/03/20 17:15	2
trans-1,3-Dichloropropene	ND		0.80		ug/L			04/03/20 17:15	2
Trichloroethene	95		2.0		ug/L			04/03/20 17:15	2
Trichlorofluoromethane	ND		2.0		ug/L			04/03/20 17:15	2
Vinyl chloride	4.5		2.0		ug/L			04/03/20 17:15	2
Dibromomethane	ND		2.0		ug/L			04/03/20 17:15	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	100		70 - 130		04/03/20 17:15	2
<i>1,2-Dichloroethane-d4 (Surr)</i>	97		70 - 130		04/03/20 17:15	2
<i>4-Bromofluorobenzene (Surr)</i>	106		70 - 130		04/03/20 17:15	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	390		8.0		ug/L			04/04/20 16:18	8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	103		70 - 130		04/04/20 16:18	8
<i>1,2-Dichloroethane-d4 (Surr)</i>	114		70 - 130		04/04/20 16:18	8
<i>4-Bromofluorobenzene (Surr)</i>	110		70 - 130		04/04/20 16:18	8

Client Sample ID: MW-261S-20200401

Lab Sample ID: 480-168039-6

Date Collected: 04/01/20 08:55

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/03/20 17:40	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/03/20 17:40	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168039-1

Client Sample ID: MW-261S-20200401

Lab Sample ID: 480-168039-6

Date Collected: 04/01/20 08:55

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/03/20 17:40	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/03/20 17:40	1
1,1-Dichloroethane	ND		1.0		ug/L			04/03/20 17:40	1
1,1-Dichloroethene	ND		1.0		ug/L			04/03/20 17:40	1
1,1-Dichloropropene	ND		1.0		ug/L			04/03/20 17:40	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/03/20 17:40	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/03/20 17:40	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/03/20 17:40	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/03/20 17:40	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/03/20 17:40	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/03/20 17:40	1
1,2-Dichloroethane	ND		1.0		ug/L			04/03/20 17:40	1
1,2-Dichloropropane	ND		1.0		ug/L			04/03/20 17:40	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/03/20 17:40	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/03/20 17:40	1
1,3-Dichloropropane	ND		1.0		ug/L			04/03/20 17:40	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/03/20 17:40	1
1,4-Dioxane	ND		50		ug/L			04/03/20 17:40	1
2,2-Dichloropropane	ND		1.0		ug/L			04/03/20 17:40	1
2-Butanone (MEK)	ND *		10		ug/L			04/03/20 17:40	1
2-Chlorotoluene	ND		1.0		ug/L			04/03/20 17:40	1
2-Hexanone	ND		10		ug/L			04/03/20 17:40	1
4-Chlorotoluene	ND		1.0		ug/L			04/03/20 17:40	1
4-Isopropyltoluene	ND		1.0		ug/L			04/03/20 17:40	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/03/20 17:40	1
Acetone	ND		50		ug/L			04/03/20 17:40	1
Benzene	ND		1.0		ug/L			04/03/20 17:40	1
Bromobenzene	ND		1.0		ug/L			04/03/20 17:40	1
Bromoform	ND		1.0		ug/L			04/03/20 17:40	1
Bromomethane	ND		2.0		ug/L			04/03/20 17:40	1
Carbon disulfide	ND		10		ug/L			04/03/20 17:40	1
Carbon tetrachloride	ND		1.0		ug/L			04/03/20 17:40	1
Chlorobenzene	ND		1.0		ug/L			04/03/20 17:40	1
Chlorobromomethane	ND		1.0		ug/L			04/03/20 17:40	1
Chlorodibromomethane	ND		0.50		ug/L			04/03/20 17:40	1
Chloroethane	ND		2.0		ug/L			04/03/20 17:40	1
Chloroform	ND		1.0		ug/L			04/03/20 17:40	1
Chloromethane	ND		2.0		ug/L			04/03/20 17:40	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/03/20 17:40	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/03/20 17:40	1
Dichlorobromomethane	ND		0.50		ug/L			04/03/20 17:40	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/03/20 17:40	1
Ethyl ether	ND		1.0		ug/L			04/03/20 17:40	1
Ethylbenzene	ND		1.0		ug/L			04/03/20 17:40	1
Ethylene Dibromide	ND		1.0		ug/L			04/03/20 17:40	1
Hexachlorobutadiene	ND		0.40		ug/L			04/03/20 17:40	1
Isopropyl ether	ND		10		ug/L			04/03/20 17:40	1
Isopropylbenzene	ND		1.0		ug/L			04/03/20 17:40	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/03/20 17:40	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168039-1

Client Sample ID: MW-261S-20200401

Lab Sample ID: 480-168039-6

Date Collected: 04/01/20 08:55

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0		ug/L			04/03/20 17:40	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/03/20 17:40	1
Naphthalene	ND		5.0		ug/L			04/03/20 17:40	1
n-Butylbenzene	ND		1.0		ug/L			04/03/20 17:40	1
N-Propylbenzene	ND		1.0		ug/L			04/03/20 17:40	1
o-Xylene	ND		1.0		ug/L			04/03/20 17:40	1
sec-Butylbenzene	ND		1.0		ug/L			04/03/20 17:40	1
Styrene	ND		1.0		ug/L			04/03/20 17:40	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/03/20 17:40	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/03/20 17:40	1
tert-Butylbenzene	ND		1.0		ug/L			04/03/20 17:40	1
Tetrachloroethene	ND		1.0		ug/L			04/03/20 17:40	1
Tetrahydrofuran	ND *		10		ug/L			04/03/20 17:40	1
Toluene	ND		1.0		ug/L			04/03/20 17:40	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/03/20 17:40	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/03/20 17:40	1
Trichloroethene	ND		1.0		ug/L			04/03/20 17:40	1
Trichlorofluoromethane	ND		1.0		ug/L			04/03/20 17:40	1
Vinyl chloride	ND		1.0		ug/L			04/03/20 17:40	1
Dibromomethane	ND		1.0		ug/L			04/03/20 17:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/03/20 17:40	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130		04/03/20 17:40	1
4-Bromofluorobenzene (Surr)	106		70 - 130		04/03/20 17:40	1

Method: 522 - 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		04/03/20 13:10	04/06/20 00:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	101		46 - 130	04/03/20 13:10	04/06/20 00:53	1

Client Sample ID: MW-551-20200401

Lab Sample ID: 480-168039-7

Date Collected: 04/01/20 08:15

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/03/20 18:04	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/03/20 18:04	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/03/20 18:04	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/03/20 18:04	1
1,1-Dichloroethane	ND		1.0		ug/L			04/03/20 18:04	1
1,1-Dichloroethene	ND		1.0		ug/L			04/03/20 18:04	1
1,1-Dichloropropene	ND		1.0		ug/L			04/03/20 18:04	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/03/20 18:04	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/03/20 18:04	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/03/20 18:04	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/03/20 18:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/03/20 18:04	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168039-1

Client Sample ID: MW-551-20200401

Lab Sample ID: 480-168039-7

Date Collected: 04/01/20 08:15

Matrix: Water

Date Received: 04/02/20 08:00

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			04/03/20 18:04	1
1,2-Dichloroethane	ND		1.0		ug/L			04/03/20 18:04	1
1,2-Dichloropropane	ND		1.0		ug/L			04/03/20 18:04	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/03/20 18:04	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/03/20 18:04	1
1,3-Dichloropropane	ND		1.0		ug/L			04/03/20 18:04	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/03/20 18:04	1
1,4-Dioxane	ND		50		ug/L			04/03/20 18:04	1
2,2-Dichloropropane	ND		1.0		ug/L			04/03/20 18:04	1
2-Butanone (MEK)	ND	*	10		ug/L			04/03/20 18:04	1
2-Chlorotoluene	ND		1.0		ug/L			04/03/20 18:04	1
2-Hexanone	ND		10		ug/L			04/03/20 18:04	1
4-Chlorotoluene	ND		1.0		ug/L			04/03/20 18:04	1
4-Isopropyltoluene	ND		1.0		ug/L			04/03/20 18:04	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/03/20 18:04	1
Acetone	ND		50		ug/L			04/03/20 18:04	1
Benzene	ND		1.0		ug/L			04/03/20 18:04	1
Bromobenzene	ND		1.0		ug/L			04/03/20 18:04	1
Bromoform	ND		1.0		ug/L			04/03/20 18:04	1
Bromomethane	ND		2.0		ug/L			04/03/20 18:04	1
Carbon disulfide	ND		10		ug/L			04/03/20 18:04	1
Carbon tetrachloride	ND		1.0		ug/L			04/03/20 18:04	1
Chlorobenzene	ND		1.0		ug/L			04/03/20 18:04	1
Chlorobromomethane	ND		1.0		ug/L			04/03/20 18:04	1
Chlorodibromomethane	ND		0.50		ug/L			04/03/20 18:04	1
Chloroethane	ND		2.0		ug/L			04/03/20 18:04	1
Chloroform	ND		1.0		ug/L			04/03/20 18:04	1
Chloromethane	ND		2.0		ug/L			04/03/20 18:04	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/03/20 18:04	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/03/20 18:04	1
Dichlorobromomethane	ND		0.50		ug/L			04/03/20 18:04	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/03/20 18:04	1
Ethyl ether	ND		1.0		ug/L			04/03/20 18:04	1
Ethylbenzene	1.2		1.0		ug/L			04/03/20 18:04	1
Ethylene Dibromide	ND		1.0		ug/L			04/03/20 18:04	1
Hexachlorobutadiene	ND		0.40		ug/L			04/03/20 18:04	1
Isopropyl ether	ND		10		ug/L			04/03/20 18:04	1
Isopropylbenzene	ND		1.0		ug/L			04/03/20 18:04	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/03/20 18:04	1
Methylene Chloride	ND		1.0		ug/L			04/03/20 18:04	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/03/20 18:04	1
Naphthalene	ND		5.0		ug/L			04/03/20 18:04	1
n-Butylbenzene	ND		1.0		ug/L			04/03/20 18:04	1
N-Propylbenzene	ND		1.0		ug/L			04/03/20 18:04	1
o-Xylene	ND		1.0		ug/L			04/03/20 18:04	1
sec-Butylbenzene	ND		1.0		ug/L			04/03/20 18:04	1
Styrene	ND		1.0		ug/L			04/03/20 18:04	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/03/20 18:04	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/03/20 18:04	1

Client Sample Results

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

Job ID: 480-168039-1

Client Sample ID: MW-551-20200401

Lab Sample ID: 480-168039-7

Date Collected: 04/01/20 08:15

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		1.0		ug/L			04/03/20 18:04	1
Tetrachloroethene	ND		1.0		ug/L			04/03/20 18:04	1
Tetrahydrofuran	ND	*	10		ug/L			04/03/20 18:04	1
Toluene	ND		1.0		ug/L			04/03/20 18:04	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/03/20 18:04	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/03/20 18:04	1
Trichloroethene	ND		1.0		ug/L			04/03/20 18:04	1
Trichlorofluoromethane	ND		1.0		ug/L			04/03/20 18:04	1
Vinyl chloride	ND		1.0		ug/L			04/03/20 18:04	1
Dibromomethane	ND		1.0		ug/L			04/03/20 18:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	112		70 - 130					04/03/20 18:04	1
1,2-Dichloroethane-d4 (Surr)	114		70 - 130					04/03/20 18:04	1
4-Bromofluorobenzene (Surr)	123		70 - 130					04/03/20 18:04	1

Client Sample ID: MW-552-20200401

Lab Sample ID: 480-168039-8

Date Collected: 04/01/20 09:35

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/03/20 18:28	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/03/20 18:28	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/03/20 18:28	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/03/20 18:28	1
1,1-Dichloroethane	ND		1.0		ug/L			04/03/20 18:28	1
1,1-Dichloroethene	ND		1.0		ug/L			04/03/20 18:28	1
1,1-Dichloropropene	ND		1.0		ug/L			04/03/20 18:28	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/03/20 18:28	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/03/20 18:28	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/03/20 18:28	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/03/20 18:28	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/03/20 18:28	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/03/20 18:28	1
1,2-Dichloroethane	ND		1.0		ug/L			04/03/20 18:28	1
1,2-Dichloropropane	ND		1.0		ug/L			04/03/20 18:28	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/03/20 18:28	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/03/20 18:28	1
1,3-Dichloropropane	ND		1.0		ug/L			04/03/20 18:28	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/03/20 18:28	1
1,4-Dioxane	ND		50		ug/L			04/03/20 18:28	1
2,2-Dichloropropane	ND		1.0		ug/L			04/03/20 18:28	1
2-Butanone (MEK)	ND	*	10		ug/L			04/03/20 18:28	1
2-Chlorotoluene	ND		1.0		ug/L			04/03/20 18:28	1
2-Hexanone	ND		10		ug/L			04/03/20 18:28	1
4-Chlorotoluene	ND		1.0		ug/L			04/03/20 18:28	1
4-Isopropyltoluene	ND		1.0		ug/L			04/03/20 18:28	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/03/20 18:28	1
Acetone	ND		50		ug/L			04/03/20 18:28	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168039-1

Client Sample ID: MW-552-20200401

Lab Sample ID: 480-168039-8

Date Collected: 04/01/20 09:35

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			04/03/20 18:28	1
Bromobenzene	ND		1.0		ug/L			04/03/20 18:28	1
Bromoform	ND		1.0		ug/L			04/03/20 18:28	1
Bromomethane	ND		2.0		ug/L			04/03/20 18:28	1
Carbon disulfide	ND		10		ug/L			04/03/20 18:28	1
Carbon tetrachloride	ND		1.0		ug/L			04/03/20 18:28	1
Chlorobenzene	ND		1.0		ug/L			04/03/20 18:28	1
Chlorobromomethane	ND		1.0		ug/L			04/03/20 18:28	1
Chlorodibromomethane	ND		0.50		ug/L			04/03/20 18:28	1
Chloroethane	ND		2.0		ug/L			04/03/20 18:28	1
Chloroform	ND		1.0		ug/L			04/03/20 18:28	1
Chloromethane	ND		2.0		ug/L			04/03/20 18:28	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/03/20 18:28	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/03/20 18:28	1
Dichlorobromomethane	ND		0.50		ug/L			04/03/20 18:28	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/03/20 18:28	1
Ethyl ether	ND		1.0		ug/L			04/03/20 18:28	1
Ethylbenzene	ND		1.0		ug/L			04/03/20 18:28	1
Ethylene Dibromide	ND		1.0		ug/L			04/03/20 18:28	1
Hexachlorobutadiene	ND		0.40		ug/L			04/03/20 18:28	1
Isopropyl ether	ND		10		ug/L			04/03/20 18:28	1
Isopropylbenzene	ND		1.0		ug/L			04/03/20 18:28	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/03/20 18:28	1
Methylene Chloride	ND		1.0		ug/L			04/03/20 18:28	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/03/20 18:28	1
Naphthalene	ND		5.0		ug/L			04/03/20 18:28	1
n-Butylbenzene	ND		1.0		ug/L			04/03/20 18:28	1
N-Propylbenzene	ND		1.0		ug/L			04/03/20 18:28	1
o-Xylene	ND		1.0		ug/L			04/03/20 18:28	1
sec-Butylbenzene	ND		1.0		ug/L			04/03/20 18:28	1
Styrene	ND		1.0		ug/L			04/03/20 18:28	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/03/20 18:28	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/03/20 18:28	1
tert-Butylbenzene	ND		1.0		ug/L			04/03/20 18:28	1
Tetrachloroethene	ND		1.0		ug/L			04/03/20 18:28	1
Tetrahydrofuran	ND	*	10		ug/L			04/03/20 18:28	1
Toluene	ND		1.0		ug/L			04/03/20 18:28	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/03/20 18:28	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/03/20 18:28	1
Trichloroethene	ND		1.0		ug/L			04/03/20 18:28	1
Trichlorofluoromethane	ND		1.0		ug/L			04/03/20 18:28	1
Vinyl chloride	ND		1.0		ug/L			04/03/20 18:28	1
Dibromomethane	ND		1.0		ug/L			04/03/20 18:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/03/20 18:28	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		04/03/20 18:28	1
4-Bromofluorobenzene (Surr)	106		70 - 130		04/03/20 18:28	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168039-1

Client Sample ID: MW-552-20200401

Lab Sample ID: 480-168039-8

Date Collected: 04/01/20 09:35

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.42		0.20		ug/L		04/03/20 13:10	04/06/20 01:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	101		46 - 130				04/03/20 13:10	04/06/20 01:06	1

Client Sample ID: MW-553-20200401

Lab Sample ID: 480-168039-9

Date Collected: 04/01/20 10:30

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/03/20 18:53	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/03/20 18:53	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/03/20 18:53	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/03/20 18:53	1
1,1-Dichloroethane	ND		1.0		ug/L			04/03/20 18:53	1
1,1-Dichloroethene	ND		1.0		ug/L			04/03/20 18:53	1
1,1-Dichloropropene	ND		1.0		ug/L			04/03/20 18:53	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/03/20 18:53	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/03/20 18:53	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/03/20 18:53	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/03/20 18:53	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/03/20 18:53	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/03/20 18:53	1
1,2-Dichloroethane	ND		1.0		ug/L			04/03/20 18:53	1
1,2-Dichloropropane	ND		1.0		ug/L			04/03/20 18:53	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/03/20 18:53	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/03/20 18:53	1
1,3-Dichloropropane	ND		1.0		ug/L			04/03/20 18:53	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/03/20 18:53	1
1,4-Dioxane	ND		50		ug/L			04/03/20 18:53	1
2,2-Dichloropropane	ND		1.0		ug/L			04/03/20 18:53	1
2-Butanone (MEK)	ND *		10		ug/L			04/03/20 18:53	1
2-Chlorotoluene	ND		1.0		ug/L			04/03/20 18:53	1
2-Hexanone	ND		10		ug/L			04/03/20 18:53	1
4-Chlorotoluene	ND		1.0		ug/L			04/03/20 18:53	1
4-Isopropyltoluene	ND		1.0		ug/L			04/03/20 18:53	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/03/20 18:53	1
Acetone	ND		50		ug/L			04/03/20 18:53	1
Benzene	ND		1.0		ug/L			04/03/20 18:53	1
Bromobenzene	ND		1.0		ug/L			04/03/20 18:53	1
Bromoform	ND		1.0		ug/L			04/03/20 18:53	1
Bromomethane	ND		2.0		ug/L			04/03/20 18:53	1
Carbon disulfide	ND		10		ug/L			04/03/20 18:53	1
Carbon tetrachloride	ND		1.0		ug/L			04/03/20 18:53	1
Chlorobenzene	ND		1.0		ug/L			04/03/20 18:53	1
Chlorobromomethane	ND		1.0		ug/L			04/03/20 18:53	1
Chlorodibromomethane	ND		0.50		ug/L			04/03/20 18:53	1
Chloroethane	ND		2.0		ug/L			04/03/20 18:53	1
Chloroform	ND		1.0		ug/L			04/03/20 18:53	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168039-1

Client Sample ID: MW-553-20200401

Lab Sample ID: 480-168039-9

Date Collected: 04/01/20 10:30

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		2.0		ug/L			04/03/20 18:53	1
cis-1,2-Dichloroethene	4.1		1.0		ug/L			04/03/20 18:53	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/03/20 18:53	1
Dichlorobromomethane	ND		0.50		ug/L			04/03/20 18:53	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/03/20 18:53	1
Ethyl ether	ND		1.0		ug/L			04/03/20 18:53	1
Ethylbenzene	2.3		1.0		ug/L			04/03/20 18:53	1
Ethylene Dibromide	ND		1.0		ug/L			04/03/20 18:53	1
Hexachlorobutadiene	ND		0.40		ug/L			04/03/20 18:53	1
Isopropyl ether	ND		10		ug/L			04/03/20 18:53	1
Isopropylbenzene	ND		1.0		ug/L			04/03/20 18:53	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/03/20 18:53	1
Methylene Chloride	ND		1.0		ug/L			04/03/20 18:53	1
m-Xylene & p-Xylene	4.8		2.0		ug/L			04/03/20 18:53	1
Naphthalene	ND		5.0		ug/L			04/03/20 18:53	1
n-Butylbenzene	ND		1.0		ug/L			04/03/20 18:53	1
N-Propylbenzene	ND		1.0		ug/L			04/03/20 18:53	1
o-Xylene	1.2		1.0		ug/L			04/03/20 18:53	1
sec-Butylbenzene	ND		1.0		ug/L			04/03/20 18:53	1
Styrene	ND		1.0		ug/L			04/03/20 18:53	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/03/20 18:53	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/03/20 18:53	1
tert-Butylbenzene	ND		1.0		ug/L			04/03/20 18:53	1
Tetrachloroethene	ND		1.0		ug/L			04/03/20 18:53	1
Tetrahydrofuran	ND *		10		ug/L			04/03/20 18:53	1
Toluene	1.9		1.0		ug/L			04/03/20 18:53	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/03/20 18:53	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/03/20 18:53	1
Trichloroethene	ND		1.0		ug/L			04/03/20 18:53	1
Trichlorofluoromethane	ND		1.0		ug/L			04/03/20 18:53	1
Vinyl chloride	4.8		1.0		ug/L			04/03/20 18:53	1
Dibromomethane	ND		1.0		ug/L			04/03/20 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	105		70 - 130		04/03/20 18:53	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	105		70 - 130		04/03/20 18:53	1
<i>4-Bromofluorobenzene (Surr)</i>	109		70 - 130		04/03/20 18:53	1

Client Sample ID: REW-8-2020401

Lab Sample ID: 480-168039-10

Date Collected: 04/01/20 10:05

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/03/20 19:17	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/03/20 19:17	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/03/20 19:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/03/20 19:17	1
1,1-Dichloroethane	ND		1.0		ug/L			04/03/20 19:17	1
1,1-Dichloroethene	ND		1.0		ug/L			04/03/20 19:17	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168039-1

Client Sample ID: REW-8-2020401

Lab Sample ID: 480-168039-10

Date Collected: 04/01/20 10:05

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	ND		1.0		ug/L			04/03/20 19:17	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/03/20 19:17	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/03/20 19:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/03/20 19:17	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/03/20 19:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/03/20 19:17	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/03/20 19:17	1
1,2-Dichloroethane	ND		1.0		ug/L			04/03/20 19:17	1
1,2-Dichloropropane	ND		1.0		ug/L			04/03/20 19:17	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/03/20 19:17	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/03/20 19:17	1
1,3-Dichloropropane	ND		1.0		ug/L			04/03/20 19:17	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/03/20 19:17	1
1,4-Dioxane	ND		50		ug/L			04/03/20 19:17	1
2,2-Dichloropropane	ND		1.0		ug/L			04/03/20 19:17	1
2-Butanone (MEK)	ND	*	10		ug/L			04/03/20 19:17	1
2-Chlorotoluene	ND		1.0		ug/L			04/03/20 19:17	1
2-Hexanone	ND		10		ug/L			04/03/20 19:17	1
4-Chlorotoluene	ND		1.0		ug/L			04/03/20 19:17	1
4-Isopropyltoluene	ND		1.0		ug/L			04/03/20 19:17	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/03/20 19:17	1
Acetone	ND		50		ug/L			04/03/20 19:17	1
Benzene	ND		1.0		ug/L			04/03/20 19:17	1
Bromobenzene	ND		1.0		ug/L			04/03/20 19:17	1
Bromoform	ND		1.0		ug/L			04/03/20 19:17	1
Bromomethane	ND		2.0		ug/L			04/03/20 19:17	1
Carbon disulfide	ND		10		ug/L			04/03/20 19:17	1
Carbon tetrachloride	ND		1.0		ug/L			04/03/20 19:17	1
Chlorobenzene	ND		1.0		ug/L			04/03/20 19:17	1
Chlorobromomethane	ND		1.0		ug/L			04/03/20 19:17	1
Chlorodibromomethane	ND		0.50		ug/L			04/03/20 19:17	1
Chloroethane	ND		2.0		ug/L			04/03/20 19:17	1
Chloroform	ND		1.0		ug/L			04/03/20 19:17	1
Chloromethane	ND		2.0		ug/L			04/03/20 19:17	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/03/20 19:17	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/03/20 19:17	1
Dichlorobromomethane	ND		0.50		ug/L			04/03/20 19:17	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/03/20 19:17	1
Ethyl ether	ND		1.0		ug/L			04/03/20 19:17	1
Ethylbenzene	ND		1.0		ug/L			04/03/20 19:17	1
Ethylene Dibromide	ND		1.0		ug/L			04/03/20 19:17	1
Hexachlorobutadiene	ND		0.40		ug/L			04/03/20 19:17	1
Isopropyl ether	ND		10		ug/L			04/03/20 19:17	1
Isopropylbenzene	ND		1.0		ug/L			04/03/20 19:17	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/03/20 19:17	1
Methylene Chloride	ND		1.0		ug/L			04/03/20 19:17	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/03/20 19:17	1
Naphthalene	ND		5.0		ug/L			04/03/20 19:17	1
n-Butylbenzene	ND		1.0		ug/L			04/03/20 19:17	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168039-1

Client Sample ID: REW-8-2020401

Lab Sample ID: 480-168039-10

Date Collected: 04/01/20 10:05

Matrix: Water

Date Received: 04/02/20 08:00

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			04/03/20 19:17	1
o-Xylene	ND		1.0		ug/L			04/03/20 19:17	1
sec-Butylbenzene	ND		1.0		ug/L			04/03/20 19:17	1
Styrene	ND		1.0		ug/L			04/03/20 19:17	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/03/20 19:17	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/03/20 19:17	1
tert-Butylbenzene	ND		1.0		ug/L			04/03/20 19:17	1
Tetrachloroethene	ND		1.0		ug/L			04/03/20 19:17	1
Tetrahydrofuran	ND	*	10		ug/L			04/03/20 19:17	1
Toluene	ND		1.0		ug/L			04/03/20 19:17	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/03/20 19:17	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/03/20 19:17	1
Trichloroethene	ND		1.0		ug/L			04/03/20 19:17	1
Trichlorofluoromethane	ND		1.0		ug/L			04/03/20 19:17	1
Vinyl chloride	ND		1.0		ug/L			04/03/20 19:17	1
Dibromomethane	ND		1.0		ug/L			04/03/20 19:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130					04/03/20 19:17	1
1,2-Dichloroethane-d4 (Surr)	103		70 - 130					04/03/20 19:17	1
4-Bromofluorobenzene (Surr)	106		70 - 130					04/03/20 19:17	1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-168039-11

Date Collected: 04/01/20 00:00

Matrix: Water

Date Received: 04/02/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/03/20 19:42	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/03/20 19:42	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/03/20 19:42	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/03/20 19:42	1
1,1-Dichloroethane	ND		1.0		ug/L			04/03/20 19:42	1
1,1-Dichloroethene	ND		1.0		ug/L			04/03/20 19:42	1
1,1-Dichloropropene	ND		1.0		ug/L			04/03/20 19:42	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/03/20 19:42	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/03/20 19:42	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/03/20 19:42	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/03/20 19:42	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/03/20 19:42	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/03/20 19:42	1
1,2-Dichloroethane	ND		1.0		ug/L			04/03/20 19:42	1
1,2-Dichloropropane	ND		1.0		ug/L			04/03/20 19:42	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/03/20 19:42	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/03/20 19:42	1
1,3-Dichloropropane	ND		1.0		ug/L			04/03/20 19:42	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/03/20 19:42	1
1,4-Dioxane	ND		50		ug/L			04/03/20 19:42	1
2,2-Dichloropropane	ND		1.0		ug/L			04/03/20 19:42	1
2-Butanone (MEK)	ND	*	10		ug/L			04/03/20 19:42	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168039-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-168039-11

Date Collected: 04/01/20 00:00

Matrix: Water

Date Received: 04/02/20 08:00

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			04/03/20 19:42	1
2-Hexanone	ND		10		ug/L			04/03/20 19:42	1
4-Chlorotoluene	ND		1.0		ug/L			04/03/20 19:42	1
4-Isopropyltoluene	ND		1.0		ug/L			04/03/20 19:42	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/03/20 19:42	1
Acetone	ND		50		ug/L			04/03/20 19:42	1
Benzene	ND		1.0		ug/L			04/03/20 19:42	1
Bromobenzene	ND		1.0		ug/L			04/03/20 19:42	1
Bromoform	ND		1.0		ug/L			04/03/20 19:42	1
Bromomethane	ND		2.0		ug/L			04/03/20 19:42	1
Carbon disulfide	ND		10		ug/L			04/03/20 19:42	1
Carbon tetrachloride	ND		1.0		ug/L			04/03/20 19:42	1
Chlorobenzene	ND		1.0		ug/L			04/03/20 19:42	1
Chlorobromomethane	ND		1.0		ug/L			04/03/20 19:42	1
Chlorodibromomethane	ND		0.50		ug/L			04/03/20 19:42	1
Chloroethane	ND		2.0		ug/L			04/03/20 19:42	1
Chloroform	ND		1.0		ug/L			04/03/20 19:42	1
Chloromethane	ND		2.0		ug/L			04/03/20 19:42	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/03/20 19:42	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/03/20 19:42	1
Dichlorobromomethane	ND		0.50		ug/L			04/03/20 19:42	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/03/20 19:42	1
Ethyl ether	ND		1.0		ug/L			04/03/20 19:42	1
Ethylbenzene	ND		1.0		ug/L			04/03/20 19:42	1
Ethylene Dibromide	ND		1.0		ug/L			04/03/20 19:42	1
Hexachlorobutadiene	ND		0.40		ug/L			04/03/20 19:42	1
Isopropyl ether	ND		10		ug/L			04/03/20 19:42	1
Isopropylbenzene	ND		1.0		ug/L			04/03/20 19:42	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/03/20 19:42	1
Methylene Chloride	ND		1.0		ug/L			04/03/20 19:42	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/03/20 19:42	1
Naphthalene	ND		5.0		ug/L			04/03/20 19:42	1
n-Butylbenzene	ND		1.0		ug/L			04/03/20 19:42	1
N-Propylbenzene	ND		1.0		ug/L			04/03/20 19:42	1
o-Xylene	ND		1.0		ug/L			04/03/20 19:42	1
sec-Butylbenzene	ND		1.0		ug/L			04/03/20 19:42	1
Styrene	ND		1.0		ug/L			04/03/20 19:42	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/03/20 19:42	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/03/20 19:42	1
tert-Butylbenzene	ND		1.0		ug/L			04/03/20 19:42	1
Tetrachloroethene	ND		1.0		ug/L			04/03/20 19:42	1
Tetrahydrofuran	ND *		10		ug/L			04/03/20 19:42	1
Toluene	ND		1.0		ug/L			04/03/20 19:42	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/03/20 19:42	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/03/20 19:42	1
Trichloroethene	ND		1.0		ug/L			04/03/20 19:42	1
Trichlorofluoromethane	ND		1.0		ug/L			04/03/20 19:42	1
Vinyl chloride	ND		1.0		ug/L			04/03/20 19:42	1
Dibromomethane	ND		1.0		ug/L			04/03/20 19:42	1

Client Sample Results

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

Job ID: 480-168039-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-168039-11

Date Collected: 04/01/20 00:00

Matrix: Water

Date Received: 04/02/20 08:00

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	104		70 - 130		04/03/20 19:42	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	103		70 - 130		04/03/20 19:42	1
<i>4-Bromofluorobenzene (Surr)</i>	111		70 - 130		04/03/20 19:42	1

Surrogate Summary

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

Job ID: 480-168039-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (70-130)	DCA (70-130)	BFB (70-130)
480-168039-1	MW-267S-20200401	99	98	104
480-168039-2	MW-267M-20200401	100	101	106
480-168039-3	MW-268S-20200401	102	98	103
480-168039-4	MW-268M-20200401	104	107	112
480-168039-5	MW-268D-20200401	100	97	106
480-168039-5 - DL	MW-268D-20200401	103	114	110
480-168039-6	MW-261S-20200401	100	103	106
480-168039-7	MW-551-20200401	112	114	123
480-168039-8	MW-552-20200401	100	102	106
480-168039-9	MW-553-20200401	105	105	109
480-168039-10	REW-8-2020401	97	103	106
480-168039-11	TRIP BLANKS	104	103	111
LCS 480-524219/5	Lab Control Sample	99	108	103
LCS 480-524310/5	Lab Control Sample	101	108	111
LCSD 480-524219/6	Lab Control Sample Dup	97	109	107
LCSD 480-524310/6	Lab Control Sample Dup	102	108	111
MB 480-524219/8	Method Blank	103	110	109
MB 480-524310/8	Method Blank	102	108	107

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DXE (46-130)
480-168039-1	MW-267S-20200401	11 X
480-168039-1 - RA	MW-267S-20200401	12 X
480-168039-2	MW-267M-20200401	105
480-168039-3	MW-268S-20200401	39 X
480-168039-3 - RA	MW-268S-20200401	35 X
480-168039-4	MW-268M-20200401	115
480-168039-6	MW-261S-20200401	101
480-168039-8	MW-552-20200401	101
LLCS 200-153852/2-A	Lab Control Sample	106
MB 200-153852/1-A	Method Blank	105

Surrogate Legend

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

QC Sample Results

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

Job ID: 480-168039-1

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

Lab Sample ID: MB 480-524219/8
Matrix: Water
Analysis Batch: 524219

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/03/20 14:14	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/03/20 14:14	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/03/20 14:14	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/03/20 14:14	1
1,1-Dichloroethane	ND		1.0		ug/L			04/03/20 14:14	1
1,1-Dichloroethene	ND		1.0		ug/L			04/03/20 14:14	1
1,1-Dichloropropene	ND		1.0		ug/L			04/03/20 14:14	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/03/20 14:14	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/03/20 14:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/03/20 14:14	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/03/20 14:14	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/03/20 14:14	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/03/20 14:14	1
1,2-Dichloroethane	ND		1.0		ug/L			04/03/20 14:14	1
1,2-Dichloropropane	ND		1.0		ug/L			04/03/20 14:14	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/03/20 14:14	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/03/20 14:14	1
1,3-Dichloropropane	ND		1.0		ug/L			04/03/20 14:14	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/03/20 14:14	1
1,4-Dioxane	ND		50		ug/L			04/03/20 14:14	1
2,2-Dichloropropane	ND		1.0		ug/L			04/03/20 14:14	1
2-Butanone (MEK)	ND		10		ug/L			04/03/20 14:14	1
2-Chlorotoluene	ND		1.0		ug/L			04/03/20 14:14	1
2-Hexanone	ND		10		ug/L			04/03/20 14:14	1
4-Chlorotoluene	ND		1.0		ug/L			04/03/20 14:14	1
4-Isopropyltoluene	ND		1.0		ug/L			04/03/20 14:14	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/03/20 14:14	1
Acetone	ND		50		ug/L			04/03/20 14:14	1
Benzene	ND		1.0		ug/L			04/03/20 14:14	1
Bromobenzene	ND		1.0		ug/L			04/03/20 14:14	1
Bromoform	ND		1.0		ug/L			04/03/20 14:14	1
Bromomethane	ND		2.0		ug/L			04/03/20 14:14	1
Carbon disulfide	ND		10		ug/L			04/03/20 14:14	1
Carbon tetrachloride	ND		1.0		ug/L			04/03/20 14:14	1
Chlorobenzene	ND		1.0		ug/L			04/03/20 14:14	1
Chlorobromomethane	ND		1.0		ug/L			04/03/20 14:14	1
Chlorodibromomethane	ND		0.50		ug/L			04/03/20 14:14	1
Chloroethane	ND		2.0		ug/L			04/03/20 14:14	1
Chloroform	ND		1.0		ug/L			04/03/20 14:14	1
Chloromethane	ND		2.0		ug/L			04/03/20 14:14	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/03/20 14:14	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/03/20 14:14	1
Dichlorobromomethane	ND		0.50		ug/L			04/03/20 14:14	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/03/20 14:14	1
Ethyl ether	ND		1.0		ug/L			04/03/20 14:14	1
Ethylbenzene	ND		1.0		ug/L			04/03/20 14:14	1
Ethylene Dibromide	ND		1.0		ug/L			04/03/20 14:14	1
Hexachlorobutadiene	ND		0.40		ug/L			04/03/20 14:14	1

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168039-1

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

Lab Sample ID: MB 480-524219/8
Matrix: Water
Analysis Batch: 524219

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			04/03/20 14:14	1
Isopropylbenzene	ND		1.0		ug/L			04/03/20 14:14	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/03/20 14:14	1
Methylene Chloride	ND		1.0		ug/L			04/03/20 14:14	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/03/20 14:14	1
Naphthalene	ND		5.0		ug/L			04/03/20 14:14	1
n-Butylbenzene	ND		1.0		ug/L			04/03/20 14:14	1
N-Propylbenzene	ND		1.0		ug/L			04/03/20 14:14	1
o-Xylene	ND		1.0		ug/L			04/03/20 14:14	1
sec-Butylbenzene	ND		1.0		ug/L			04/03/20 14:14	1
Styrene	ND		1.0		ug/L			04/03/20 14:14	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/03/20 14:14	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/03/20 14:14	1
tert-Butylbenzene	ND		1.0		ug/L			04/03/20 14:14	1
Tetrachloroethene	ND		1.0		ug/L			04/03/20 14:14	1
Tetrahydrofuran	ND		10		ug/L			04/03/20 14:14	1
Toluene	ND		1.0		ug/L			04/03/20 14:14	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/03/20 14:14	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/03/20 14:14	1
Trichloroethene	ND		1.0		ug/L			04/03/20 14:14	1
Trichlorofluoromethane	ND		1.0		ug/L			04/03/20 14:14	1
Vinyl chloride	ND		1.0		ug/L			04/03/20 14:14	1
Dibromomethane	ND		1.0		ug/L			04/03/20 14:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		70 - 130		04/03/20 14:14	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/03/20 14:14	1
4-Bromofluorobenzene (Surr)	109		70 - 130		04/03/20 14:14	1

Lab Sample ID: LCS 480-524219/5
Matrix: Water
Analysis Batch: 524219

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	27.9		ug/L		111	70 - 130
1,1,1-Trichloroethane	25.0	27.5		ug/L		110	70 - 130
1,1,2,2-Tetrachloroethane	25.0	27.3		ug/L		109	70 - 130
1,1,2-Trichloroethane	25.0	25.9		ug/L		103	70 - 130
1,1-Dichloroethane	25.0	27.7		ug/L		111	70 - 130
1,1-Dichloroethene	25.0	28.0		ug/L		112	70 - 130
1,1-Dichloropropene	25.0	27.7		ug/L		111	70 - 130
1,2,3-Trichlorobenzene	25.0	29.7		ug/L		119	70 - 130
1,2,3-Trichloropropane	25.0	27.7		ug/L		111	70 - 130
1,2,4-Trichlorobenzene	25.0	29.5		ug/L		118	70 - 130
1,2,4-Trimethylbenzene	25.0	28.3		ug/L		113	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.7		ug/L		99	70 - 130
1,2-Dichlorobenzene	25.0	27.4		ug/L		109	70 - 130
1,2-Dichloroethane	25.0	26.1		ug/L		104	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168039-1

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

Lab Sample ID: LCS 480-524219/5

Matrix: Water

Analysis Batch: 524219

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	27.0		ug/L		108	70 - 130
1,3,5-Trimethylbenzene	25.0	27.6		ug/L		110	70 - 130
1,3-Dichlorobenzene	25.0	27.0		ug/L		108	70 - 130
1,3-Dichloropropane	25.0	26.2		ug/L		105	70 - 130
1,4-Dichlorobenzene	25.0	27.5		ug/L		110	70 - 130
1,4-Dioxane	500	611		ug/L		122	70 - 130
2,2-Dichloropropane	25.0	26.6		ug/L		107	70 - 130
2-Butanone (MEK)	125	235	*	ug/L		188	70 - 130
2-Chlorotoluene	25.0	27.8		ug/L		111	70 - 130
2-Hexanone	125	122		ug/L		98	70 - 130
4-Chlorotoluene	25.0	30.9		ug/L		123	70 - 130
4-Isopropyltoluene	25.0	27.8		ug/L		111	70 - 130
4-Methyl-2-pentanone (MIBK)	125	127		ug/L		102	70 - 130
Acetone	125	156		ug/L		124	70 - 130
Benzene	25.0	27.2		ug/L		109	70 - 130
Bromobenzene	25.0	28.0		ug/L		112	70 - 130
Bromoform	25.0	27.3		ug/L		109	70 - 130
Bromomethane	25.0	25.7		ug/L		103	70 - 130
Carbon disulfide	25.0	27.7		ug/L		111	70 - 130
Carbon tetrachloride	25.0	27.9		ug/L		112	70 - 130
Chlorobenzene	25.0	26.9		ug/L		108	70 - 130
Chlorobromomethane	25.0	28.7		ug/L		115	70 - 130
Chlorodibromomethane	25.0	28.8		ug/L		115	70 - 130
Chloroethane	25.0	26.1		ug/L		104	70 - 130
Chloroform	25.0	26.4		ug/L		106	70 - 130
Chloromethane	25.0	25.9		ug/L		104	70 - 130
cis-1,2-Dichloroethene	25.0	28.1		ug/L		113	70 - 130
cis-1,3-Dichloropropene	25.0	28.0		ug/L		112	70 - 130
Dichlorobromomethane	25.0	27.5		ug/L		110	70 - 130
Dichlorodifluoromethane	25.0	31.5		ug/L		126	70 - 130
Ethyl ether	25.0	26.4		ug/L		106	70 - 130
Ethylbenzene	25.0	27.0		ug/L		108	70 - 130
Ethylene Dibromide	25.0	26.9		ug/L		108	70 - 130
Hexachlorobutadiene	25.0	29.8		ug/L		119	70 - 130
Isopropyl ether	25.0	25.9		ug/L		104	70 - 130
Isopropylbenzene	25.0	28.0		ug/L		112	70 - 130
Methyl tert-butyl ether	25.0	27.2		ug/L		109	70 - 130
Methylene Chloride	25.0	26.4		ug/L		106	70 - 130
m-Xylene & p-Xylene	25.0	27.0		ug/L		108	70 - 130
Naphthalene	25.0	28.8		ug/L		115	70 - 130
n-Butylbenzene	25.0	27.2		ug/L		109	70 - 130
N-Propylbenzene	25.0	27.5		ug/L		110	70 - 130
o-Xylene	25.0	27.1		ug/L		109	70 - 130
sec-Butylbenzene	25.0	27.8		ug/L		111	70 - 130
Styrene	25.0	27.8		ug/L		111	70 - 130
Tert-amyl methyl ether	25.0	27.3		ug/L		109	70 - 130
Tert-butyl ethyl ether	25.0	24.8		ug/L		99	70 - 130
tert-Butylbenzene	25.0	28.4		ug/L		114	70 - 130
Tetrachloroethene	25.0	30.0		ug/L		120	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168039-1

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

Lab Sample ID: LCS 480-524219/5

Matrix: Water

Analysis Batch: 524219

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrahydrofuran	50.0	70.8	*	ug/L		142	70 - 130
Toluene	25.0	27.4		ug/L		109	70 - 130
trans-1,2-Dichloroethene	25.0	28.5		ug/L		114	70 - 130
trans-1,3-Dichloropropene	25.0	27.2		ug/L		109	70 - 130
Trichloroethene	25.0	27.6		ug/L		110	70 - 130
Trichlorofluoromethane	25.0	27.8		ug/L		111	70 - 130
Vinyl chloride	25.0	27.6		ug/L		110	70 - 130
Dibromomethane	25.0	27.2		ug/L		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 480-524219/6

Matrix: Water

Analysis Batch: 524219

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	27.1		ug/L		108	70 - 130	3	20
1,1,1-Trichloroethane	25.0	26.5		ug/L		106	70 - 130	4	20
1,1,1,2-Tetrachloroethane	25.0	25.6		ug/L		102	70 - 130	7	20
1,1,2-Trichloroethane	25.0	25.7		ug/L		103	70 - 130	1	20
1,1-Dichloroethane	25.0	26.1		ug/L		104	70 - 130	6	20
1,1-Dichloroethene	25.0	24.8		ug/L		99	70 - 130	12	20
1,1-Dichloropropene	25.0	26.7		ug/L		107	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	25.7		ug/L		103	70 - 130	14	20
1,2,3-Trichloropropane	25.0	25.4		ug/L		102	70 - 130	9	20
1,2,4-Trichlorobenzene	25.0	26.2		ug/L		105	70 - 130	12	20
1,2,4-Trimethylbenzene	25.0	25.7		ug/L		103	70 - 130	10	20
1,2-Dibromo-3-Chloropropane	25.0	24.0		ug/L		96	70 - 130	3	20
1,2-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	8	20
1,2-Dichloroethane	25.0	25.3		ug/L		101	70 - 130	3	20
1,2-Dichloropropane	25.0	27.2		ug/L		109	70 - 130	1	20
1,3,5-Trimethylbenzene	25.0	25.4		ug/L		102	70 - 130	8	20
1,3-Dichlorobenzene	25.0	25.8		ug/L		103	70 - 130	4	20
1,3-Dichloropropane	25.0	25.7		ug/L		103	70 - 130	2	20
1,4-Dichlorobenzene	25.0	26.1		ug/L		104	70 - 130	5	20
1,4-Dioxane	500	506		ug/L		101	70 - 130	19	20
2,2-Dichloropropane	25.0	25.1		ug/L		101	70 - 130	6	20
2-Butanone (MEK)	125	249	*	ug/L		199	70 - 130	6	20
2-Chlorotoluene	25.0	25.8		ug/L		103	70 - 130	7	20
2-Hexanone	125	126		ug/L		101	70 - 130	3	20
4-Chlorotoluene	25.0	28.2		ug/L		113	70 - 130	9	20
4-Isopropyltoluene	25.0	25.3		ug/L		101	70 - 130	9	20
4-Methyl-2-pentanone (MIBK)	125	123		ug/L		98	70 - 130	4	20
Acetone	125	131		ug/L		105	70 - 130	17	20
Benzene	25.0	26.4		ug/L		106	70 - 130	3	20

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168039-1

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

Lab Sample ID: LCSD 480-524219/6

Matrix: Water

Analysis Batch: 524219

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
Bromobenzene	25.0	26.1		ug/L		104	70 - 130	7	20
Bromoform	25.0	26.5		ug/L		106	70 - 130	3	20
Bromomethane	25.0	25.4		ug/L		101	70 - 130	1	20
Carbon disulfide	25.0	25.2		ug/L		101	70 - 130	10	20
Carbon tetrachloride	25.0	26.7		ug/L		107	70 - 130	4	20
Chlorobenzene	25.0	25.7		ug/L		103	70 - 130	5	20
Chlorobromomethane	25.0	27.4		ug/L		110	70 - 130	4	20
Chlorodibromomethane	25.0	27.0		ug/L		108	70 - 130	6	20
Chloroethane	25.0	25.1		ug/L		101	70 - 130	4	20
Chloroform	25.0	24.6		ug/L		98	70 - 130	7	20
Chloromethane	25.0	24.0		ug/L		96	70 - 130	8	20
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	70 - 130	10	20
cis-1,3-Dichloropropene	25.0	28.5		ug/L		114	70 - 130	2	20
Dichlorobromomethane	25.0	27.4		ug/L		109	70 - 130	0	20
Dichlorodifluoromethane	25.0	29.5		ug/L		118	70 - 130	6	20
Ethyl ether	25.0	26.0		ug/L		104	70 - 130	2	20
Ethylbenzene	25.0	25.6		ug/L		103	70 - 130	5	20
Ethylene Dibromide	25.0	26.3		ug/L		105	70 - 130	2	20
Hexachlorobutadiene	25.0	26.6		ug/L		107	70 - 130	11	20
Isopropyl ether	25.0	25.2		ug/L		101	70 - 130	3	20
Isopropylbenzene	25.0	25.6		ug/L		103	70 - 130	9	20
Methyl tert-butyl ether	25.0	25.3		ug/L		101	70 - 130	7	20
Methylene Chloride	25.0	24.2		ug/L		97	70 - 130	9	20
m-Xylene & p-Xylene	25.0	25.7		ug/L		103	70 - 130	5	20
Naphthalene	25.0	25.2		ug/L		101	70 - 130	13	20
n-Butylbenzene	25.0	24.8		ug/L		99	70 - 130	9	20
N-Propylbenzene	25.0	25.2		ug/L		101	70 - 130	9	20
o-Xylene	25.0	25.5		ug/L		102	70 - 130	6	20
sec-Butylbenzene	25.0	25.1		ug/L		101	70 - 130	10	20
Styrene	25.0	27.2		ug/L		109	70 - 130	2	20
Tert-amyl methyl ether	25.0	24.4		ug/L		97	70 - 130	11	20
Tert-butyl ethyl ether	25.0	23.2		ug/L		93	70 - 130	7	20
tert-Butylbenzene	25.0	26.2		ug/L		105	70 - 130	8	20
Tetrachloroethene	25.0	28.5		ug/L		114	70 - 130	5	20
Tetrahydrofuran	50.0	67.9	*	ug/L		136	70 - 130	4	20
Toluene	25.0	25.9		ug/L		103	70 - 130	6	20
trans-1,2-Dichloroethene	25.0	26.5		ug/L		106	70 - 130	7	20
trans-1,3-Dichloropropene	25.0	26.1		ug/L		104	70 - 130	4	20
Trichloroethene	25.0	26.7		ug/L		107	70 - 130	3	20
Trichlorofluoromethane	25.0	26.2		ug/L		105	70 - 130	6	20
Vinyl chloride	25.0	24.9		ug/L		100	70 - 130	10	20
Dibromomethane	25.0	26.1		ug/L		105	70 - 130	4	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	107		70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168039-1

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

Lab Sample ID: MB 480-524310/8
Matrix: Water
Analysis Batch: 524310

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/04/20 14:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/04/20 14:34	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/04/20 14:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/04/20 14:34	1
1,1-Dichloroethane	ND		1.0		ug/L			04/04/20 14:34	1
1,1-Dichloroethene	ND		1.0		ug/L			04/04/20 14:34	1
1,1-Dichloropropene	ND		1.0		ug/L			04/04/20 14:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/04/20 14:34	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/04/20 14:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/04/20 14:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/04/20 14:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/04/20 14:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/04/20 14:34	1
1,2-Dichloroethane	ND		1.0		ug/L			04/04/20 14:34	1
1,2-Dichloropropane	ND		1.0		ug/L			04/04/20 14:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/04/20 14:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/04/20 14:34	1
1,3-Dichloropropane	ND		1.0		ug/L			04/04/20 14:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/04/20 14:34	1
1,4-Dioxane	ND		50		ug/L			04/04/20 14:34	1
2,2-Dichloropropane	ND		1.0		ug/L			04/04/20 14:34	1
2-Butanone (MEK)	ND		10		ug/L			04/04/20 14:34	1
2-Chlorotoluene	ND		1.0		ug/L			04/04/20 14:34	1
2-Hexanone	ND		10		ug/L			04/04/20 14:34	1
4-Chlorotoluene	ND		1.0		ug/L			04/04/20 14:34	1
4-Isopropyltoluene	ND		1.0		ug/L			04/04/20 14:34	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/04/20 14:34	1
Acetone	ND		50		ug/L			04/04/20 14:34	1
Benzene	ND		1.0		ug/L			04/04/20 14:34	1
Bromobenzene	ND		1.0		ug/L			04/04/20 14:34	1
Bromoform	ND		1.0		ug/L			04/04/20 14:34	1
Bromomethane	ND		2.0		ug/L			04/04/20 14:34	1
Carbon disulfide	ND		10		ug/L			04/04/20 14:34	1
Carbon tetrachloride	ND		1.0		ug/L			04/04/20 14:34	1
Chlorobenzene	ND		1.0		ug/L			04/04/20 14:34	1
Chlorobromomethane	ND		1.0		ug/L			04/04/20 14:34	1
Chlorodibromomethane	ND		0.50		ug/L			04/04/20 14:34	1
Chloroethane	ND		2.0		ug/L			04/04/20 14:34	1
Chloroform	ND		1.0		ug/L			04/04/20 14:34	1
Chloromethane	ND		2.0		ug/L			04/04/20 14:34	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/04/20 14:34	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/04/20 14:34	1
Dichlorobromomethane	ND		0.50		ug/L			04/04/20 14:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/04/20 14:34	1
Ethyl ether	ND		1.0		ug/L			04/04/20 14:34	1
Ethylbenzene	ND		1.0		ug/L			04/04/20 14:34	1
Ethylene Dibromide	ND		1.0		ug/L			04/04/20 14:34	1
Hexachlorobutadiene	ND		0.40		ug/L			04/04/20 14:34	1

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168039-1

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

Lab Sample ID: MB 480-524310/8
Matrix: Water
Analysis Batch: 524310

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			04/04/20 14:34	1
Isopropylbenzene	ND		1.0		ug/L			04/04/20 14:34	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/04/20 14:34	1
Methylene Chloride	ND		1.0		ug/L			04/04/20 14:34	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/04/20 14:34	1
Naphthalene	ND		5.0		ug/L			04/04/20 14:34	1
n-Butylbenzene	ND		1.0		ug/L			04/04/20 14:34	1
N-Propylbenzene	ND		1.0		ug/L			04/04/20 14:34	1
o-Xylene	ND		1.0		ug/L			04/04/20 14:34	1
sec-Butylbenzene	ND		1.0		ug/L			04/04/20 14:34	1
Styrene	ND		1.0		ug/L			04/04/20 14:34	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/04/20 14:34	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/04/20 14:34	1
tert-Butylbenzene	ND		1.0		ug/L			04/04/20 14:34	1
Tetrachloroethene	ND		1.0		ug/L			04/04/20 14:34	1
Tetrahydrofuran	ND		10		ug/L			04/04/20 14:34	1
Toluene	ND		1.0		ug/L			04/04/20 14:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/04/20 14:34	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/04/20 14:34	1
Trichloroethene	ND		1.0		ug/L			04/04/20 14:34	1
Trichlorofluoromethane	ND		1.0		ug/L			04/04/20 14:34	1
Vinyl chloride	ND		1.0		ug/L			04/04/20 14:34	1
Dibromomethane	ND		1.0		ug/L			04/04/20 14:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		70 - 130		04/04/20 14:34	1
1,2-Dichloroethane-d4 (Surr)	108		70 - 130		04/04/20 14:34	1
4-Bromofluorobenzene (Surr)	107		70 - 130		04/04/20 14:34	1

Lab Sample ID: LCS 480-524310/5
Matrix: Water
Analysis Batch: 524310

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.6		ug/L		106	70 - 130
1,1,1-Trichloroethane	25.0	24.7		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.2		ug/L		93	70 - 130
1,1,2-Trichloroethane	25.0	25.6		ug/L		102	70 - 130
1,1-Dichloroethane	25.0	26.1		ug/L		104	70 - 130
1,1-Dichloroethene	25.0	23.2		ug/L		93	70 - 130
1,1-Dichloropropene	25.0	25.9		ug/L		104	70 - 130
1,2,3-Trichlorobenzene	25.0	26.6		ug/L		106	70 - 130
1,2,3-Trichloropropane	25.0	23.9		ug/L		96	70 - 130
1,2,4-Trichlorobenzene	25.0	26.5		ug/L		106	70 - 130
1,2,4-Trimethylbenzene	25.0	25.7		ug/L		103	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	20.9		ug/L		84	70 - 130
1,2-Dichlorobenzene	25.0	26.4		ug/L		106	70 - 130
1,2-Dichloroethane	25.0	25.8		ug/L		103	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168039-1

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

Lab Sample ID: LCS 480-524310/5

Matrix: Water

Analysis Batch: 524310

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	27.5		ug/L		110	70 - 130
1,3,5-Trimethylbenzene	25.0	24.8		ug/L		99	70 - 130
1,3-Dichlorobenzene	25.0	26.1		ug/L		105	70 - 130
1,3-Dichloropropane	25.0	26.0		ug/L		104	70 - 130
1,4-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130
1,4-Dioxane	500	584		ug/L		117	70 - 130
2,2-Dichloropropane	25.0	24.9		ug/L		100	70 - 130
2-Butanone (MEK)	125	201 *		ug/L		161	70 - 130
2-Chlorotoluene	25.0	26.0		ug/L		104	70 - 130
2-Hexanone	125	110		ug/L		88	70 - 130
4-Chlorotoluene	25.0	23.6		ug/L		94	70 - 130
4-Isopropyltoluene	25.0	25.0		ug/L		100	70 - 130
4-Methyl-2-pentanone (MIBK)	125	110		ug/L		88	70 - 130
Acetone	125	115		ug/L		92	70 - 130
Benzene	25.0	26.1		ug/L		104	70 - 130
Bromobenzene	25.0	25.9		ug/L		104	70 - 130
Bromoform	25.0	25.0		ug/L		100	70 - 130
Bromomethane	25.0	24.7		ug/L		99	70 - 130
Carbon disulfide	25.0	23.8		ug/L		95	70 - 130
Carbon tetrachloride	25.0	24.2		ug/L		97	70 - 130
Chlorobenzene	25.0	25.9		ug/L		104	70 - 130
Chlorobromomethane	25.0	26.9		ug/L		107	70 - 130
Chlorodibromomethane	25.0	26.5		ug/L		106	70 - 130
Chloroethane	25.0	26.4		ug/L		106	70 - 130
Chloroform	25.0	24.9		ug/L		100	70 - 130
Chloromethane	25.0	23.8		ug/L		95	70 - 130
cis-1,2-Dichloroethene	25.0	25.9		ug/L		104	70 - 130
cis-1,3-Dichloropropene	25.0	28.3		ug/L		113	70 - 130
Dichlorobromomethane	25.0	27.2		ug/L		109	70 - 130
Dichlorodifluoromethane	25.0	22.0		ug/L		88	70 - 130
Ethyl ether	25.0	25.9		ug/L		103	70 - 130
Ethylbenzene	25.0	25.0		ug/L		100	70 - 130
Ethylene Dibromide	25.0	24.5		ug/L		98	70 - 130
Hexachlorobutadiene	25.0	24.2		ug/L		97	70 - 130
Isopropyl ether	25.0	28.9		ug/L		116	70 - 130
Isopropylbenzene	25.0	24.6		ug/L		98	70 - 130
Methyl tert-butyl ether	25.0	26.3		ug/L		105	70 - 130
Methylene Chloride	25.0	26.5		ug/L		106	70 - 130
m-Xylene & p-Xylene	25.0	25.2		ug/L		101	70 - 130
Naphthalene	25.0	23.9		ug/L		96	70 - 130
n-Butylbenzene	25.0	24.7		ug/L		99	70 - 130
N-Propylbenzene	25.0	24.4		ug/L		98	70 - 130
o-Xylene	25.0	25.3		ug/L		101	70 - 130
sec-Butylbenzene	25.0	23.6		ug/L		95	70 - 130
Styrene	25.0	26.7		ug/L		107	70 - 130
Tert-amyl methyl ether	25.0	29.0		ug/L		116	70 - 130
Tert-butyl ethyl ether	25.0	29.2		ug/L		117	70 - 130
tert-Butylbenzene	25.0	25.4		ug/L		101	70 - 130
Tetrachloroethene	25.0	27.1		ug/L		108	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168039-1

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

Lab Sample ID: LCS 480-524310/5

Matrix: Water

Analysis Batch: 524310

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrahydrofuran	50.0	58.2		ug/L		116	70 - 130
Toluene	25.0	25.4		ug/L		101	70 - 130
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	70 - 130
trans-1,3-Dichloropropene	25.0	26.0		ug/L		104	70 - 130
Trichloroethene	25.0	26.3		ug/L		105	70 - 130
Trichlorofluoromethane	25.0	22.9		ug/L		92	70 - 130
Vinyl chloride	25.0	23.8		ug/L		95	70 - 130
Dibromomethane	25.0	26.0		ug/L		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 480-524310/6

Matrix: Water

Analysis Batch: 524310

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	4	20
1,1,1-Trichloroethane	25.0	23.8		ug/L		95	70 - 130	4	20
1,1,1,2-Tetrachloroethane	25.0	23.0		ug/L		92	70 - 130	1	20
1,1,2-Trichloroethane	25.0	25.8		ug/L		103	70 - 130	1	20
1,1-Dichloroethane	25.0	25.8		ug/L		103	70 - 130	1	20
1,1-Dichloroethene	25.0	22.4		ug/L		89	70 - 130	4	20
1,1-Dichloropropene	25.0	25.0		ug/L		100	70 - 130	3	20
1,2,3-Trichlorobenzene	25.0	26.5		ug/L		106	70 - 130	0	20
1,2,3-Trichloropropane	25.0	23.9		ug/L		95	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	27.1		ug/L		108	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	24.9		ug/L		99	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	25.0	21.0		ug/L		84	70 - 130	1	20
1,2-Dichlorobenzene	25.0	25.9		ug/L		104	70 - 130	2	20
1,2-Dichloroethane	25.0	25.6		ug/L		102	70 - 130	1	20
1,2-Dichloropropane	25.0	26.8		ug/L		107	70 - 130	2	20
1,3,5-Trimethylbenzene	25.0	24.5		ug/L		98	70 - 130	1	20
1,3-Dichlorobenzene	25.0	26.1		ug/L		104	70 - 130	0	20
1,3-Dichloropropane	25.0	26.2		ug/L		105	70 - 130	1	20
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	70 - 130	4	20
1,4-Dioxane	500	608		ug/L		122	70 - 130	4	20
2,2-Dichloropropane	25.0	24.0		ug/L		96	70 - 130	4	20
2-Butanone (MEK)	125	201	*	ug/L		161	70 - 130	0	20
2-Chlorotoluene	25.0	25.8		ug/L		103	70 - 130	1	20
2-Hexanone	125	112		ug/L		90	70 - 130	1	20
4-Chlorotoluene	25.0	23.0		ug/L		92	70 - 130	3	20
4-Isopropyltoluene	25.0	24.3		ug/L		97	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	125	111		ug/L		89	70 - 130	1	20
Acetone	125	116		ug/L		93	70 - 130	1	20
Benzene	25.0	25.5		ug/L		102	70 - 130	2	20

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168039-1

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

Lab Sample ID: LCSD 480-524310/6
Matrix: Water
Analysis Batch: 524310

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
Bromobenzene	25.0	25.9		ug/L		104	70 - 130	0	20
Bromoform	25.0	25.8		ug/L		103	70 - 130	3	20
Bromomethane	25.0	23.2		ug/L		93	70 - 130	7	20
Carbon disulfide	25.0	23.1		ug/L		92	70 - 130	3	20
Carbon tetrachloride	25.0	23.4		ug/L		94	70 - 130	4	20
Chlorobenzene	25.0	25.7		ug/L		103	70 - 130	1	20
Chlorobromomethane	25.0	26.2		ug/L		105	70 - 130	3	20
Chlorodibromomethane	25.0	26.6		ug/L		106	70 - 130	0	20
Chloroethane	25.0	25.2		ug/L		101	70 - 130	5	20
Chloroform	25.0	24.6		ug/L		99	70 - 130	1	20
Chloromethane	25.0	22.9		ug/L		92	70 - 130	4	20
cis-1,2-Dichloroethene	25.0	25.4		ug/L		102	70 - 130	2	20
cis-1,3-Dichloropropene	25.0	27.5		ug/L		110	70 - 130	3	20
Dichlorobromomethane	25.0	27.2		ug/L		109	70 - 130	0	20
Dichlorodifluoromethane	25.0	21.1		ug/L		84	70 - 130	4	20
Ethyl ether	25.0	25.5		ug/L		102	70 - 130	1	20
Ethylbenzene	25.0	24.6		ug/L		98	70 - 130	2	20
Ethylene Dibromide	25.0	25.7		ug/L		103	70 - 130	5	20
Hexachlorobutadiene	25.0	23.8		ug/L		95	70 - 130	1	20
Isopropyl ether	25.0	28.5		ug/L		114	70 - 130	1	20
Isopropylbenzene	25.0	24.0		ug/L		96	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	3	20
m-Xylene & p-Xylene	25.0	25.0		ug/L		100	70 - 130	1	20
Naphthalene	25.0	24.0		ug/L		96	70 - 130	0	20
n-Butylbenzene	25.0	24.1		ug/L		96	70 - 130	3	20
N-Propylbenzene	25.0	23.7		ug/L		95	70 - 130	3	20
o-Xylene	25.0	25.2		ug/L		101	70 - 130	1	20
sec-Butylbenzene	25.0	23.4		ug/L		94	70 - 130	1	20
Styrene	25.0	26.5		ug/L		106	70 - 130	1	20
Tert-amyl methyl ether	25.0	28.6		ug/L		114	70 - 130	1	20
Tert-butyl ethyl ether	25.0	28.5		ug/L		114	70 - 130	2	20
tert-Butylbenzene	25.0	24.9		ug/L		100	70 - 130	2	20
Tetrachloroethene	25.0	26.4		ug/L		106	70 - 130	3	20
Tetrahydrofuran	50.0	59.0		ug/L		118	70 - 130	1	20
Toluene	25.0	24.8		ug/L		99	70 - 130	2	20
trans-1,2-Dichloroethene	25.0	24.3		ug/L		97	70 - 130	4	20
trans-1,3-Dichloropropene	25.0	26.6		ug/L		106	70 - 130	2	20
Trichloroethene	25.0	26.1		ug/L		104	70 - 130	1	20
Trichlorofluoromethane	25.0	21.9		ug/L		88	70 - 130	4	20
Vinyl chloride	25.0	22.6		ug/L		90	70 - 130	5	20
Dibromomethane	25.0	26.1		ug/L		104	70 - 130	0	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	111		70 - 130

QC Sample Results

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

Job ID: 480-168039-1

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

Lab Sample ID: MB 200-153852/1-A
Matrix: Water
Analysis Batch: 153876

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 153852

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/03/20 13:10	04/05/20 23:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	105		46 - 130				04/03/20 13:10	04/05/20 23:46	1

Lab Sample ID: LLCS 200-153852/2-A
Matrix: Water
Analysis Batch: 153876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153852

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.200	0.234		ug/L		117	50 - 150
Surrogate	LLCS %Recovery	LLCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	106		46 - 130				

Method: 6010 - Metals (ICP)

Lab Sample ID: MB 480-524121/1-A
Matrix: Water
Analysis Batch: 524435

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 524121

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050		mg/L		04/02/20 20:10	04/03/20 11:55	1

Lab Sample ID: LCS 480-524121/2-A
Matrix: Water
Analysis Batch: 524435

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 524121

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

Lab Sample ID: LCSD 480-524121/3-A
Matrix: Water
Analysis Batch: 524435

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 524121

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	10.0	10.6		mg/L		106	80 - 120	6	20

Lab Sample ID: 480-168039-3 MS
Matrix: Water
Analysis Batch: 524435

Client Sample ID: MW-268S-20200401
Prep Type: Total/NA
Prep Batch: 524121

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	110		10.0	97.7	4	mg/L		-79	75 - 125

QC Sample Results

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

Job ID: 480-168039-1

Method: 6010 - Metals (ICP) (Continued)

Lab Sample ID: 480-168039-3 MSD
Matrix: Water
Analysis Batch: 524435

Client Sample ID: MW-268S-20200401
Prep Type: Total/NA
Prep Batch: 524121

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	110		10.0	116	4	mg/L		102	75 - 125	17	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-524053/28
Matrix: Water
Analysis Batch: 524053

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			04/02/20 17:51	1
Sulfate	ND		2.0		mg/L			04/02/20 17:51	1

Lab Sample ID: LCS 480-524053/27
Matrix: Water
Analysis Batch: 524053

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.7		mg/L		99	90 - 110
Sulfate	50.0	47.3		mg/L		95	90 - 110

Lab Sample ID: MB 480-524730/4
Matrix: Water
Analysis Batch: 524730

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50		mg/L			04/09/20 20:22	1
Sulfate	ND		2.0		mg/L			04/09/20 20:22	1

Lab Sample ID: LCS 480-524730/3
Matrix: Water
Analysis Batch: 524730

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.3		mg/L		99	90 - 110
Sulfate	50.0	49.7		mg/L		99	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: 480-168039-3 MS
Matrix: Water
Analysis Batch: 524504

Client Sample ID: MW-268S-20200401
Prep Type: Total/NA
Prep Batch: 524457

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	ND		0.200	ND		mg/L		99	90 - 110

QC Sample Results

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

Job ID: 480-168039-1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: MB 480-524504/17
Matrix: Water
Analysis Batch: 524504

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.20		mg/L			04/06/20 09:50	1

Lab Sample ID: LCS 480-524504/18
Matrix: Water
Analysis Batch: 524504

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	1.00	0.992		mg/L		99	90 - 110

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

Lab Sample ID: MB 480-524491/27
Matrix: Water
Analysis Batch: 524491

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0		mg/L			04/05/20 06:32	1
TOC Result 2	ND		1.0		mg/L			04/05/20 06:32	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			04/05/20 06:32	1

Lab Sample ID: LCS 480-524491/28
Matrix: Water
Analysis Batch: 524491

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	60.0	62.2		mg/L		104	90 - 110
TOC Result 2	60.0	62.6		mg/L		104	90 - 110
Total Organic Carbon - Duplicates	60.0	62.4		mg/L		104	90 - 110

Lab Sample ID: 480-168039-3 DU
Matrix: Water
Analysis Batch: 524491

Client Sample ID: MW-268S-20200401
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
TOC Result 1	4900		5000		mg/L		3	20
TOC Result 2	4900		5020		mg/L		3	20
Total Organic Carbon - Duplicates	4900		5010		mg/L		3	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-524546/4
Matrix: Water
Analysis Batch: 524546

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0		mg/L			04/05/20 14:51	1

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QC Sample Results

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

Job ID: 480-168039-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 480-524546/5
Matrix: Water
Analysis Batch: 524546

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	102		mg/L		102	90 - 110

Method: SM 4500 P E - Orthophosphate

Lab Sample ID: MB 480-524102/3
Matrix: Water
Analysis Batch: 524102

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ortho-Phosphate	ND		0.020		mg/L			04/02/20 16:13	1

Lab Sample ID: LCS 480-524102/4
Matrix: Water
Analysis Batch: 524102

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.200	0.182		mg/L		91	90 - 110

Lab Sample ID: 480-168039-4 MS
Matrix: Water
Analysis Batch: 524102

Client Sample ID: MW-268M-20200401
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
ortho-Phosphate	0.056		0.100	0.135		mg/L		79	49 - 138

Lab Sample ID: 480-168039-3 DU
Matrix: Water
Analysis Batch: 524102

Client Sample ID: MW-268S-20200401
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
ortho-Phosphate	0.12		0.148		mg/L		19	20

QC Association Summary

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

Job ID: 480-168039-1

GC/MS VOA

Analysis Batch: 524219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168039-1	MW-267S-20200401	Total/NA	Water	8260C	
480-168039-2	MW-267M-20200401	Total/NA	Water	8260C	
480-168039-3	MW-268S-20200401	Total/NA	Water	8260C	
480-168039-4	MW-268M-20200401	Total/NA	Water	8260C	
480-168039-5	MW-268D-20200401	Total/NA	Water	8260C	
480-168039-6	MW-261S-20200401	Total/NA	Water	8260C	
480-168039-7	MW-551-20200401	Total/NA	Water	8260C	
480-168039-8	MW-552-20200401	Total/NA	Water	8260C	
480-168039-9	MW-553-20200401	Total/NA	Water	8260C	
480-168039-10	REW-8-2020401	Total/NA	Water	8260C	
480-168039-11	TRIP BLANKS	Total/NA	Water	8260C	
MB 480-524219/8	Method Blank	Total/NA	Water	8260C	
LCS 480-524219/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-524219/6	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 524310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168039-5 - DL	MW-268D-20200401	Total/NA	Water	8260C	
MB 480-524310/8	Method Blank	Total/NA	Water	8260C	
LCS 480-524310/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-524310/6	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 153852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168039-1 - RA	MW-267S-20200401	Total/NA	Water	522	
480-168039-1	MW-267S-20200401	Total/NA	Water	522	
480-168039-2	MW-267M-20200401	Total/NA	Water	522	
480-168039-3	MW-268S-20200401	Total/NA	Water	522	
480-168039-3 - RA	MW-268S-20200401	Total/NA	Water	522	
480-168039-4	MW-268M-20200401	Total/NA	Water	522	
480-168039-6	MW-261S-20200401	Total/NA	Water	522	
480-168039-8	MW-552-20200401	Total/NA	Water	522	
MB 200-153852/1-A	Method Blank	Total/NA	Water	522	
LLCS 200-153852/2-A	Lab Control Sample	Total/NA	Water	522	

Analysis Batch: 153876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168039-1	MW-267S-20200401	Total/NA	Water	522	153852
480-168039-1 - RA	MW-267S-20200401	Total/NA	Water	522	153852
480-168039-2	MW-267M-20200401	Total/NA	Water	522	153852
480-168039-3	MW-268S-20200401	Total/NA	Water	522	153852
480-168039-3 - RA	MW-268S-20200401	Total/NA	Water	522	153852
480-168039-4	MW-268M-20200401	Total/NA	Water	522	153852
480-168039-6	MW-261S-20200401	Total/NA	Water	522	153852
480-168039-8	MW-552-20200401	Total/NA	Water	522	153852
MB 200-153852/1-A	Method Blank	Total/NA	Water	522	153852
LLCS 200-153852/2-A	Lab Control Sample	Total/NA	Water	522	153852

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QC Association Summary

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

Job ID: 480-168039-1

Metals

Prep Batch: 524121

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168039-3	MW-268S-20200401	Total/NA	Water	3005A	
480-168039-4	MW-268M-20200401	Total/NA	Water	3005A	
MB 480-524121/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-524121/2-A	Lab Control Sample	Total/NA	Water	3005A	
LCSD 480-524121/3-A	Lab Control Sample Dup	Total/NA	Water	3005A	
480-168039-3 MS	MW-268S-20200401	Total/NA	Water	3005A	
480-168039-3 MSD	MW-268S-20200401	Total/NA	Water	3005A	

Analysis Batch: 524435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168039-3	MW-268S-20200401	Total/NA	Water	6010	524121
480-168039-4	MW-268M-20200401	Total/NA	Water	6010	524121
MB 480-524121/1-A	Method Blank	Total/NA	Water	6010	524121
LCS 480-524121/2-A	Lab Control Sample	Total/NA	Water	6010	524121
LCSD 480-524121/3-A	Lab Control Sample Dup	Total/NA	Water	6010	524121
480-168039-3 MS	MW-268S-20200401	Total/NA	Water	6010	524121
480-168039-3 MSD	MW-268S-20200401	Total/NA	Water	6010	524121

General Chemistry

Analysis Batch: 524053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168039-4	MW-268M-20200401	Total/NA	Water	300.0	
MB 480-524053/28	Method Blank	Total/NA	Water	300.0	
LCS 480-524053/27	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 524074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168039-3	MW-268S-20200401	Total/NA	Water	353.2	
480-168039-4	MW-268M-20200401	Total/NA	Water	353.2	

Analysis Batch: 524102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168039-3	MW-268S-20200401	Total/NA	Water	SM 4500 P E	
480-168039-4	MW-268M-20200401	Total/NA	Water	SM 4500 P E	
MB 480-524102/3	Method Blank	Total/NA	Water	SM 4500 P E	
LCS 480-524102/4	Lab Control Sample	Total/NA	Water	SM 4500 P E	
480-168039-4 MS	MW-268M-20200401	Total/NA	Water	SM 4500 P E	
480-168039-3 DU	MW-268S-20200401	Total/NA	Water	SM 4500 P E	

Analysis Batch: 524450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168039-3	MW-268S-20200401	Total/NA	Water	9040C	
480-168039-4	MW-268M-20200401	Total/NA	Water	9040C	
LCS 480-524450/1	Lab Control Sample	Total/NA	Water	9040C	

Prep Batch: 524457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168039-3	MW-268S-20200401	Total/NA	Water	Distill/Ammonia	
480-168039-4	MW-268M-20200401	Total/NA	Water	Distill/Ammonia	
480-168039-3 MS	MW-268S-20200401	Total/NA	Water	Distill/Ammonia	

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QC Association Summary

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

Job ID: 480-168039-1

General Chemistry

Analysis Batch: 524491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168039-3	MW-268S-20200401	Total/NA	Water	9060A	
480-168039-4	MW-268M-20200401	Total/NA	Water	9060A	
MB 480-524491/27	Method Blank	Total/NA	Water	9060A	
LCS 480-524491/28	Lab Control Sample	Total/NA	Water	9060A	
480-168039-3 DU	MW-268S-20200401	Total/NA	Water	9060A	

Analysis Batch: 524504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168039-3	MW-268S-20200401	Total/NA	Water	350.1	524457
480-168039-4	MW-268M-20200401	Total/NA	Water	350.1	524457
MB 480-524504/17	Method Blank	Total/NA	Water	350.1	
LCS 480-524504/18	Lab Control Sample	Total/NA	Water	350.1	
480-168039-3 MS	MW-268S-20200401	Total/NA	Water	350.1	524457

Analysis Batch: 524546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168039-3	MW-268S-20200401	Total/NA	Water	SM 2320B	
480-168039-4	MW-268M-20200401	Total/NA	Water	SM 2320B	
MB 480-524546/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-524546/5	Lab Control Sample	Total/NA	Water	SM 2320B	

Analysis Batch: 524730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168039-3	MW-268S-20200401	Total/NA	Water	300.0	
MB 480-524730/4	Method Blank	Total/NA	Water	300.0	
LCS 480-524730/3	Lab Control Sample	Total/NA	Water	300.0	

Lab Chronicle

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

Job ID: 480-168039-1

Client Sample ID: MW-267S-20200401

Lab Sample ID: 480-168039-1

Date Collected: 04/01/20 08:45

Matrix: Water

Date Received: 04/02/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	524219	04/03/20 15:37	CRL	TAL BUF
Total/NA	Prep	522			153852	04/03/20 13:10	EK	TAL BUR
Total/NA	Analysis	522		1	153876	04/05/20 23:59	MLF	TAL BUR
Total/NA	Prep	522	RA		153852	04/03/20 13:10	EK	TAL BUR
Total/NA	Analysis	522	RA	1	153876	04/06/20 11:36	MLF	TAL BUR

Client Sample ID: MW-267M-20200401

Lab Sample ID: 480-168039-2

Date Collected: 04/01/20 09:25

Matrix: Water

Date Received: 04/02/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524219	04/03/20 16:02	CRL	TAL BUF
Total/NA	Prep	522			153852	04/03/20 13:10	EK	TAL BUR
Total/NA	Analysis	522		1	153876	04/06/20 00:13	MLF	TAL BUR

Client Sample ID: MW-268S-20200401

Lab Sample ID: 480-168039-3

Date Collected: 04/01/20 06:20

Matrix: Water

Date Received: 04/02/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	524219	04/03/20 16:26	CRL	TAL BUF
Total/NA	Prep	522			153852	04/03/20 13:10	EK	TAL BUR
Total/NA	Analysis	522		1	153876	04/06/20 00:26	MLF	TAL BUR
Total/NA	Prep	522	RA		153852	04/03/20 13:10	EK	TAL BUR
Total/NA	Analysis	522	RA	1	153876	04/06/20 12:03	MLF	TAL BUR
Total/NA	Prep	3005A			524121	04/02/20 20:10	NSW	TAL BUF
Total/NA	Analysis	6010		1	524435	04/03/20 12:06	LMH	TAL BUF
Total/NA	Analysis	300.0		10	524730	04/09/20 20:50	IMZ	TAL BUF
Total/NA	Prep	Distill/Ammonia			524457	04/06/20 07:00	CLT	TAL BUF
Total/NA	Analysis	350.1		1	524504	04/06/20 09:58	CLT	TAL BUF
Total/NA	Analysis	353.2		1	524074	04/02/20 12:02	SRA	TAL BUF
Total/NA	Analysis	9040C		1	524450	04/05/20 15:27	BEF	TAL BUF
Total/NA	Analysis	9060A		100	524491	04/05/20 08:54	IMZ	TAL BUF
Total/NA	Analysis	SM 2320B		1	524546	04/05/20 16:48	BEF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	524102	04/02/20 16:13	CRK	TAL BUF

Client Sample ID: MW-268M-20200401

Lab Sample ID: 480-168039-4

Date Collected: 04/01/20 07:15

Matrix: Water

Date Received: 04/02/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524219	04/03/20 16:50	CRL	TAL BUF
Total/NA	Prep	522			153852	04/03/20 13:10	EK	TAL BUR
Total/NA	Analysis	522		1	153876	04/06/20 00:40	MLF	TAL BUR

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Lab Chronicle

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

Job ID: 480-168039-1

Client Sample ID: MW-268M-20200401

Lab Sample ID: 480-168039-4

Date Collected: 04/01/20 07:15

Matrix: Water

Date Received: 04/02/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3005A			524121	04/02/20 20:10	NSW	TAL BUF
Total/NA	Analysis	6010		1	524435	04/03/20 12:26	LMH	TAL BUF
Total/NA	Analysis	300.0		2	524053	04/02/20 19:29	IMZ	TAL BUF
Total/NA	Prep	Distill/Ammonia			524457	04/06/20 07:00	CLT	TAL BUF
Total/NA	Analysis	350.1		1	524504	04/06/20 10:03	CLT	TAL BUF
Total/NA	Analysis	353.2		1	524074	04/02/20 12:03	SRA	TAL BUF
Total/NA	Analysis	9040C		1	524450	04/05/20 15:30	BEF	TAL BUF
Total/NA	Analysis	9060A		1	524491	04/05/20 09:50	IMZ	TAL BUF
Total/NA	Analysis	SM 2320B		1	524546	04/05/20 16:56	BEF	TAL BUF
Total/NA	Analysis	SM 4500 P E		1	524102	04/02/20 16:13	CRK	TAL BUF

Client Sample ID: MW-268D-20200401

Lab Sample ID: 480-168039-5

Date Collected: 04/01/20 08:23

Matrix: Water

Date Received: 04/02/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	524219	04/03/20 17:15	CRL	TAL BUF
Total/NA	Analysis	8260C	DL	8	524310	04/04/20 16:18	RJF	TAL BUF

Client Sample ID: MW-261S-20200401

Lab Sample ID: 480-168039-6

Date Collected: 04/01/20 08:55

Matrix: Water

Date Received: 04/02/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524219	04/03/20 17:40	CRL	TAL BUF
Total/NA	Prep	522			153852	04/03/20 13:10	EK	TAL BUR
Total/NA	Analysis	522		1	153876	04/06/20 00:53	MLF	TAL BUR

Client Sample ID: MW-551-20200401

Lab Sample ID: 480-168039-7

Date Collected: 04/01/20 08:15

Matrix: Water

Date Received: 04/02/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524219	04/03/20 18:04	CRL	TAL BUF

Client Sample ID: MW-552-20200401

Lab Sample ID: 480-168039-8

Date Collected: 04/01/20 09:35

Matrix: Water

Date Received: 04/02/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524219	04/03/20 18:28	CRL	TAL BUF
Total/NA	Prep	522			153852	04/03/20 13:10	EK	TAL BUR
Total/NA	Analysis	522		1	153876	04/06/20 01:06	MLF	TAL BUR

Eurofins TestAmerica, Buffalo

Lab Chronicle

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

Job ID: 480-168039-1

Client Sample ID: MW-553-20200401

Lab Sample ID: 480-168039-9

Date Collected: 04/01/20 10:30

Matrix: Water

Date Received: 04/02/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524219	04/03/20 18:53	CRL	TAL BUF

Client Sample ID: REW-8-2020401

Lab Sample ID: 480-168039-10

Date Collected: 04/01/20 10:05

Matrix: Water

Date Received: 04/02/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524219	04/03/20 19:17	CRL	TAL BUF

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-168039-11

Date Collected: 04/01/20 00:00

Matrix: Water

Date Received: 04/02/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524219	04/03/20 19:42	CRL	TAL BUF

Laboratory References:

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

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

Accreditation/Certification Summary

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

Job ID: 480-168039-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-20
California	State	2931	04-01-20 *
Connecticut	State	PH-0568	09-30-20
Florida	NELAP	E87672	06-30-20
Georgia	State	10026 (NY)	04-01-21
Georgia	State Program	N/A	03-31-09 *
Georgia (DW)	State	956	03-31-20 *
Illinois	NELAP	200003	09-30-20
Iowa	State	374	02-28-21
Kansas	NELAP	E-10187	01-31-20 *
Kentucky (DW)	State	90029	12-31-20
Kentucky (UST)	State	30	04-01-21
Kentucky (WW)	State	KY90029	12-31-20
Louisiana	NELAP	02031	06-30-20
Maine	State	NY00044	12-04-20
Maryland	State	294	04-01-21
Massachusetts	State	M-NY044	06-30-20
Michigan	State	9937	03-31-20 *
Michigan	State Program	9937	04-01-09 *
Minnesota	NELAP	1524384	12-31-20
New Hampshire	NELAP	2337	11-18-20
New Jersey	NELAP	NY455	06-30-20
New York	NELAP	10026	04-02-21
North Dakota	State	R-176	03-31-20 *
Oklahoma	State	9421	09-01-20
Oregon	NELAP	NY200003	06-10-20
Pennsylvania	NELAP	68-00281	07-31-20
Rhode Island	State	LAO00328	12-30-20
Tennessee	State	02970	03-31-20 *
Texas	NELAP	T104704412-18-10	08-01-20
USDA	US Federal Programs	P330-18-00039	02-06-21
Virginia	NELAP	460185	09-14-20
Washington	State	C784	02-11-21
Wisconsin	State	998310390	08-31-20

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

Accreditation/Certification Summary

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

Job ID: 480-168039-1

Laboratory: Eurofins TestAmerica, Burlington

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-15-20
Florida	NELAP	E87467	06-30-20
Minnesota	NELAP	050-999-436	12-31-20
New Hampshire	NELAP	2006	12-18-20
New Jersey	NELAP	VT972	06-30-20
New York	NELAP	10391	04-01-21
Pennsylvania	NELAP	68-00489	04-30-21
Rhode Island	State	LAO00298	12-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00272	08-09-20
Vermont	State	VT4000	12-31-20
Virginia	NELAP	460209	12-14-20

Method Summary

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

Job ID: 480-168039-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
522	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR
6010	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
350.1	Nitrogen, Ammonia	MCAWW	TAL BUF
353.2	Nitrate	EPA	TAL BUF
9040C	pH	SW846	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 4500 P E	Orthophosphate	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
522	Solid-Phase Extraction (SPE)	EPA	TAL BUR
Distill/Ammonia	Distillation, Ammonia	None	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

MA DEP = Massachusetts Department Of Environmental Protection

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

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

Sample Summary

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

Job ID: 480-168039-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-168039-1	MW-267S-20200401	Water	04/01/20 08:45	04/02/20 08:00	
480-168039-2	MW-267M-20200401	Water	04/01/20 09:25	04/02/20 08:00	
480-168039-3	MW-268S-20200401	Water	04/01/20 06:20	04/02/20 08:00	
480-168039-4	MW-268M-20200401	Water	04/01/20 07:15	04/02/20 08:00	
480-168039-5	MW-268D-20200401	Water	04/01/20 08:23	04/02/20 08:00	
480-168039-6	MW-261S-20200401	Water	04/01/20 08:55	04/02/20 08:00	
480-168039-7	MW-551-20200401	Water	04/01/20 08:15	04/02/20 08:00	
480-168039-8	MW-552-20200401	Water	04/01/20 09:35	04/02/20 08:00	
480-168039-9	MW-553-20200401	Water	04/01/20 10:30	04/02/20 08:00	
480-168039-10	REW-8-2020401	Water	04/01/20 10:05	04/02/20 08:00	
480-168039-11	TRIP BLANKS	Water	04/01/20 00:00	04/02/20 08:00	

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-168039-1

Login Number: 168039

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Yeager, Brian A

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	INNOVATIVE
Samples received within 48 hours of sampling.	True	
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: 480-168039-1

Login Number: 168039

List Number: 2

Creator: Mohn, Taylor J

List Source: Eurofins TestAmerica, Burlington

List Creation: 04/03/20 11:55 AM

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	Seal present with no number.
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.6°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Boston #215 Chain of Custody Record

TestAmerica Boston

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Boston
240 Bear Hill Road -- Suite 104
Waltham MA 02451
Phone: (781) 466-6900 Fax: (781) 466-6900

TestAmerica Westfield
501 Southampton Road
Westfield MA 01085
Phone: (413) 572-4000 Fax: (303) 467-7247

Client Information:
 Client Contact: Viki Parinen
 Company: INNOVATIVE ENGINEERING SOLUTIONS INC
 Address: 37 Pearl St
 City: Braintree
 State and Zip: MA 02184
 Client's Phone: 508-668-0033
 Client's Contact Email: v.parinen@iestonline.com
 Client's Project Name/Number: Braintree Wayland RA-008
 Sample Collection Site Name & Location: Wayland MA

Sample Collector's Name (Please Print Neatly): Doreen Rolfs
 Sample Collector's Phone: 508-404-3196
 Lab PM: Lab COC Barcode Label
 E-Mail:
 Due Date Requested: 4/18/20
 Turnaround Time (TAT) Requested (business days): 5 days

Quote # or Project #: RA-008
 PO #: RA-008
 W/O #:
 PWS ID #:
 Matrix Type **

Sample Identification	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Preservation Codes =>	Analysis Requested	Total Number of Containers	Special Instructions & Notes:
MW-2675 - 20200401	4/11/20	0845	C	A	8260mcp	4	CW-3
MW-2677 - 20200401	4/11/20	0925	C	X	350.1 NH3	4	RESQUIREMENTS
MW-2685 - 20200401	4/11/20	0620	C	X	350.1 NH3	11	
MW-268M - 20200401	4/11/20	0715	C	X	6010 Total Alkalinity	11	
MW-268D - 20200401	4/11/20	0805	C	X	2320B Alkalinity	3	
MW-2615 - 20200401	4/11/20	0855	C	X	4500+ NH3	4	
MW-351 - 20200401	4/11/20	0815	C	X	330.0-2320B Alkalinity	3	
MW-352 - 20200401	4/11/20	0935	C	X	330.0-2320B Alkalinity	4	
MW-353 - 20200401	4/11/20	1030	C	X	330.0-2320B Alkalinity	3	
MW-352 - 20200401	4/11/20		C	X	330.0-2320B Alkalinity	3	

Subcontract Policy: Unless you provide instructions to the contrary, or specify which sub-contract labs are or are not to be used, you agree in advance to permit TestAmerica to use certified subcontract labs, without any additional notification made by us, as necessary to fulfill your work order.

Return To Client Disposal By Lab Archive For _____ Months

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):

NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!

Relinquished by: [Signature] Date/Time: 4/11/20 11:25 Company: IESJ
 Relinquished by: [Signature] Date/Time: 4/11/20 16:00 Company: FA
 Relinquished by: [Signature] Date/Time: _____ Company: _____

Custody Seals Intact: Yes No
 Custody Seal No.: # 2 2.5

TestAmerica Westfield
 501 Southampton Road
 Westfield MA 01085
 Phone: (413) 572-4000 Fax: (303) 467-7247

TestAmerica Boston
 240 Bear Hill Road -- Suite 104
 Waltham MA 02451
 Phone: (781) 466-6900 Fax: (781) 466-6907

Boston Chain of Custody Record #215

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information:
 Client Contact: Niki Perrineau
 Company: INNOVATIVE ENGINEERING SOLUTIONS INC
 Address: 37 Pearl St
 City: Braintree
 State and Zip: MA 02184
 Client's Phone: 508-668-0033
 Client's Contact Email: nperrineau@iesolutions.com
 Client's Project Name/Number: Braintree Woodlands RA-008
 Sample Collection Site Name & Location: Woodlands MA

Sample Information:
 Sample Collector's Name (Please Print Neatly): Diana Sotres, Debra Rolfs
 Sample Collector's Phone: 508-404-3196
 Lab P/N: 41365
 Lab COC Barcode Label: 1 of 9
 Job #: 9

Analysis Requested

Sample ID #	Sample Collection Date (MM/DD/YY)	Sample Collection Time (24 Hour Clock)	Sample Type: C=Comp G=Grab	Matrix Type **	Preservation Codes	Analysis Requested	Total Number of Containers (enter total for each line)
260MCP	4/11/20	0845	G	W	A A A S D N N N	260MCP	1
350-1 N H3	4/11/20	0935	G	W		350-1 N H3	4
350-1 N H3	4/11/20	0935	G	W		350-1 N H3	4
350-1 N H3	4/11/20	0935	G	W		350-1 N H3	11
350-1 N H3	4/11/20	0935	G	W		350-1 N H3	11
350-1 N H3	4/11/20	0935	G	W		350-1 N H3	3
350-1 N H3	4/11/20	0935	G	W		350-1 N H3	4
350-1 N H3	4/11/20	0935	G	W		350-1 N H3	3
350-1 N H3	4/11/20	0935	G	W		350-1 N H3	4
350-1 N H3	4/11/20	0935	G	W		350-1 N H3	3
350-1 N H3	4/11/20	0935	G	W		350-1 N H3	3

Preservation Codes:
 A - Hydrochloric Acid
 B - Sodium Hydroxide
 C - Zinc Acetate
 D - Nitric Acid
 E - Sodium Bisulfite
 F - Methanol
 H - Ascorbic Acid
 J - Deionized Water
 M - Hexane
 N - No Preservative
 P - Sodium Sulfate
 Q - Sodium Sulfite
 R - Sodium Thiosulfate
 S - Sulfuric Acid
 Z - other (specify)

Regulatory Programs:
 MCP GW/1S1
 RCP CT RSR
 DEP Form EDD Required
 eDEP Filing NPDES

Special Instructions & Notes:
 SUBCONTRACT POLICY: advance to permit TestAmerica to use certified. Unless you provide in-structions to the contrary, or subcontract labs, without specify which sub-contract any additional notification labs are or are not to be made by us, as necessary to fulfill your work order.
 CW-3
 Requirements

Sample Disposal Requirements (A fee may be assessed if samples are retained longer than 1 month):
 Return To Client Disposal By Lab Archive For _____ Months
NOTE!! ALL SAMPLES MUST BE TRANSPORTED IN A COOLER, ON ICE !!

Received by:
 Received by: Taylor Johnson Date/Time: 4/13/20 10:35
 Received by: Taylor Johnson Date/Time: 4/13/20 10:35
 Received by: Taylor Johnson Date/Time: 4/13/20 10:35

Company:
 Company: IES
 Company: IES
 Company: IES

Cooler Temperature(s) °C and Other Remarks:
 Cooler Temperature(s) °C and Other Remarks: 0.6

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

SHIP DATE: 01APR20
ACTWGT: 25.55 LB
CAD: 590687/CAFE3311

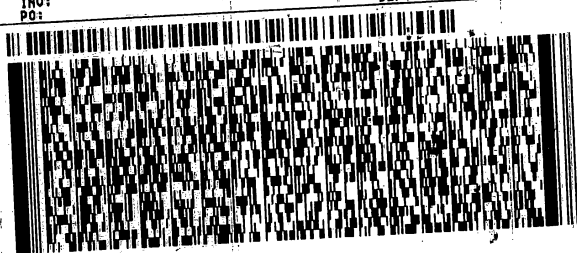
BILL RECIPIENT

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

(802) 680-1990
PH:

REF:

DEPT:



FedEx
Express



119121908200111

TRK# 4258 8395 8047
0201

THU - 02 APR 10:30A
PRIORITY OVERNIGHT

NL BTVA

05403
VT-US **BTV**



ANALYTICAL REPORT

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

Laboratory Job ID: 480-168178-1
Client Project/Site: IDS Wayland
Revision: 2

For:
Innovative Engineering Solutions, Inc
37 Pearl St
1
Braintree, Massachusetts 02184

Attn: Vicki Pariyar



Authorized for release by:
4/16/2020 9:04:48 AM

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

LINKS

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results through
TotalAccess

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www.testamericainc.com

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

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

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



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Definitions/Glossary

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

Job ID: 480-168178-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

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

Job ID: 480-168178-1

Job ID: 480-168178-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-168178-1

Revised report: Corrected sample ID for DEP-21-202004 03 (480-168178-1).

Receipt

The samples were received on 4/4/2020 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5° C.

Receipt Exceptions

Revision create to update sample ID.

GC/MS VOA

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

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

Method 8260C: The initial calibration verification (ICV) result for batch 480-524474 was above the upper control limit. MCP protocol allows for difficult analytes to have a percent recovery over 30% provided the recoveries are between 40-160%. The associated samples are: MW-561-20200402 (480-168178-10), MW-562-202004 (480-168178-11), MW-563-20200402 (480-168178-12), REW-1-202004 (480-168178-13), REW-4-202004 (480-168178-14), REW-5-202004 (480-168178-15), REW-9-20200402 (480-168178-16), REW-10-20200402 (480-168178-17) and TRIP BLANKS (480-168178-21).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-524474 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. The following samples were affected : MW-561-20200402 (480-168178-10), MW-562-202004 (480-168178-11), MW-563-20200402 (480-168178-12), REW-1-202004 (480-168178-13), REW-4-202004 (480-168178-14), REW-5-202004 (480-168178-15), REW-9-20200402 (480-168178-16), REW-10-20200402 (480-168178-17) and TRIP BLANKS (480-168178-21).

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-266Mb-20200402 (480-168178-7). Elevated reporting limits (RLs) are provided.

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-524475 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. The following samples were affected : MW-264M-202004 (480-168178-2), MW-265S-202004 (480-168178-3), MW-265M-202004 (480-168178-4), MW-265D-202004 (480-168178-5), MW-266Ma-20200402 (480-168178-6), MW-266Mb-20200402 (480-168178-7), MW-269Ma-20200402 (480-168178-8) and MW-560-20200402 (480-168178-9).

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-266Mb-20200402 (480-168178-7) and REW-1-202004 (480-168178-13). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) for 1,4-Dioxane associated with batch 480-524851 recovered outside the MCP control limit criteria. MCP protocol allows for 20% of the target compounds to be outside the 20% difference but not over 40% difference. Difficult analytes are allowed to be outside the 20% difference but not over 60% difference. The following samples were affected : DEP-21-202004 03 (480-168178-1), DUP2-20200402 (480-168178-18), DUP3--20200402 (480-168178-19) and DUP4-202004 (480-168178-20).

Case Narrative

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

Job ID: 480-168178-1

Job ID: 480-168178-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-524851 exceeded control limits for the following analyte: 2-Butanone and Tetrahydrofuran. Unlike the calibration standards, this is due to the coelution with Ethyl Acetate and Methacrylonitrile in the spiking solution. This does not indicate a performance issue with the spike recovery, but rather the laboratory's ability to measure the two analytes together in a combined spiking solution. Through the use of spectral analysis, the two compounds can be distinguished from one another if present in a client sample. The following samples were affected : DEP-21-202004 03 (480-168178-1), DUP2-20200402 (480-168178-18), DUP3--20200402 (480-168178-19) and DUP4-202004 (480-168178-20).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-524851 exceeded control limits for the following analyte: 1,4-Dioxane. MCP protocol allows for 10% of the target compounds to be outside of the limits provided the recoveries are over 10%. The following samples were affected : DEP-21-202004 03 (480-168178-1), DUP2-20200402 (480-168178-18), DUP3--20200402 (480-168178-19) and DUP4-202004 (480-168178-20).

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

GC/MS Semi VOA

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

Organic Prep

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



MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Buffalo** Project #: **480-168178**

Project Location: **IDS Wayland** RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):
480-168178(1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21)

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"/>	9014 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: Wyatt Watson Position: Project Manager Assistant
 Printed Name: Wyatt Watson Date: 4/7/20 11:36

Detection Summary

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

Job ID: 480-168178-1

Client Sample ID: DEP-21-202004 03

Lab Sample ID: 480-168178-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	22		10		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.7		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	1.2		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-264M-202004

Lab Sample ID: 480-168178-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	27		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	5.6		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	17		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-265S-202004

Lab Sample ID: 480-168178-3

No Detections.

Client Sample ID: MW-265M-202004

Lab Sample ID: 480-168178-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.3		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.5		1.0		ug/L	1		8260C	Total/NA
o-Xylene	1.3		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	2.6		0.20		ug/L	1		522	Total/NA

Client Sample ID: MW-265D-202004

Lab Sample ID: 480-168178-5

No Detections.

Client Sample ID: MW-266Ma-20200402

Lab Sample ID: 480-168178-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.0		0.20		ug/L	1		522	Total/NA

Client Sample ID: MW-266Mb-20200402

Lab Sample ID: 480-168178-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	350	*	40		ug/L	4		8260C	Total/NA
Ethylbenzene	6.1		4.0		ug/L	4		8260C	Total/NA
m-Xylene & p-Xylene	23		8.0		ug/L	4		8260C	Total/NA
o-Xylene	8.1		4.0		ug/L	4		8260C	Total/NA
Toluene	18		4.0		ug/L	4		8260C	Total/NA
Vinyl chloride	5.4		4.0		ug/L	4		8260C	Total/NA
Acetone - DL	3900		400		ug/L	8		8260C	Total/NA

Client Sample ID: MW-269Ma-20200402

Lab Sample ID: 480-168178-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.6		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	4.5		1.0		ug/L	1		8260C	Total/NA
1,4-Dioxane	0.67		0.20		ug/L	1		522	Total/NA

Client Sample ID: MW-560-20200402

Lab Sample ID: 480-168178-9

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

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

Job ID: 480-168178-1

Client Sample ID: MW-561-20200402

Lab Sample ID: 480-168178-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	2.6		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	8.1		2.0		ug/L	1		8260C	Total/NA
o-Xylene	3.0		1.0		ug/L	1		8260C	Total/NA
Tetrahydrofuran	15		10		ug/L	1		8260C	Total/NA

Client Sample ID: MW-562-202004

Lab Sample ID: 480-168178-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	3.1		2.0		ug/L	1		8260C	Total/NA

Client Sample ID: MW-563-20200402

Lab Sample ID: 480-168178-12

No Detections.

Client Sample ID: REW-1-202004

Lab Sample ID: 480-168178-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	2.1		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	6.7		2.0		ug/L	1		8260C	Total/NA
o-Xylene	2.0		1.0		ug/L	1		8260C	Total/NA
Tetrahydrofuran - DL	310	*	20		ug/L	2		8260C	Total/NA

Client Sample ID: REW-4-202004

Lab Sample ID: 480-168178-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.3		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-5-202004

Lab Sample ID: 480-168178-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.7		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	1.8		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: REW-9-20200402

Lab Sample ID: 480-168178-16

No Detections.

Client Sample ID: REW-10-20200402

Lab Sample ID: 480-168178-17

No Detections.

Client Sample ID: DUP2-20200402

Lab Sample ID: 480-168178-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.91		0.20		ug/L	1		522	Total/NA

Client Sample ID: DUP3--20200402

Lab Sample ID: 480-168178-19

No Detections.

Client Sample ID: DUP4-202004

Lab Sample ID: 480-168178-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	27		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	5.6		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	16		1.0		ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

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

Job ID: 480-168178-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-168178-21

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: DEP-21-202004 03

Lab Sample ID: 480-168178-1

Date Collected: 04/03/20 07:10

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/08/20 13:56	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/08/20 13:56	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/08/20 13:56	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/08/20 13:56	1
1,1-Dichloroethane	ND		1.0		ug/L			04/08/20 13:56	1
1,1-Dichloroethene	ND		1.0		ug/L			04/08/20 13:56	1
1,1-Dichloropropene	ND		1.0		ug/L			04/08/20 13:56	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/08/20 13:56	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/08/20 13:56	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/08/20 13:56	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/08/20 13:56	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/08/20 13:56	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/08/20 13:56	1
1,2-Dichloroethane	ND		1.0		ug/L			04/08/20 13:56	1
1,2-Dichloropropane	ND		1.0		ug/L			04/08/20 13:56	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/08/20 13:56	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/08/20 13:56	1
1,3-Dichloropropane	ND		1.0		ug/L			04/08/20 13:56	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/08/20 13:56	1
1,4-Dioxane	ND *		50		ug/L			04/08/20 13:56	1
2,2-Dichloropropane	ND		1.0		ug/L			04/08/20 13:56	1
2-Butanone (MEK)	ND *		10		ug/L			04/08/20 13:56	1
2-Chlorotoluene	ND		1.0		ug/L			04/08/20 13:56	1
2-Hexanone	ND		10		ug/L			04/08/20 13:56	1
4-Chlorotoluene	ND		1.0		ug/L			04/08/20 13:56	1
4-Isopropyltoluene	ND		1.0		ug/L			04/08/20 13:56	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/08/20 13:56	1
Acetone	ND		50		ug/L			04/08/20 13:56	1
Benzene	ND		1.0		ug/L			04/08/20 13:56	1
Bromobenzene	ND		1.0		ug/L			04/08/20 13:56	1
Bromoform	ND		1.0		ug/L			04/08/20 13:56	1
Bromomethane	ND		2.0		ug/L			04/08/20 13:56	1
Carbon disulfide	22		10		ug/L			04/08/20 13:56	1
Carbon tetrachloride	ND		1.0		ug/L			04/08/20 13:56	1
Chlorobenzene	ND		1.0		ug/L			04/08/20 13:56	1
Chlorobromomethane	ND		1.0		ug/L			04/08/20 13:56	1
Chlorodibromomethane	ND		0.50		ug/L			04/08/20 13:56	1
Chloroethane	ND		2.0		ug/L			04/08/20 13:56	1
Chloroform	ND		1.0		ug/L			04/08/20 13:56	1
Chloromethane	ND		2.0		ug/L			04/08/20 13:56	1
cis-1,2-Dichloroethene	1.7		1.0		ug/L			04/08/20 13:56	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/08/20 13:56	1
Dichlorobromomethane	ND		0.50		ug/L			04/08/20 13:56	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/08/20 13:56	1
Ethyl ether	ND		1.0		ug/L			04/08/20 13:56	1
Ethylbenzene	ND		1.0		ug/L			04/08/20 13:56	1
Ethylene Dibromide	ND		1.0		ug/L			04/08/20 13:56	1
Hexachlorobutadiene	ND		0.40		ug/L			04/08/20 13:56	1
Isopropyl ether	ND		10		ug/L			04/08/20 13:56	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: DEP-21-202004 03

Lab Sample ID: 480-168178-1

Date Collected: 04/03/20 07:10

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/08/20 13:56	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/08/20 13:56	1
Methylene Chloride	ND		1.0		ug/L			04/08/20 13:56	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/08/20 13:56	1
Naphthalene	ND		5.0		ug/L			04/08/20 13:56	1
n-Butylbenzene	ND		1.0		ug/L			04/08/20 13:56	1
N-Propylbenzene	ND		1.0		ug/L			04/08/20 13:56	1
o-Xylene	ND		1.0		ug/L			04/08/20 13:56	1
sec-Butylbenzene	ND		1.0		ug/L			04/08/20 13:56	1
Styrene	ND		1.0		ug/L			04/08/20 13:56	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/08/20 13:56	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/08/20 13:56	1
tert-Butylbenzene	ND		1.0		ug/L			04/08/20 13:56	1
Tetrachloroethene	ND		1.0		ug/L			04/08/20 13:56	1
Tetrahydrofuran	ND *		10		ug/L			04/08/20 13:56	1
Toluene	ND		1.0		ug/L			04/08/20 13:56	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/08/20 13:56	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/08/20 13:56	1
Trichloroethene	ND		1.0		ug/L			04/08/20 13:56	1
Trichlorofluoromethane	ND		1.0		ug/L			04/08/20 13:56	1
Vinyl chloride	1.2		1.0		ug/L			04/08/20 13:56	1
Dibromomethane	ND		1.0		ug/L			04/08/20 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	102		70 - 130		04/08/20 13:56	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	110		70 - 130		04/08/20 13:56	1
<i>4-Bromofluorobenzene (Surr)</i>	108		70 - 130		04/08/20 13:56	1

Client Sample ID: MW-264M-202004

Lab Sample ID: 480-168178-2

Date Collected: 04/01/20 13:05

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/20 19:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/20 19:59	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/20 19:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/20 19:59	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/20 19:59	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/20 19:59	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/20 19:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/20 19:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/20 19:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/20 19:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/20 19:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/20 19:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/20 19:59	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/20 19:59	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/20 19:59	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/20 19:59	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: MW-264M-202004

Lab Sample ID: 480-168178-2

Date Collected: 04/01/20 13:05

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/20 19:59	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/20 19:59	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/20 19:59	1
1,4-Dioxane	ND		50		ug/L			04/06/20 19:59	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/20 19:59	1
2-Butanone (MEK)	ND	*	10		ug/L			04/06/20 19:59	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/20 19:59	1
2-Hexanone	ND		10		ug/L			04/06/20 19:59	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/20 19:59	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/20 19:59	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/20 19:59	1
Acetone	ND		50		ug/L			04/06/20 19:59	1
Benzene	ND		1.0		ug/L			04/06/20 19:59	1
Bromobenzene	ND		1.0		ug/L			04/06/20 19:59	1
Bromoform	ND		1.0		ug/L			04/06/20 19:59	1
Bromomethane	ND		2.0		ug/L			04/06/20 19:59	1
Carbon disulfide	ND		10		ug/L			04/06/20 19:59	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/20 19:59	1
Chlorobenzene	ND		1.0		ug/L			04/06/20 19:59	1
Chlorobromomethane	ND		1.0		ug/L			04/06/20 19:59	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/20 19:59	1
Chloroethane	ND		2.0		ug/L			04/06/20 19:59	1
Chloroform	ND		1.0		ug/L			04/06/20 19:59	1
Chloromethane	ND		2.0		ug/L			04/06/20 19:59	1
cis-1,2-Dichloroethene	27		1.0		ug/L			04/06/20 19:59	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 19:59	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/20 19:59	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/20 19:59	1
Ethyl ether	ND		1.0		ug/L			04/06/20 19:59	1
Ethylbenzene	ND		1.0		ug/L			04/06/20 19:59	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/20 19:59	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/20 19:59	1
Isopropyl ether	ND		10		ug/L			04/06/20 19:59	1
Isopropylbenzene	ND		1.0		ug/L			04/06/20 19:59	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/20 19:59	1
Methylene Chloride	ND		1.0		ug/L			04/06/20 19:59	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/20 19:59	1
Naphthalene	ND		5.0		ug/L			04/06/20 19:59	1
n-Butylbenzene	ND		1.0		ug/L			04/06/20 19:59	1
N-Propylbenzene	ND		1.0		ug/L			04/06/20 19:59	1
o-Xylene	ND		1.0		ug/L			04/06/20 19:59	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/20 19:59	1
Styrene	ND		1.0		ug/L			04/06/20 19:59	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/20 19:59	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/20 19:59	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/20 19:59	1
Tetrachloroethene	ND		1.0		ug/L			04/06/20 19:59	1
Tetrahydrofuran	ND		10		ug/L			04/06/20 19:59	1
Toluene	ND		1.0		ug/L			04/06/20 19:59	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: MW-264M-202004

Lab Sample ID: 480-168178-2

Date Collected: 04/01/20 13:05

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 19:59	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 19:59	1
Trichloroethene	5.6		1.0		ug/L			04/06/20 19:59	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/20 19:59	1
Vinyl chloride	17		1.0		ug/L			04/06/20 19:59	1
Dibromomethane	ND		1.0		ug/L			04/06/20 19:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/06/20 19:59	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		04/06/20 19:59	1
4-Bromofluorobenzene (Surr)	106		70 - 130		04/06/20 19:59	1

Client Sample ID: MW-265S-202004

Lab Sample ID: 480-168178-3

Date Collected: 04/02/20 08:35

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/20 20:24	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/20 20:24	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/20 20:24	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/20 20:24	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/20 20:24	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/20 20:24	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/20 20:24	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/20 20:24	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/20 20:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/20 20:24	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/20 20:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/20 20:24	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/20 20:24	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/20 20:24	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/20 20:24	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/20 20:24	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/20 20:24	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/20 20:24	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/20 20:24	1
1,4-Dioxane	ND		50		ug/L			04/06/20 20:24	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/20 20:24	1
2-Butanone (MEK)	ND *		10		ug/L			04/06/20 20:24	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/20 20:24	1
2-Hexanone	ND		10		ug/L			04/06/20 20:24	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/20 20:24	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/20 20:24	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/20 20:24	1
Acetone	ND		50		ug/L			04/06/20 20:24	1
Benzene	ND		1.0		ug/L			04/06/20 20:24	1
Bromobenzene	ND		1.0		ug/L			04/06/20 20:24	1
Bromoform	ND		1.0		ug/L			04/06/20 20:24	1
Bromomethane	ND		2.0		ug/L			04/06/20 20:24	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: MW-265S-202004

Lab Sample ID: 480-168178-3

Date Collected: 04/02/20 08:35

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			04/06/20 20:24	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/20 20:24	1
Chlorobenzene	ND		1.0		ug/L			04/06/20 20:24	1
Chlorobromomethane	ND		1.0		ug/L			04/06/20 20:24	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/20 20:24	1
Chloroethane	ND		2.0		ug/L			04/06/20 20:24	1
Chloroform	ND		1.0		ug/L			04/06/20 20:24	1
Chloromethane	ND		2.0		ug/L			04/06/20 20:24	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 20:24	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 20:24	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/20 20:24	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/20 20:24	1
Ethyl ether	ND		1.0		ug/L			04/06/20 20:24	1
Ethylbenzene	ND		1.0		ug/L			04/06/20 20:24	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/20 20:24	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/20 20:24	1
Isopropyl ether	ND		10		ug/L			04/06/20 20:24	1
Isopropylbenzene	ND		1.0		ug/L			04/06/20 20:24	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/20 20:24	1
Methylene Chloride	ND		1.0		ug/L			04/06/20 20:24	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/20 20:24	1
Naphthalene	ND		5.0		ug/L			04/06/20 20:24	1
n-Butylbenzene	ND		1.0		ug/L			04/06/20 20:24	1
N-Propylbenzene	ND		1.0		ug/L			04/06/20 20:24	1
o-Xylene	ND		1.0		ug/L			04/06/20 20:24	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/20 20:24	1
Styrene	ND		1.0		ug/L			04/06/20 20:24	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/20 20:24	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/20 20:24	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/20 20:24	1
Tetrachloroethene	ND		1.0		ug/L			04/06/20 20:24	1
Tetrahydrofuran	ND		10		ug/L			04/06/20 20:24	1
Toluene	ND		1.0		ug/L			04/06/20 20:24	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 20:24	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 20:24	1
Trichloroethene	ND		1.0		ug/L			04/06/20 20:24	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/20 20:24	1
Vinyl chloride	ND		1.0		ug/L			04/06/20 20:24	1
Dibromomethane	ND		1.0		ug/L			04/06/20 20:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/06/20 20:24	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		04/06/20 20:24	1
4-Bromofluorobenzene (Surr)	106		70 - 130		04/06/20 20:24	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: MW-265M-202004

Lab Sample ID: 480-168178-4

Date Collected: 04/02/20 09:15

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/20 20:48	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/20 20:48	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/20 20:48	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/20 20:48	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/20 20:48	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/20 20:48	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/20 20:48	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/20 20:48	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/20 20:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/20 20:48	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/20 20:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/20 20:48	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/20 20:48	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/20 20:48	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/20 20:48	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/20 20:48	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/20 20:48	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/20 20:48	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/20 20:48	1
1,4-Dioxane	ND		50		ug/L			04/06/20 20:48	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/20 20:48	1
2-Butanone (MEK)	ND *		10		ug/L			04/06/20 20:48	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/20 20:48	1
2-Hexanone	ND		10		ug/L			04/06/20 20:48	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/20 20:48	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/20 20:48	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/20 20:48	1
Acetone	ND		50		ug/L			04/06/20 20:48	1
Benzene	ND		1.0		ug/L			04/06/20 20:48	1
Bromobenzene	ND		1.0		ug/L			04/06/20 20:48	1
Bromoform	ND		1.0		ug/L			04/06/20 20:48	1
Bromomethane	ND		2.0		ug/L			04/06/20 20:48	1
Carbon disulfide	ND		10		ug/L			04/06/20 20:48	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/20 20:48	1
Chlorobenzene	ND		1.0		ug/L			04/06/20 20:48	1
Chlorobromomethane	ND		1.0		ug/L			04/06/20 20:48	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/20 20:48	1
Chloroethane	ND		2.0		ug/L			04/06/20 20:48	1
Chloroform	ND		1.0		ug/L			04/06/20 20:48	1
Chloromethane	ND		2.0		ug/L			04/06/20 20:48	1
cis-1,2-Dichloroethene	2.3		1.0		ug/L			04/06/20 20:48	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 20:48	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/20 20:48	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/20 20:48	1
Ethyl ether	ND		1.0		ug/L			04/06/20 20:48	1
Ethylbenzene	1.5		1.0		ug/L			04/06/20 20:48	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/20 20:48	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/20 20:48	1
Isopropyl ether	ND		10		ug/L			04/06/20 20:48	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: MW-265M-202004

Lab Sample ID: 480-168178-4

Date Collected: 04/02/20 09:15

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/06/20 20:48	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/20 20:48	1
Methylene Chloride	ND		1.0		ug/L			04/06/20 20:48	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/20 20:48	1
Naphthalene	ND		5.0		ug/L			04/06/20 20:48	1
n-Butylbenzene	ND		1.0		ug/L			04/06/20 20:48	1
N-Propylbenzene	ND		1.0		ug/L			04/06/20 20:48	1
o-Xylene	1.3		1.0		ug/L			04/06/20 20:48	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/20 20:48	1
Styrene	ND		1.0		ug/L			04/06/20 20:48	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/20 20:48	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/20 20:48	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/20 20:48	1
Tetrachloroethene	ND		1.0		ug/L			04/06/20 20:48	1
Tetrahydrofuran	ND		10		ug/L			04/06/20 20:48	1
Toluene	ND		1.0		ug/L			04/06/20 20:48	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 20:48	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 20:48	1
Trichloroethene	ND		1.0		ug/L			04/06/20 20:48	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/20 20:48	1
Vinyl chloride	ND		1.0		ug/L			04/06/20 20:48	1
Dibromomethane	ND		1.0		ug/L			04/06/20 20:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/06/20 20:48	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/06/20 20:48	1
4-Bromofluorobenzene (Surr)	107		70 - 130		04/06/20 20:48	1

Method: 522 - 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		04/06/20 11:16	04/07/20 21:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	79		46 - 130	04/06/20 11:16	04/07/20 21:43	1

Client Sample ID: MW-265D-202004

Lab Sample ID: 480-168178-5

Date Collected: 04/02/20 10:00

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/20 21:12	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/20 21:12	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/20 21:12	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/20 21:12	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/20 21:12	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/20 21:12	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/20 21:12	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/20 21:12	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/20 21:12	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/20 21:12	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: MW-265D-202004

Lab Sample ID: 480-168178-5

Date Collected: 04/02/20 10:00

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/20 21:12	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/20 21:12	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/20 21:12	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/20 21:12	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/20 21:12	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/20 21:12	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/20 21:12	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/20 21:12	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/20 21:12	1
1,4-Dioxane	ND		50		ug/L			04/06/20 21:12	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/20 21:12	1
2-Butanone (MEK)	ND	*	10		ug/L			04/06/20 21:12	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/20 21:12	1
2-Hexanone	ND		10		ug/L			04/06/20 21:12	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/20 21:12	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/20 21:12	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/20 21:12	1
Acetone	ND		50		ug/L			04/06/20 21:12	1
Benzene	ND		1.0		ug/L			04/06/20 21:12	1
Bromobenzene	ND		1.0		ug/L			04/06/20 21:12	1
Bromoform	ND		1.0		ug/L			04/06/20 21:12	1
Bromomethane	ND		2.0		ug/L			04/06/20 21:12	1
Carbon disulfide	ND		10		ug/L			04/06/20 21:12	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/20 21:12	1
Chlorobenzene	ND		1.0		ug/L			04/06/20 21:12	1
Chlorobromomethane	ND		1.0		ug/L			04/06/20 21:12	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/20 21:12	1
Chloroethane	ND		2.0		ug/L			04/06/20 21:12	1
Chloroform	ND		1.0		ug/L			04/06/20 21:12	1
Chloromethane	ND		2.0		ug/L			04/06/20 21:12	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 21:12	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 21:12	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/20 21:12	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/20 21:12	1
Ethyl ether	ND		1.0		ug/L			04/06/20 21:12	1
Ethylbenzene	ND		1.0		ug/L			04/06/20 21:12	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/20 21:12	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/20 21:12	1
Isopropyl ether	ND		10		ug/L			04/06/20 21:12	1
Isopropylbenzene	ND		1.0		ug/L			04/06/20 21:12	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/20 21:12	1
Methylene Chloride	ND		1.0		ug/L			04/06/20 21:12	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/20 21:12	1
Naphthalene	ND		5.0		ug/L			04/06/20 21:12	1
n-Butylbenzene	ND		1.0		ug/L			04/06/20 21:12	1
N-Propylbenzene	ND		1.0		ug/L			04/06/20 21:12	1
o-Xylene	ND		1.0		ug/L			04/06/20 21:12	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/20 21:12	1
Styrene	ND		1.0		ug/L			04/06/20 21:12	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: MW-265D-202004

Lab Sample ID: 480-168178-5

Date Collected: 04/02/20 10:00

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/20 21:12	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/20 21:12	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/20 21:12	1
Tetrachloroethene	ND		1.0		ug/L			04/06/20 21:12	1
Tetrahydrofuran	ND		10		ug/L			04/06/20 21:12	1
Toluene	ND		1.0		ug/L			04/06/20 21:12	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 21:12	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 21:12	1
Trichloroethene	ND		1.0		ug/L			04/06/20 21:12	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/20 21:12	1
Vinyl chloride	ND		1.0		ug/L			04/06/20 21:12	1
Dibromomethane	ND		1.0		ug/L			04/06/20 21:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130					04/06/20 21:12	1
1,2-Dichloroethane-d4 (Surr)	112		70 - 130					04/06/20 21:12	1
4-Bromofluorobenzene (Surr)	105		70 - 130					04/06/20 21:12	1

Client Sample ID: MW-266Ma-20200402

Lab Sample ID: 480-168178-6

Date Collected: 04/02/20 08:35

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/20 21:36	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/20 21:36	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/20 21:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/20 21:36	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/20 21:36	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/20 21:36	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/20 21:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/20 21:36	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/20 21:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/20 21:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/20 21:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/20 21:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/20 21:36	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/20 21:36	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/20 21:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/20 21:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/20 21:36	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/20 21:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/20 21:36	1
1,4-Dioxane	ND		50		ug/L			04/06/20 21:36	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/20 21:36	1
2-Butanone (MEK)	ND	*	10		ug/L			04/06/20 21:36	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/20 21:36	1
2-Hexanone	ND		10		ug/L			04/06/20 21:36	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/20 21:36	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/20 21:36	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: MW-266Ma-20200402

Lab Sample ID: 480-168178-6

Date Collected: 04/02/20 08:35

Matrix: Water

Date Received: 04/04/20 18:11

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			04/06/20 21:36	1
Acetone	ND		50		ug/L			04/06/20 21:36	1
Benzene	ND		1.0		ug/L			04/06/20 21:36	1
Bromobenzene	ND		1.0		ug/L			04/06/20 21:36	1
Bromoform	ND		1.0		ug/L			04/06/20 21:36	1
Bromomethane	ND		2.0		ug/L			04/06/20 21:36	1
Carbon disulfide	ND		10		ug/L			04/06/20 21:36	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/20 21:36	1
Chlorobenzene	ND		1.0		ug/L			04/06/20 21:36	1
Chlorobromomethane	ND		1.0		ug/L			04/06/20 21:36	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/20 21:36	1
Chloroethane	ND		2.0		ug/L			04/06/20 21:36	1
Chloroform	ND		1.0		ug/L			04/06/20 21:36	1
Chloromethane	ND		2.0		ug/L			04/06/20 21:36	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 21:36	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 21:36	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/20 21:36	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/20 21:36	1
Ethyl ether	ND		1.0		ug/L			04/06/20 21:36	1
Ethylbenzene	ND		1.0		ug/L			04/06/20 21:36	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/20 21:36	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/20 21:36	1
Isopropyl ether	ND		10		ug/L			04/06/20 21:36	1
Isopropylbenzene	ND		1.0		ug/L			04/06/20 21:36	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/20 21:36	1
Methylene Chloride	ND		1.0		ug/L			04/06/20 21:36	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/20 21:36	1
Naphthalene	ND		5.0		ug/L			04/06/20 21:36	1
n-Butylbenzene	ND		1.0		ug/L			04/06/20 21:36	1
N-Propylbenzene	ND		1.0		ug/L			04/06/20 21:36	1
o-Xylene	ND		1.0		ug/L			04/06/20 21:36	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/20 21:36	1
Styrene	ND		1.0		ug/L			04/06/20 21:36	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/20 21:36	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/20 21:36	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/20 21:36	1
Tetrachloroethene	ND		1.0		ug/L			04/06/20 21:36	1
Tetrahydrofuran	ND		10		ug/L			04/06/20 21:36	1
Toluene	ND		1.0		ug/L			04/06/20 21:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 21:36	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 21:36	1
Trichloroethene	ND		1.0		ug/L			04/06/20 21:36	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/20 21:36	1
Vinyl chloride	ND		1.0		ug/L			04/06/20 21:36	1
Dibromomethane	ND		1.0		ug/L			04/06/20 21:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/06/20 21:36	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/06/20 21:36	1
4-Bromofluorobenzene (Surr)	105		70 - 130		04/06/20 21:36	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: MW-266Ma-20200402

Lab Sample ID: 480-168178-6

Date Collected: 04/02/20 08:35

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.0		0.20		ug/L		04/06/20 11:16	04/07/20 21:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	82		46 - 130				04/06/20 11:16	04/07/20 21:57	1

Client Sample ID: MW-266Mb-20200402

Lab Sample ID: 480-168178-7

Date Collected: 04/02/20 09:35

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		4.0		ug/L			04/06/20 22:00	4
1,1,1-Trichloroethane	ND		4.0		ug/L			04/06/20 22:00	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			04/06/20 22:00	4
1,1,2-Trichloroethane	ND		4.0		ug/L			04/06/20 22:00	4
1,1-Dichloroethane	ND		4.0		ug/L			04/06/20 22:00	4
1,1-Dichloroethene	ND		4.0		ug/L			04/06/20 22:00	4
1,1-Dichloropropene	ND		4.0		ug/L			04/06/20 22:00	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			04/06/20 22:00	4
1,2,3-Trichloropropane	ND		4.0		ug/L			04/06/20 22:00	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			04/06/20 22:00	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			04/06/20 22:00	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			04/06/20 22:00	4
1,2-Dichlorobenzene	ND		4.0		ug/L			04/06/20 22:00	4
1,2-Dichloroethane	ND		4.0		ug/L			04/06/20 22:00	4
1,2-Dichloropropane	ND		4.0		ug/L			04/06/20 22:00	4
1,3,5-Trimethylbenzene	ND		4.0		ug/L			04/06/20 22:00	4
1,3-Dichlorobenzene	ND		4.0		ug/L			04/06/20 22:00	4
1,3-Dichloropropane	ND		4.0		ug/L			04/06/20 22:00	4
1,4-Dichlorobenzene	ND		4.0		ug/L			04/06/20 22:00	4
1,4-Dioxane	ND		200		ug/L			04/06/20 22:00	4
2,2-Dichloropropane	ND		4.0		ug/L			04/06/20 22:00	4
2-Butanone (MEK)	350 *		40		ug/L			04/06/20 22:00	4
2-Chlorotoluene	ND		4.0		ug/L			04/06/20 22:00	4
2-Hexanone	ND		40		ug/L			04/06/20 22:00	4
4-Chlorotoluene	ND		4.0		ug/L			04/06/20 22:00	4
4-Isopropyltoluene	ND		4.0		ug/L			04/06/20 22:00	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			04/06/20 22:00	4
Benzene	ND		4.0		ug/L			04/06/20 22:00	4
Bromobenzene	ND		4.0		ug/L			04/06/20 22:00	4
Bromoform	ND		4.0		ug/L			04/06/20 22:00	4
Bromomethane	ND		8.0		ug/L			04/06/20 22:00	4
Carbon disulfide	ND		40		ug/L			04/06/20 22:00	4
Carbon tetrachloride	ND		4.0		ug/L			04/06/20 22:00	4
Chlorobenzene	ND		4.0		ug/L			04/06/20 22:00	4
Chlorobromomethane	ND		4.0		ug/L			04/06/20 22:00	4
Chlorodibromomethane	ND		2.0		ug/L			04/06/20 22:00	4
Chloroethane	ND		8.0		ug/L			04/06/20 22:00	4
Chloroform	ND		4.0		ug/L			04/06/20 22:00	4
Chloromethane	ND		8.0		ug/L			04/06/20 22:00	4

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: MW-266Mb-20200402

Lab Sample ID: 480-168178-7

Date Collected: 04/02/20 09:35

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		4.0		ug/L			04/06/20 22:00	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			04/06/20 22:00	4
Dichlorobromomethane	ND		2.0		ug/L			04/06/20 22:00	4
Dichlorodifluoromethane	ND		4.0		ug/L			04/06/20 22:00	4
Ethyl ether	ND		4.0		ug/L			04/06/20 22:00	4
Ethylbenzene	6.1		4.0		ug/L			04/06/20 22:00	4
Ethylene Dibromide	ND		4.0		ug/L			04/06/20 22:00	4
Hexachlorobutadiene	ND		1.6		ug/L			04/06/20 22:00	4
Isopropyl ether	ND		40		ug/L			04/06/20 22:00	4
Isopropylbenzene	ND		4.0		ug/L			04/06/20 22:00	4
Methyl tert-butyl ether	ND		4.0		ug/L			04/06/20 22:00	4
Methylene Chloride	ND		4.0		ug/L			04/06/20 22:00	4
m-Xylene & p-Xylene	23		8.0		ug/L			04/06/20 22:00	4
Naphthalene	ND		20		ug/L			04/06/20 22:00	4
n-Butylbenzene	ND		4.0		ug/L			04/06/20 22:00	4
N-Propylbenzene	ND		4.0		ug/L			04/06/20 22:00	4
o-Xylene	8.1		4.0		ug/L			04/06/20 22:00	4
sec-Butylbenzene	ND		4.0		ug/L			04/06/20 22:00	4
Styrene	ND		4.0		ug/L			04/06/20 22:00	4
Tert-amyl methyl ether	ND		20		ug/L			04/06/20 22:00	4
Tert-butyl ethyl ether	ND		20		ug/L			04/06/20 22:00	4
tert-Butylbenzene	ND		4.0		ug/L			04/06/20 22:00	4
Tetrachloroethene	ND		4.0		ug/L			04/06/20 22:00	4
Tetrahydrofuran	ND		40		ug/L			04/06/20 22:00	4
Toluene	18		4.0		ug/L			04/06/20 22:00	4
trans-1,2-Dichloroethene	ND		4.0		ug/L			04/06/20 22:00	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			04/06/20 22:00	4
Trichloroethene	ND		4.0		ug/L			04/06/20 22:00	4
Trichlorofluoromethane	ND		4.0		ug/L			04/06/20 22:00	4
Vinyl chloride	5.4		4.0		ug/L			04/06/20 22:00	4
Dibromomethane	ND		4.0		ug/L			04/06/20 22:00	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	99		70 - 130		04/06/20 22:00	4
<i>1,2-Dichloroethane-d4 (Surr)</i>	112		70 - 130		04/06/20 22:00	4
<i>4-Bromofluorobenzene (Surr)</i>	108		70 - 130		04/06/20 22:00	4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	3900		400		ug/L			04/08/20 14:19	8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	102		70 - 130		04/08/20 14:19	8
<i>1,2-Dichloroethane-d4 (Surr)</i>	116		70 - 130		04/08/20 14:19	8
<i>4-Bromofluorobenzene (Surr)</i>	109		70 - 130		04/08/20 14:19	8

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: MW-269Ma-20200402

Lab Sample ID: 480-168178-8

Date Collected: 04/02/20 10:15

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/20 22:25	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/20 22:25	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/20 22:25	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/20 22:25	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/20 22:25	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/20 22:25	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/20 22:25	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/20 22:25	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/20 22:25	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/20 22:25	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/20 22:25	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/20 22:25	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/20 22:25	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/20 22:25	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/20 22:25	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/20 22:25	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/20 22:25	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/20 22:25	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/20 22:25	1
1,4-Dioxane	ND		50		ug/L			04/06/20 22:25	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/20 22:25	1
2-Butanone (MEK)	ND *		10		ug/L			04/06/20 22:25	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/20 22:25	1
2-Hexanone	ND		10		ug/L			04/06/20 22:25	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/20 22:25	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/20 22:25	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/20 22:25	1
Acetone	ND		50		ug/L			04/06/20 22:25	1
Benzene	ND		1.0		ug/L			04/06/20 22:25	1
Bromobenzene	ND		1.0		ug/L			04/06/20 22:25	1
Bromoform	ND		1.0		ug/L			04/06/20 22:25	1
Bromomethane	ND		2.0		ug/L			04/06/20 22:25	1
Carbon disulfide	ND		10		ug/L			04/06/20 22:25	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/20 22:25	1
Chlorobenzene	ND		1.0		ug/L			04/06/20 22:25	1
Chlorobromomethane	ND		1.0		ug/L			04/06/20 22:25	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/20 22:25	1
Chloroethane	ND		2.0		ug/L			04/06/20 22:25	1
Chloroform	ND		1.0		ug/L			04/06/20 22:25	1
Chloromethane	ND		2.0		ug/L			04/06/20 22:25	1
cis-1,2-Dichloroethene	3.6		1.0		ug/L			04/06/20 22:25	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 22:25	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/20 22:25	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/20 22:25	1
Ethyl ether	ND		1.0		ug/L			04/06/20 22:25	1
Ethylbenzene	ND		1.0		ug/L			04/06/20 22:25	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/20 22:25	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/20 22:25	1
Isopropyl ether	ND		10		ug/L			04/06/20 22:25	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: MW-269Ma-20200402

Lab Sample ID: 480-168178-8

Date Collected: 04/02/20 10:15

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/06/20 22:25	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/20 22:25	1
Methylene Chloride	ND		1.0		ug/L			04/06/20 22:25	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/20 22:25	1
Naphthalene	ND		5.0		ug/L			04/06/20 22:25	1
n-Butylbenzene	ND		1.0		ug/L			04/06/20 22:25	1
N-Propylbenzene	ND		1.0		ug/L			04/06/20 22:25	1
o-Xylene	ND		1.0		ug/L			04/06/20 22:25	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/20 22:25	1
Styrene	ND		1.0		ug/L			04/06/20 22:25	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/20 22:25	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/20 22:25	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/20 22:25	1
Tetrachloroethene	ND		1.0		ug/L			04/06/20 22:25	1
Tetrahydrofuran	ND		10		ug/L			04/06/20 22:25	1
Toluene	ND		1.0		ug/L			04/06/20 22:25	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 22:25	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 22:25	1
Trichloroethene	4.5		1.0		ug/L			04/06/20 22:25	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/20 22:25	1
Vinyl chloride	ND		1.0		ug/L			04/06/20 22:25	1
Dibromomethane	ND		1.0		ug/L			04/06/20 22:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		04/06/20 22:25	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/06/20 22:25	1
4-Bromofluorobenzene (Surr)	106		70 - 130		04/06/20 22:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.67		0.20		ug/L		04/06/20 11:16	04/07/20 22:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	80		46 - 130	04/06/20 11:16	04/07/20 22:25	1

Client Sample ID: MW-560-20200402

Lab Sample ID: 480-168178-9

Date Collected: 04/02/20 06:30

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/20 22:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/20 22:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/20 22:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/20 22:49	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/20 22:49	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/20 22:49	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/20 22:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/20 22:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/20 22:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/20 22:49	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: MW-560-20200402

Lab Sample ID: 480-168178-9

Date Collected: 04/02/20 06:30

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/20 22:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/20 22:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/20 22:49	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/20 22:49	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/20 22:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/20 22:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/20 22:49	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/20 22:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/20 22:49	1
1,4-Dioxane	ND		50		ug/L			04/06/20 22:49	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/20 22:49	1
2-Butanone (MEK)	ND	*	10		ug/L			04/06/20 22:49	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/20 22:49	1
2-Hexanone	ND		10		ug/L			04/06/20 22:49	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/20 22:49	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/20 22:49	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/20 22:49	1
Acetone	ND		50		ug/L			04/06/20 22:49	1
Benzene	ND		1.0		ug/L			04/06/20 22:49	1
Bromobenzene	ND		1.0		ug/L			04/06/20 22:49	1
Bromoform	ND		1.0		ug/L			04/06/20 22:49	1
Bromomethane	ND		2.0		ug/L			04/06/20 22:49	1
Carbon disulfide	ND		10		ug/L			04/06/20 22:49	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/20 22:49	1
Chlorobenzene	ND		1.0		ug/L			04/06/20 22:49	1
Chlorobromomethane	ND		1.0		ug/L			04/06/20 22:49	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/20 22:49	1
Chloroethane	ND		2.0		ug/L			04/06/20 22:49	1
Chloroform	ND		1.0		ug/L			04/06/20 22:49	1
Chloromethane	ND		2.0		ug/L			04/06/20 22:49	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 22:49	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 22:49	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/20 22:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/20 22:49	1
Ethyl ether	ND		1.0		ug/L			04/06/20 22:49	1
Ethylbenzene	ND		1.0		ug/L			04/06/20 22:49	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/20 22:49	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/20 22:49	1
Isopropyl ether	ND		10		ug/L			04/06/20 22:49	1
Isopropylbenzene	ND		1.0		ug/L			04/06/20 22:49	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/20 22:49	1
Methylene Chloride	ND		1.0		ug/L			04/06/20 22:49	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/20 22:49	1
Naphthalene	ND		5.0		ug/L			04/06/20 22:49	1
n-Butylbenzene	ND		1.0		ug/L			04/06/20 22:49	1
N-Propylbenzene	ND		1.0		ug/L			04/06/20 22:49	1
o-Xylene	ND		1.0		ug/L			04/06/20 22:49	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/20 22:49	1
Styrene	ND		1.0		ug/L			04/06/20 22:49	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: MW-560-20200402

Lab Sample ID: 480-168178-9

Date Collected: 04/02/20 06:30

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/20 22:49	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/20 22:49	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/20 22:49	1
Tetrachloroethene	ND		1.0		ug/L			04/06/20 22:49	1
Tetrahydrofuran	ND		10		ug/L			04/06/20 22:49	1
Toluene	ND		1.0		ug/L			04/06/20 22:49	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 22:49	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 22:49	1
Trichloroethene	ND		1.0		ug/L			04/06/20 22:49	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/20 22:49	1
Vinyl chloride	ND		1.0		ug/L			04/06/20 22:49	1
Dibromomethane	ND		1.0		ug/L			04/06/20 22:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130					04/06/20 22:49	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130					04/06/20 22:49	1
4-Bromofluorobenzene (Surr)	105		70 - 130					04/06/20 22:49	1

Client Sample ID: MW-561-20200402

Lab Sample ID: 480-168178-10

Date Collected: 04/02/20 05:35

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/20 18:00	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/20 18:00	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/20 18:00	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/20 18:00	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/20 18:00	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/20 18:00	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/20 18:00	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/20 18:00	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/20 18:00	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/20 18:00	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/20 18:00	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/20 18:00	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/20 18:00	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/20 18:00	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/20 18:00	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/20 18:00	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/20 18:00	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/20 18:00	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/20 18:00	1
1,4-Dioxane	ND		50		ug/L			04/06/20 18:00	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/20 18:00	1
2-Butanone (MEK)	ND	*	10		ug/L			04/06/20 18:00	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/20 18:00	1
2-Hexanone	ND		10		ug/L			04/06/20 18:00	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/20 18:00	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/20 18:00	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: MW-561-20200402

Lab Sample ID: 480-168178-10

Date Collected: 04/02/20 05:35

Matrix: Water

Date Received: 04/04/20 18:11

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			04/06/20 18:00	1
Acetone	ND		50		ug/L			04/06/20 18:00	1
Benzene	ND		1.0		ug/L			04/06/20 18:00	1
Bromobenzene	ND		1.0		ug/L			04/06/20 18:00	1
Bromoform	ND		1.0		ug/L			04/06/20 18:00	1
Bromomethane	ND		2.0		ug/L			04/06/20 18:00	1
Carbon disulfide	ND		10		ug/L			04/06/20 18:00	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/20 18:00	1
Chlorobenzene	ND		1.0		ug/L			04/06/20 18:00	1
Chlorobromomethane	ND		1.0		ug/L			04/06/20 18:00	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/20 18:00	1
Chloroethane	ND		2.0		ug/L			04/06/20 18:00	1
Chloroform	ND		1.0		ug/L			04/06/20 18:00	1
Chloromethane	ND		2.0		ug/L			04/06/20 18:00	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 18:00	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 18:00	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/20 18:00	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/20 18:00	1
Ethyl ether	ND		1.0		ug/L			04/06/20 18:00	1
Ethylbenzene	2.6		1.0		ug/L			04/06/20 18:00	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/20 18:00	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/20 18:00	1
Isopropyl ether	ND		10		ug/L			04/06/20 18:00	1
Isopropylbenzene	ND		1.0		ug/L			04/06/20 18:00	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/20 18:00	1
Methylene Chloride	ND		1.0		ug/L			04/06/20 18:00	1
m-Xylene & p-Xylene	8.1		2.0		ug/L			04/06/20 18:00	1
Naphthalene	ND		5.0		ug/L			04/06/20 18:00	1
n-Butylbenzene	ND		1.0		ug/L			04/06/20 18:00	1
N-Propylbenzene	ND		1.0		ug/L			04/06/20 18:00	1
o-Xylene	3.0		1.0		ug/L			04/06/20 18:00	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/20 18:00	1
Styrene	ND		1.0		ug/L			04/06/20 18:00	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/20 18:00	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/20 18:00	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/20 18:00	1
Tetrachloroethene	ND		1.0		ug/L			04/06/20 18:00	1
Tetrahydrofuran	15		10		ug/L			04/06/20 18:00	1
Toluene	ND		1.0		ug/L			04/06/20 18:00	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 18:00	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 18:00	1
Trichloroethene	ND		1.0		ug/L			04/06/20 18:00	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/20 18:00	1
Vinyl chloride	ND		1.0		ug/L			04/06/20 18:00	1
Dibromomethane	ND		1.0		ug/L			04/06/20 18:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	93		70 - 130		04/06/20 18:00	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		04/06/20 18:00	1
4-Bromofluorobenzene (Surr)	99		70 - 130		04/06/20 18:00	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: MW-562-202004

Lab Sample ID: 480-168178-11

Date Collected: 04/01/20 11:10

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/20 18:24	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/20 18:24	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/20 18:24	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/20 18:24	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/20 18:24	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/20 18:24	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/20 18:24	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/20 18:24	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/20 18:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/20 18:24	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/20 18:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/20 18:24	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/20 18:24	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/20 18:24	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/20 18:24	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/20 18:24	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/20 18:24	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/20 18:24	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/20 18:24	1
1,4-Dioxane	ND		50		ug/L			04/06/20 18:24	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/20 18:24	1
2-Butanone (MEK)	ND	*	10		ug/L			04/06/20 18:24	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/20 18:24	1
2-Hexanone	ND		10		ug/L			04/06/20 18:24	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/20 18:24	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/20 18:24	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/20 18:24	1
Acetone	ND		50		ug/L			04/06/20 18:24	1
Benzene	ND		1.0		ug/L			04/06/20 18:24	1
Bromobenzene	ND		1.0		ug/L			04/06/20 18:24	1
Bromoform	ND		1.0		ug/L			04/06/20 18:24	1
Bromomethane	ND		2.0		ug/L			04/06/20 18:24	1
Carbon disulfide	ND		10		ug/L			04/06/20 18:24	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/20 18:24	1
Chlorobenzene	ND		1.0		ug/L			04/06/20 18:24	1
Chlorobromomethane	ND		1.0		ug/L			04/06/20 18:24	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/20 18:24	1
Chloroethane	ND		2.0		ug/L			04/06/20 18:24	1
Chloroform	ND		1.0		ug/L			04/06/20 18:24	1
Chloromethane	ND		2.0		ug/L			04/06/20 18:24	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 18:24	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 18:24	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/20 18:24	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/20 18:24	1
Ethyl ether	ND		1.0		ug/L			04/06/20 18:24	1
Ethylbenzene	ND		1.0		ug/L			04/06/20 18:24	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/20 18:24	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/20 18:24	1
Isopropyl ether	ND		10		ug/L			04/06/20 18:24	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: MW-562-202004

Lab Sample ID: 480-168178-11

Date Collected: 04/01/20 11:10

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/06/20 18:24	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/20 18:24	1
Methylene Chloride	ND		1.0		ug/L			04/06/20 18:24	1
m-Xylene & p-Xylene	3.1		2.0		ug/L			04/06/20 18:24	1
Naphthalene	ND		5.0		ug/L			04/06/20 18:24	1
n-Butylbenzene	ND		1.0		ug/L			04/06/20 18:24	1
N-Propylbenzene	ND		1.0		ug/L			04/06/20 18:24	1
o-Xylene	ND		1.0		ug/L			04/06/20 18:24	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/20 18:24	1
Styrene	ND		1.0		ug/L			04/06/20 18:24	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/20 18:24	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/20 18:24	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/20 18:24	1
Tetrachloroethene	ND		1.0		ug/L			04/06/20 18:24	1
Tetrahydrofuran	ND		10		ug/L			04/06/20 18:24	1
Toluene	ND		1.0		ug/L			04/06/20 18:24	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 18:24	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 18:24	1
Trichloroethene	ND		1.0		ug/L			04/06/20 18:24	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/20 18:24	1
Vinyl chloride	ND		1.0		ug/L			04/06/20 18:24	1
Dibromomethane	ND		1.0		ug/L			04/06/20 18:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	99		70 - 130		04/06/20 18:24	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	104		70 - 130		04/06/20 18:24	1
<i>4-Bromofluorobenzene (Surr)</i>	103		70 - 130		04/06/20 18:24	1

Client Sample ID: MW-563-20200402

Lab Sample ID: 480-168178-12

Date Collected: 04/02/20 07:03

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/20 18:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/20 18:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/20 18:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/20 18:49	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/20 18:49	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/20 18:49	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/20 18:49	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/20 18:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/20 18:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/20 18:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/20 18:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/20 18:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/20 18:49	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/20 18:49	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/20 18:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/20 18:49	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: MW-563-20200402

Lab Sample ID: 480-168178-12

Date Collected: 04/02/20 07:03

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/20 18:49	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/20 18:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/20 18:49	1
1,4-Dioxane	ND		50		ug/L			04/06/20 18:49	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/20 18:49	1
2-Butanone (MEK)	ND	*	10		ug/L			04/06/20 18:49	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/20 18:49	1
2-Hexanone	ND		10		ug/L			04/06/20 18:49	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/20 18:49	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/20 18:49	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/20 18:49	1
Acetone	ND		50		ug/L			04/06/20 18:49	1
Benzene	ND		1.0		ug/L			04/06/20 18:49	1
Bromobenzene	ND		1.0		ug/L			04/06/20 18:49	1
Bromoform	ND		1.0		ug/L			04/06/20 18:49	1
Bromomethane	ND		2.0		ug/L			04/06/20 18:49	1
Carbon disulfide	ND		10		ug/L			04/06/20 18:49	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/20 18:49	1
Chlorobenzene	ND		1.0		ug/L			04/06/20 18:49	1
Chlorobromomethane	ND		1.0		ug/L			04/06/20 18:49	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/20 18:49	1
Chloroethane	ND		2.0		ug/L			04/06/20 18:49	1
Chloroform	ND		1.0		ug/L			04/06/20 18:49	1
Chloromethane	ND		2.0		ug/L			04/06/20 18:49	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 18:49	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 18:49	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/20 18:49	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/20 18:49	1
Ethyl ether	ND		1.0		ug/L			04/06/20 18:49	1
Ethylbenzene	ND		1.0		ug/L			04/06/20 18:49	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/20 18:49	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/20 18:49	1
Isopropyl ether	ND		10		ug/L			04/06/20 18:49	1
Isopropylbenzene	ND		1.0		ug/L			04/06/20 18:49	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/20 18:49	1
Methylene Chloride	ND		1.0		ug/L			04/06/20 18:49	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/20 18:49	1
Naphthalene	ND		5.0		ug/L			04/06/20 18:49	1
n-Butylbenzene	ND		1.0		ug/L			04/06/20 18:49	1
N-Propylbenzene	ND		1.0		ug/L			04/06/20 18:49	1
o-Xylene	ND		1.0		ug/L			04/06/20 18:49	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/20 18:49	1
Styrene	ND		1.0		ug/L			04/06/20 18:49	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/20 18:49	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/20 18:49	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/20 18:49	1
Tetrachloroethene	ND		1.0		ug/L			04/06/20 18:49	1
Tetrahydrofuran	ND		10		ug/L			04/06/20 18:49	1
Toluene	ND		1.0		ug/L			04/06/20 18:49	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: MW-563-20200402

Lab Sample ID: 480-168178-12

Date Collected: 04/02/20 07:03

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 18:49	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 18:49	1
Trichloroethene	ND		1.0		ug/L			04/06/20 18:49	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/20 18:49	1
Vinyl chloride	ND		1.0		ug/L			04/06/20 18:49	1
Dibromomethane	ND		1.0		ug/L			04/06/20 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/06/20 18:49	1
1,2-Dichloroethane-d4 (Surr)	102		70 - 130		04/06/20 18:49	1
4-Bromofluorobenzene (Surr)	103		70 - 130		04/06/20 18:49	1

Client Sample ID: REW-1-202004

Lab Sample ID: 480-168178-13

Date Collected: 04/01/20 11:50

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/20 19:13	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/20 19:13	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/20 19:13	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/20 19:13	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/20 19:13	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/20 19:13	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/20 19:13	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/20 19:13	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/20 19:13	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/20 19:13	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/20 19:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/20 19:13	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/20 19:13	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/20 19:13	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/20 19:13	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/20 19:13	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/20 19:13	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/20 19:13	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/20 19:13	1
1,4-Dioxane	ND		50		ug/L			04/06/20 19:13	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/20 19:13	1
2-Butanone (MEK)	ND *		10		ug/L			04/06/20 19:13	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/20 19:13	1
2-Hexanone	ND		10		ug/L			04/06/20 19:13	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/20 19:13	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/20 19:13	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/20 19:13	1
Acetone	ND		50		ug/L			04/06/20 19:13	1
Benzene	ND		1.0		ug/L			04/06/20 19:13	1
Bromobenzene	ND		1.0		ug/L			04/06/20 19:13	1
Bromoform	ND		1.0		ug/L			04/06/20 19:13	1
Bromomethane	ND		2.0		ug/L			04/06/20 19:13	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: REW-1-202004

Lab Sample ID: 480-168178-13

Date Collected: 04/01/20 11:50

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		10		ug/L			04/06/20 19:13	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/20 19:13	1
Chlorobenzene	ND		1.0		ug/L			04/06/20 19:13	1
Chlorobromomethane	ND		1.0		ug/L			04/06/20 19:13	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/20 19:13	1
Chloroethane	ND		2.0		ug/L			04/06/20 19:13	1
Chloroform	ND		1.0		ug/L			04/06/20 19:13	1
Chloromethane	ND		2.0		ug/L			04/06/20 19:13	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 19:13	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 19:13	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/20 19:13	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/20 19:13	1
Ethyl ether	ND		1.0		ug/L			04/06/20 19:13	1
Ethylbenzene	2.1		1.0		ug/L			04/06/20 19:13	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/20 19:13	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/20 19:13	1
Isopropyl ether	ND		10		ug/L			04/06/20 19:13	1
Isopropylbenzene	ND		1.0		ug/L			04/06/20 19:13	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/20 19:13	1
Methylene Chloride	ND		1.0		ug/L			04/06/20 19:13	1
m-Xylene & p-Xylene	6.7		2.0		ug/L			04/06/20 19:13	1
Naphthalene	ND		5.0		ug/L			04/06/20 19:13	1
n-Butylbenzene	ND		1.0		ug/L			04/06/20 19:13	1
N-Propylbenzene	ND		1.0		ug/L			04/06/20 19:13	1
o-Xylene	2.0		1.0		ug/L			04/06/20 19:13	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/20 19:13	1
Styrene	ND		1.0		ug/L			04/06/20 19:13	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/20 19:13	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/20 19:13	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/20 19:13	1
Tetrachloroethene	ND		1.0		ug/L			04/06/20 19:13	1
Toluene	ND		1.0		ug/L			04/06/20 19:13	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 19:13	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 19:13	1
Trichloroethene	ND		1.0		ug/L			04/06/20 19:13	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/20 19:13	1
Vinyl chloride	ND		1.0		ug/L			04/06/20 19:13	1
Dibromomethane	ND		1.0		ug/L			04/06/20 19:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		04/06/20 19:13	1
1,2-Dichloroethane-d4 (Surr)	104		70 - 130		04/06/20 19:13	1
4-Bromofluorobenzene (Surr)	102		70 - 130		04/06/20 19:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrahydrofuran	310	*	20		ug/L			04/08/20 14:43	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/08/20 14:43	2

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: REW-1-202004

Lab Sample ID: 480-168178-13

Date Collected: 04/01/20 11:50

Matrix: Water

Date Received: 04/04/20 18:11

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/08/20 14:43	2
4-Bromofluorobenzene (Surr)	107		70 - 130		04/08/20 14:43	2

Client Sample ID: REW-4-202004

Lab Sample ID: 480-168178-14

Date Collected: 04/01/20 12:30

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/20 19:38	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/20 19:38	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/20 19:38	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/20 19:38	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/20 19:38	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/20 19:38	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/20 19:38	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/20 19:38	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/20 19:38	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/20 19:38	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/20 19:38	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/20 19:38	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/20 19:38	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/20 19:38	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/20 19:38	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/20 19:38	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/20 19:38	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/20 19:38	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/20 19:38	1
1,4-Dioxane	ND		50		ug/L			04/06/20 19:38	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/20 19:38	1
2-Butanone (MEK)	ND	*	10		ug/L			04/06/20 19:38	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/20 19:38	1
2-Hexanone	ND		10		ug/L			04/06/20 19:38	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/20 19:38	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/20 19:38	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/20 19:38	1
Acetone	ND		50		ug/L			04/06/20 19:38	1
Benzene	ND		1.0		ug/L			04/06/20 19:38	1
Bromobenzene	ND		1.0		ug/L			04/06/20 19:38	1
Bromoform	ND		1.0		ug/L			04/06/20 19:38	1
Bromomethane	ND		2.0		ug/L			04/06/20 19:38	1
Carbon disulfide	ND		10		ug/L			04/06/20 19:38	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/20 19:38	1
Chlorobenzene	ND		1.0		ug/L			04/06/20 19:38	1
Chlorobromomethane	ND		1.0		ug/L			04/06/20 19:38	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/20 19:38	1
Chloroethane	ND		2.0		ug/L			04/06/20 19:38	1
Chloroform	ND		1.0		ug/L			04/06/20 19:38	1
Chloromethane	ND		2.0		ug/L			04/06/20 19:38	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: REW-4-202004

Lab Sample ID: 480-168178-14

Date Collected: 04/01/20 12:30

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	2.3		1.0		ug/L			04/06/20 19:38	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 19:38	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/20 19:38	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/20 19:38	1
Ethyl ether	ND		1.0		ug/L			04/06/20 19:38	1
Ethylbenzene	ND		1.0		ug/L			04/06/20 19:38	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/20 19:38	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/20 19:38	1
Isopropyl ether	ND		10		ug/L			04/06/20 19:38	1
Isopropylbenzene	ND		1.0		ug/L			04/06/20 19:38	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/20 19:38	1
Methylene Chloride	ND		1.0		ug/L			04/06/20 19:38	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/20 19:38	1
Naphthalene	ND		5.0		ug/L			04/06/20 19:38	1
n-Butylbenzene	ND		1.0		ug/L			04/06/20 19:38	1
N-Propylbenzene	ND		1.0		ug/L			04/06/20 19:38	1
o-Xylene	ND		1.0		ug/L			04/06/20 19:38	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/20 19:38	1
Styrene	ND		1.0		ug/L			04/06/20 19:38	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/20 19:38	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/20 19:38	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/20 19:38	1
Tetrachloroethene	ND		1.0		ug/L			04/06/20 19:38	1
Tetrahydrofuran	ND		10		ug/L			04/06/20 19:38	1
Toluene	ND		1.0		ug/L			04/06/20 19:38	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 19:38	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 19:38	1
Trichloroethene	ND		1.0		ug/L			04/06/20 19:38	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/20 19:38	1
Vinyl chloride	ND		1.0		ug/L			04/06/20 19:38	1
Dibromomethane	ND		1.0		ug/L			04/06/20 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	95		70 - 130		04/06/20 19:38	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	98		70 - 130		04/06/20 19:38	1
<i>4-Bromofluorobenzene (Surr)</i>	103		70 - 130		04/06/20 19:38	1

Client Sample ID: REW-5-202004

Lab Sample ID: 480-168178-15

Date Collected: 04/01/20 13:45

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/20 20:02	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/20 20:02	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/20 20:02	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/20 20:02	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/20 20:02	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/20 20:02	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/20 20:02	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: REW-5-202004

Lab Sample ID: 480-168178-15

Date Collected: 04/01/20 13:45

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/20 20:02	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/20 20:02	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/20 20:02	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/20 20:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/20 20:02	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/20 20:02	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/20 20:02	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/20 20:02	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/20 20:02	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/20 20:02	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/20 20:02	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/20 20:02	1
1,4-Dioxane	ND		50		ug/L			04/06/20 20:02	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/20 20:02	1
2-Butanone (MEK)	ND	*	10		ug/L			04/06/20 20:02	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/20 20:02	1
2-Hexanone	ND		10		ug/L			04/06/20 20:02	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/20 20:02	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/20 20:02	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/20 20:02	1
Acetone	ND		50		ug/L			04/06/20 20:02	1
Benzene	ND		1.0		ug/L			04/06/20 20:02	1
Bromobenzene	ND		1.0		ug/L			04/06/20 20:02	1
Bromoform	ND		1.0		ug/L			04/06/20 20:02	1
Bromomethane	ND		2.0		ug/L			04/06/20 20:02	1
Carbon disulfide	ND		10		ug/L			04/06/20 20:02	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/20 20:02	1
Chlorobenzene	ND		1.0		ug/L			04/06/20 20:02	1
Chlorobromomethane	ND		1.0		ug/L			04/06/20 20:02	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/20 20:02	1
Chloroethane	ND		2.0		ug/L			04/06/20 20:02	1
Chloroform	ND		1.0		ug/L			04/06/20 20:02	1
Chloromethane	ND		2.0		ug/L			04/06/20 20:02	1
cis-1,2-Dichloroethene	2.7		1.0		ug/L			04/06/20 20:02	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 20:02	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/20 20:02	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/20 20:02	1
Ethyl ether	ND		1.0		ug/L			04/06/20 20:02	1
Ethylbenzene	ND		1.0		ug/L			04/06/20 20:02	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/20 20:02	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/20 20:02	1
Isopropyl ether	ND		10		ug/L			04/06/20 20:02	1
Isopropylbenzene	ND		1.0		ug/L			04/06/20 20:02	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/20 20:02	1
Methylene Chloride	ND		1.0		ug/L			04/06/20 20:02	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/20 20:02	1
Naphthalene	ND		5.0		ug/L			04/06/20 20:02	1
n-Butylbenzene	ND		1.0		ug/L			04/06/20 20:02	1
N-Propylbenzene	ND		1.0		ug/L			04/06/20 20:02	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: REW-5-202004

Lab Sample ID: 480-168178-15

Date Collected: 04/01/20 13:45

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			04/06/20 20:02	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/20 20:02	1
Styrene	ND		1.0		ug/L			04/06/20 20:02	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/20 20:02	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/20 20:02	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/20 20:02	1
Tetrachloroethene	ND		1.0		ug/L			04/06/20 20:02	1
Tetrahydrofuran	ND		10		ug/L			04/06/20 20:02	1
Toluene	ND		1.0		ug/L			04/06/20 20:02	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 20:02	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 20:02	1
Trichloroethene	ND		1.0		ug/L			04/06/20 20:02	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/20 20:02	1
Vinyl chloride	1.8		1.0		ug/L			04/06/20 20:02	1
Dibromomethane	ND		1.0		ug/L			04/06/20 20:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/06/20 20:02	1
1,2-Dichloroethane-d4 (Surr)	101		70 - 130		04/06/20 20:02	1
4-Bromofluorobenzene (Surr)	106		70 - 130		04/06/20 20:02	1

Client Sample ID: REW-9-20200402

Lab Sample ID: 480-168178-16

Date Collected: 04/02/20 07:40

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/20 20:26	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/20 20:26	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/20 20:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/20 20:26	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/20 20:26	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/20 20:26	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/20 20:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/20 20:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/20 20:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/20 20:26	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/20 20:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/20 20:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/20 20:26	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/20 20:26	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/20 20:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/20 20:26	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/20 20:26	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/20 20:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/20 20:26	1
1,4-Dioxane	ND		50		ug/L			04/06/20 20:26	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/20 20:26	1
2-Butanone (MEK)	ND	*	10		ug/L			04/06/20 20:26	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/20 20:26	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: REW-9-20200402

Lab Sample ID: 480-168178-16

Date Collected: 04/02/20 07:40

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		10		ug/L			04/06/20 20:26	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/20 20:26	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/20 20:26	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/20 20:26	1
Acetone	ND		50		ug/L			04/06/20 20:26	1
Benzene	ND		1.0		ug/L			04/06/20 20:26	1
Bromobenzene	ND		1.0		ug/L			04/06/20 20:26	1
Bromoform	ND		1.0		ug/L			04/06/20 20:26	1
Bromomethane	ND		2.0		ug/L			04/06/20 20:26	1
Carbon disulfide	ND		10		ug/L			04/06/20 20:26	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/20 20:26	1
Chlorobenzene	ND		1.0		ug/L			04/06/20 20:26	1
Chlorobromomethane	ND		1.0		ug/L			04/06/20 20:26	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/20 20:26	1
Chloroethane	ND		2.0		ug/L			04/06/20 20:26	1
Chloroform	ND		1.0		ug/L			04/06/20 20:26	1
Chloromethane	ND		2.0		ug/L			04/06/20 20:26	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 20:26	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 20:26	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/20 20:26	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/20 20:26	1
Ethyl ether	ND		1.0		ug/L			04/06/20 20:26	1
Ethylbenzene	ND		1.0		ug/L			04/06/20 20:26	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/20 20:26	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/20 20:26	1
Isopropyl ether	ND		10		ug/L			04/06/20 20:26	1
Isopropylbenzene	ND		1.0		ug/L			04/06/20 20:26	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/20 20:26	1
Methylene Chloride	ND		1.0		ug/L			04/06/20 20:26	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/20 20:26	1
Naphthalene	ND		5.0		ug/L			04/06/20 20:26	1
n-Butylbenzene	ND		1.0		ug/L			04/06/20 20:26	1
N-Propylbenzene	ND		1.0		ug/L			04/06/20 20:26	1
o-Xylene	ND		1.0		ug/L			04/06/20 20:26	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/20 20:26	1
Styrene	ND		1.0		ug/L			04/06/20 20:26	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/20 20:26	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/20 20:26	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/20 20:26	1
Tetrachloroethene	ND		1.0		ug/L			04/06/20 20:26	1
Tetrahydrofuran	ND		10		ug/L			04/06/20 20:26	1
Toluene	ND		1.0		ug/L			04/06/20 20:26	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 20:26	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 20:26	1
Trichloroethene	ND		1.0		ug/L			04/06/20 20:26	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/20 20:26	1
Vinyl chloride	ND		1.0		ug/L			04/06/20 20:26	1
Dibromomethane	ND		1.0		ug/L			04/06/20 20:26	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: REW-9-20200402

Lab Sample ID: 480-168178-16

Date Collected: 04/02/20 07:40

Matrix: Water

Date Received: 04/04/20 18:11

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		70 - 130		04/06/20 20:26	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		04/06/20 20:26	1
4-Bromofluorobenzene (Surr)	102		70 - 130		04/06/20 20:26	1

Client Sample ID: REW-10-20200402

Lab Sample ID: 480-168178-17

Date Collected: 04/02/20 03:15

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/20 20:51	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/20 20:51	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/20 20:51	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/20 20:51	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/20 20:51	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/20 20:51	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/20 20:51	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/20 20:51	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/20 20:51	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/20 20:51	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/20 20:51	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/20 20:51	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/20 20:51	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/20 20:51	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/20 20:51	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/20 20:51	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/20 20:51	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/20 20:51	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/20 20:51	1
1,4-Dioxane	ND		50		ug/L			04/06/20 20:51	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/20 20:51	1
2-Butanone (MEK)	ND	*	10		ug/L			04/06/20 20:51	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/20 20:51	1
2-Hexanone	ND		10		ug/L			04/06/20 20:51	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/20 20:51	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/20 20:51	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/20 20:51	1
Acetone	ND		50		ug/L			04/06/20 20:51	1
Benzene	ND		1.0		ug/L			04/06/20 20:51	1
Bromobenzene	ND		1.0		ug/L			04/06/20 20:51	1
Bromoform	ND		1.0		ug/L			04/06/20 20:51	1
Bromomethane	ND		2.0		ug/L			04/06/20 20:51	1
Carbon disulfide	ND		10		ug/L			04/06/20 20:51	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/20 20:51	1
Chlorobenzene	ND		1.0		ug/L			04/06/20 20:51	1
Chlorobromomethane	ND		1.0		ug/L			04/06/20 20:51	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/20 20:51	1
Chloroethane	ND		2.0		ug/L			04/06/20 20:51	1
Chloroform	ND		1.0		ug/L			04/06/20 20:51	1
Chloromethane	ND		2.0		ug/L			04/06/20 20:51	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: REW-10-20200402

Lab Sample ID: 480-168178-17

Date Collected: 04/02/20 03:15

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 20:51	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 20:51	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/20 20:51	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/20 20:51	1
Ethyl ether	ND		1.0		ug/L			04/06/20 20:51	1
Ethylbenzene	ND		1.0		ug/L			04/06/20 20:51	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/20 20:51	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/20 20:51	1
Isopropyl ether	ND		10		ug/L			04/06/20 20:51	1
Isopropylbenzene	ND		1.0		ug/L			04/06/20 20:51	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/20 20:51	1
Methylene Chloride	ND		1.0		ug/L			04/06/20 20:51	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/20 20:51	1
Naphthalene	ND		5.0		ug/L			04/06/20 20:51	1
n-Butylbenzene	ND		1.0		ug/L			04/06/20 20:51	1
N-Propylbenzene	ND		1.0		ug/L			04/06/20 20:51	1
o-Xylene	ND		1.0		ug/L			04/06/20 20:51	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/20 20:51	1
Styrene	ND		1.0		ug/L			04/06/20 20:51	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/20 20:51	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/20 20:51	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/20 20:51	1
Tetrachloroethene	ND		1.0		ug/L			04/06/20 20:51	1
Tetrahydrofuran	ND		10		ug/L			04/06/20 20:51	1
Toluene	ND		1.0		ug/L			04/06/20 20:51	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 20:51	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 20:51	1
Trichloroethene	ND		1.0		ug/L			04/06/20 20:51	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/20 20:51	1
Vinyl chloride	ND		1.0		ug/L			04/06/20 20:51	1
Dibromomethane	ND		1.0		ug/L			04/06/20 20:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130		04/06/20 20:51	1
1,2-Dichloroethane-d4 (Surr)	106		70 - 130		04/06/20 20:51	1
4-Bromofluorobenzene (Surr)	111		70 - 130		04/06/20 20:51	1

Client Sample ID: DUP2-20200402

Lab Sample ID: 480-168178-18

Date Collected: 04/02/20 00:00

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/08/20 15:07	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/08/20 15:07	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/08/20 15:07	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/08/20 15:07	1
1,1-Dichloroethane	ND		1.0		ug/L			04/08/20 15:07	1
1,1-Dichloroethene	ND		1.0		ug/L			04/08/20 15:07	1
1,1-Dichloropropene	ND		1.0		ug/L			04/08/20 15:07	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: DUP2-20200402

Lab Sample ID: 480-168178-18

Date Collected: 04/02/20 00:00

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/08/20 15:07	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/08/20 15:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/08/20 15:07	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/08/20 15:07	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/08/20 15:07	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/08/20 15:07	1
1,2-Dichloroethane	ND		1.0		ug/L			04/08/20 15:07	1
1,2-Dichloropropane	ND		1.0		ug/L			04/08/20 15:07	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/08/20 15:07	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/08/20 15:07	1
1,3-Dichloropropane	ND		1.0		ug/L			04/08/20 15:07	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/08/20 15:07	1
1,4-Dioxane	ND *		50		ug/L			04/08/20 15:07	1
2,2-Dichloropropane	ND		1.0		ug/L			04/08/20 15:07	1
2-Butanone (MEK)	ND *		10		ug/L			04/08/20 15:07	1
2-Chlorotoluene	ND		1.0		ug/L			04/08/20 15:07	1
2-Hexanone	ND		10		ug/L			04/08/20 15:07	1
4-Chlorotoluene	ND		1.0		ug/L			04/08/20 15:07	1
4-Isopropyltoluene	ND		1.0		ug/L			04/08/20 15:07	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/08/20 15:07	1
Acetone	ND		50		ug/L			04/08/20 15:07	1
Benzene	ND		1.0		ug/L			04/08/20 15:07	1
Bromobenzene	ND		1.0		ug/L			04/08/20 15:07	1
Bromoform	ND		1.0		ug/L			04/08/20 15:07	1
Bromomethane	ND		2.0		ug/L			04/08/20 15:07	1
Carbon disulfide	ND		10		ug/L			04/08/20 15:07	1
Carbon tetrachloride	ND		1.0		ug/L			04/08/20 15:07	1
Chlorobenzene	ND		1.0		ug/L			04/08/20 15:07	1
Chlorobromomethane	ND		1.0		ug/L			04/08/20 15:07	1
Chlorodibromomethane	ND		0.50		ug/L			04/08/20 15:07	1
Chloroethane	ND		2.0		ug/L			04/08/20 15:07	1
Chloroform	ND		1.0		ug/L			04/08/20 15:07	1
Chloromethane	ND		2.0		ug/L			04/08/20 15:07	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/08/20 15:07	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/08/20 15:07	1
Dichlorobromomethane	ND		0.50		ug/L			04/08/20 15:07	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/08/20 15:07	1
Ethyl ether	ND		1.0		ug/L			04/08/20 15:07	1
Ethylbenzene	ND		1.0		ug/L			04/08/20 15:07	1
Ethylene Dibromide	ND		1.0		ug/L			04/08/20 15:07	1
Hexachlorobutadiene	ND		0.40		ug/L			04/08/20 15:07	1
Isopropyl ether	ND		10		ug/L			04/08/20 15:07	1
Isopropylbenzene	ND		1.0		ug/L			04/08/20 15:07	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/08/20 15:07	1
Methylene Chloride	ND		1.0		ug/L			04/08/20 15:07	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/08/20 15:07	1
Naphthalene	ND		5.0		ug/L			04/08/20 15:07	1
n-Butylbenzene	ND		1.0		ug/L			04/08/20 15:07	1
N-Propylbenzene	ND		1.0		ug/L			04/08/20 15:07	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: DUP2-20200402

Lab Sample ID: 480-168178-18

Date Collected: 04/02/20 00:00

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		1.0		ug/L			04/08/20 15:07	1
sec-Butylbenzene	ND		1.0		ug/L			04/08/20 15:07	1
Styrene	ND		1.0		ug/L			04/08/20 15:07	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/08/20 15:07	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/08/20 15:07	1
tert-Butylbenzene	ND		1.0		ug/L			04/08/20 15:07	1
Tetrachloroethene	ND		1.0		ug/L			04/08/20 15:07	1
Tetrahydrofuran	ND	*	10		ug/L			04/08/20 15:07	1
Toluene	ND		1.0		ug/L			04/08/20 15:07	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/08/20 15:07	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/08/20 15:07	1
Trichloroethene	ND		1.0		ug/L			04/08/20 15:07	1
Trichlorofluoromethane	ND		1.0		ug/L			04/08/20 15:07	1
Vinyl chloride	ND		1.0		ug/L			04/08/20 15:07	1
Dibromomethane	ND		1.0		ug/L			04/08/20 15:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/08/20 15:07	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 130		04/08/20 15:07	1
4-Bromofluorobenzene (Surr)	106		70 - 130		04/08/20 15:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.91		0.20		ug/L		04/06/20 11:16	04/07/20 22:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	66		46 - 130	04/06/20 11:16	04/07/20 22:38	1

Client Sample ID: DUP3--20200402

Lab Sample ID: 480-168178-19

Date Collected: 04/02/20 00:00

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/08/20 15:31	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/08/20 15:31	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/08/20 15:31	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/08/20 15:31	1
1,1-Dichloroethane	ND		1.0		ug/L			04/08/20 15:31	1
1,1-Dichloroethene	ND		1.0		ug/L			04/08/20 15:31	1
1,1-Dichloropropene	ND		1.0		ug/L			04/08/20 15:31	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/08/20 15:31	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/08/20 15:31	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/08/20 15:31	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/08/20 15:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/08/20 15:31	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/08/20 15:31	1
1,2-Dichloroethane	ND		1.0		ug/L			04/08/20 15:31	1
1,2-Dichloropropane	ND		1.0		ug/L			04/08/20 15:31	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/08/20 15:31	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/08/20 15:31	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: DUP3--20200402

Lab Sample ID: 480-168178-19

Date Collected: 04/02/20 00:00

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		1.0		ug/L			04/08/20 15:31	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/08/20 15:31	1
1,4-Dioxane	ND	*	50		ug/L			04/08/20 15:31	1
2,2-Dichloropropane	ND		1.0		ug/L			04/08/20 15:31	1
2-Butanone (MEK)	ND	*	10		ug/L			04/08/20 15:31	1
2-Chlorotoluene	ND		1.0		ug/L			04/08/20 15:31	1
2-Hexanone	ND		10		ug/L			04/08/20 15:31	1
4-Chlorotoluene	ND		1.0		ug/L			04/08/20 15:31	1
4-Isopropyltoluene	ND		1.0		ug/L			04/08/20 15:31	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/08/20 15:31	1
Acetone	ND		50		ug/L			04/08/20 15:31	1
Benzene	ND		1.0		ug/L			04/08/20 15:31	1
Bromobenzene	ND		1.0		ug/L			04/08/20 15:31	1
Bromoform	ND		1.0		ug/L			04/08/20 15:31	1
Bromomethane	ND		2.0		ug/L			04/08/20 15:31	1
Carbon disulfide	ND		10		ug/L			04/08/20 15:31	1
Carbon tetrachloride	ND		1.0		ug/L			04/08/20 15:31	1
Chlorobenzene	ND		1.0		ug/L			04/08/20 15:31	1
Chlorobromomethane	ND		1.0		ug/L			04/08/20 15:31	1
Chlorodibromomethane	ND		0.50		ug/L			04/08/20 15:31	1
Chloroethane	ND		2.0		ug/L			04/08/20 15:31	1
Chloroform	ND		1.0		ug/L			04/08/20 15:31	1
Chloromethane	ND		2.0		ug/L			04/08/20 15:31	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/08/20 15:31	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/08/20 15:31	1
Dichlorobromomethane	ND		0.50		ug/L			04/08/20 15:31	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/08/20 15:31	1
Ethyl ether	ND		1.0		ug/L			04/08/20 15:31	1
Ethylbenzene	ND		1.0		ug/L			04/08/20 15:31	1
Ethylene Dibromide	ND		1.0		ug/L			04/08/20 15:31	1
Hexachlorobutadiene	ND		0.40		ug/L			04/08/20 15:31	1
Isopropyl ether	ND		10		ug/L			04/08/20 15:31	1
Isopropylbenzene	ND		1.0		ug/L			04/08/20 15:31	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/08/20 15:31	1
Methylene Chloride	ND		1.0		ug/L			04/08/20 15:31	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/08/20 15:31	1
Naphthalene	ND		5.0		ug/L			04/08/20 15:31	1
n-Butylbenzene	ND		1.0		ug/L			04/08/20 15:31	1
N-Propylbenzene	ND		1.0		ug/L			04/08/20 15:31	1
o-Xylene	ND		1.0		ug/L			04/08/20 15:31	1
sec-Butylbenzene	ND		1.0		ug/L			04/08/20 15:31	1
Styrene	ND		1.0		ug/L			04/08/20 15:31	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/08/20 15:31	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/08/20 15:31	1
tert-Butylbenzene	ND		1.0		ug/L			04/08/20 15:31	1
Tetrachloroethene	ND		1.0		ug/L			04/08/20 15:31	1
Tetrahydrofuran	ND	*	10		ug/L			04/08/20 15:31	1
Toluene	ND		1.0		ug/L			04/08/20 15:31	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/08/20 15:31	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: DUP3--20200402

Lab Sample ID: 480-168178-19

Date Collected: 04/02/20 00:00

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/08/20 15:31	1
Trichloroethene	ND		1.0		ug/L			04/08/20 15:31	1
Trichlorofluoromethane	ND		1.0		ug/L			04/08/20 15:31	1
Vinyl chloride	ND		1.0		ug/L			04/08/20 15:31	1
Dibromomethane	ND		1.0		ug/L			04/08/20 15:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		70 - 130					04/08/20 15:31	1
1,2-Dichloroethane-d4 (Surr)	113		70 - 130					04/08/20 15:31	1
4-Bromofluorobenzene (Surr)	108		70 - 130					04/08/20 15:31	1

Client Sample ID: DUP4-202004

Lab Sample ID: 480-168178-20

Date Collected: 04/01/20 00:00

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/08/20 15:54	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/08/20 15:54	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/08/20 15:54	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/08/20 15:54	1
1,1-Dichloroethane	ND		1.0		ug/L			04/08/20 15:54	1
1,1-Dichloroethene	ND		1.0		ug/L			04/08/20 15:54	1
1,1-Dichloropropene	ND		1.0		ug/L			04/08/20 15:54	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/08/20 15:54	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/08/20 15:54	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/08/20 15:54	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/08/20 15:54	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/08/20 15:54	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/08/20 15:54	1
1,2-Dichloroethane	ND		1.0		ug/L			04/08/20 15:54	1
1,2-Dichloropropane	ND		1.0		ug/L			04/08/20 15:54	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/08/20 15:54	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/08/20 15:54	1
1,3-Dichloropropane	ND		1.0		ug/L			04/08/20 15:54	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/08/20 15:54	1
1,4-Dioxane	ND *		50		ug/L			04/08/20 15:54	1
2,2-Dichloropropane	ND		1.0		ug/L			04/08/20 15:54	1
2-Butanone (MEK)	ND *		10		ug/L			04/08/20 15:54	1
2-Chlorotoluene	ND		1.0		ug/L			04/08/20 15:54	1
2-Hexanone	ND		10		ug/L			04/08/20 15:54	1
4-Chlorotoluene	ND		1.0		ug/L			04/08/20 15:54	1
4-Isopropyltoluene	ND		1.0		ug/L			04/08/20 15:54	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/08/20 15:54	1
Acetone	ND		50		ug/L			04/08/20 15:54	1
Benzene	ND		1.0		ug/L			04/08/20 15:54	1
Bromobenzene	ND		1.0		ug/L			04/08/20 15:54	1
Bromoform	ND		1.0		ug/L			04/08/20 15:54	1
Bromomethane	ND		2.0		ug/L			04/08/20 15:54	1
Carbon disulfide	ND		10		ug/L			04/08/20 15:54	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: DUP4-202004

Lab Sample ID: 480-168178-20

Date Collected: 04/01/20 00:00

Matrix: Water

Date Received: 04/04/20 18:11

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			04/08/20 15:54	1
Chlorobenzene	ND		1.0		ug/L			04/08/20 15:54	1
Chlorobromomethane	ND		1.0		ug/L			04/08/20 15:54	1
Chlorodibromomethane	ND		0.50		ug/L			04/08/20 15:54	1
Chloroethane	ND		2.0		ug/L			04/08/20 15:54	1
Chloroform	ND		1.0		ug/L			04/08/20 15:54	1
Chloromethane	ND		2.0		ug/L			04/08/20 15:54	1
cis-1,2-Dichloroethene	27		1.0		ug/L			04/08/20 15:54	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/08/20 15:54	1
Dichlorobromomethane	ND		0.50		ug/L			04/08/20 15:54	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/08/20 15:54	1
Ethyl ether	ND		1.0		ug/L			04/08/20 15:54	1
Ethylbenzene	ND		1.0		ug/L			04/08/20 15:54	1
Ethylene Dibromide	ND		1.0		ug/L			04/08/20 15:54	1
Hexachlorobutadiene	ND		0.40		ug/L			04/08/20 15:54	1
Isopropyl ether	ND		10		ug/L			04/08/20 15:54	1
Isopropylbenzene	ND		1.0		ug/L			04/08/20 15:54	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/08/20 15:54	1
Methylene Chloride	ND		1.0		ug/L			04/08/20 15:54	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/08/20 15:54	1
Naphthalene	ND		5.0		ug/L			04/08/20 15:54	1
n-Butylbenzene	ND		1.0		ug/L			04/08/20 15:54	1
N-Propylbenzene	ND		1.0		ug/L			04/08/20 15:54	1
o-Xylene	ND		1.0		ug/L			04/08/20 15:54	1
sec-Butylbenzene	ND		1.0		ug/L			04/08/20 15:54	1
Styrene	ND		1.0		ug/L			04/08/20 15:54	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/08/20 15:54	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/08/20 15:54	1
tert-Butylbenzene	ND		1.0		ug/L			04/08/20 15:54	1
Tetrachloroethene	ND		1.0		ug/L			04/08/20 15:54	1
Tetrahydrofuran	ND *		10		ug/L			04/08/20 15:54	1
Toluene	ND		1.0		ug/L			04/08/20 15:54	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/08/20 15:54	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/08/20 15:54	1
Trichloroethene	5.6		1.0		ug/L			04/08/20 15:54	1
Trichlorofluoromethane	ND		1.0		ug/L			04/08/20 15:54	1
Vinyl chloride	16		1.0		ug/L			04/08/20 15:54	1
Dibromomethane	ND		1.0		ug/L			04/08/20 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		70 - 130		04/08/20 15:54	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/08/20 15:54	1
4-Bromofluorobenzene (Surr)	102		70 - 130		04/08/20 15:54	1

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-168178-21

Date Collected: 04/01/20 00:00

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/20 22:27	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/20 22:27	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/20 22:27	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/20 22:27	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/20 22:27	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/20 22:27	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/20 22:27	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/20 22:27	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/20 22:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/20 22:27	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/20 22:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/20 22:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/20 22:27	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/20 22:27	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/20 22:27	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/20 22:27	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/20 22:27	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/20 22:27	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/20 22:27	1
1,4-Dioxane	ND		50		ug/L			04/06/20 22:27	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/20 22:27	1
2-Butanone (MEK)	ND	*	10		ug/L			04/06/20 22:27	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/20 22:27	1
2-Hexanone	ND		10		ug/L			04/06/20 22:27	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/20 22:27	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/20 22:27	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/20 22:27	1
Acetone	ND		50		ug/L			04/06/20 22:27	1
Benzene	ND		1.0		ug/L			04/06/20 22:27	1
Bromobenzene	ND		1.0		ug/L			04/06/20 22:27	1
Bromoform	ND		1.0		ug/L			04/06/20 22:27	1
Bromomethane	ND		2.0		ug/L			04/06/20 22:27	1
Carbon disulfide	ND		10		ug/L			04/06/20 22:27	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/20 22:27	1
Chlorobenzene	ND		1.0		ug/L			04/06/20 22:27	1
Chlorobromomethane	ND		1.0		ug/L			04/06/20 22:27	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/20 22:27	1
Chloroethane	ND		2.0		ug/L			04/06/20 22:27	1
Chloroform	ND		1.0		ug/L			04/06/20 22:27	1
Chloromethane	ND		2.0		ug/L			04/06/20 22:27	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 22:27	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 22:27	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/20 22:27	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/20 22:27	1
Ethyl ether	ND		1.0		ug/L			04/06/20 22:27	1
Ethylbenzene	ND		1.0		ug/L			04/06/20 22:27	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/20 22:27	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/20 22:27	1
Isopropyl ether	ND		10		ug/L			04/06/20 22:27	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-168178-1

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-168178-21

Date Collected: 04/01/20 00:00

Matrix: Water

Date Received: 04/04/20 18:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		1.0		ug/L			04/06/20 22:27	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/20 22:27	1
Methylene Chloride	ND		1.0		ug/L			04/06/20 22:27	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/20 22:27	1
Naphthalene	ND		5.0		ug/L			04/06/20 22:27	1
n-Butylbenzene	ND		1.0		ug/L			04/06/20 22:27	1
N-Propylbenzene	ND		1.0		ug/L			04/06/20 22:27	1
o-Xylene	ND		1.0		ug/L			04/06/20 22:27	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/20 22:27	1
Styrene	ND		1.0		ug/L			04/06/20 22:27	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/20 22:27	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/20 22:27	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/20 22:27	1
Tetrachloroethene	ND		1.0		ug/L			04/06/20 22:27	1
Tetrahydrofuran	ND		10		ug/L			04/06/20 22:27	1
Toluene	ND		1.0		ug/L			04/06/20 22:27	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 22:27	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 22:27	1
Trichloroethene	ND		1.0		ug/L			04/06/20 22:27	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/20 22:27	1
Vinyl chloride	ND		1.0		ug/L			04/06/20 22:27	1
Dibromomethane	ND		1.0		ug/L			04/06/20 22:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	99		70 - 130		04/06/20 22:27	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	106		70 - 130		04/06/20 22:27	1
<i>4-Bromofluorobenzene (Surr)</i>	107		70 - 130		04/06/20 22:27	1

Surrogate Summary

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

Job ID: 480-168178-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		TOL (70-130)	DCA (70-130)	BFB (70-130)
480-168178-1	DEP-21-202004 03	102	110	108
480-168178-2	MW-264M-202004	98	113	106
480-168178-3	MW-265S-202004	98	113	106
480-168178-4	MW-265M-202004	99	110	107
480-168178-5	MW-265D-202004	97	112	105
480-168178-6	MW-266Ma-20200402	98	111	105
480-168178-7	MW-266Mb-20200402	99	112	108
480-168178-7 - DL	MW-266Mb-20200402	102	116	109
480-168178-8	MW-269Ma-20200402	98	111	106
480-168178-9	MW-560-20200402	100	110	105
480-168178-10	MW-561-20200402	93	97	99
480-168178-11	MW-562-202004	99	104	103
480-168178-12	MW-563-20200402	95	102	103
480-168178-13	REW-1-202004	97	104	102
480-168178-13 - DL	REW-1-202004	100	111	107
480-168178-14	REW-4-202004	95	98	103
480-168178-15	REW-5-202004	99	101	106
480-168178-16	REW-9-20200402	95	95	102
480-168178-17	REW-10-20200402	101	106	111
480-168178-18	DUP2-20200402	99	113	106
480-168178-19	DUP3--20200402	101	113	108
480-168178-20	DUP4-202004	99	110	102
480-168178-21	TRIP BLANKS	99	106	107
LCS 480-524474/5	Lab Control Sample	96	103	100
LCS 480-524475/7	Lab Control Sample	100	109	104
LCS 480-524851/6	Lab Control Sample	99	113	105
LCSD 480-524474/29	Lab Control Sample Dup	96	104	101
LCSD 480-524475/8	Lab Control Sample Dup	101	108	107
LCSD 480-524851/7	Lab Control Sample Dup	98	113	107
MB 480-524474/7	Method Blank	94	99	100
MB 480-524475/10	Method Blank	100	111	104
MB 480-524851/9	Method Blank	100	110	106

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DXE (46-130)
480-168178-4	MW-265M-202004	79
480-168178-6	MW-266Ma-20200402	82
480-168178-8	MW-269Ma-20200402	80
480-168178-18	DUP2-20200402	66
LLCS 200-153901/2-A	Lab Control Sample	82
MB 200-153901/1-A	Method Blank	82

Eurofins TestAmerica, Buffalo

Surrogate Summary

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

Job ID: 480-168178-1

Surrogate Legend

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

QC Sample Results

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

Job ID: 480-168178-1

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

Lab Sample ID: MB 480-524474/7

Matrix: Water

Analysis Batch: 524474

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/20 14:36	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/20 14:36	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/20 14:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/20 14:36	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/20 14:36	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/20 14:36	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/20 14:36	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/20 14:36	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/20 14:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/20 14:36	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/20 14:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/20 14:36	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/20 14:36	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/20 14:36	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/20 14:36	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/20 14:36	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/20 14:36	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/20 14:36	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/20 14:36	1
1,4-Dioxane	ND		50		ug/L			04/06/20 14:36	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/20 14:36	1
2-Butanone (MEK)	ND		10		ug/L			04/06/20 14:36	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/20 14:36	1
2-Hexanone	ND		10		ug/L			04/06/20 14:36	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/20 14:36	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/20 14:36	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/20 14:36	1
Acetone	ND		50		ug/L			04/06/20 14:36	1
Benzene	ND		1.0		ug/L			04/06/20 14:36	1
Bromobenzene	ND		1.0		ug/L			04/06/20 14:36	1
Bromoform	ND		1.0		ug/L			04/06/20 14:36	1
Bromomethane	ND		2.0		ug/L			04/06/20 14:36	1
Carbon disulfide	ND		10		ug/L			04/06/20 14:36	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/20 14:36	1
Chlorobenzene	ND		1.0		ug/L			04/06/20 14:36	1
Chlorobromomethane	ND		1.0		ug/L			04/06/20 14:36	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/20 14:36	1
Chloroethane	ND		2.0		ug/L			04/06/20 14:36	1
Chloroform	ND		1.0		ug/L			04/06/20 14:36	1
Chloromethane	ND		2.0		ug/L			04/06/20 14:36	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 14:36	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 14:36	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/20 14:36	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/20 14:36	1
Ethyl ether	ND		1.0		ug/L			04/06/20 14:36	1
Ethylbenzene	ND		1.0		ug/L			04/06/20 14:36	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/20 14:36	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/20 14:36	1

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168178-1

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

Lab Sample ID: MB 480-524474/7
Matrix: Water
Analysis Batch: 524474

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			04/06/20 14:36	1
Isopropylbenzene	ND		1.0		ug/L			04/06/20 14:36	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/20 14:36	1
Methylene Chloride	ND		1.0		ug/L			04/06/20 14:36	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/20 14:36	1
Naphthalene	ND		5.0		ug/L			04/06/20 14:36	1
n-Butylbenzene	ND		1.0		ug/L			04/06/20 14:36	1
N-Propylbenzene	ND		1.0		ug/L			04/06/20 14:36	1
o-Xylene	ND		1.0		ug/L			04/06/20 14:36	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/20 14:36	1
Styrene	ND		1.0		ug/L			04/06/20 14:36	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/20 14:36	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/20 14:36	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/20 14:36	1
Tetrachloroethene	ND		1.0		ug/L			04/06/20 14:36	1
Tetrahydrofuran	ND		10		ug/L			04/06/20 14:36	1
Toluene	ND		1.0		ug/L			04/06/20 14:36	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 14:36	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 14:36	1
Trichloroethene	ND		1.0		ug/L			04/06/20 14:36	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/20 14:36	1
Vinyl chloride	ND		1.0		ug/L			04/06/20 14:36	1
Dibromomethane	ND		1.0		ug/L			04/06/20 14:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		70 - 130		04/06/20 14:36	1
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		04/06/20 14:36	1
4-Bromofluorobenzene (Surr)	100		70 - 130		04/06/20 14:36	1

Lab Sample ID: LCS 480-524474/5
Matrix: Water
Analysis Batch: 524474

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	24.7		ug/L		99	70 - 130
1,1,1-Trichloroethane	25.0	23.5		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.1		ug/L		92	70 - 130
1,1,2-Trichloroethane	25.0	22.9		ug/L		92	70 - 130
1,1-Dichloroethane	25.0	23.6		ug/L		94	70 - 130
1,1-Dichloroethene	25.0	23.3		ug/L		93	70 - 130
1,1-Dichloropropene	25.0	23.9		ug/L		96	70 - 130
1,2,3-Trichlorobenzene	25.0	24.0		ug/L		96	70 - 130
1,2,3-Trichloropropane	25.0	23.4		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,2,4-Trimethylbenzene	25.0	23.7		ug/L		95	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	21.3		ug/L		85	70 - 130
1,2-Dichlorobenzene	25.0	23.1		ug/L		92	70 - 130
1,2-Dichloroethane	25.0	22.4		ug/L		90	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168178-1

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

Lab Sample ID: LCS 480-524474/5

Matrix: Water

Analysis Batch: 524474

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	23.4		ug/L		94	70 - 130
1,3,5-Trimethylbenzene	25.0	23.4		ug/L		94	70 - 130
1,3-Dichlorobenzene	25.0	22.6		ug/L		90	70 - 130
1,3-Dichloropropane	25.0	23.2		ug/L		93	70 - 130
1,4-Dichlorobenzene	25.0	22.9		ug/L		92	70 - 130
1,4-Dioxane	500	442		ug/L		88	70 - 130
2,2-Dichloropropane	25.0	22.8		ug/L		91	70 - 130
2-Butanone (MEK)	125	208	*	ug/L		166	70 - 130
2-Chlorotoluene	25.0	23.1		ug/L		92	70 - 130
2-Hexanone	125	109		ug/L		87	70 - 130
4-Chlorotoluene	25.0	27.0		ug/L		108	70 - 130
4-Isopropyltoluene	25.0	23.8		ug/L		95	70 - 130
4-Methyl-2-pentanone (MIBK)	125	112		ug/L		89	70 - 130
Acetone	125	134		ug/L		107	70 - 130
Benzene	25.0	23.2		ug/L		93	70 - 130
Bromobenzene	25.0	23.1		ug/L		92	70 - 130
Bromoform	25.0	23.7		ug/L		95	70 - 130
Bromomethane	25.0	22.3		ug/L		89	70 - 130
Carbon disulfide	25.0	22.9		ug/L		92	70 - 130
Carbon tetrachloride	25.0	23.4		ug/L		93	70 - 130
Chlorobenzene	25.0	23.9		ug/L		96	70 - 130
Chlorobromomethane	25.0	24.9		ug/L		100	70 - 130
Chlorodibromomethane	25.0	24.7		ug/L		99	70 - 130
Chloroethane	25.0	22.6		ug/L		90	70 - 130
Chloroform	25.0	22.6		ug/L		90	70 - 130
Chloromethane	25.0	22.3		ug/L		89	70 - 130
cis-1,2-Dichloroethene	25.0	23.6		ug/L		95	70 - 130
cis-1,3-Dichloropropene	25.0	24.6		ug/L		98	70 - 130
Dichlorobromomethane	25.0	24.4		ug/L		98	70 - 130
Dichlorodifluoromethane	25.0	25.7		ug/L		103	70 - 130
Ethyl ether	25.0	22.6		ug/L		90	70 - 130
Ethylbenzene	25.0	23.4		ug/L		93	70 - 130
Ethylene Dibromide	25.0	24.1		ug/L		96	70 - 130
Hexachlorobutadiene	25.0	25.6		ug/L		103	70 - 130
Isopropyl ether	25.0	22.7		ug/L		91	70 - 130
Isopropylbenzene	25.0	23.2		ug/L		93	70 - 130
Methyl tert-butyl ether	25.0	23.3		ug/L		93	70 - 130
Methylene Chloride	25.0	21.1		ug/L		84	70 - 130
m-Xylene & p-Xylene	25.0	23.5		ug/L		94	70 - 130
Naphthalene	25.0	23.3		ug/L		93	70 - 130
n-Butylbenzene	25.0	22.6		ug/L		90	70 - 130
N-Propylbenzene	25.0	22.8		ug/L		91	70 - 130
o-Xylene	25.0	23.6		ug/L		95	70 - 130
sec-Butylbenzene	25.0	22.9		ug/L		92	70 - 130
Styrene	25.0	24.1		ug/L		96	70 - 130
Tert-amyl methyl ether	25.0	22.8		ug/L		91	70 - 130
Tert-butyl ethyl ether	25.0	21.2		ug/L		85	70 - 130
tert-Butylbenzene	25.0	24.0		ug/L		96	70 - 130
Tetrachloroethene	25.0	25.9		ug/L		103	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168178-1

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

Lab Sample ID: LCS 480-524474/5

Matrix: Water

Analysis Batch: 524474

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrahydrofuran	50.0	57.7		ug/L		115	70 - 130
Toluene	25.0	23.8		ug/L		95	70 - 130
trans-1,2-Dichloroethene	25.0	23.7		ug/L		95	70 - 130
trans-1,3-Dichloropropene	25.0	23.6		ug/L		94	70 - 130
Trichloroethene	25.0	23.7		ug/L		95	70 - 130
Trichlorofluoromethane	25.0	22.5		ug/L		90	70 - 130
Vinyl chloride	25.0	22.7		ug/L		91	70 - 130
Dibromomethane	25.0	22.8		ug/L		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	103		70 - 130
4-Bromofluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 480-524474/29

Matrix: Water

Analysis Batch: 524474

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	24.2		ug/L		97	70 - 130	2	20
1,1,1-Trichloroethane	25.0	22.7		ug/L		91	70 - 130	3	20
1,1,1,2-Tetrachloroethane	25.0	23.4		ug/L		94	70 - 130	1	20
1,1,2-Trichloroethane	25.0	23.0		ug/L		92	70 - 130	0	20
1,1-Dichloroethane	25.0	23.3		ug/L		93	70 - 130	1	20
1,1-Dichloroethene	25.0	22.7		ug/L		91	70 - 130	2	20
1,1-Dichloropropene	25.0	23.0		ug/L		92	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	24.7		ug/L		99	70 - 130	3	20
1,2,3-Trichloropropane	25.0	23.4		ug/L		94	70 - 130	0	20
1,2,4-Trichlorobenzene	25.0	24.6		ug/L		98	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	23.6		ug/L		95	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	25.0	24.0		ug/L		96	70 - 130	12	20
1,2-Dichlorobenzene	25.0	23.0		ug/L		92	70 - 130	0	20
1,2-Dichloroethane	25.0	23.1		ug/L		93	70 - 130	3	20
1,2-Dichloropropane	25.0	23.3		ug/L		93	70 - 130	0	20
1,3,5-Trimethylbenzene	25.0	22.8		ug/L		91	70 - 130	3	20
1,3-Dichlorobenzene	25.0	22.9		ug/L		92	70 - 130	1	20
1,3-Dichloropropane	25.0	23.2		ug/L		93	70 - 130	0	20
1,4-Dichlorobenzene	25.0	22.9		ug/L		92	70 - 130	0	20
1,4-Dioxane	500	463		ug/L		93	70 - 130	5	20
2,2-Dichloropropane	25.0	23.0		ug/L		92	70 - 130	1	20
2-Butanone (MEK)	125	214	*	ug/L		172	70 - 130	3	20
2-Chlorotoluene	25.0	22.8		ug/L		91	70 - 130	1	20
2-Hexanone	125	111		ug/L		89	70 - 130	2	20
4-Chlorotoluene	25.0	22.5		ug/L		90	70 - 130	18	20
4-Isopropyltoluene	25.0	23.4		ug/L		94	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)	125	112		ug/L		89	70 - 130	0	20
Acetone	125	137		ug/L		110	70 - 130	2	20
Benzene	25.0	23.2		ug/L		93	70 - 130	0	20

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168178-1

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

Lab Sample ID: LCSD 480-524474/29
Matrix: Water
Analysis Batch: 524474

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
Bromobenzene	25.0	23.6		ug/L		94	70 - 130	2	20
Bromoform	25.0	24.7		ug/L		99	70 - 130	4	20
Bromomethane	25.0	22.0		ug/L		88	70 - 130	1	20
Carbon disulfide	25.0	22.3		ug/L		89	70 - 130	3	20
Carbon tetrachloride	25.0	22.9		ug/L		91	70 - 130	2	20
Chlorobenzene	25.0	23.5		ug/L		94	70 - 130	2	20
Chlorobromomethane	25.0	24.6		ug/L		99	70 - 130	1	20
Chlorodibromomethane	25.0	25.0		ug/L		100	70 - 130	1	20
Chloroethane	25.0	22.1		ug/L		88	70 - 130	2	20
Chloroform	25.0	22.3		ug/L		89	70 - 130	1	20
Chloromethane	25.0	21.9		ug/L		88	70 - 130	2	20
cis-1,2-Dichloroethene	25.0	23.1		ug/L		92	70 - 130	2	20
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	70 - 130	0	20
Dichlorobromomethane	25.0	24.2		ug/L		97	70 - 130	1	20
Dichlorodifluoromethane	25.0	24.0		ug/L		96	70 - 130	7	20
Ethyl ether	25.0	23.2		ug/L		93	70 - 130	3	20
Ethylbenzene	25.0	23.1		ug/L		92	70 - 130	1	20
Ethylene Dibromide	25.0	24.0		ug/L		96	70 - 130	0	20
Hexachlorobutadiene	25.0	25.7		ug/L		103	70 - 130	0	20
Isopropyl ether	25.0	23.1		ug/L		93	70 - 130	2	20
Isopropylbenzene	25.0	22.9		ug/L		92	70 - 130	1	20
Methyl tert-butyl ether	25.0	23.7		ug/L		95	70 - 130	2	20
Methylene Chloride	25.0	21.4		ug/L		86	70 - 130	1	20
m-Xylene & p-Xylene	25.0	23.4		ug/L		94	70 - 130	0	20
Naphthalene	25.0	23.8		ug/L		95	70 - 130	2	20
n-Butylbenzene	25.0	22.5		ug/L		90	70 - 130	1	20
N-Propylbenzene	25.0	22.5		ug/L		90	70 - 130	1	20
o-Xylene	25.0	23.3		ug/L		93	70 - 130	2	20
sec-Butylbenzene	25.0	23.2		ug/L		93	70 - 130	1	20
Styrene	25.0	24.0		ug/L		96	70 - 130	1	20
Tert-amyl methyl ether	25.0	23.0		ug/L		92	70 - 130	1	20
Tert-butyl ethyl ether	25.0	21.7		ug/L		87	70 - 130	3	20
tert-Butylbenzene	25.0	24.2		ug/L		97	70 - 130	1	20
Tetrachloroethene	25.0	24.9		ug/L		100	70 - 130	4	20
Tetrahydrofuran	50.0	62.6		ug/L		125	70 - 130	8	20
Toluene	25.0	22.9		ug/L		92	70 - 130	4	20
trans-1,2-Dichloroethene	25.0	22.7		ug/L		91	70 - 130	4	20
trans-1,3-Dichloropropene	25.0	24.2		ug/L		97	70 - 130	3	20
Trichloroethene	25.0	23.2		ug/L		93	70 - 130	2	20
Trichlorofluoromethane	25.0	22.6		ug/L		90	70 - 130	0	20
Vinyl chloride	25.0	22.2		ug/L		89	70 - 130	2	20
Dibromomethane	25.0	23.5		ug/L		94	70 - 130	3	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	96		70 - 130
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
4-Bromofluorobenzene (Surr)	101		70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168178-1

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

Lab Sample ID: MB 480-524475/10
Matrix: Water
Analysis Batch: 524475

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/20 14:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/20 14:34	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/20 14:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/20 14:34	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/20 14:34	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/20 14:34	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/20 14:34	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/20 14:34	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/20 14:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/20 14:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/20 14:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/20 14:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/20 14:34	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/20 14:34	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/20 14:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/20 14:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/20 14:34	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/20 14:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/20 14:34	1
1,4-Dioxane	ND		50		ug/L			04/06/20 14:34	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/20 14:34	1
2-Butanone (MEK)	ND		10		ug/L			04/06/20 14:34	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/20 14:34	1
2-Hexanone	ND		10		ug/L			04/06/20 14:34	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/20 14:34	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/20 14:34	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/20 14:34	1
Acetone	ND		50		ug/L			04/06/20 14:34	1
Benzene	ND		1.0		ug/L			04/06/20 14:34	1
Bromobenzene	ND		1.0		ug/L			04/06/20 14:34	1
Bromoform	ND		1.0		ug/L			04/06/20 14:34	1
Bromomethane	ND		2.0		ug/L			04/06/20 14:34	1
Carbon disulfide	ND		10		ug/L			04/06/20 14:34	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/20 14:34	1
Chlorobenzene	ND		1.0		ug/L			04/06/20 14:34	1
Chlorobromomethane	ND		1.0		ug/L			04/06/20 14:34	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/20 14:34	1
Chloroethane	ND		2.0		ug/L			04/06/20 14:34	1
Chloroform	ND		1.0		ug/L			04/06/20 14:34	1
Chloromethane	ND		2.0		ug/L			04/06/20 14:34	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 14:34	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 14:34	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/20 14:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/20 14:34	1
Ethyl ether	ND		1.0		ug/L			04/06/20 14:34	1
Ethylbenzene	ND		1.0		ug/L			04/06/20 14:34	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/20 14:34	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/20 14:34	1

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168178-1

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

Lab Sample ID: MB 480-524475/10
Matrix: Water
Analysis Batch: 524475

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			04/06/20 14:34	1
Isopropylbenzene	ND		1.0		ug/L			04/06/20 14:34	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/20 14:34	1
Methylene Chloride	ND		1.0		ug/L			04/06/20 14:34	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/20 14:34	1
Naphthalene	ND		5.0		ug/L			04/06/20 14:34	1
n-Butylbenzene	ND		1.0		ug/L			04/06/20 14:34	1
N-Propylbenzene	ND		1.0		ug/L			04/06/20 14:34	1
o-Xylene	ND		1.0		ug/L			04/06/20 14:34	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/20 14:34	1
Styrene	ND		1.0		ug/L			04/06/20 14:34	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/20 14:34	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/20 14:34	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/20 14:34	1
Tetrachloroethene	ND		1.0		ug/L			04/06/20 14:34	1
Tetrahydrofuran	ND		10		ug/L			04/06/20 14:34	1
Toluene	ND		1.0		ug/L			04/06/20 14:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/20 14:34	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/20 14:34	1
Trichloroethene	ND		1.0		ug/L			04/06/20 14:34	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/20 14:34	1
Vinyl chloride	ND		1.0		ug/L			04/06/20 14:34	1
Dibromomethane	ND		1.0		ug/L			04/06/20 14:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/06/20 14:34	1
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		04/06/20 14:34	1
4-Bromofluorobenzene (Surr)	104		70 - 130		04/06/20 14:34	1

Lab Sample ID: LCS 480-524475/7
Matrix: Water
Analysis Batch: 524475

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	26.9		ug/L		108	70 - 130
1,1,1-Trichloroethane	25.0	26.0		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	25.0	23.8		ug/L		95	70 - 130
1,1,2-Trichloroethane	25.0	25.6		ug/L		102	70 - 130
1,1-Dichloroethane	25.0	27.6		ug/L		110	70 - 130
1,1-Dichloroethene	25.0	26.4		ug/L		105	70 - 130
1,1-Dichloropropene	25.0	27.8		ug/L		111	70 - 130
1,2,3-Trichlorobenzene	25.0	27.2		ug/L		109	70 - 130
1,2,3-Trichloropropane	25.0	23.6		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	25.0	27.4		ug/L		110	70 - 130
1,2,4-Trimethylbenzene	25.0	26.7		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	20.1		ug/L		80	70 - 130
1,2-Dichlorobenzene	25.0	27.1		ug/L		108	70 - 130
1,2-Dichloroethane	25.0	26.9		ug/L		108	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168178-1

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

Lab Sample ID: LCS 480-524475/7

Matrix: Water

Analysis Batch: 524475

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	28.6		ug/L		114	70 - 130
1,3,5-Trimethylbenzene	25.0	26.0		ug/L		104	70 - 130
1,3-Dichlorobenzene	25.0	27.4		ug/L		110	70 - 130
1,3-Dichloropropane	25.0	27.3		ug/L		109	70 - 130
1,4-Dichlorobenzene	25.0	27.1		ug/L		108	70 - 130
1,4-Dioxane	500	454		ug/L		91	70 - 130
2,2-Dichloropropane	25.0	25.5		ug/L		102	70 - 130
2-Butanone (MEK)	125	192 *		ug/L		153	70 - 130
2-Chlorotoluene	25.0	27.8		ug/L		111	70 - 130
2-Hexanone	125	108		ug/L		87	70 - 130
4-Chlorotoluene	25.0	24.2		ug/L		97	70 - 130
4-Isopropyltoluene	25.0	26.6		ug/L		106	70 - 130
4-Methyl-2-pentanone (MIBK)	125	108		ug/L		86	70 - 130
Acetone	125	111		ug/L		89	70 - 130
Benzene	25.0	27.3		ug/L		109	70 - 130
Bromobenzene	25.0	26.2		ug/L		105	70 - 130
Bromoform	25.0	26.0		ug/L		104	70 - 130
Bromomethane	25.0	23.4		ug/L		94	70 - 130
Carbon disulfide	25.0	26.4		ug/L		106	70 - 130
Carbon tetrachloride	25.0	27.0		ug/L		108	70 - 130
Chlorobenzene	25.0	26.9		ug/L		107	70 - 130
Chlorobromomethane	25.0	27.5		ug/L		110	70 - 130
Chlorodibromomethane	25.0	27.4		ug/L		110	70 - 130
Chloroethane	25.0	26.4		ug/L		105	70 - 130
Chloroform	25.0	25.5		ug/L		102	70 - 130
Chloromethane	25.0	24.6		ug/L		99	70 - 130
cis-1,2-Dichloroethene	25.0	26.7		ug/L		107	70 - 130
cis-1,3-Dichloropropene	25.0	29.3		ug/L		117	70 - 130
Dichlorobromomethane	25.0	28.4		ug/L		113	70 - 130
Dichlorodifluoromethane	25.0	24.5		ug/L		98	70 - 130
Ethyl ether	25.0	27.0		ug/L		108	70 - 130
Ethylbenzene	25.0	26.2		ug/L		105	70 - 130
Ethylene Dibromide	25.0	25.4		ug/L		101	70 - 130
Hexachlorobutadiene	25.0	24.9		ug/L		100	70 - 130
Isopropyl ether	25.0	29.5		ug/L		118	70 - 130
Isopropylbenzene	25.0	26.1		ug/L		104	70 - 130
Methyl tert-butyl ether	25.0	26.8		ug/L		107	70 - 130
Methylene Chloride	25.0	26.9		ug/L		108	70 - 130
m-Xylene & p-Xylene	25.0	26.7		ug/L		107	70 - 130
Naphthalene	25.0	23.7		ug/L		95	70 - 130
n-Butylbenzene	25.0	26.1		ug/L		104	70 - 130
N-Propylbenzene	25.0	26.0		ug/L		104	70 - 130
o-Xylene	25.0	26.5		ug/L		106	70 - 130
sec-Butylbenzene	25.0	25.6		ug/L		102	70 - 130
Styrene	25.0	28.0		ug/L		112	70 - 130
Tert-amyl methyl ether	25.0	27.8		ug/L		111	70 - 130
Tert-butyl ethyl ether	25.0	29.2		ug/L		117	70 - 130
tert-Butylbenzene	25.0	26.5		ug/L		106	70 - 130
Tetrachloroethene	25.0	27.8		ug/L		111	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168178-1

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

Lab Sample ID: LCS 480-524475/7

Matrix: Water

Analysis Batch: 524475

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrahydrofuran	50.0	55.7		ug/L		111	70 - 130
Toluene	25.0	26.5		ug/L		106	70 - 130
trans-1,2-Dichloroethene	25.0	26.1		ug/L		104	70 - 130
trans-1,3-Dichloropropene	25.0	27.1		ug/L		108	70 - 130
Trichloroethene	25.0	27.5		ug/L		110	70 - 130
Trichlorofluoromethane	25.0	24.4		ug/L		98	70 - 130
Vinyl chloride	25.0	25.2		ug/L		101	70 - 130
Dibromomethane	25.0	26.9		ug/L		108	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 480-524475/8

Matrix: Water

Analysis Batch: 524475

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	26.8		ug/L		107	70 - 130	0	20
1,1,1-Trichloroethane	25.0	25.1		ug/L		100	70 - 130	4	20
1,1,1,2-Tetrachloroethane	25.0	22.7		ug/L		91	70 - 130	5	20
1,1,2-Trichloroethane	25.0	25.4		ug/L		102	70 - 130	1	20
1,1-Dichloroethane	25.0	26.5		ug/L		106	70 - 130	4	20
1,1-Dichloroethene	25.0	24.3		ug/L		97	70 - 130	8	20
1,1-Dichloropropene	25.0	26.6		ug/L		106	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	26.5		ug/L		106	70 - 130	3	20
1,2,3-Trichloropropane	25.0	22.8		ug/L		91	70 - 130	3	20
1,2,4-Trichlorobenzene	25.0	26.8		ug/L		107	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	26.4		ug/L		106	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	19.8		ug/L		79	70 - 130	2	20
1,2-Dichlorobenzene	25.0	27.0		ug/L		108	70 - 130	0	20
1,2-Dichloroethane	25.0	26.3		ug/L		105	70 - 130	2	20
1,2-Dichloropropane	25.0	29.1		ug/L		116	70 - 130	2	20
1,3,5-Trimethylbenzene	25.0	25.3		ug/L		101	70 - 130	3	20
1,3-Dichlorobenzene	25.0	26.8		ug/L		107	70 - 130	2	20
1,3-Dichloropropane	25.0	26.6		ug/L		106	70 - 130	2	20
1,4-Dichlorobenzene	25.0	25.9		ug/L		104	70 - 130	4	20
1,4-Dioxane	500	464		ug/L		93	70 - 130	2	20
2,2-Dichloropropane	25.0	25.0		ug/L		100	70 - 130	2	20
2-Butanone (MEK)	125	186	*	ug/L		149	70 - 130	3	20
2-Chlorotoluene	25.0	27.0		ug/L		108	70 - 130	3	20
2-Hexanone	125	103		ug/L		83	70 - 130	5	20
4-Chlorotoluene	25.0	24.2		ug/L		97	70 - 130	0	20
4-Isopropyltoluene	25.0	25.2		ug/L		101	70 - 130	5	20
4-Methyl-2-pentanone (MIBK)	125	104		ug/L		84	70 - 130	3	20
Acetone	125	104		ug/L		83	70 - 130	7	20
Benzene	25.0	26.7		ug/L		107	70 - 130	2	20

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168178-1

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

Lab Sample ID: LCSD 480-524475/8
Matrix: Water
Analysis Batch: 524475

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
Bromobenzene	25.0	25.8		ug/L		103	70 - 130	2	20
Bromoform	25.0	25.1		ug/L		100	70 - 130	4	20
Bromomethane	25.0	22.4		ug/L		89	70 - 130	5	20
Carbon disulfide	25.0	25.3		ug/L		101	70 - 130	5	20
Carbon tetrachloride	25.0	25.7		ug/L		103	70 - 130	5	20
Chlorobenzene	25.0	26.1		ug/L		104	70 - 130	3	20
Chlorobromomethane	25.0	27.3		ug/L		109	70 - 130	1	20
Chlorodibromomethane	25.0	27.2		ug/L		109	70 - 130	1	20
Chloroethane	25.0	25.0		ug/L		100	70 - 130	5	20
Chloroform	25.0	25.1		ug/L		100	70 - 130	2	20
Chloromethane	25.0	23.2		ug/L		93	70 - 130	6	20
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	70 - 130	4	20
cis-1,3-Dichloropropene	25.0	28.9		ug/L		116	70 - 130	1	20
Dichlorobromomethane	25.0	27.4		ug/L		109	70 - 130	4	20
Dichlorodifluoromethane	25.0	23.5		ug/L		94	70 - 130	4	20
Ethyl ether	25.0	26.7		ug/L		107	70 - 130	1	20
Ethylbenzene	25.0	25.4		ug/L		102	70 - 130	3	20
Ethylene Dibromide	25.0	25.0		ug/L		100	70 - 130	1	20
Hexachlorobutadiene	25.0	24.0		ug/L		96	70 - 130	4	20
Isopropyl ether	25.0	28.2		ug/L		113	70 - 130	4	20
Isopropylbenzene	25.0	25.2		ug/L		101	70 - 130	4	20
Methyl tert-butyl ether	25.0	26.7		ug/L		107	70 - 130	0	20
Methylene Chloride	25.0	26.6		ug/L		107	70 - 130	1	20
m-Xylene & p-Xylene	25.0	26.1		ug/L		104	70 - 130	2	20
Naphthalene	25.0	23.3		ug/L		93	70 - 130	2	20
n-Butylbenzene	25.0	25.4		ug/L		102	70 - 130	3	20
N-Propylbenzene	25.0	25.1		ug/L		101	70 - 130	3	20
o-Xylene	25.0	25.9		ug/L		104	70 - 130	2	20
sec-Butylbenzene	25.0	24.8		ug/L		99	70 - 130	3	20
Styrene	25.0	26.8		ug/L		107	70 - 130	5	20
Tert-amyl methyl ether	25.0	27.4		ug/L		110	70 - 130	1	20
Tert-butyl ethyl ether	25.0	29.2		ug/L		117	70 - 130	0	20
tert-Butylbenzene	25.0	25.8		ug/L		103	70 - 130	3	20
Tetrachloroethene	25.0	27.6		ug/L		110	70 - 130	1	20
Tetrahydrofuran	50.0	54.8		ug/L		110	70 - 130	2	20
Toluene	25.0	25.8		ug/L		103	70 - 130	3	20
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	70 - 130	3	20
trans-1,3-Dichloropropene	25.0	26.9		ug/L		108	70 - 130	1	20
Trichloroethene	25.0	26.5		ug/L		106	70 - 130	4	20
Trichlorofluoromethane	25.0	23.7		ug/L		95	70 - 130	3	20
Vinyl chloride	25.0	23.6		ug/L		94	70 - 130	6	20
Dibromomethane	25.0	26.9		ug/L		108	70 - 130	0	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene (Surr)	107		70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168178-1

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

Lab Sample ID: MB 480-524851/9
Matrix: Water
Analysis Batch: 524851

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/08/20 13:18	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/08/20 13:18	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/08/20 13:18	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/08/20 13:18	1
1,1-Dichloroethane	ND		1.0		ug/L			04/08/20 13:18	1
1,1-Dichloroethene	ND		1.0		ug/L			04/08/20 13:18	1
1,1-Dichloropropene	ND		1.0		ug/L			04/08/20 13:18	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/08/20 13:18	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/08/20 13:18	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/08/20 13:18	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/08/20 13:18	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/08/20 13:18	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/08/20 13:18	1
1,2-Dichloroethane	ND		1.0		ug/L			04/08/20 13:18	1
1,2-Dichloropropane	ND		1.0		ug/L			04/08/20 13:18	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/08/20 13:18	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/08/20 13:18	1
1,3-Dichloropropane	ND		1.0		ug/L			04/08/20 13:18	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/08/20 13:18	1
1,4-Dioxane	ND		50		ug/L			04/08/20 13:18	1
2,2-Dichloropropane	ND		1.0		ug/L			04/08/20 13:18	1
2-Butanone (MEK)	ND		10		ug/L			04/08/20 13:18	1
2-Chlorotoluene	ND		1.0		ug/L			04/08/20 13:18	1
2-Hexanone	ND		10		ug/L			04/08/20 13:18	1
4-Chlorotoluene	ND		1.0		ug/L			04/08/20 13:18	1
4-Isopropyltoluene	ND		1.0		ug/L			04/08/20 13:18	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/08/20 13:18	1
Acetone	ND		50		ug/L			04/08/20 13:18	1
Benzene	ND		1.0		ug/L			04/08/20 13:18	1
Bromobenzene	ND		1.0		ug/L			04/08/20 13:18	1
Bromoform	ND		1.0		ug/L			04/08/20 13:18	1
Bromomethane	ND		2.0		ug/L			04/08/20 13:18	1
Carbon disulfide	ND		10		ug/L			04/08/20 13:18	1
Carbon tetrachloride	ND		1.0		ug/L			04/08/20 13:18	1
Chlorobenzene	ND		1.0		ug/L			04/08/20 13:18	1
Chlorobromomethane	ND		1.0		ug/L			04/08/20 13:18	1
Chlorodibromomethane	ND		0.50		ug/L			04/08/20 13:18	1
Chloroethane	ND		2.0		ug/L			04/08/20 13:18	1
Chloroform	ND		1.0		ug/L			04/08/20 13:18	1
Chloromethane	ND		2.0		ug/L			04/08/20 13:18	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/08/20 13:18	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/08/20 13:18	1
Dichlorobromomethane	ND		0.50		ug/L			04/08/20 13:18	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/08/20 13:18	1
Ethyl ether	ND		1.0		ug/L			04/08/20 13:18	1
Ethylbenzene	ND		1.0		ug/L			04/08/20 13:18	1
Ethylene Dibromide	ND		1.0		ug/L			04/08/20 13:18	1
Hexachlorobutadiene	ND		0.40		ug/L			04/08/20 13:18	1

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168178-1

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

Lab Sample ID: MB 480-524851/9
Matrix: Water
Analysis Batch: 524851

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			04/08/20 13:18	1
Isopropylbenzene	ND		1.0		ug/L			04/08/20 13:18	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/08/20 13:18	1
Methylene Chloride	ND		1.0		ug/L			04/08/20 13:18	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/08/20 13:18	1
Naphthalene	ND		5.0		ug/L			04/08/20 13:18	1
n-Butylbenzene	ND		1.0		ug/L			04/08/20 13:18	1
N-Propylbenzene	ND		1.0		ug/L			04/08/20 13:18	1
o-Xylene	ND		1.0		ug/L			04/08/20 13:18	1
sec-Butylbenzene	ND		1.0		ug/L			04/08/20 13:18	1
Styrene	ND		1.0		ug/L			04/08/20 13:18	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/08/20 13:18	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/08/20 13:18	1
tert-Butylbenzene	ND		1.0		ug/L			04/08/20 13:18	1
Tetrachloroethene	ND		1.0		ug/L			04/08/20 13:18	1
Tetrahydrofuran	ND		10		ug/L			04/08/20 13:18	1
Toluene	ND		1.0		ug/L			04/08/20 13:18	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/08/20 13:18	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/08/20 13:18	1
Trichloroethene	ND		1.0		ug/L			04/08/20 13:18	1
Trichlorofluoromethane	ND		1.0		ug/L			04/08/20 13:18	1
Vinyl chloride	ND		1.0		ug/L			04/08/20 13:18	1
Dibromomethane	ND		1.0		ug/L			04/08/20 13:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		70 - 130		04/08/20 13:18	1
1,2-Dichloroethane-d4 (Surr)	110		70 - 130		04/08/20 13:18	1
4-Bromofluorobenzene (Surr)	106		70 - 130		04/08/20 13:18	1

Lab Sample ID: LCS 480-524851/6
Matrix: Water
Analysis Batch: 524851

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	25.0	25.8		ug/L		103	70 - 130
1,1,1-Trichloroethane	25.0	25.5		ug/L		102	70 - 130
1,1,2,2-Tetrachloroethane	25.0	26.6		ug/L		106	70 - 130
1,1,2-Trichloroethane	25.0	27.2		ug/L		109	70 - 130
1,1-Dichloroethane	25.0	28.0		ug/L		112	70 - 130
1,1-Dichloroethene	25.0	25.6		ug/L		103	70 - 130
1,1-Dichloropropene	25.0	27.3		ug/L		109	70 - 130
1,2,3-Trichlorobenzene	25.0	28.0		ug/L		112	70 - 130
1,2,3-Trichloropropane	25.0	26.8		ug/L		107	70 - 130
1,2,4-Trichlorobenzene	25.0	27.3		ug/L		109	70 - 130
1,2,4-Trimethylbenzene	25.0	26.7		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	24.0		ug/L		96	70 - 130
1,2-Dichlorobenzene	25.0	27.4		ug/L		110	70 - 130
1,2-Dichloroethane	25.0	27.6		ug/L		110	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168178-1

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

Lab Sample ID: LCS 480-524851/6

Matrix: Water

Analysis Batch: 524851

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	28.8		ug/L		115	70 - 130
1,3,5-Trimethylbenzene	25.0	25.9		ug/L		103	70 - 130
1,3-Dichlorobenzene	25.0	26.5		ug/L		106	70 - 130
1,3-Dichloropropane	25.0	27.7		ug/L		111	70 - 130
1,4-Dichlorobenzene	25.0	26.7		ug/L		107	70 - 130
1,4-Dioxane	500	707	*	ug/L		141	70 - 130
2,2-Dichloropropane	25.0	25.8		ug/L		103	70 - 130
2-Butanone (MEK)	125	245	*	ug/L		196	70 - 130
2-Chlorotoluene	25.0	27.8		ug/L		111	70 - 130
2-Hexanone	125	133		ug/L		106	70 - 130
4-Chlorotoluene	25.0	24.1		ug/L		96	70 - 130
4-Isopropyltoluene	25.0	26.0		ug/L		104	70 - 130
4-Methyl-2-pentanone (MIBK)	125	129		ug/L		103	70 - 130
Acetone	125	142		ug/L		114	70 - 130
Benzene	25.0	27.4		ug/L		110	70 - 130
Bromobenzene	25.0	26.4		ug/L		106	70 - 130
Bromoform	25.0	27.2		ug/L		109	70 - 130
Bromomethane	25.0	23.5		ug/L		94	70 - 130
Carbon disulfide	25.0	25.9		ug/L		104	70 - 130
Carbon tetrachloride	25.0	25.8		ug/L		103	70 - 130
Chlorobenzene	25.0	26.5		ug/L		106	70 - 130
Chlorobromomethane	25.0	28.9		ug/L		116	70 - 130
Chlorodibromomethane	25.0	27.4		ug/L		110	70 - 130
Chloroethane	25.0	26.2		ug/L		105	70 - 130
Chloroform	25.0	25.8		ug/L		103	70 - 130
Chloromethane	25.0	24.5		ug/L		98	70 - 130
cis-1,2-Dichloroethene	25.0	26.9		ug/L		108	70 - 130
cis-1,3-Dichloropropene	25.0	29.9		ug/L		120	70 - 130
Dichlorobromomethane	25.0	28.8		ug/L		115	70 - 130
Dichlorodifluoromethane	25.0	23.7		ug/L		95	70 - 130
Ethyl ether	25.0	29.0		ug/L		116	70 - 130
Ethylbenzene	25.0	25.6		ug/L		102	70 - 130
Ethylene Dibromide	25.0	26.6		ug/L		106	70 - 130
Hexachlorobutadiene	25.0	26.2		ug/L		105	70 - 130
Isopropyl ether	25.0	29.7		ug/L		119	70 - 130
Isopropylbenzene	25.0	25.7		ug/L		103	70 - 130
Methyl tert-butyl ether	25.0	28.2		ug/L		113	70 - 130
Methylene Chloride	25.0	27.3		ug/L		109	70 - 130
m-Xylene & p-Xylene	25.0	26.0		ug/L		104	70 - 130
Naphthalene	25.0	26.4		ug/L		105	70 - 130
n-Butylbenzene	25.0	26.1		ug/L		104	70 - 130
N-Propylbenzene	25.0	25.6		ug/L		102	70 - 130
o-Xylene	25.0	25.9		ug/L		104	70 - 130
sec-Butylbenzene	25.0	25.4		ug/L		102	70 - 130
Styrene	25.0	27.3		ug/L		109	70 - 130
Tert-amyl methyl ether	25.0	30.5		ug/L		122	70 - 130
Tert-butyl ethyl ether	25.0	29.6		ug/L		118	70 - 130
tert-Butylbenzene	25.0	26.3		ug/L		105	70 - 130
Tetrachloroethene	25.0	27.9		ug/L		111	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168178-1

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

Lab Sample ID: LCS 480-524851/6

Matrix: Water

Analysis Batch: 524851

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tetrahydrofuran	50.0	71.8	*	ug/L		144	70 - 130
Toluene	25.0	25.7		ug/L		103	70 - 130
trans-1,2-Dichloroethene	25.0	26.6		ug/L		107	70 - 130
trans-1,3-Dichloropropene	25.0	27.8		ug/L		111	70 - 130
Trichloroethene	25.0	27.6		ug/L		111	70 - 130
Trichlorofluoromethane	25.0	24.5		ug/L		98	70 - 130
Vinyl chloride	25.0	25.4		ug/L		101	70 - 130
Dibromomethane	25.0	28.4		ug/L		114	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	113		70 - 130
4-Bromofluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 480-524851/7

Matrix: Water

Analysis Batch: 524851

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	25.0	25.8		ug/L		103	70 - 130	0	20
1,1,1-Trichloroethane	25.0	23.8		ug/L		95	70 - 130	7	20
1,1,1,2-Tetrachloroethane	25.0	25.6		ug/L		102	70 - 130	4	20
1,1,2-Trichloroethane	25.0	26.5		ug/L		106	70 - 130	3	20
1,1-Dichloroethane	25.0	26.5		ug/L		106	70 - 130	5	20
1,1-Dichloroethene	25.0	23.7		ug/L		95	70 - 130	8	20
1,1-Dichloropropene	25.0	26.2		ug/L		105	70 - 130	4	20
1,2,3-Trichlorobenzene	25.0	27.1		ug/L		108	70 - 130	3	20
1,2,3-Trichloropropane	25.0	26.2		ug/L		105	70 - 130	2	20
1,2,4-Trichlorobenzene	25.0	27.0		ug/L		108	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	25.3		ug/L		101	70 - 130	5	20
1,2-Dibromo-3-Chloropropane	25.0	23.7		ug/L		95	70 - 130	1	20
1,2-Dichlorobenzene	25.0	26.4		ug/L		105	70 - 130	4	20
1,2-Dichloroethane	25.0	26.8		ug/L		107	70 - 130	3	20
1,2-Dichloropropane	25.0	28.1		ug/L		112	70 - 130	3	20
1,3,5-Trimethylbenzene	25.0	24.9		ug/L		100	70 - 130	4	20
1,3-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130	1	20
1,3-Dichloropropane	25.0	27.2		ug/L		109	70 - 130	2	20
1,4-Dichlorobenzene	25.0	25.4		ug/L		102	70 - 130	5	20
1,4-Dioxane	500	727	*	ug/L		145	70 - 130	3	20
2,2-Dichloropropane	25.0	23.6		ug/L		94	70 - 130	9	20
2-Butanone (MEK)	125	236	*	ug/L		188	70 - 130	4	20
2-Chlorotoluene	25.0	26.8		ug/L		107	70 - 130	4	20
2-Hexanone	125	131		ug/L		105	70 - 130	1	20
4-Chlorotoluene	25.0	23.2		ug/L		93	70 - 130	4	20
4-Isopropyltoluene	25.0	24.9		ug/L		100	70 - 130	4	20
4-Methyl-2-pentanone (MIBK)	125	128		ug/L		102	70 - 130	1	20
Acetone	125	136		ug/L		109	70 - 130	4	20
Benzene	25.0	26.3		ug/L		105	70 - 130	4	20

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168178-1

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

Lab Sample ID: LCSD 480-524851/7

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 524851

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	25.0	25.8		ug/L		103	70 - 130	2	20
Bromoform	25.0	26.4		ug/L		106	70 - 130	3	20
Bromomethane	25.0	21.8		ug/L		87	70 - 130	7	20
Carbon disulfide	25.0	24.2		ug/L		97	70 - 130	7	20
Carbon tetrachloride	25.0	24.3		ug/L		97	70 - 130	6	20
Chlorobenzene	25.0	25.6		ug/L		103	70 - 130	3	20
Chlorobromomethane	25.0	27.4		ug/L		110	70 - 130	5	20
Chlorodibromomethane	25.0	27.7		ug/L		111	70 - 130	1	20
Chloroethane	25.0	24.6		ug/L		98	70 - 130	6	20
Chloroform	25.0	24.7		ug/L		99	70 - 130	4	20
Chloromethane	25.0	23.1		ug/L		92	70 - 130	6	20
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	70 - 130	6	20
cis-1,3-Dichloropropene	25.0	28.5		ug/L		114	70 - 130	5	20
Dichlorobromomethane	25.0	27.1		ug/L		108	70 - 130	6	20
Dichlorodifluoromethane	25.0	21.8		ug/L		87	70 - 130	8	20
Ethyl ether	25.0	27.7		ug/L		111	70 - 130	5	20
Ethylbenzene	25.0	24.4		ug/L		98	70 - 130	5	20
Ethylene Dibromide	25.0	26.5		ug/L		106	70 - 130	1	20
Hexachlorobutadiene	25.0	25.0		ug/L		100	70 - 130	4	20
Isopropyl ether	25.0	28.5		ug/L		114	70 - 130	4	20
Isopropylbenzene	25.0	24.8		ug/L		99	70 - 130	4	20
Methyl tert-butyl ether	25.0	27.7		ug/L		111	70 - 130	2	20
Methylene Chloride	25.0	26.6		ug/L		106	70 - 130	2	20
m-Xylene & p-Xylene	25.0	25.1		ug/L		101	70 - 130	3	20
Naphthalene	25.0	26.4		ug/L		106	70 - 130	0	20
n-Butylbenzene	25.0	24.9		ug/L		99	70 - 130	5	20
N-Propylbenzene	25.0	24.5		ug/L		98	70 - 130	4	20
o-Xylene	25.0	25.1		ug/L		101	70 - 130	3	20
sec-Butylbenzene	25.0	24.2		ug/L		97	70 - 130	5	20
Styrene	25.0	26.2		ug/L		105	70 - 130	4	20
Tert-amyl methyl ether	25.0	28.9		ug/L		116	70 - 130	5	20
Tert-butyl ethyl ether	25.0	28.6		ug/L		115	70 - 130	3	20
tert-Butylbenzene	25.0	25.7		ug/L		103	70 - 130	2	20
Tetrachloroethene	25.0	26.7		ug/L		107	70 - 130	4	20
Tetrahydrofuran	50.0	71.9	*	ug/L		144	70 - 130	0	20
Toluene	25.0	24.8		ug/L		99	70 - 130	4	20
trans-1,2-Dichloroethene	25.0	24.9		ug/L		99	70 - 130	7	20
trans-1,3-Dichloropropene	25.0	26.8		ug/L		107	70 - 130	3	20
Trichloroethene	25.0	26.3		ug/L		105	70 - 130	5	20
Trichlorofluoromethane	25.0	23.1		ug/L		93	70 - 130	6	20
Vinyl chloride	25.0	23.0		ug/L		92	70 - 130	10	20
Dibromomethane	25.0	27.4		ug/L		109	70 - 130	4	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	113		70 - 130
4-Bromofluorobenzene (Surr)	107		70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-168178-1

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

Lab Sample ID: MB 200-153901/1-A
Matrix: Water
Analysis Batch: 153931

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 153901

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20		ug/L		04/06/20 11:16	04/07/20 19:28	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8 (Surr)	82		46 - 130				04/06/20 11:16	04/07/20 19:28	1

Lab Sample ID: LLCS 200-153901/2-A
Matrix: Water
Analysis Batch: 153931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 153901

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.200	0.197	J	ug/L		98	50 - 150
Surrogate	LLCS %Recovery	LLCS Qualifier	Limits				
1,4-Dioxane-d8 (Surr)	82		46 - 130				

QC Association Summary

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

Job ID: 480-168178-1

GC/MS VOA

Analysis Batch: 524474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168178-10	MW-561-20200402	Total/NA	Water	8260C	
480-168178-11	MW-562-202004	Total/NA	Water	8260C	
480-168178-12	MW-563-20200402	Total/NA	Water	8260C	
480-168178-13	REW-1-202004	Total/NA	Water	8260C	
480-168178-14	REW-4-202004	Total/NA	Water	8260C	
480-168178-15	REW-5-202004	Total/NA	Water	8260C	
480-168178-16	REW-9-20200402	Total/NA	Water	8260C	
480-168178-17	REW-10-20200402	Total/NA	Water	8260C	
480-168178-21	TRIP BLANKS	Total/NA	Water	8260C	
MB 480-524474/7	Method Blank	Total/NA	Water	8260C	
LCS 480-524474/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-524474/29	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 524475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168178-2	MW-264M-202004	Total/NA	Water	8260C	
480-168178-3	MW-265S-202004	Total/NA	Water	8260C	
480-168178-4	MW-265M-202004	Total/NA	Water	8260C	
480-168178-5	MW-265D-202004	Total/NA	Water	8260C	
480-168178-6	MW-266Ma-20200402	Total/NA	Water	8260C	
480-168178-7	MW-266Mb-20200402	Total/NA	Water	8260C	
480-168178-8	MW-269Ma-20200402	Total/NA	Water	8260C	
480-168178-9	MW-560-20200402	Total/NA	Water	8260C	
MB 480-524475/10	Method Blank	Total/NA	Water	8260C	
LCS 480-524475/7	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-524475/8	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 524851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168178-1	DEP-21-202004 03	Total/NA	Water	8260C	
480-168178-7 - DL	MW-266Mb-20200402	Total/NA	Water	8260C	
480-168178-13 - DL	REW-1-202004	Total/NA	Water	8260C	
480-168178-18	DUP2-20200402	Total/NA	Water	8260C	
480-168178-19	DUP3--20200402	Total/NA	Water	8260C	
480-168178-20	DUP4-202004	Total/NA	Water	8260C	
MB 480-524851/9	Method Blank	Total/NA	Water	8260C	
LCS 480-524851/6	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-524851/7	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 153901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168178-4	MW-265M-202004	Total/NA	Water	522	
480-168178-6	MW-266Ma-20200402	Total/NA	Water	522	
480-168178-8	MW-269Ma-20200402	Total/NA	Water	522	
480-168178-18	DUP2-20200402	Total/NA	Water	522	
MB 200-153901/1-A	Method Blank	Total/NA	Water	522	
LLCS 200-153901/2-A	Lab Control Sample	Total/NA	Water	522	

Eurofins TestAmerica, Buffalo

QC Association Summary

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

Job ID: 480-168178-1

GC/MS Semi VOA

Analysis Batch: 153931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-168178-4	MW-265M-202004	Total/NA	Water	522	153901
480-168178-6	MW-266Ma-20200402	Total/NA	Water	522	153901
480-168178-8	MW-269Ma-20200402	Total/NA	Water	522	153901
480-168178-18	DUP2-20200402	Total/NA	Water	522	153901
MB 200-153901/1-A	Method Blank	Total/NA	Water	522	153901
LLCS 200-153901/2-A	Lab Control Sample	Total/NA	Water	522	153901

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Lab Chronicle

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

Job ID: 480-168178-1

Client Sample ID: DEP-21-202004 03

Date Collected: 04/03/20 07:10

Date Received: 04/04/20 18:11

Lab Sample ID: 480-168178-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524851	04/08/20 13:56	RJF	TAL BUF

Client Sample ID: MW-264M-202004

Date Collected: 04/01/20 13:05

Date Received: 04/04/20 18:11

Lab Sample ID: 480-168178-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524475	04/06/20 19:59	RJF	TAL BUF

Client Sample ID: MW-265S-202004

Date Collected: 04/02/20 08:35

Date Received: 04/04/20 18:11

Lab Sample ID: 480-168178-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524475	04/06/20 20:24	RJF	TAL BUF

Client Sample ID: MW-265M-202004

Date Collected: 04/02/20 09:15

Date Received: 04/04/20 18:11

Lab Sample ID: 480-168178-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524475	04/06/20 20:48	RJF	TAL BUF
Total/NA	Prep	522			153901	04/06/20 11:16	MJW	TAL BUR
Total/NA	Analysis	522		1	153931	04/07/20 21:43	A1H	TAL BUR

Client Sample ID: MW-265D-202004

Date Collected: 04/02/20 10:00

Date Received: 04/04/20 18:11

Lab Sample ID: 480-168178-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524475	04/06/20 21:12	RJF	TAL BUF

Client Sample ID: MW-266Ma-20200402

Date Collected: 04/02/20 08:35

Date Received: 04/04/20 18:11

Lab Sample ID: 480-168178-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524475	04/06/20 21:36	RJF	TAL BUF
Total/NA	Prep	522			153901	04/06/20 11:16	MJW	TAL BUR
Total/NA	Analysis	522		1	153931	04/07/20 21:57	A1H	TAL BUR

Lab Chronicle

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

Job ID: 480-168178-1

Client Sample ID: MW-266Mb-20200402

Lab Sample ID: 480-168178-7

Date Collected: 04/02/20 09:35

Matrix: Water

Date Received: 04/04/20 18:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	524475	04/06/20 22:00	RJF	TAL BUF
Total/NA	Analysis	8260C	DL	8	524851	04/08/20 14:19	RJF	TAL BUF

Client Sample ID: MW-269Ma-20200402

Lab Sample ID: 480-168178-8

Date Collected: 04/02/20 10:15

Matrix: Water

Date Received: 04/04/20 18:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524475	04/06/20 22:25	RJF	TAL BUF
Total/NA	Prep	522			153901	04/06/20 11:16	MJW	TAL BUR
Total/NA	Analysis	522		1	153931	04/07/20 22:25	A1H	TAL BUR

Client Sample ID: MW-560-20200402

Lab Sample ID: 480-168178-9

Date Collected: 04/02/20 06:30

Matrix: Water

Date Received: 04/04/20 18:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524475	04/06/20 22:49	RJF	TAL BUF

Client Sample ID: MW-561-20200402

Lab Sample ID: 480-168178-10

Date Collected: 04/02/20 05:35

Matrix: Water

Date Received: 04/04/20 18:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524474	04/06/20 18:00	RJF	TAL BUF

Client Sample ID: MW-562-202004

Lab Sample ID: 480-168178-11

Date Collected: 04/01/20 11:10

Matrix: Water

Date Received: 04/04/20 18:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524474	04/06/20 18:24	RJF	TAL BUF

Client Sample ID: MW-563-20200402

Lab Sample ID: 480-168178-12

Date Collected: 04/02/20 07:03

Matrix: Water

Date Received: 04/04/20 18:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524474	04/06/20 18:49	RJF	TAL BUF

Client Sample ID: REW-1-202004

Lab Sample ID: 480-168178-13

Date Collected: 04/01/20 11:50

Matrix: Water

Date Received: 04/04/20 18:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524474	04/06/20 19:13	RJF	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

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

Job ID: 480-168178-1

Client Sample ID: REW-1-202004

Lab Sample ID: 480-168178-13

Date Collected: 04/01/20 11:50

Matrix: Water

Date Received: 04/04/20 18:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C	DL	2	524851	04/08/20 14:43	RJF	TAL BUF

Client Sample ID: REW-4-202004

Lab Sample ID: 480-168178-14

Date Collected: 04/01/20 12:30

Matrix: Water

Date Received: 04/04/20 18:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524474	04/06/20 19:38	RJF	TAL BUF

Client Sample ID: REW-5-202004

Lab Sample ID: 480-168178-15

Date Collected: 04/01/20 13:45

Matrix: Water

Date Received: 04/04/20 18:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524474	04/06/20 20:02	RJF	TAL BUF

Client Sample ID: REW-9-20200402

Lab Sample ID: 480-168178-16

Date Collected: 04/02/20 07:40

Matrix: Water

Date Received: 04/04/20 18:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524474	04/06/20 20:26	RJF	TAL BUF

Client Sample ID: REW-10-20200402

Lab Sample ID: 480-168178-17

Date Collected: 04/02/20 03:15

Matrix: Water

Date Received: 04/04/20 18:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524474	04/06/20 20:51	RJF	TAL BUF

Client Sample ID: DUP2-20200402

Lab Sample ID: 480-168178-18

Date Collected: 04/02/20 00:00

Matrix: Water

Date Received: 04/04/20 18:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524851	04/08/20 15:07	RJF	TAL BUF
Total/NA	Prep	522			153901	04/06/20 11:16	MJW	TAL BUR
Total/NA	Analysis	522		1	153931	04/07/20 22:38	A1H	TAL BUR

Client Sample ID: DUP3--20200402

Lab Sample ID: 480-168178-19

Date Collected: 04/02/20 00:00

Matrix: Water

Date Received: 04/04/20 18:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524851	04/08/20 15:31	RJF	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

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

Job ID: 480-168178-1

Client Sample ID: DUP4-202004

Lab Sample ID: 480-168178-20

Date Collected: 04/01/20 00:00

Matrix: Water

Date Received: 04/04/20 18:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524851	04/08/20 15:54	RJF	TAL BUF

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-168178-21

Date Collected: 04/01/20 00:00

Matrix: Water

Date Received: 04/04/20 18:11

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	524474	04/06/20 22:27	RJF	TAL BUF

Laboratory References:

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

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

Accreditation/Certification Summary

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

Job ID: 480-168178-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-20
California	State	2931	04-01-20 *
Connecticut	State	PH-0568	09-30-20
Florida	NELAP	E87672	06-30-20
Georgia	State	10026 (NY)	04-01-21
Georgia	State Program	N/A	03-31-09 *
Georgia (DW)	State	956	03-31-20 *
Illinois	NELAP	200003	09-30-20
Iowa	State	374	02-28-21
Kansas	NELAP	E-10187	01-31-20 *
Kentucky (DW)	State	90029	12-31-20
Kentucky (UST)	State	30	04-01-21
Kentucky (WW)	State	KY90029	12-31-20
Louisiana	NELAP	02031	06-30-20
Maine	State	NY00044	12-04-20
Maryland	State	294	04-01-21
Massachusetts	State	M-NY044	06-30-20
Michigan	State	9937	03-31-20 *
Michigan	State Program	9937	04-01-09 *
Minnesota	NELAP	1524384	12-31-20
New Hampshire	NELAP	2337	11-18-20
New Jersey	NELAP	NY455	06-30-20
New York	NELAP	10026	04-02-21
North Dakota	State	R-176	03-31-20 *
Oklahoma	State	9421	09-01-20
Oregon	NELAP	NY200003	06-10-20
Pennsylvania	NELAP	68-00281	07-31-20
Rhode Island	State	LAO00328	12-30-20
Tennessee	State	02970	03-31-20 *
Texas	NELAP	T104704412-18-10	08-01-20
USDA	US Federal Programs	P330-18-00039	02-06-21
Virginia	NELAP	460185	09-14-20
Washington	State	C784	02-11-21
Wisconsin	State	998310390	08-31-20

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

Accreditation/Certification Summary

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

Job ID: 480-168178-1

Laboratory: Eurofins TestAmerica, Burlington

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

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2336	02-25-23
Connecticut	State	PH-0751	09-30-21
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	05-15-20
Florida	NELAP	E87467	06-30-20
Minnesota	NELAP	050-999-436	12-31-20
New Hampshire	NELAP	2006	12-18-20
New Jersey	NELAP	VT972	06-30-20
New York	NELAP	10391	04-01-21
Pennsylvania	NELAP	68-00489	04-30-21
Rhode Island	State	LAO00298	12-30-20
US Fish & Wildlife	US Federal Programs	058448	07-31-20
USDA	US Federal Programs	P330-17-00272	08-09-20
Vermont	State	VT4000	12-31-20
Virginia	NELAP	460209	12-14-20

Method Summary

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

Job ID: 480-168178-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
522	1,4 Dioxane (GC/MS SIM)	EPA	TAL BUR
5030C	Purge and Trap	SW846	TAL BUF
522	Solid-Phase Extraction (SPE)	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

MA DEP = Massachusetts Department Of Environmental Protection

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

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

Sample Summary

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

Job ID: 480-168178-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-168178-1	DEP-21-202004 03	Water	04/03/20 07:10	04/04/20 18:11	
480-168178-2	MW-264M-202004	Water	04/01/20 13:05	04/04/20 18:11	
480-168178-3	MW-265S-202004	Water	04/02/20 08:35	04/04/20 18:11	
480-168178-4	MW-265M-202004	Water	04/02/20 09:15	04/04/20 18:11	
480-168178-5	MW-265D-202004	Water	04/02/20 10:00	04/04/20 18:11	
480-168178-6	MW-266Ma-20200402	Water	04/02/20 08:35	04/04/20 18:11	
480-168178-7	MW-266Mb-20200402	Water	04/02/20 09:35	04/04/20 18:11	
480-168178-8	MW-269Ma-20200402	Water	04/02/20 10:15	04/04/20 18:11	
480-168178-9	MW-560-20200402	Water	04/02/20 06:30	04/04/20 18:11	
480-168178-10	MW-561-20200402	Water	04/02/20 05:35	04/04/20 18:11	
480-168178-11	MW-562-202004	Water	04/01/20 11:10	04/04/20 18:11	
480-168178-12	MW-563-20200402	Water	04/02/20 07:03	04/04/20 18:11	
480-168178-13	REW-1-202004	Water	04/01/20 11:50	04/04/20 18:11	
480-168178-14	REW-4-202004	Water	04/01/20 12:30	04/04/20 18:11	
480-168178-15	REW-5-202004	Water	04/01/20 13:45	04/04/20 18:11	
480-168178-16	REW-9-20200402	Water	04/02/20 07:40	04/04/20 18:11	
480-168178-17	REW-10-20200402	Water	04/02/20 03:15	04/04/20 18:11	
480-168178-18	DUP2-20200402	Water	04/02/20 00:00	04/04/20 18:11	
480-168178-19	DUP3--20200402	Water	04/02/20 00:00	04/04/20 18:11	
480-168178-20	DUP4-202004	Water	04/01/20 00:00	04/04/20 18:11	
480-168178-21	TRIP BLANKS	Water	04/01/20 00:00	04/04/20 18:11	

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-168178-1

Login Number: 168178

List Number: 1

Creator: Yeager, Brian A

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	INNOVATIVE
Samples received within 48 hours of sampling.	True	
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: 480-168178-1

Login Number: 168178

List Number: 2

Creator: McNabb, Robert W

List Source: Eurofins TestAmerica, Burlington

List Creation: 04/04/20 12:07 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	Seal present with no number.
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.5°C, 0.5°C, 1.1°C, 0.3°C, 0.2°C, 0.1°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

THE LEADER IN ENVIRONMENTAL TESTING

Drinking Water? Yes No

TAL-4124 (1007)

Chain of Custody Record

Client: **Innovative Engineering Solutions Inc**
 Address: **37 Reed St**
 City: **Braintree** State: **MA** Zip Code: **02184**
 Project Name and Location (State): **Reed St Weymouth / MA**
 Contract/Purchase Order/Quote No.: **RA-008**
 Project Manager: **Wish Perinice**
 Telephone Number (Area Code)/Fax Number: **508-668-0033 / 508-668-5175**
 Site Contact: **Dan Jones** Lab Contact: **508-668-0033**
 Carrier/Maxbill Number: **Dan Jones**

Chain of Custody Number: **255451**
 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												
			Air	Soil	Sed	Aqueous	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH							
20200403	4/3/20	0710	X																
20200404	4/11/20	1305	X																
20200405	4/12/20	0835	X																
20200406	4/12/20	0915	X																
20200407	4/12/20	1000	X																
20200408	4/12/20	0835	X																
20200409	4/12/20	0935	X																
20200410	4/12/20	1015	X																
20200411	4/12/20	0130	X																
20200412	4/12/20	0555	X																
20200413	4/11/20	1110	X																
20200414	4/12/20	0705	X																



Special Instructions/
Conditions of Receipt

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	Relinquished By	Date	Time	Relinquished By	Date	Time
24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input type="checkbox"/> Other: 5 days	<i>[Signature]</i>	4/13/20	0920	<i>[Signature]</i>	4/13/20	0800
1. Relinquished By	<i>[Signature]</i>	4/13/20	1100	<i>[Signature]</i>	4/13/20	0800
2. Relinquished By	<i>[Signature]</i>	4/13/20	1100	<i>[Signature]</i>	4/13/20	0800
3. Relinquished By	<i>[Signature]</i>	4/13/20	1100	<i>[Signature]</i>	4/13/20	0800

GC Requirements (Specify): **CW-3 RESPIRATORS**

1. Received By: *[Signature]* Date: **4/13/20** Time: **9:20**

2. Received By: *[Signature]* Date: **4/13/20** Time: **0800**

3. Received By: *[Signature]* Date: **4/13/20** Time: **0800**

Comments: **# 2 2, 5**

Chain of Custody Record

Boston
Temperature on Receipt
#215
Drinking Water? Yes No

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Boston
#215

TAL-4124 (1007)

Client: **Environmental Engineering Solutions Inc**
 Address: **37 Pearl St**
 City: **Boston** State: **MA** Zip Code: **02118**
 Project Name and Location (State): **Realtors Warehouse / MA**
 Contract/Purchase Order/Quote No.: **RA-008**

Project Manager: **Vicki Poirier**
 Telephone Number (Area Code)/Fax Number: **508-668-0033** | 508-668-5175
 Site Contact: **Dany Jones** Lab Contact: **522 Dioxin**
 Carrier/Waybill Number: **820C**

Date: _____
 Lab Number: _____
 Page: **2** of **2**
 Chain of Custody Number: **255450**

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	
R2W-1-202004	4/1/20	1150	X											
R2W-4-202004	4/1/20	1830	X											
R2W-5-202004	4/1/20	1345	X											
R2W-9-20200402	4/2/20	0740	X											
R2W-10-20200402	4/2/20	0815	X											
Dup2-202004002	4/2/20	-	X											
Dup3-202004002	4/2/20	-	X											
Dup4-202004	4/1/20	-	X											
Trip Blanks	-	-	X											

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown
 Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **3 days**

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

QC Requirements (Specify):
HW-3 requirements

1. Relinquished By: *[Signature]* Date: **4/3/20** Time: **0920**
 2. Relinquished By: *[Signature]* Date: **4/3/20** Time: **16:00**
 3. Relinquished By: _____ Date: _____ Time: _____

Comments: **# 215**

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



TestAmerica Boston #215

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: **37 Pearl St**
 City: **Braintree** State: **MA** Zip Code: **02184**
 Project Manager: **Walter Pedersen**
 Telephone Number (Area Code)/Fax Number: **508-668-0033 / 508-668-5175**
 Site Contact: **Dan Jones** Lab Contact: _____
 Carrier/Vehicle Number: _____

Chain of Custody Number: **255451**
 Page: **1** of **9**
 Date: _____
 Lab Number: _____
 Analysis (Attach list if more space is needed): _____
 Special Instructions/Conditions of Receipt: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives					Special Instructions/Conditions of Receipt	
			Aqueous	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH		ZnAc/NaOH
MS-21-20200403	4/3/20	0710	X					3				
MS-21M-202004	4/1/20	1305	X					3				
MS-21S-202004	4/2/20	0835	X					3				
MS-21SM-202004	4/2/20	0915	X					4				
MS-21SD-202004	4/2/20	1000	X					3				
MS-21M-20200402	4/2/20	0835	X					4				
MS-21MB-20200402	4/2/20	0935	X					3				
MS-21MC-20200402	4/2/20	1015	X					4				
MS-560-20200402	4/2/20	0530	X					3				
MS-561-20200402	4/2/20	0555	X					3				
MS-562-202004	4/1/20	1110	X					3				
MS-563-20200402	4/2/20	0703	X					3				



Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

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

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **5 days**

1. Relinquished By: _____ Date: **4/3/20** Time: **0920**
 2. Relinquished By: _____ Date: **4/3/20** Time: **1100**
 3. Relinquished By: _____ Date: _____ Time: _____

QC Requirements (Specify): **CWS-3 duplicate matrix**

1. Received By: _____ Date: **4/3/20** Time: **9:20**
 2. Received By: _____ Date: **4/11/2020** Time: **09:22**
 3. Received By: _____ Date: _____ Time: _____

Comments: _____

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



TestAmerica Boston #215

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____
 Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1/007)

Client: **INNOVATIVE Engineering Solutions Inc**
 Address: **37 Pearl St**
 City: **Boston** State: **MA** Zip Code: **02108**
 Project Name and Location (State): **Reservoirs Weekend / MA**
 Contract/Purchase Order/Quote No.: **RA-008**

Project Manager: **Vicki Poirier**
 Telephone Number (Area Code)/Fax Number: **508-668-0033 / 508-668-5175**
 Site Contact: **Dany Jones**
 Carrier/Waybill Number: _____

Date: _____
 Lab Number: _____
 Chain of Custody Number: **255450**
 Page **2** of **2**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
RES-1-202004	4/1/20	1150		X											
RES-4-202004	4/1/20	1830		X											
RES-5-202004	4/1/20	1345		X											
RES-9-20200402	4/2/20	0740		X											
RES-10-20200402	4/2/20	0815		X											
Dup2-202004002	4/2/20	-		X											
Dup3-20200402	4/2/20	-		X											
Dup4-202004	4/1/20	-		X											
Trip Blanks	-	-		X											

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

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

Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **3 days**

QC Requirements (Specify):
MS-3 requirements

1. Relinquished By: _____ Date: **4/3/20** Time: **0920**
 2. Relinquished By: _____ Date: **4/3/20** Time: **16:00**
 3. Relinquished By: _____ Date: _____ Time: _____

Received By: _____ Date: **4/4/20** Time: **9:10**
 Received By: _____ Date: **4/4/20** Time: **09:12**
 Received By: _____ Date: _____ Time: _____

Comments: _____

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



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

SHIP DATE: 03APR20
ACTWGT: 56.10 LB
CAD: 590687/CAFE3311

BILL RECIPIENT

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

SHIP DATE: 03APR20
ACTWGT: 37.90 LB
CAD: 590687/CAFE3311

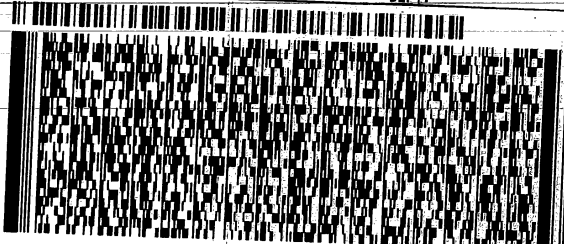
BILL RECIPIENT

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

(802) 660-1990
INV: PO:

REF:

DEPT:



FedE
Expres



2 of 6
MPS# 0263 4258 8395 8128
Mstr# 4258 8395 8117

SATURDAY 12:00
PRIORITY OVERNIGHT

0201

XO BTVA

054

VT-US B

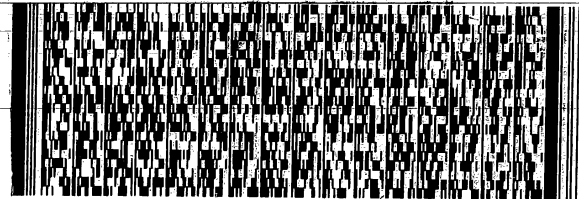
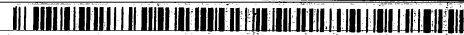


TO **SAMPLE RECEIVING**
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 660-1990
INV: PO:

REF:

DEPT:



FedE
Expres



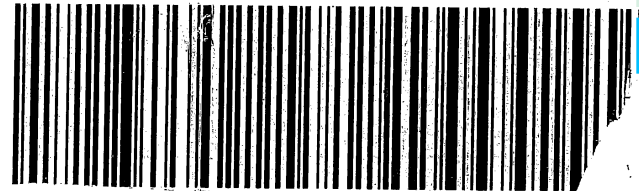
1 of 6
TRK# 0201 4258 8395 8117
MASTER

SATURDAY 12:00
PRIORITY OVERNIGHT

XO BTVA

054

VT-US B



SHIP DATE: 03APR20
ACTWGT: 51.95 LB
CAD: 590687/CAFE3311
BILL RECIPIENT

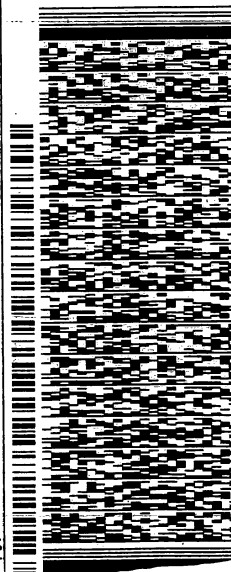
ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

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

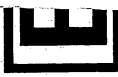
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INV: PO:

REF:

DEPT:



FedE
Expres



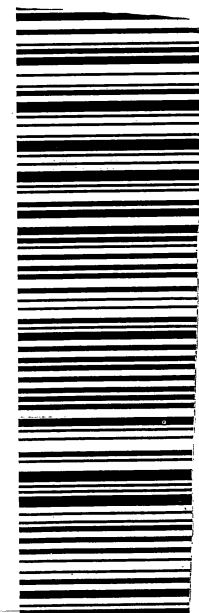
SATURDAY 12:00
PRIORITY OVERNIGHT

3 of 6
MPS# 263 4258 8395 8139
Mstr# 4258 8395 8117

0201

XO BTVA

054
VT-US B



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

SHIP DATE: 03APR20
ACTWGT: 54.20 LB
CAD: 590687/CAFE3311

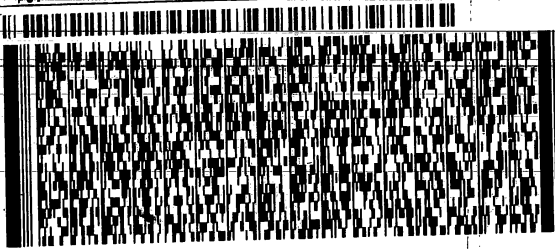
BILL RECIPIENT

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

(802) 860-1990
INU:
PO:

REF:

DEPT:



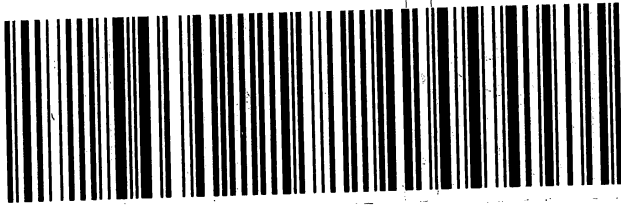
5 of 6
MPS# 4258 8395 8150
0263
Mstr# 4258 8395 8117

SATURDAY 12:00
PRIORITY OVERNIGHT

0201

XO BTVA

0540
VT-US BT



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

SHIP DATE: 03APR20
ACTWGT: 54.60 LB
CAD: 590687/CAFE3311

BILL RECIPIENT

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

(802) 860-1990
INU:
PO:

REF:

DEPT:



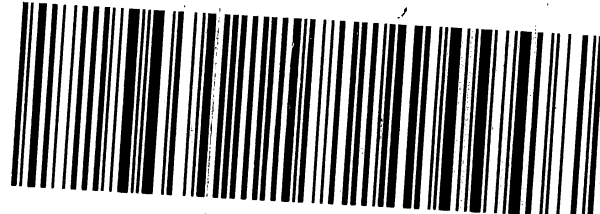
4 of 6
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263
Mstr# 4258 8395 8117

SATURDAY 12:00
PRIORITY OVERNIGHT

0201

XO BTVA

0540
VT-US



SHIP DATE: 03APR20
ACTWGT: 66.70 LB
CAD: 590687/CAFE3311

BILL RECIPIENT

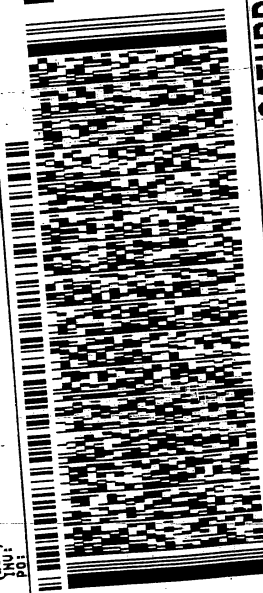
ORIGIN ID:BXCA (781) 466-6900
PAUL HOBART
TESTAMERICA
240 BEAR HILL ROAD
SUITE 104
WALTHAM, MA 02451
UNITED STATES US

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

REF:

(802) 860-1990
INU:
PO:

DEPT:



SATURDAY 12:00
PRIORITY OVERNIGHT

0201

6 of 6
MPS# 4258 8395 8161
0263
Mstr# 4258 8395 8117
XO BTVA

0540
VT-US BT

