

Clementine Dulieu

From: Clementine Dulieu
Sent: Monday, February 3, 2020 12:39 PM
To: James Knights; Joanne Frazier
Cc: Katie Wolf
Subject: Wayland Property Owner Data Transmittal - Jan 2020
Attachments: IESI Lab Report_January 2020.pdf; National Development BWSC-123 Form.pdf

Hi James and Joanne,

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 January 2020. The analytical results and BWSC-123 form are attached to this email.

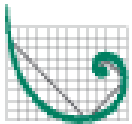
These results are being sent for National Development's records.

Thanks,

Clementine Dulieu
Consultant II, Geology

ERM

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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

-

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: 480-165242-1
Client Project/Site: IDS Wayland

For:

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

Attn: Vicki Pariyar



Authorized for release by:

1/27/2020 11:19:44 AM

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

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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: 480-165242-1

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

Job ID: 480-165242-1

Job ID: 480-165242-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-165242-1

Receipt

The samples were received on 1/16/2020 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-268S-20200115 (480-165242-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was diluted due to the abundance of non-target analytes: REW-11-20200115 (480-165242-5). Elevated reporting limits (RLs) are provided.

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-11-20200115 (480-165242-5). Sample pH is 5.

Method 8260C: The continuing calibration verification (CCV) for 1,2-Dibromo-3-Chloropropane, Bromoform, Chlorodibromomethane and Chloroethane associated with batch 480-513945 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-267M-20200115 (480-165242-1), MW-268S-20200115 (480-165242-2), REW-7-20200115 (480-165242-4), REW-11-20200115 (480-165242-5), REW-12-20200115 (480-165242-6), DUP-20200115 (480-165242-7) and TRIP BLANK (480-165242-8).

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 480-513945 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-267M-20200115 (480-165242-1), MW-268S-20200115 (480-165242-2), REW-7-20200115 (480-165242-4), REW-11-20200115 (480-165242-5), REW-12-20200115 (480-165242-6), DUP-20200115 (480-165242-7) and TRIP BLANK (480-165242-8).

Method 8260C: The continuing calibration verification (CCV) for Dichlorodifluoromethane, Bromoform, and 1,2-Dibromo-3-Chloropropane associated with batch 480-514044 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 : MW-268M-20200115 (480-165242-3).

Method 8260C: The laboratory control sample (LCS) and / or the laboratory control sample duplicate (LCSD) for batch 480-514044 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 sample was affected : MW-268M-20200115 (480-165242-3).

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

General Chemistry

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

Detection Summary

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

Job ID: 480-165242-1

Client Sample ID: MW-267M-20200115

Lab Sample ID: 480-165242-1

No Detections.

Client Sample ID: MW-268S-20200115

Lab Sample ID: 480-165242-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	75	*	40		ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	320		4.0		ug/L	4		8260C	Total/NA
Toluene	190		4.0		ug/L	4		8260C	Total/NA
Trichloroethene	78		4.0		ug/L	4		8260C	Total/NA
Vinyl chloride	8.5		4.0		ug/L	4		8260C	Total/NA
TOC Result 1	5400		100		mg/L	100		9060A	Total/NA
TOC Result 2	5500		100		mg/L	100		9060A	Total/NA
Total Organic Carbon - Duplicates	5400		100		mg/L	100		9060A	Total/NA

Client Sample ID: MW-268M-20200115

Lab Sample ID: 480-165242-3

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	4.1		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	13		1.0		ug/L	1		8260C	Total/NA
TOC Result 1	2.3		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	2.3		1.0		mg/L	1		9060A	Total/NA

Client Sample ID: REW-7-20200115

Lab Sample ID: 480-165242-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrahydrofuran	130		10		ug/L	1		8260C	Total/NA

Client Sample ID: REW-11-20200115

Lab Sample ID: 480-165242-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	1000	*	200		ug/L	20		8260C	Total/NA
Tetrahydrofuran	470		200		ug/L	20		8260C	Total/NA

Client Sample ID: REW-12-20200115

Lab Sample ID: 480-165242-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m-Xylene & p-Xylene	2.3		2.0		ug/L	1		8260C	Total/NA

Client Sample ID: DUP-20200115

Lab Sample ID: 480-165242-7

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	13		1.0		ug/L	1		8260C	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-165242-8

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: 480-165242-1

Client Sample ID: MW-267M-20200115

Lab Sample ID: 480-165242-1

Date Collected: 01/15/20 10:15

Matrix: Water

Date Received: 01/16/20 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			01/17/20 14:48	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/17/20 14:48	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/17/20 14:48	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/17/20 14:48	1
1,1-Dichloroethane	ND		1.0		ug/L			01/17/20 14:48	1
1,1-Dichloroethene	ND		1.0		ug/L			01/17/20 14:48	1
1,1-Dichloropropene	ND		1.0		ug/L			01/17/20 14:48	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/17/20 14:48	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/17/20 14:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/17/20 14:48	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/17/20 14:48	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			01/17/20 14:48	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/17/20 14:48	1
1,2-Dichloroethane	ND		1.0		ug/L			01/17/20 14:48	1
1,2-Dichloropropane	ND		1.0		ug/L			01/17/20 14:48	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/17/20 14:48	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/17/20 14:48	1
1,3-Dichloropropane	ND		1.0		ug/L			01/17/20 14:48	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/17/20 14:48	1
1,4-Dioxane	ND		50		ug/L			01/17/20 14:48	1
2,2-Dichloropropane	ND		1.0		ug/L			01/17/20 14:48	1
2-Butanone (MEK)	ND *		10		ug/L			01/17/20 14:48	1
2-Chlorotoluene	ND		1.0		ug/L			01/17/20 14:48	1
2-Hexanone	ND		10		ug/L			01/17/20 14:48	1
4-Chlorotoluene	ND		1.0		ug/L			01/17/20 14:48	1
4-Isopropyltoluene	ND		1.0		ug/L			01/17/20 14:48	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			01/17/20 14:48	1
Acetone	ND		50		ug/L			01/17/20 14:48	1
Benzene	ND		1.0		ug/L			01/17/20 14:48	1
Bromobenzene	ND		1.0		ug/L			01/17/20 14:48	1
Bromoform	ND		1.0		ug/L			01/17/20 14:48	1
Bromomethane	ND		2.0		ug/L			01/17/20 14:48	1
Carbon disulfide	ND		10		ug/L			01/17/20 14:48	1
Carbon tetrachloride	ND		1.0		ug/L			01/17/20 14:48	1
Chlorobenzene	ND		1.0		ug/L			01/17/20 14:48	1
Chlorobromomethane	ND		1.0		ug/L			01/17/20 14:48	1
Chlorodibromomethane	ND		0.50		ug/L			01/17/20 14:48	1
Chloroethane	ND		2.0		ug/L			01/17/20 14:48	1
Chloroform	ND		1.0		ug/L			01/17/20 14:48	1
Chloromethane	ND		2.0		ug/L			01/17/20 14:48	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/17/20 14:48	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			01/17/20 14:48	1
Dichlorobromomethane	ND		0.50		ug/L			01/17/20 14:48	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/17/20 14:48	1
Ethyl ether	ND		1.0		ug/L			01/17/20 14:48	1
Ethylbenzene	ND		1.0		ug/L			01/17/20 14:48	1
Ethylene Dibromide	ND		1.0		ug/L			01/17/20 14:48	1
Hexachlorobutadiene	ND		0.40		ug/L			01/17/20 14:48	1
Isopropyl ether	ND		10		ug/L			01/17/20 14:48	1

Client Sample Results

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

Job ID: 480-165242-1

Client Sample ID: MW-267M-20200115

Lab Sample ID: 480-165242-1

Date Collected: 01/15/20 10:15

Matrix: Water

Date Received: 01/16/20 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			01/17/20 14:48	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/17/20 14:48	1
Methylene Chloride	ND		1.0		ug/L			01/17/20 14:48	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/17/20 14:48	1
Naphthalene	ND		5.0		ug/L			01/17/20 14:48	1
n-Butylbenzene	ND		1.0		ug/L			01/17/20 14:48	1
N-Propylbenzene	ND		1.0		ug/L			01/17/20 14:48	1
o-Xylene	ND		1.0		ug/L			01/17/20 14:48	1
sec-Butylbenzene	ND		1.0		ug/L			01/17/20 14:48	1
Styrene	ND		1.0		ug/L			01/17/20 14:48	1
Tert-amyl methyl ether	ND		5.0		ug/L			01/17/20 14:48	1
Tert-butyl ethyl ether	ND		5.0		ug/L			01/17/20 14:48	1
tert-Butylbenzene	ND		1.0		ug/L			01/17/20 14:48	1
Tetrachloroethene	ND		1.0		ug/L			01/17/20 14:48	1
Tetrahydrofuran	ND		10		ug/L			01/17/20 14:48	1
Toluene	ND		1.0		ug/L			01/17/20 14:48	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/17/20 14:48	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			01/17/20 14:48	1
Trichloroethene	ND		1.0		ug/L			01/17/20 14:48	1
Trichlorofluoromethane	ND		1.0		ug/L			01/17/20 14:48	1
Vinyl chloride	ND		1.0		ug/L			01/17/20 14:48	1
Dibromomethane	ND		1.0		ug/L			01/17/20 14:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Toluene-d8 (Surr)</i>	98		70 - 130		01/17/20 14:48	1
<i>1,2-Dichloroethane-d4 (Surr)</i>	94		70 - 130		01/17/20 14:48	1
<i>4-Bromofluorobenzene (Surr)</i>	97		70 - 130		01/17/20 14:48	1

Client Sample ID: MW-268S-20200115

Lab Sample ID: 480-165242-2

Date Collected: 01/15/20 08:00

Matrix: Water

Date Received: 01/16/20 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			01/17/20 15:12	4
1,1,1-Trichloroethane	ND		4.0		ug/L			01/17/20 15:12	4
1,1,2,2-Tetrachloroethane	ND		2.0		ug/L			01/17/20 15:12	4
1,1,2-Trichloroethane	ND		4.0		ug/L			01/17/20 15:12	4
1,1-Dichloroethane	ND		4.0		ug/L			01/17/20 15:12	4
1,1-Dichloroethene	ND		4.0		ug/L			01/17/20 15:12	4
1,1-Dichloropropene	ND		4.0		ug/L			01/17/20 15:12	4
1,2,3-Trichlorobenzene	ND		4.0		ug/L			01/17/20 15:12	4
1,2,3-Trichloropropane	ND		4.0		ug/L			01/17/20 15:12	4
1,2,4-Trichlorobenzene	ND		4.0		ug/L			01/17/20 15:12	4
1,2,4-Trimethylbenzene	ND		4.0		ug/L			01/17/20 15:12	4
1,2-Dibromo-3-Chloropropane	ND		20		ug/L			01/17/20 15:12	4
1,2-Dichlorobenzene	ND		4.0		ug/L			01/17/20 15:12	4
1,2-Dichloroethane	ND		4.0		ug/L			01/17/20 15:12	4
1,2-Dichloropropane	ND		4.0		ug/L			01/17/20 15:12	4
1,3,5-Trimethylbenzene	ND		4.0		ug/L			01/17/20 15:12	4

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-165242-1

Client Sample ID: MW-268S-20200115

Lab Sample ID: 480-165242-2

Date Collected: 01/15/20 08:00

Matrix: Water

Date Received: 01/16/20 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		4.0		ug/L			01/17/20 15:12	4
1,3-Dichloropropane	ND		4.0		ug/L			01/17/20 15:12	4
1,4-Dichlorobenzene	ND		4.0		ug/L			01/17/20 15:12	4
1,4-Dioxane	ND		200		ug/L			01/17/20 15:12	4
2,2-Dichloropropane	ND		4.0		ug/L			01/17/20 15:12	4
2-Butanone (MEK)	75	*	40		ug/L			01/17/20 15:12	4
2-Chlorotoluene	ND		4.0		ug/L			01/17/20 15:12	4
2-Hexanone	ND		40		ug/L			01/17/20 15:12	4
4-Chlorotoluene	ND		4.0		ug/L			01/17/20 15:12	4
4-Isopropyltoluene	ND		4.0		ug/L			01/17/20 15:12	4
4-Methyl-2-pentanone (MIBK)	ND		40		ug/L			01/17/20 15:12	4
Acetone	ND		200		ug/L			01/17/20 15:12	4
Benzene	ND		4.0		ug/L			01/17/20 15:12	4
Bromobenzene	ND		4.0		ug/L			01/17/20 15:12	4
Bromoform	ND		4.0		ug/L			01/17/20 15:12	4
Bromomethane	ND		8.0		ug/L			01/17/20 15:12	4
Carbon disulfide	ND		40		ug/L			01/17/20 15:12	4
Carbon tetrachloride	ND		4.0		ug/L			01/17/20 15:12	4
Chlorobenzene	ND		4.0		ug/L			01/17/20 15:12	4
Chlorobromomethane	ND		4.0		ug/L			01/17/20 15:12	4
Chlorodibromomethane	ND		2.0		ug/L			01/17/20 15:12	4
Chloroethane	ND		8.0		ug/L			01/17/20 15:12	4
Chloroform	ND		4.0		ug/L			01/17/20 15:12	4
Chloromethane	ND		8.0		ug/L			01/17/20 15:12	4
cis-1,2-Dichloroethene	320		4.0		ug/L			01/17/20 15:12	4
cis-1,3-Dichloropropene	ND		1.6		ug/L			01/17/20 15:12	4
Dichlorobromomethane	ND		2.0		ug/L			01/17/20 15:12	4
Dichlorodifluoromethane	ND		4.0		ug/L			01/17/20 15:12	4
Ethyl ether	ND		4.0		ug/L			01/17/20 15:12	4
Ethylbenzene	ND		4.0		ug/L			01/17/20 15:12	4
Ethylene Dibromide	ND		4.0		ug/L			01/17/20 15:12	4
Hexachlorobutadiene	ND		1.6		ug/L			01/17/20 15:12	4
Isopropyl ether	ND		40		ug/L			01/17/20 15:12	4
Isopropylbenzene	ND		4.0		ug/L			01/17/20 15:12	4
Methyl tert-butyl ether	ND		4.0		ug/L			01/17/20 15:12	4
Methylene Chloride	ND		4.0		ug/L			01/17/20 15:12	4
m-Xylene & p-Xylene	ND		8.0		ug/L			01/17/20 15:12	4
Naphthalene	ND		20		ug/L			01/17/20 15:12	4
n-Butylbenzene	ND		4.0		ug/L			01/17/20 15:12	4
N-Propylbenzene	ND		4.0		ug/L			01/17/20 15:12	4
o-Xylene	ND		4.0		ug/L			01/17/20 15:12	4
sec-Butylbenzene	ND		4.0		ug/L			01/17/20 15:12	4
Styrene	ND		4.0		ug/L			01/17/20 15:12	4
Tert-amyl methyl ether	ND		20		ug/L			01/17/20 15:12	4
Tert-butyl ethyl ether	ND		20		ug/L			01/17/20 15:12	4
tert-Butylbenzene	ND		4.0		ug/L			01/17/20 15:12	4
Tetrachloroethene	ND		4.0		ug/L			01/17/20 15:12	4
Tetrahydrofuran	ND		40		ug/L			01/17/20 15:12	4
Toluene	190		4.0		ug/L			01/17/20 15:12	4

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-165242-1

Client Sample ID: MW-268S-20200115

Lab Sample ID: 480-165242-2

Date Collected: 01/15/20 08:00

Matrix: Water

Date Received: 01/16/20 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		4.0		ug/L			01/17/20 15:12	4
trans-1,3-Dichloropropene	ND		1.6		ug/L			01/17/20 15:12	4
Trichloroethene	78		4.0		ug/L			01/17/20 15:12	4
Trichlorofluoromethane	ND		4.0		ug/L			01/17/20 15:12	4
Vinyl chloride	8.5		4.0		ug/L			01/17/20 15:12	4
Dibromomethane	ND		4.0		ug/L			01/17/20 15:12	4

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130				01/17/20 15:12	4
1,2-Dichloroethane-d4 (Surr)	92		70 - 130				01/17/20 15:12	4
4-Bromofluorobenzene (Surr)	97		70 - 130				01/17/20 15:12	4

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	5400		100		mg/L			01/24/20 00:58	100
TOC Result 2	5500		100		mg/L			01/24/20 00:58	100
Total Organic Carbon - Duplicates	5400		100		mg/L			01/24/20 00:58	100

Client Sample ID: MW-268M-20200115

Lab Sample ID: 480-165242-3

Date Collected: 01/15/20 08:45

Matrix: Water

Date Received: 01/16/20 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			01/18/20 12:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/18/20 12:59	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/18/20 12:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/18/20 12:59	1
1,1-Dichloroethane	1.2		1.0		ug/L			01/18/20 12:59	1
1,1-Dichloroethene	ND		1.0		ug/L			01/18/20 12:59	1
1,1-Dichloropropene	ND		1.0		ug/L			01/18/20 12:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/18/20 12:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/18/20 12:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/18/20 12:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/18/20 12:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			01/18/20 12:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/18/20 12:59	1
1,2-Dichloroethane	ND		1.0		ug/L			01/18/20 12:59	1
1,2-Dichloropropane	ND		1.0		ug/L			01/18/20 12:59	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/18/20 12:59	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/18/20 12:59	1
1,3-Dichloropropane	ND		1.0		ug/L			01/18/20 12:59	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/18/20 12:59	1
1,4-Dioxane	ND		50		ug/L			01/18/20 12:59	1
2,2-Dichloropropane	ND		1.0		ug/L			01/18/20 12:59	1
2-Butanone (MEK)	ND *		10		ug/L			01/18/20 12:59	1
2-Chlorotoluene	ND		1.0		ug/L			01/18/20 12:59	1
2-Hexanone	ND		10		ug/L			01/18/20 12:59	1
4-Chlorotoluene	ND		1.0		ug/L			01/18/20 12:59	1
4-Isopropyltoluene	ND		1.0		ug/L			01/18/20 12:59	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-165242-1

Client Sample ID: MW-268M-20200115

Lab Sample ID: 480-165242-3

Date Collected: 01/15/20 08:45

Matrix: Water

Date Received: 01/16/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			01/18/20 12:59	1
Acetone	ND		50		ug/L			01/18/20 12:59	1
Benzene	ND		1.0		ug/L			01/18/20 12:59	1
Bromobenzene	ND		1.0		ug/L			01/18/20 12:59	1
Bromoform	ND		1.0		ug/L			01/18/20 12:59	1
Bromomethane	ND		2.0		ug/L			01/18/20 12:59	1
Carbon disulfide	ND		10		ug/L			01/18/20 12:59	1
Carbon tetrachloride	ND		1.0		ug/L			01/18/20 12:59	1
Chlorobenzene	ND		1.0		ug/L			01/18/20 12:59	1
Chlorobromomethane	ND		1.0		ug/L			01/18/20 12:59	1
Chlorodibromomethane	ND		0.50		ug/L			01/18/20 12:59	1
Chloroethane	ND		2.0		ug/L			01/18/20 12:59	1
Chloroform	ND		1.0		ug/L			01/18/20 12:59	1
Chloromethane	ND		2.0		ug/L			01/18/20 12:59	1
cis-1,2-Dichloroethene	4.1		1.0		ug/L			01/18/20 12:59	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			01/18/20 12:59	1
Dichlorobromomethane	ND		0.50		ug/L			01/18/20 12:59	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/18/20 12:59	1
Ethyl ether	ND		1.0		ug/L			01/18/20 12:59	1
Ethylbenzene	ND		1.0		ug/L			01/18/20 12:59	1
Ethylene Dibromide	ND		1.0		ug/L			01/18/20 12:59	1
Hexachlorobutadiene	ND		0.40		ug/L			01/18/20 12:59	1
Isopropyl ether	ND		10		ug/L			01/18/20 12:59	1
Isopropylbenzene	ND		1.0		ug/L			01/18/20 12:59	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/18/20 12:59	1
Methylene Chloride	ND		1.0		ug/L			01/18/20 12:59	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/18/20 12:59	1
Naphthalene	ND		5.0		ug/L			01/18/20 12:59	1
n-Butylbenzene	ND		1.0		ug/L			01/18/20 12:59	1
N-Propylbenzene	ND		1.0		ug/L			01/18/20 12:59	1
o-Xylene	ND		1.0		ug/L			01/18/20 12:59	1
sec-Butylbenzene	ND		1.0		ug/L			01/18/20 12:59	1
Styrene	ND		1.0		ug/L			01/18/20 12:59	1
Tert-amyl methyl ether	ND		5.0		ug/L			01/18/20 12:59	1
Tert-butyl ethyl ether	ND		5.0		ug/L			01/18/20 12:59	1
tert-Butylbenzene	ND		1.0		ug/L			01/18/20 12:59	1
Tetrachloroethene	ND		1.0		ug/L			01/18/20 12:59	1
Tetrahydrofuran	ND		10		ug/L			01/18/20 12:59	1
Toluene	ND		1.0		ug/L			01/18/20 12:59	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/18/20 12:59	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			01/18/20 12:59	1
Trichloroethene	ND		1.0		ug/L			01/18/20 12:59	1
Trichlorofluoromethane	ND		1.0		ug/L			01/18/20 12:59	1
Vinyl chloride	13		1.0		ug/L			01/18/20 12:59	1
Dibromomethane	ND		1.0		ug/L			01/18/20 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		01/18/20 12:59	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		01/18/20 12:59	1
4-Bromofluorobenzene (Surr)	97		70 - 130		01/18/20 12:59	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-165242-1

Client Sample ID: MW-268M-20200115

Lab Sample ID: 480-165242-3

Date Collected: 01/15/20 08:45

Matrix: Water

Date Received: 01/16/20 08:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	2.3		1.0		mg/L			01/22/20 21:36	1
TOC Result 2	2.2		1.0		mg/L			01/22/20 21:36	1
Total Organic Carbon - Duplicates	2.3		1.0		mg/L			01/22/20 21:36	1

Client Sample ID: REW-7-20200115

Lab Sample ID: 480-165242-4

Date Collected: 01/15/20 10:50

Matrix: Water

Date Received: 01/16/20 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			01/17/20 15:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/17/20 15:59	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/17/20 15:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/17/20 15:59	1
1,1-Dichloroethane	ND		1.0		ug/L			01/17/20 15:59	1
1,1-Dichloroethene	ND		1.0		ug/L			01/17/20 15:59	1
1,1-Dichloropropene	ND		1.0		ug/L			01/17/20 15:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/17/20 15:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/17/20 15:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/17/20 15:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/17/20 15:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			01/17/20 15:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/17/20 15:59	1
1,2-Dichloroethane	ND		1.0		ug/L			01/17/20 15:59	1
1,2-Dichloropropane	ND		1.0		ug/L			01/17/20 15:59	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/17/20 15:59	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/17/20 15:59	1
1,3-Dichloropropane	ND		1.0		ug/L			01/17/20 15:59	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/17/20 15:59	1
1,4-Dioxane	ND		50		ug/L			01/17/20 15:59	1
2,2-Dichloropropane	ND		1.0		ug/L			01/17/20 15:59	1
2-Butanone (MEK)	ND	*	10		ug/L			01/17/20 15:59	1
2-Chlorotoluene	ND		1.0		ug/L			01/17/20 15:59	1
2-Hexanone	ND		10		ug/L			01/17/20 15:59	1
4-Chlorotoluene	ND		1.0		ug/L			01/17/20 15:59	1
4-Isopropyltoluene	ND		1.0		ug/L			01/17/20 15:59	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			01/17/20 15:59	1
Acetone	ND		50		ug/L			01/17/20 15:59	1
Benzene	ND		1.0		ug/L			01/17/20 15:59	1
Bromobenzene	ND		1.0		ug/L			01/17/20 15:59	1
Bromoform	ND		1.0		ug/L			01/17/20 15:59	1
Bromomethane	ND		2.0		ug/L			01/17/20 15:59	1
Carbon disulfide	ND		10		ug/L			01/17/20 15:59	1
Carbon tetrachloride	ND		1.0		ug/L			01/17/20 15:59	1
Chlorobenzene	ND		1.0		ug/L			01/17/20 15:59	1
Chlorobromomethane	ND		1.0		ug/L			01/17/20 15:59	1
Chlorodibromomethane	ND		0.50		ug/L			01/17/20 15:59	1
Chloroethane	ND		2.0		ug/L			01/17/20 15:59	1
Chloroform	ND		1.0		ug/L			01/17/20 15:59	1
Chloromethane	ND		2.0		ug/L			01/17/20 15:59	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-165242-1

Client Sample ID: REW-7-20200115

Lab Sample ID: 480-165242-4

Date Collected: 01/15/20 10:50

Matrix: Water

Date Received: 01/16/20 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	ND		1.0		ug/L			01/17/20 15:59	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			01/17/20 15:59	1
Dichlorobromomethane	ND		0.50		ug/L			01/17/20 15:59	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/17/20 15:59	1
Ethyl ether	ND		1.0		ug/L			01/17/20 15:59	1
Ethylbenzene	ND		1.0		ug/L			01/17/20 15:59	1
Ethylene Dibromide	ND		1.0		ug/L			01/17/20 15:59	1
Hexachlorobutadiene	ND		0.40		ug/L			01/17/20 15:59	1
Isopropyl ether	ND		10		ug/L			01/17/20 15:59	1
Isopropylbenzene	ND		1.0		ug/L			01/17/20 15:59	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/17/20 15:59	1
Methylene Chloride	ND		1.0		ug/L			01/17/20 15:59	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/17/20 15:59	1
Naphthalene	ND		5.0		ug/L			01/17/20 15:59	1
n-Butylbenzene	ND		1.0		ug/L			01/17/20 15:59	1
N-Propylbenzene	ND		1.0		ug/L			01/17/20 15:59	1
o-Xylene	ND		1.0		ug/L			01/17/20 15:59	1
sec-Butylbenzene	ND		1.0		ug/L			01/17/20 15:59	1
Styrene	ND		1.0		ug/L			01/17/20 15:59	1
Tert-amyl methyl ether	ND		5.0		ug/L			01/17/20 15:59	1
Tert-butyl ethyl ether	ND		5.0		ug/L			01/17/20 15:59	1
tert-Butylbenzene	ND		1.0		ug/L			01/17/20 15:59	1
Tetrachloroethene	ND		1.0		ug/L			01/17/20 15:59	1
Tetrahydrofuran	130		10		ug/L			01/17/20 15:59	1
Toluene	ND		1.0		ug/L			01/17/20 15:59	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/17/20 15:59	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			01/17/20 15:59	1
Trichloroethene	ND		1.0		ug/L			01/17/20 15:59	1
Trichlorofluoromethane	ND		1.0		ug/L			01/17/20 15:59	1
Vinyl chloride	ND		1.0		ug/L			01/17/20 15:59	1
Dibromomethane	ND		1.0		ug/L			01/17/20 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		01/17/20 15:59	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		01/17/20 15:59	1
4-Bromofluorobenzene (Surr)	97		70 - 130		01/17/20 15:59	1

Client Sample ID: REW-11-20200115

Lab Sample ID: 480-165242-5

Date Collected: 01/15/20 09:30

Matrix: Water

Date Received: 01/16/20 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			01/17/20 16:23	20
1,1,1-Trichloroethane	ND		20		ug/L			01/17/20 16:23	20
1,1,2,2-Tetrachloroethane	ND		10		ug/L			01/17/20 16:23	20
1,1,2-Trichloroethane	ND		20		ug/L			01/17/20 16:23	20
1,1-Dichloroethane	ND		20		ug/L			01/17/20 16:23	20
1,1-Dichloroethene	ND		20		ug/L			01/17/20 16:23	20
1,1-Dichloropropene	ND		20		ug/L			01/17/20 16:23	20

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-165242-1

Client Sample ID: REW-11-20200115

Lab Sample ID: 480-165242-5

Date Collected: 01/15/20 09:30

Matrix: Water

Date Received: 01/16/20 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		20		ug/L			01/17/20 16:23	20
1,2,3-Trichloropropane	ND		20		ug/L			01/17/20 16:23	20
1,2,4-Trichlorobenzene	ND		20		ug/L			01/17/20 16:23	20
1,2,4-Trimethylbenzene	ND		20		ug/L			01/17/20 16:23	20
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			01/17/20 16:23	20
1,2-Dichlorobenzene	ND		20		ug/L			01/17/20 16:23	20
1,2-Dichloroethane	ND		20		ug/L			01/17/20 16:23	20
1,2-Dichloropropane	ND		20		ug/L			01/17/20 16:23	20
1,3,5-Trimethylbenzene	ND		20		ug/L			01/17/20 16:23	20
1,3-Dichlorobenzene	ND		20		ug/L			01/17/20 16:23	20
1,3-Dichloropropane	ND		20		ug/L			01/17/20 16:23	20
1,4-Dichlorobenzene	ND		20		ug/L			01/17/20 16:23	20
1,4-Dioxane	ND		1000		ug/L			01/17/20 16:23	20
2,2-Dichloropropane	ND		20		ug/L			01/17/20 16:23	20
2-Butanone (MEK)	1000	*	200		ug/L			01/17/20 16:23	20
2-Chlorotoluene	ND		20		ug/L			01/17/20 16:23	20
2-Hexanone	ND		200		ug/L			01/17/20 16:23	20
4-Chlorotoluene	ND		20		ug/L			01/17/20 16:23	20
4-Isopropyltoluene	ND		20		ug/L			01/17/20 16:23	20
4-Methyl-2-pentanone (MIBK)	ND		200		ug/L			01/17/20 16:23	20
Acetone	ND		1000		ug/L			01/17/20 16:23	20
Benzene	ND		20		ug/L			01/17/20 16:23	20
Bromobenzene	ND		20		ug/L			01/17/20 16:23	20
Bromoform	ND		20		ug/L			01/17/20 16:23	20
Bromomethane	ND		40		ug/L			01/17/20 16:23	20
Carbon disulfide	ND		200		ug/L			01/17/20 16:23	20
Carbon tetrachloride	ND		20		ug/L			01/17/20 16:23	20
Chlorobenzene	ND		20		ug/L			01/17/20 16:23	20
Chlorobromomethane	ND		20		ug/L			01/17/20 16:23	20
Chlorodibromomethane	ND		10		ug/L			01/17/20 16:23	20
Chloroethane	ND		40		ug/L			01/17/20 16:23	20
Chloroform	ND		20		ug/L			01/17/20 16:23	20
Chloromethane	ND		40		ug/L			01/17/20 16:23	20
cis-1,2-Dichloroethene	ND		20		ug/L			01/17/20 16:23	20
cis-1,3-Dichloropropene	ND		8.0		ug/L			01/17/20 16:23	20
Dichlorobromomethane	ND		10		ug/L			01/17/20 16:23	20
Dichlorodifluoromethane	ND		20		ug/L			01/17/20 16:23	20
Ethyl ether	ND		20		ug/L			01/17/20 16:23	20
Ethylbenzene	ND		20		ug/L			01/17/20 16:23	20
Ethylene Dibromide	ND		20		ug/L			01/17/20 16:23	20
Hexachlorobutadiene	ND		8.0		ug/L			01/17/20 16:23	20
Isopropyl ether	ND		200		ug/L			01/17/20 16:23	20
Isopropylbenzene	ND		20		ug/L			01/17/20 16:23	20
Methyl tert-butyl ether	ND		20		ug/L			01/17/20 16:23	20
Methylene Chloride	ND		20		ug/L			01/17/20 16:23	20
m-Xylene & p-Xylene	ND		40		ug/L			01/17/20 16:23	20
Naphthalene	ND		100		ug/L			01/17/20 16:23	20
n-Butylbenzene	ND		20		ug/L			01/17/20 16:23	20
N-Propylbenzene	ND		20		ug/L			01/17/20 16:23	20

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-165242-1

Client Sample ID: REW-11-20200115

Lab Sample ID: 480-165242-5

Date Collected: 01/15/20 09:30

Matrix: Water

Date Received: 01/16/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	ND		20		ug/L			01/17/20 16:23	20
sec-Butylbenzene	ND		20		ug/L			01/17/20 16:23	20
Styrene	ND		20		ug/L			01/17/20 16:23	20
Tert-amyl methyl ether	ND		100		ug/L			01/17/20 16:23	20
Tert-butyl ethyl ether	ND		100		ug/L			01/17/20 16:23	20
tert-Butylbenzene	ND		20		ug/L			01/17/20 16:23	20
Tetrachloroethene	ND		20		ug/L			01/17/20 16:23	20
Tetrahydrofuran	470		200		ug/L			01/17/20 16:23	20
Toluene	ND		20		ug/L			01/17/20 16:23	20
trans-1,2-Dichloroethene	ND		20		ug/L			01/17/20 16:23	20
trans-1,3-Dichloropropene	ND		8.0		ug/L			01/17/20 16:23	20
Trichloroethene	ND		20		ug/L			01/17/20 16:23	20
Trichlorofluoromethane	ND		20		ug/L			01/17/20 16:23	20
Vinyl chloride	ND		20		ug/L			01/17/20 16:23	20
Dibromomethane	ND		20		ug/L			01/17/20 16:23	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		01/17/20 16:23	20
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		01/17/20 16:23	20
4-Bromofluorobenzene (Surr)	96		70 - 130		01/17/20 16:23	20

Client Sample ID: REW-12-20200115

Lab Sample ID: 480-165242-6

Date Collected: 01/15/20 11:30

Matrix: Water

Date Received: 01/16/20 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			01/17/20 16:47	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/17/20 16:47	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/17/20 16:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/17/20 16:47	1
1,1-Dichloroethane	ND		1.0		ug/L			01/17/20 16:47	1
1,1-Dichloroethene	ND		1.0		ug/L			01/17/20 16:47	1
1,1-Dichloropropene	ND		1.0		ug/L			01/17/20 16:47	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/17/20 16:47	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/17/20 16:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/17/20 16:47	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/17/20 16:47	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			01/17/20 16:47	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/17/20 16:47	1
1,2-Dichloroethane	ND		1.0		ug/L			01/17/20 16:47	1
1,2-Dichloropropane	ND		1.0		ug/L			01/17/20 16:47	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/17/20 16:47	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/17/20 16:47	1
1,3-Dichloropropane	ND		1.0		ug/L			01/17/20 16:47	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/17/20 16:47	1
1,4-Dioxane	ND		50		ug/L			01/17/20 16:47	1
2,2-Dichloropropane	ND		1.0		ug/L			01/17/20 16:47	1
2-Butanone (MEK)	ND	*	10		ug/L			01/17/20 16:47	1
2-Chlorotoluene	ND		1.0		ug/L			01/17/20 16:47	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-165242-1

Client Sample ID: REW-12-20200115

Lab Sample ID: 480-165242-6

Date Collected: 01/15/20 11:30

Matrix: Water

Date Received: 01/16/20 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			01/17/20 16:47	1
4-Chlorotoluene	ND		1.0		ug/L			01/17/20 16:47	1
4-Isopropyltoluene	ND		1.0		ug/L			01/17/20 16:47	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			01/17/20 16:47	1
Acetone	ND		50		ug/L			01/17/20 16:47	1
Benzene	ND		1.0		ug/L			01/17/20 16:47	1
Bromobenzene	ND		1.0		ug/L			01/17/20 16:47	1
Bromoform	ND		1.0		ug/L			01/17/20 16:47	1
Bromomethane	ND		2.0		ug/L			01/17/20 16:47	1
Carbon disulfide	ND		10		ug/L			01/17/20 16:47	1
Carbon tetrachloride	ND		1.0		ug/L			01/17/20 16:47	1
Chlorobenzene	ND		1.0		ug/L			01/17/20 16:47	1
Chlorobromomethane	ND		1.0		ug/L			01/17/20 16:47	1
Chlorodibromomethane	ND		0.50		ug/L			01/17/20 16:47	1
Chloroethane	ND		2.0		ug/L			01/17/20 16:47	1
Chloroform	ND		1.0		ug/L			01/17/20 16:47	1
Chloromethane	ND		2.0		ug/L			01/17/20 16:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/17/20 16:47	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			01/17/20 16:47	1
Dichlorobromomethane	ND		0.50		ug/L			01/17/20 16:47	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/17/20 16:47	1
Ethyl ether	ND		1.0		ug/L			01/17/20 16:47	1
Ethylbenzene	ND		1.0		ug/L			01/17/20 16:47	1
Ethylene Dibromide	ND		1.0		ug/L			01/17/20 16:47	1
Hexachlorobutadiene	ND		0.40		ug/L			01/17/20 16:47	1
Isopropyl ether	ND		10		ug/L			01/17/20 16:47	1
Isopropylbenzene	ND		1.0		ug/L			01/17/20 16:47	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/17/20 16:47	1
Methylene Chloride	ND		1.0		ug/L			01/17/20 16:47	1
m-Xylene & p-Xylene	2.3		2.0		ug/L			01/17/20 16:47	1
Naphthalene	ND		5.0		ug/L			01/17/20 16:47	1
n-Butylbenzene	ND		1.0		ug/L			01/17/20 16:47	1
N-Propylbenzene	ND		1.0		ug/L			01/17/20 16:47	1
o-Xylene	ND		1.0		ug/L			01/17/20 16:47	1
sec-Butylbenzene	ND		1.0		ug/L			01/17/20 16:47	1
Styrene	ND		1.0		ug/L			01/17/20 16:47	1
Tert-amyl methyl ether	ND		5.0		ug/L			01/17/20 16:47	1
Tert-butyl ethyl ether	ND		5.0		ug/L			01/17/20 16:47	1
tert-Butylbenzene	ND		1.0		ug/L			01/17/20 16:47	1
Tetrachloroethene	ND		1.0		ug/L			01/17/20 16:47	1
Tetrahydrofuran	ND		10		ug/L			01/17/20 16:47	1
Toluene	ND		1.0		ug/L			01/17/20 16:47	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/17/20 16:47	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			01/17/20 16:47	1
Trichloroethene	ND		1.0		ug/L			01/17/20 16:47	1
Trichlorofluoromethane	ND		1.0		ug/L			01/17/20 16:47	1
Vinyl chloride	ND		1.0		ug/L			01/17/20 16:47	1
Dibromomethane	ND		1.0		ug/L			01/17/20 16:47	1

Client Sample Results

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

Job ID: 480-165242-1

Client Sample ID: REW-12-20200115

Lab Sample ID: 480-165242-6

Date Collected: 01/15/20 11:30

Matrix: Water

Date Received: 01/16/20 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		70 - 130		01/17/20 16:47	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		01/17/20 16:47	1
4-Bromofluorobenzene (Surr)	95		70 - 130		01/17/20 16:47	1

Client Sample ID: DUP-20200115

Lab Sample ID: 480-165242-7

Date Collected: 01/15/20 00:00

Matrix: Water

Date Received: 01/16/20 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			01/17/20 17:10	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/17/20 17:10	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/17/20 17:10	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/17/20 17:10	1
1,1-Dichloroethane	1.2		1.0		ug/L			01/17/20 17:10	1
1,1-Dichloroethene	ND		1.0		ug/L			01/17/20 17:10	1
1,1-Dichloropropene	ND		1.0		ug/L			01/17/20 17:10	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/17/20 17:10	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/17/20 17:10	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/17/20 17:10	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/17/20 17:10	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			01/17/20 17:10	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/17/20 17:10	1
1,2-Dichloroethane	ND		1.0		ug/L			01/17/20 17:10	1
1,2-Dichloropropane	ND		1.0		ug/L			01/17/20 17:10	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/17/20 17:10	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/17/20 17:10	1
1,3-Dichloropropane	ND		1.0		ug/L			01/17/20 17:10	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/17/20 17:10	1
1,4-Dioxane	ND		50		ug/L			01/17/20 17:10	1
2,2-Dichloropropane	ND		1.0		ug/L			01/17/20 17:10	1
2-Butanone (MEK)	ND *		10		ug/L			01/17/20 17:10	1
2-Chlorotoluene	ND		1.0		ug/L			01/17/20 17:10	1
2-Hexanone	ND		10		ug/L			01/17/20 17:10	1
4-Chlorotoluene	ND		1.0		ug/L			01/17/20 17:10	1
4-Isopropyltoluene	ND		1.0		ug/L			01/17/20 17:10	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			01/17/20 17:10	1
Acetone	ND		50		ug/L			01/17/20 17:10	1
Benzene	ND		1.0		ug/L			01/17/20 17:10	1
Bromobenzene	ND		1.0		ug/L			01/17/20 17:10	1
Bromoform	ND		1.0		ug/L			01/17/20 17:10	1
Bromomethane	ND		2.0		ug/L			01/17/20 17:10	1
Carbon disulfide	ND		10		ug/L			01/17/20 17:10	1
Carbon tetrachloride	ND		1.0		ug/L			01/17/20 17:10	1
Chlorobenzene	ND		1.0		ug/L			01/17/20 17:10	1
Chlorobromomethane	ND		1.0		ug/L			01/17/20 17:10	1
Chlorodibromomethane	ND		0.50		ug/L			01/17/20 17:10	1
Chloroethane	ND		2.0		ug/L			01/17/20 17:10	1
Chloroform	ND		1.0		ug/L			01/17/20 17:10	1
Chloromethane	ND		2.0		ug/L			01/17/20 17:10	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-165242-1

Client Sample ID: DUP-20200115

Lab Sample ID: 480-165242-7

Date Collected: 01/15/20 00:00

Matrix: Water

Date Received: 01/16/20 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	3.9		1.0		ug/L			01/17/20 17:10	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			01/17/20 17:10	1
Dichlorobromomethane	ND		0.50		ug/L			01/17/20 17:10	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/17/20 17:10	1
Ethyl ether	ND		1.0		ug/L			01/17/20 17:10	1
Ethylbenzene	ND		1.0		ug/L			01/17/20 17:10	1
Ethylene Dibromide	ND		1.0		ug/L			01/17/20 17:10	1
Hexachlorobutadiene	ND		0.40		ug/L			01/17/20 17:10	1
Isopropyl ether	ND		10		ug/L			01/17/20 17:10	1
Isopropylbenzene	ND		1.0		ug/L			01/17/20 17:10	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/17/20 17:10	1
Methylene Chloride	ND		1.0		ug/L			01/17/20 17:10	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/17/20 17:10	1
Naphthalene	ND		5.0		ug/L			01/17/20 17:10	1
n-Butylbenzene	ND		1.0		ug/L			01/17/20 17:10	1
N-Propylbenzene	ND		1.0		ug/L			01/17/20 17:10	1
o-Xylene	ND		1.0		ug/L			01/17/20 17:10	1
sec-Butylbenzene	ND		1.0		ug/L			01/17/20 17:10	1
Styrene	ND		1.0		ug/L			01/17/20 17:10	1
Tert-amyl methyl ether	ND		5.0		ug/L			01/17/20 17:10	1
Tert-butyl ethyl ether	ND		5.0		ug/L			01/17/20 17:10	1
tert-Butylbenzene	ND		1.0		ug/L			01/17/20 17:10	1
Tetrachloroethene	ND		1.0		ug/L			01/17/20 17:10	1
Tetrahydrofuran	ND		10		ug/L			01/17/20 17:10	1
Toluene	ND		1.0		ug/L			01/17/20 17:10	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/17/20 17:10	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			01/17/20 17:10	1
Trichloroethene	ND		1.0		ug/L			01/17/20 17:10	1
Trichlorofluoromethane	ND		1.0		ug/L			01/17/20 17:10	1
Vinyl chloride	13		1.0		ug/L			01/17/20 17:10	1
Dibromomethane	ND		1.0		ug/L			01/17/20 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		01/17/20 17:10	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		01/17/20 17:10	1
4-Bromofluorobenzene (Surr)	98		70 - 130		01/17/20 17:10	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-165242-8

Date Collected: 01/15/20 00:00

Matrix: Water

Date Received: 01/16/20 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			01/17/20 17:34	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/17/20 17:34	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/17/20 17:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/17/20 17:34	1
1,1-Dichloroethane	ND		1.0		ug/L			01/17/20 17:34	1
1,1-Dichloroethene	ND		1.0		ug/L			01/17/20 17:34	1
1,1-Dichloropropene	ND		1.0		ug/L			01/17/20 17:34	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-165242-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-165242-8

Date Collected: 01/15/20 00:00

Matrix: Water

Date Received: 01/16/20 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			01/17/20 17:34	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/17/20 17:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/17/20 17:34	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/17/20 17:34	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			01/17/20 17:34	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/17/20 17:34	1
1,2-Dichloroethane	ND		1.0		ug/L			01/17/20 17:34	1
1,2-Dichloropropane	ND		1.0		ug/L			01/17/20 17:34	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/17/20 17:34	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/17/20 17:34	1
1,3-Dichloropropane	ND		1.0		ug/L			01/17/20 17:34	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/17/20 17:34	1
1,4-Dioxane	ND		50		ug/L			01/17/20 17:34	1
2,2-Dichloropropane	ND		1.0		ug/L			01/17/20 17:34	1
2-Butanone (MEK)	ND	*	10		ug/L			01/17/20 17:34	1
2-Chlorotoluene	ND		1.0		ug/L			01/17/20 17:34	1
2-Hexanone	ND		10		ug/L			01/17/20 17:34	1
4-Chlorotoluene	ND		1.0		ug/L			01/17/20 17:34	1
4-Isopropyltoluene	ND		1.0		ug/L			01/17/20 17:34	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			01/17/20 17:34	1
Acetone	ND		50		ug/L			01/17/20 17:34	1
Benzene	ND		1.0		ug/L			01/17/20 17:34	1
Bromobenzene	ND		1.0		ug/L			01/17/20 17:34	1
Bromoform	ND		1.0		ug/L			01/17/20 17:34	1
Bromomethane	ND		2.0		ug/L			01/17/20 17:34	1
Carbon disulfide	ND		10		ug/L			01/17/20 17:34	1
Carbon tetrachloride	ND		1.0		ug/L			01/17/20 17:34	1
Chlorobenzene	ND		1.0		ug/L			01/17/20 17:34	1
Chlorobromomethane	ND		1.0		ug/L			01/17/20 17:34	1
Chlorodibromomethane	ND		0.50		ug/L			01/17/20 17:34	1
Chloroethane	ND		2.0		ug/L			01/17/20 17:34	1
Chloroform	ND		1.0		ug/L			01/17/20 17:34	1
Chloromethane	ND		2.0		ug/L			01/17/20 17:34	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/17/20 17:34	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			01/17/20 17:34	1
Dichlorobromomethane	ND		0.50		ug/L			01/17/20 17:34	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/17/20 17:34	1
Ethyl ether	ND		1.0		ug/L			01/17/20 17:34	1
Ethylbenzene	ND		1.0		ug/L			01/17/20 17:34	1
Ethylene Dibromide	ND		1.0		ug/L			01/17/20 17:34	1
Hexachlorobutadiene	ND		0.40		ug/L			01/17/20 17:34	1
Isopropyl ether	ND		10		ug/L			01/17/20 17:34	1
Isopropylbenzene	ND		1.0		ug/L			01/17/20 17:34	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/17/20 17:34	1
Methylene Chloride	ND		1.0		ug/L			01/17/20 17:34	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/17/20 17:34	1
Naphthalene	ND		5.0		ug/L			01/17/20 17:34	1
n-Butylbenzene	ND		1.0		ug/L			01/17/20 17:34	1
N-Propylbenzene	ND		1.0		ug/L			01/17/20 17:34	1

Eurofins TestAmerica, Buffalo

Client Sample Results

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

Job ID: 480-165242-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-165242-8

Date Collected: 01/15/20 00:00

Matrix: Water

Date Received: 01/16/20 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			01/17/20 17:34	1
sec-Butylbenzene	ND		1.0		ug/L			01/17/20 17:34	1
Styrene	ND		1.0		ug/L			01/17/20 17:34	1
Tert-amyl methyl ether	ND		5.0		ug/L			01/17/20 17:34	1
Tert-butyl ethyl ether	ND		5.0		ug/L			01/17/20 17:34	1
tert-Butylbenzene	ND		1.0		ug/L			01/17/20 17:34	1
Tetrachloroethene	ND		1.0		ug/L			01/17/20 17:34	1
Tetrahydrofuran	ND		10		ug/L			01/17/20 17:34	1
Toluene	ND		1.0		ug/L			01/17/20 17:34	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/17/20 17:34	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			01/17/20 17:34	1
Trichloroethene	ND		1.0		ug/L			01/17/20 17:34	1
Trichlorofluoromethane	ND		1.0		ug/L			01/17/20 17:34	1
Vinyl chloride	ND		1.0		ug/L			01/17/20 17:34	1
Dibromomethane	ND		1.0		ug/L			01/17/20 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		01/17/20 17:34	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		01/17/20 17:34	1
4-Bromofluorobenzene (Surr)	96		70 - 130		01/17/20 17:34	1

Surrogate Summary

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

Job ID: 480-165242-1

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)
480-165242-1	MW-267M-20200115	98	94	97
480-165242-2	MW-268S-20200115	97	92	97
480-165242-3	MW-268M-20200115	97	93	97
480-165242-4	REW-7-20200115	96	94	97
480-165242-5	REW-11-20200115	98	91	96
480-165242-6	REW-12-20200115	96	96	95
480-165242-7	DUP-20200115	97	93	98
480-165242-8	TRIP BLANK	97	92	96
LCS 480-513945/5	Lab Control Sample	97	93	97
LCS 480-514044/5	Lab Control Sample	97	93	96
LCSD 480-513945/9	Lab Control Sample Dup	98	94	98
LCSD 480-514044/6	Lab Control Sample Dup	97	91	97
MB 480-513945/7	Method Blank	97	92	98
MB 480-514044/8	Method Blank	98	95	99

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: 480-165242-1

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

Lab Sample ID: MB 480-513945/7
Matrix: Water
Analysis Batch: 513945

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			01/17/20 11:23	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/17/20 11:23	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/17/20 11:23	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/17/20 11:23	1
1,1-Dichloroethane	ND		1.0		ug/L			01/17/20 11:23	1
1,1-Dichloroethene	ND		1.0		ug/L			01/17/20 11:23	1
1,1-Dichloropropene	ND		1.0		ug/L			01/17/20 11:23	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/17/20 11:23	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/17/20 11:23	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/17/20 11:23	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/17/20 11:23	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			01/17/20 11:23	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/17/20 11:23	1
1,2-Dichloroethane	ND		1.0		ug/L			01/17/20 11:23	1
1,2-Dichloropropane	ND		1.0		ug/L			01/17/20 11:23	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/17/20 11:23	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/17/20 11:23	1
1,3-Dichloropropane	ND		1.0		ug/L			01/17/20 11:23	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/17/20 11:23	1
1,4-Dioxane	ND		50		ug/L			01/17/20 11:23	1
2,2-Dichloropropane	ND		1.0		ug/L			01/17/20 11:23	1
2-Butanone (MEK)	ND		10		ug/L			01/17/20 11:23	1
2-Chlorotoluene	ND		1.0		ug/L			01/17/20 11:23	1
2-Hexanone	ND		10		ug/L			01/17/20 11:23	1
4-Chlorotoluene	ND		1.0		ug/L			01/17/20 11:23	1
4-Isopropyltoluene	ND		1.0		ug/L			01/17/20 11:23	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			01/17/20 11:23	1
Acetone	ND		50		ug/L			01/17/20 11:23	1
Benzene	ND		1.0		ug/L			01/17/20 11:23	1
Bromobenzene	ND		1.0		ug/L			01/17/20 11:23	1
Bromoform	ND		1.0		ug/L			01/17/20 11:23	1
Bromomethane	ND		2.0		ug/L			01/17/20 11:23	1
Carbon disulfide	ND		10		ug/L			01/17/20 11:23	1
Carbon tetrachloride	ND		1.0		ug/L			01/17/20 11:23	1
Chlorobenzene	ND		1.0		ug/L			01/17/20 11:23	1
Chlorobromomethane	ND		1.0		ug/L			01/17/20 11:23	1
Chlorodibromomethane	ND		0.50		ug/L			01/17/20 11:23	1
Chloroethane	ND		2.0		ug/L			01/17/20 11:23	1
Chloroform	ND		1.0		ug/L			01/17/20 11:23	1
Chloromethane	ND		2.0		ug/L			01/17/20 11:23	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/17/20 11:23	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			01/17/20 11:23	1
Dichlorobromomethane	ND		0.50		ug/L			01/17/20 11:23	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/17/20 11:23	1
Ethyl ether	ND		1.0		ug/L			01/17/20 11:23	1
Ethylbenzene	ND		1.0		ug/L			01/17/20 11:23	1
Ethylene Dibromide	ND		1.0		ug/L			01/17/20 11:23	1
Hexachlorobutadiene	ND		0.40		ug/L			01/17/20 11:23	1

QC Sample Results

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

Job ID: 480-165242-1

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

Lab Sample ID: MB 480-513945/7
Matrix: Water
Analysis Batch: 513945

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			01/17/20 11:23	1
Isopropylbenzene	ND		1.0		ug/L			01/17/20 11:23	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/17/20 11:23	1
Methylene Chloride	ND		1.0		ug/L			01/17/20 11:23	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/17/20 11:23	1
Naphthalene	ND		5.0		ug/L			01/17/20 11:23	1
n-Butylbenzene	ND		1.0		ug/L			01/17/20 11:23	1
N-Propylbenzene	ND		1.0		ug/L			01/17/20 11:23	1
o-Xylene	ND		1.0		ug/L			01/17/20 11:23	1
sec-Butylbenzene	ND		1.0		ug/L			01/17/20 11:23	1
Styrene	ND		1.0		ug/L			01/17/20 11:23	1
Tert-amyl methyl ether	ND		5.0		ug/L			01/17/20 11:23	1
Tert-butyl ethyl ether	ND		5.0		ug/L			01/17/20 11:23	1
tert-Butylbenzene	ND		1.0		ug/L			01/17/20 11:23	1
Tetrachloroethene	ND		1.0		ug/L			01/17/20 11:23	1
Tetrahydrofuran	ND		10		ug/L			01/17/20 11:23	1
Toluene	ND		1.0		ug/L			01/17/20 11:23	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/17/20 11:23	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			01/17/20 11:23	1
Trichloroethene	ND		1.0		ug/L			01/17/20 11:23	1
Trichlorofluoromethane	ND		1.0		ug/L			01/17/20 11:23	1
Vinyl chloride	ND		1.0		ug/L			01/17/20 11:23	1
Dibromomethane	ND		1.0		ug/L			01/17/20 11:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	97		70 - 130		01/17/20 11:23	1
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		01/17/20 11:23	1
4-Bromofluorobenzene (Surr)	98		70 - 130		01/17/20 11:23	1

Lab Sample ID: LCS 480-513945/5
Matrix: Water
Analysis Batch: 513945

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	24.0		ug/L		96	70 - 130
1,1,2,2-Tetrachloroethane	25.0	26.0		ug/L		104	70 - 130
1,1,2-Trichloroethane	25.0	26.0		ug/L		104	70 - 130
1,1-Dichloroethane	25.0	27.7		ug/L		111	70 - 130
1,1-Dichloroethene	25.0	25.0		ug/L		100	70 - 130
1,1-Dichloropropene	25.0	27.1		ug/L		108	70 - 130
1,2,3-Trichlorobenzene	25.0	25.8		ug/L		103	70 - 130
1,2,3-Trichloropropane	25.0	25.3		ug/L		101	70 - 130
1,2,4-Trichlorobenzene	25.0	26.4		ug/L		106	70 - 130
1,2,4-Trimethylbenzene	25.0	26.8		ug/L		107	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	20.4		ug/L		82	70 - 130
1,2-Dichlorobenzene	25.0	26.1		ug/L		105	70 - 130
1,2-Dichloroethane	25.0	24.8		ug/L		99	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-165242-1

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

Lab Sample ID: LCS 480-513945/5

Matrix: Water

Analysis Batch: 513945

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	27.1		ug/L		108	70 - 130
1,3,5-Trimethylbenzene	25.0	26.8		ug/L		107	70 - 130
1,3-Dichlorobenzene	25.0	27.0		ug/L		108	70 - 130
1,3-Dichloropropane	25.0	25.7		ug/L		103	70 - 130
1,4-Dichlorobenzene	25.0	26.5		ug/L		106	70 - 130
1,4-Dioxane	500	472		ug/L		94	70 - 130
2,2-Dichloropropane	25.0	23.7		ug/L		95	70 - 130
2-Butanone (MEK)	125	214	*	ug/L		171	70 - 130
2-Chlorotoluene	25.0	26.6		ug/L		106	70 - 130
2-Hexanone	125	120		ug/L		96	70 - 130
4-Chlorotoluene	25.0	26.6		ug/L		106	70 - 130
4-Isopropyltoluene	25.0	27.1		ug/L		108	70 - 130
4-Methyl-2-pentanone (MIBK)	125	121		ug/L		97	70 - 130
Acetone	125	123		ug/L		99	70 - 130
Benzene	25.0	26.8		ug/L		107	70 - 130
Bromobenzene	25.0	26.7		ug/L		107	70 - 130
Bromoform	25.0	19.4		ug/L		78	70 - 130
Bromomethane	25.0	23.4		ug/L		94	70 - 130
Carbon disulfide	25.0	27.5		ug/L		110	70 - 130
Carbon tetrachloride	25.0	22.4		ug/L		90	70 - 130
Chlorobenzene	25.0	26.2		ug/L		105	70 - 130
Chlorobromomethane	25.0	26.6		ug/L		106	70 - 130
Chlorodibromomethane	25.0	21.8		ug/L		87	70 - 130
Chloroethane	25.0	23.6		ug/L		95	70 - 130
Chloroform	25.0	25.1		ug/L		100	70 - 130
Chloromethane	25.0	22.3		ug/L		89	70 - 130
cis-1,2-Dichloroethene	25.0	26.9		ug/L		108	70 - 130
cis-1,3-Dichloropropene	25.0	26.7		ug/L		107	70 - 130
Dichlorobromomethane	25.0	26.0		ug/L		104	70 - 130
Dichlorodifluoromethane	25.0	21.4		ug/L		85	70 - 130
Ethyl ether	25.0	24.8		ug/L		99	70 - 130
Ethylbenzene	25.0	26.1		ug/L		104	70 - 130
Ethylene Dibromide	25.0	26.0		ug/L		104	70 - 130
Hexachlorobutadiene	25.0	26.6		ug/L		106	70 - 130
Isopropyl ether	25.0	25.1		ug/L		100	70 - 130
Isopropylbenzene	25.0	26.9		ug/L		107	70 - 130
Methyl tert-butyl ether	25.0	25.0		ug/L		100	70 - 130
Methylene Chloride	25.0	26.0		ug/L		104	70 - 130
m-Xylene & p-Xylene	25.0	26.2		ug/L		105	70 - 130
Naphthalene	25.0	24.6		ug/L		98	70 - 130
n-Butylbenzene	25.0	26.9		ug/L		108	70 - 130
N-Propylbenzene	25.0	26.8		ug/L		107	70 - 130
o-Xylene	25.0	26.3		ug/L		105	70 - 130
sec-Butylbenzene	25.0	27.1		ug/L		108	70 - 130
Styrene	25.0	26.0		ug/L		104	70 - 130
Tert-amyl methyl ether	25.0	22.3		ug/L		89	70 - 130
Tert-butyl ethyl ether	25.0	23.3		ug/L		93	70 - 130
tert-Butylbenzene	25.0	27.8		ug/L		111	70 - 130
Tetrachloroethene	25.0	28.4		ug/L		113	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-165242-1

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

Lab Sample ID: LCS 480-513945/5

Matrix: Water

Analysis Batch: 513945

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	56.6		ug/L		113	70 - 130
Toluene	25.0	26.0		ug/L		104	70 - 130
trans-1,2-Dichloroethene	25.0	26.7		ug/L		107	70 - 130
trans-1,3-Dichloropropene	25.0	24.6		ug/L		98	70 - 130
Trichloroethene	25.0	26.5		ug/L		106	70 - 130
Trichlorofluoromethane	25.0	23.7		ug/L		95	70 - 130
Vinyl chloride	25.0	23.6		ug/L		94	70 - 130
Dibromomethane	25.0	25.8		ug/L		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 480-513945/9

Matrix: Water

Analysis Batch: 513945

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	24.9		ug/L		100	70 - 130	1	20
1,1,1-Trichloroethane	25.0	23.9		ug/L		96	70 - 130	0	20
1,1,1,2,2-Tetrachloroethane	25.0	26.2		ug/L		105	70 - 130	1	20
1,1,2-Trichloroethane	25.0	26.3		ug/L		105	70 - 130	1	20
1,1-Dichloroethane	25.0	27.0		ug/L		108	70 - 130	3	20
1,1-Dichloroethene	25.0	24.7		ug/L		99	70 - 130	1	20
1,1-Dichloropropene	25.0	26.3		ug/L		105	70 - 130	3	20
1,2,3-Trichlorobenzene	25.0	25.4		ug/L		102	70 - 130	2	20
1,2,3-Trichloropropane	25.0	24.9		ug/L		100	70 - 130	2	20
1,2,4-Trichlorobenzene	25.0	26.2		ug/L		105	70 - 130	1	20
1,2,4-Trimethylbenzene	25.0	26.6		ug/L		106	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	25.0	20.7		ug/L		83	70 - 130	1	20
1,2-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130	1	20
1,2-Dichloroethane	25.0	23.8		ug/L		95	70 - 130	4	20
1,2-Dichloropropane	25.0	26.7		ug/L		107	70 - 130	2	20
1,3,5-Trimethylbenzene	25.0	25.7		ug/L		103	70 - 130	4	20
1,3-Dichlorobenzene	25.0	26.1		ug/L		104	70 - 130	4	20
1,3-Dichloropropane	25.0	25.1		ug/L		100	70 - 130	2	20
1,4-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130	2	20
1,4-Dioxane	500	496		ug/L		99	70 - 130	5	20
2,2-Dichloropropane	25.0	22.9		ug/L		92	70 - 130	4	20
2-Butanone (MEK)	125	216	*	ug/L		173	70 - 130	1	20
2-Chlorotoluene	25.0	25.2		ug/L		101	70 - 130	5	20
2-Hexanone	125	118		ug/L		94	70 - 130	2	20
4-Chlorotoluene	25.0	26.0		ug/L		104	70 - 130	2	20
4-Isopropyltoluene	25.0	26.2		ug/L		105	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	125	119		ug/L		95	70 - 130	1	20
Acetone	125	123		ug/L		98	70 - 130	0	20
Benzene	25.0	26.4		ug/L		106	70 - 130	1	20

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-165242-1

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

Lab Sample ID: LCSD 480-513945/9

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 513945

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	3	20
Bromoform	25.0	20.1		ug/L		81	70 - 130	4	20
Bromomethane	25.0	22.2		ug/L		89	70 - 130	5	20
Carbon disulfide	25.0	26.4		ug/L		106	70 - 130	4	20
Carbon tetrachloride	25.0	22.2		ug/L		89	70 - 130	1	20
Chlorobenzene	25.0	25.3		ug/L		101	70 - 130	4	20
Chlorobromomethane	25.0	26.3		ug/L		105	70 - 130	1	20
Chlorodibromomethane	25.0	21.7		ug/L		87	70 - 130	0	20
Chloroethane	25.0	21.2		ug/L		85	70 - 130	11	20
Chloroform	25.0	24.2		ug/L		97	70 - 130	3	20
Chloromethane	25.0	21.3		ug/L		85	70 - 130	5	20
cis-1,2-Dichloroethene	25.0	27.0		ug/L		108	70 - 130	0	20
cis-1,3-Dichloropropene	25.0	26.1		ug/L		105	70 - 130	2	20
Dichlorobromomethane	25.0	26.3		ug/L		105	70 - 130	1	20
Dichlorodifluoromethane	25.0	21.2		ug/L		85	70 - 130	1	20
Ethyl ether	25.0	24.8		ug/L		99	70 - 130	0	20
Ethylbenzene	25.0	25.2		ug/L		101	70 - 130	3	20
Ethylene Dibromide	25.0	25.7		ug/L		103	70 - 130	1	20
Hexachlorobutadiene	25.0	25.4		ug/L		102	70 - 130	4	20
Isopropyl ether	25.0	24.9		ug/L		100	70 - 130	1	20
Isopropylbenzene	25.0	25.5		ug/L		102	70 - 130	5	20
Methyl tert-butyl ether	25.0	24.9		ug/L		100	70 - 130	0	20
Methylene Chloride	25.0	25.7		ug/L		103	70 - 130	1	20
m-Xylene & p-Xylene	25.0	24.9		ug/L		100	70 - 130	5	20
Naphthalene	25.0	24.2		ug/L		97	70 - 130	2	20
n-Butylbenzene	25.0	26.2		ug/L		105	70 - 130	3	20
N-Propylbenzene	25.0	25.4		ug/L		102	70 - 130	5	20
o-Xylene	25.0	25.5		ug/L		102	70 - 130	3	20
sec-Butylbenzene	25.0	26.0		ug/L		104	70 - 130	4	20
Styrene	25.0	25.8		ug/L		103	70 - 130	1	20
Tert-amyl methyl ether	25.0	22.9		ug/L		91	70 - 130	3	20
Tert-butyl ethyl ether	25.0	23.4		ug/L		94	70 - 130	0	20
tert-Butylbenzene	25.0	26.7		ug/L		107	70 - 130	4	20
Tetrachloroethene	25.0	27.4		ug/L		110	70 - 130	3	20
Tetrahydrofuran	50.0	57.7		ug/L		115	70 - 130	2	20
Toluene	25.0	25.3		ug/L		101	70 - 130	3	20
trans-1,2-Dichloroethene	25.0	25.9		ug/L		104	70 - 130	3	20
trans-1,3-Dichloropropene	25.0	24.6		ug/L		98	70 - 130	0	20
Trichloroethene	25.0	25.8		ug/L		103	70 - 130	3	20
Trichlorofluoromethane	25.0	23.2		ug/L		93	70 - 130	2	20
Vinyl chloride	25.0	22.4		ug/L		89	70 - 130	6	20
Dibromomethane	25.0	25.7		ug/L		103	70 - 130	0	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
4-Bromofluorobenzene (Surr)	98		70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-165242-1

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

Lab Sample ID: MB 480-514044/8
Matrix: Water
Analysis Batch: 514044

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			01/18/20 12:02	1
1,1,1-Trichloroethane	ND		1.0		ug/L			01/18/20 12:02	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			01/18/20 12:02	1
1,1,2-Trichloroethane	ND		1.0		ug/L			01/18/20 12:02	1
1,1-Dichloroethane	ND		1.0		ug/L			01/18/20 12:02	1
1,1-Dichloroethene	ND		1.0		ug/L			01/18/20 12:02	1
1,1-Dichloropropene	ND		1.0		ug/L			01/18/20 12:02	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			01/18/20 12:02	1
1,2,3-Trichloropropane	ND		1.0		ug/L			01/18/20 12:02	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			01/18/20 12:02	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			01/18/20 12:02	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			01/18/20 12:02	1
1,2-Dichlorobenzene	ND		1.0		ug/L			01/18/20 12:02	1
1,2-Dichloroethane	ND		1.0		ug/L			01/18/20 12:02	1
1,2-Dichloropropane	ND		1.0		ug/L			01/18/20 12:02	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			01/18/20 12:02	1
1,3-Dichlorobenzene	ND		1.0		ug/L			01/18/20 12:02	1
1,3-Dichloropropane	ND		1.0		ug/L			01/18/20 12:02	1
1,4-Dichlorobenzene	ND		1.0		ug/L			01/18/20 12:02	1
1,4-Dioxane	ND		50		ug/L			01/18/20 12:02	1
2,2-Dichloropropane	ND		1.0		ug/L			01/18/20 12:02	1
2-Butanone (MEK)	ND		10		ug/L			01/18/20 12:02	1
2-Chlorotoluene	ND		1.0		ug/L			01/18/20 12:02	1
2-Hexanone	ND		10		ug/L			01/18/20 12:02	1
4-Chlorotoluene	ND		1.0		ug/L			01/18/20 12:02	1
4-Isopropyltoluene	ND		1.0		ug/L			01/18/20 12:02	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			01/18/20 12:02	1
Acetone	ND		50		ug/L			01/18/20 12:02	1
Benzene	ND		1.0		ug/L			01/18/20 12:02	1
Bromobenzene	ND		1.0		ug/L			01/18/20 12:02	1
Bromoform	ND		1.0		ug/L			01/18/20 12:02	1
Bromomethane	ND		2.0		ug/L			01/18/20 12:02	1
Carbon disulfide	ND		10		ug/L			01/18/20 12:02	1
Carbon tetrachloride	ND		1.0		ug/L			01/18/20 12:02	1
Chlorobenzene	ND		1.0		ug/L			01/18/20 12:02	1
Chlorobromomethane	ND		1.0		ug/L			01/18/20 12:02	1
Chlorodibromomethane	ND		0.50		ug/L			01/18/20 12:02	1
Chloroethane	ND		2.0		ug/L			01/18/20 12:02	1
Chloroform	ND		1.0		ug/L			01/18/20 12:02	1
Chloromethane	ND		2.0		ug/L			01/18/20 12:02	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			01/18/20 12:02	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			01/18/20 12:02	1
Dichlorobromomethane	ND		0.50		ug/L			01/18/20 12:02	1
Dichlorodifluoromethane	ND		1.0		ug/L			01/18/20 12:02	1
Ethyl ether	ND		1.0		ug/L			01/18/20 12:02	1
Ethylbenzene	ND		1.0		ug/L			01/18/20 12:02	1
Ethylene Dibromide	ND		1.0		ug/L			01/18/20 12:02	1
Hexachlorobutadiene	ND		0.40		ug/L			01/18/20 12:02	1

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-165242-1

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

Lab Sample ID: MB 480-514044/8
Matrix: Water
Analysis Batch: 514044

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			01/18/20 12:02	1
Isopropylbenzene	ND		1.0		ug/L			01/18/20 12:02	1
Methyl tert-butyl ether	ND		1.0		ug/L			01/18/20 12:02	1
Methylene Chloride	ND		1.0		ug/L			01/18/20 12:02	1
m-Xylene & p-Xylene	ND		2.0		ug/L			01/18/20 12:02	1
Naphthalene	ND		5.0		ug/L			01/18/20 12:02	1
n-Butylbenzene	ND		1.0		ug/L			01/18/20 12:02	1
N-Propylbenzene	ND		1.0		ug/L			01/18/20 12:02	1
o-Xylene	ND		1.0		ug/L			01/18/20 12:02	1
sec-Butylbenzene	ND		1.0		ug/L			01/18/20 12:02	1
Styrene	ND		1.0		ug/L			01/18/20 12:02	1
Tert-amyl methyl ether	ND		5.0		ug/L			01/18/20 12:02	1
Tert-butyl ethyl ether	ND		5.0		ug/L			01/18/20 12:02	1
tert-Butylbenzene	ND		1.0		ug/L			01/18/20 12:02	1
Tetrachloroethene	ND		1.0		ug/L			01/18/20 12:02	1
Tetrahydrofuran	ND		10		ug/L			01/18/20 12:02	1
Toluene	ND		1.0		ug/L			01/18/20 12:02	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			01/18/20 12:02	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			01/18/20 12:02	1
Trichloroethene	ND		1.0		ug/L			01/18/20 12:02	1
Trichlorofluoromethane	ND		1.0		ug/L			01/18/20 12:02	1
Vinyl chloride	ND		1.0		ug/L			01/18/20 12:02	1
Dibromomethane	ND		1.0		ug/L			01/18/20 12:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		70 - 130		01/18/20 12:02	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		01/18/20 12:02	1
4-Bromofluorobenzene (Surr)	99		70 - 130		01/18/20 12:02	1

Lab Sample ID: LCS 480-514044/5
Matrix: Water
Analysis Batch: 514044

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	24.6		ug/L		98	70 - 130
1,1,1-Trichloroethane	25.0	24.2		ug/L		97	70 - 130
1,1,2,2-Tetrachloroethane	25.0	26.7		ug/L		107	70 - 130
1,1,2-Trichloroethane	25.0	25.6		ug/L		102	70 - 130
1,1-Dichloroethane	25.0	27.8		ug/L		111	70 - 130
1,1-Dichloroethene	25.0	24.1		ug/L		96	70 - 130
1,1-Dichloropropene	25.0	25.6		ug/L		102	70 - 130
1,2,3-Trichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,2,3-Trichloropropane	25.0	25.5		ug/L		102	70 - 130
1,2,4-Trichlorobenzene	25.0	26.7		ug/L		107	70 - 130
1,2,4-Trimethylbenzene	25.0	27.2		ug/L		109	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	21.5		ug/L		86	70 - 130
1,2-Dichlorobenzene	25.0	26.6		ug/L		106	70 - 130
1,2-Dichloroethane	25.0	24.2		ug/L		97	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-165242-1

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

Lab Sample ID: LCS 480-514044/5

Matrix: Water

Analysis Batch: 514044

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	27.2		ug/L		109	70 - 130
1,3,5-Trimethylbenzene	25.0	26.2		ug/L		105	70 - 130
1,3-Dichlorobenzene	25.0	26.4		ug/L		105	70 - 130
1,3-Dichloropropane	25.0	25.3		ug/L		101	70 - 130
1,4-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
1,4-Dioxane	500	476		ug/L		95	70 - 130
2,2-Dichloropropane	25.0	22.8		ug/L		91	70 - 130
2-Butanone (MEK)	125	219	*	ug/L		175	70 - 130
2-Chlorotoluene	25.0	26.2		ug/L		105	70 - 130
2-Hexanone	125	117		ug/L		93	70 - 130
4-Chlorotoluene	25.0	26.5		ug/L		106	70 - 130
4-Isopropyltoluene	25.0	26.2		ug/L		105	70 - 130
4-Methyl-2-pentanone (MIBK)	125	119		ug/L		95	70 - 130
Acetone	125	121		ug/L		97	70 - 130
Benzene	25.0	26.3		ug/L		105	70 - 130
Bromobenzene	25.0	26.2		ug/L		105	70 - 130
Bromoform	25.0	20.3		ug/L		81	70 - 130
Bromomethane	25.0	24.6		ug/L		98	70 - 130
Carbon disulfide	25.0	26.4		ug/L		106	70 - 130
Carbon tetrachloride	25.0	21.9		ug/L		88	70 - 130
Chlorobenzene	25.0	25.8		ug/L		103	70 - 130
Chlorobromomethane	25.0	26.6		ug/L		106	70 - 130
Chlorodibromomethane	25.0	22.1		ug/L		89	70 - 130
Chloroethane	25.0	24.0		ug/L		96	70 - 130
Chloroform	25.0	25.0		ug/L		100	70 - 130
Chloromethane	25.0	22.6		ug/L		90	70 - 130
cis-1,2-Dichloroethene	25.0	27.2		ug/L		109	70 - 130
cis-1,3-Dichloropropene	25.0	25.8		ug/L		103	70 - 130
Dichlorobromomethane	25.0	26.3		ug/L		105	70 - 130
Dichlorodifluoromethane	25.0	19.6		ug/L		78	70 - 130
Ethyl ether	25.0	24.8		ug/L		99	70 - 130
Ethylbenzene	25.0	25.4		ug/L		102	70 - 130
Ethylene Dibromide	25.0	26.0		ug/L		104	70 - 130
Hexachlorobutadiene	25.0	26.1		ug/L		104	70 - 130
Isopropyl ether	25.0	25.6		ug/L		103	70 - 130
Isopropylbenzene	25.0	26.0		ug/L		104	70 - 130
Methyl tert-butyl ether	25.0	25.0		ug/L		100	70 - 130
Methylene Chloride	25.0	25.8		ug/L		103	70 - 130
m-Xylene & p-Xylene	25.0	25.4		ug/L		102	70 - 130
Naphthalene	25.0	24.4		ug/L		98	70 - 130
n-Butylbenzene	25.0	26.3		ug/L		105	70 - 130
N-Propylbenzene	25.0	26.2		ug/L		105	70 - 130
o-Xylene	25.0	25.7		ug/L		103	70 - 130
sec-Butylbenzene	25.0	26.2		ug/L		105	70 - 130
Styrene	25.0	25.7		ug/L		103	70 - 130
Tert-amyl methyl ether	25.0	22.5		ug/L		90	70 - 130
Tert-butyl ethyl ether	25.0	23.8		ug/L		95	70 - 130
tert-Butylbenzene	25.0	27.1		ug/L		109	70 - 130
Tetrachloroethene	25.0	26.9		ug/L		107	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-165242-1

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

Lab Sample ID: LCS 480-514044/5

Matrix: Water

Analysis Batch: 514044

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	56.1		ug/L		112	70 - 130
Toluene	25.0	25.8		ug/L		103	70 - 130
trans-1,2-Dichloroethene	25.0	26.4		ug/L		106	70 - 130
trans-1,3-Dichloropropene	25.0	24.4		ug/L		98	70 - 130
Trichloroethene	25.0	25.7		ug/L		103	70 - 130
Trichlorofluoromethane	25.0	23.2		ug/L		93	70 - 130
Vinyl chloride	25.0	22.9		ug/L		92	70 - 130
Dibromomethane	25.0	26.0		ug/L		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	93		70 - 130
4-Bromofluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 480-514044/6

Matrix: Water

Analysis Batch: 514044

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	24.6		ug/L		98	70 - 130	0	20
1,1,1-Trichloroethane	25.0	22.9		ug/L		91	70 - 130	6	20
1,1,1,2-Tetrachloroethane	25.0	26.8		ug/L		107	70 - 130	0	20
1,1,2-Trichloroethane	25.0	25.8		ug/L		103	70 - 130	1	20
1,1-Dichloroethane	25.0	26.3		ug/L		105	70 - 130	5	20
1,1-Dichloroethene	25.0	22.8		ug/L		91	70 - 130	5	20
1,1-Dichloropropene	25.0	24.8		ug/L		99	70 - 130	3	20
1,2,3-Trichlorobenzene	25.0	25.9		ug/L		104	70 - 130	0	20
1,2,3-Trichloropropane	25.0	24.5		ug/L		98	70 - 130	4	20
1,2,4-Trichlorobenzene	25.0	26.2		ug/L		105	70 - 130	2	20
1,2,4-Trimethylbenzene	25.0	26.1		ug/L		105	70 - 130	4	20
1,2-Dibromo-3-Chloropropane	25.0	22.4		ug/L		90	70 - 130	4	20
1,2-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130	2	20
1,2-Dichloroethane	25.0	23.7		ug/L		95	70 - 130	2	20
1,2-Dichloropropane	25.0	26.2		ug/L		105	70 - 130	3	20
1,3,5-Trimethylbenzene	25.0	25.4		ug/L		102	70 - 130	3	20
1,3-Dichlorobenzene	25.0	26.2		ug/L		105	70 - 130	1	20
1,3-Dichloropropane	25.0	24.9		ug/L		99	70 - 130	2	20
1,4-Dichlorobenzene	25.0	25.8		ug/L		103	70 - 130	2	20
1,4-Dioxane	500	466		ug/L		93	70 - 130	2	20
2,2-Dichloropropane	25.0	22.5		ug/L		90	70 - 130	1	20
2-Butanone (MEK)	125	214	*	ug/L		171	70 - 130	2	20
2-Chlorotoluene	25.0	26.1		ug/L		104	70 - 130	1	20
2-Hexanone	125	117		ug/L		94	70 - 130	0	20
4-Chlorotoluene	25.0	25.3		ug/L		101	70 - 130	5	20
4-Isopropyltoluene	25.0	25.7		ug/L		103	70 - 130	2	20
4-Methyl-2-pentanone (MIBK)	125	117		ug/L		94	70 - 130	2	20
Acetone	125	116		ug/L		93	70 - 130	4	20
Benzene	25.0	25.4		ug/L		102	70 - 130	3	20

Eurofins TestAmerica, Buffalo

QC Sample Results

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

Job ID: 480-165242-1

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

Lab Sample ID: LCSD 480-514044/6
Matrix: Water
Analysis Batch: 514044

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	25.7		ug/L		103	70 - 130	2	20
Bromoform	25.0	21.1		ug/L		84	70 - 130	4	20
Bromomethane	25.0	23.8		ug/L		95	70 - 130	3	20
Carbon disulfide	25.0	25.3		ug/L		101	70 - 130	4	20
Carbon tetrachloride	25.0	21.0		ug/L		84	70 - 130	4	20
Chlorobenzene	25.0	25.5		ug/L		102	70 - 130	1	20
Chlorobromomethane	25.0	26.2		ug/L		105	70 - 130	2	20
Chlorodibromomethane	25.0	22.9		ug/L		92	70 - 130	3	20
Chloroethane	25.0	22.9		ug/L		92	70 - 130	5	20
Chloroform	25.0	24.0		ug/L		96	70 - 130	4	20
Chloromethane	25.0	20.0		ug/L		80	70 - 130	12	20
cis-1,2-Dichloroethene	25.0	26.1		ug/L		104	70 - 130	4	20
cis-1,3-Dichloropropene	25.0	25.7		ug/L		103	70 - 130	1	20
Dichlorobromomethane	25.0	25.9		ug/L		104	70 - 130	1	20
Dichlorodifluoromethane	25.0	18.1		ug/L		72	70 - 130	8	20
Ethyl ether	25.0	24.0		ug/L		96	70 - 130	3	20
Ethylbenzene	25.0	24.7		ug/L		99	70 - 130	3	20
Ethylene Dibromide	25.0	25.2		ug/L		101	70 - 130	3	20
Hexachlorobutadiene	25.0	25.2		ug/L		101	70 - 130	3	20
Isopropyl ether	25.0	24.7		ug/L		99	70 - 130	4	20
Isopropylbenzene	25.0	25.1		ug/L		101	70 - 130	3	20
Methyl tert-butyl ether	25.0	24.2		ug/L		97	70 - 130	3	20
Methylene Chloride	25.0	25.1		ug/L		100	70 - 130	3	20
m-Xylene & p-Xylene	25.0	24.7		ug/L		99	70 - 130	3	20
Naphthalene	25.0	24.3		ug/L		97	70 - 130	1	20
n-Butylbenzene	25.0	25.5		ug/L		102	70 - 130	3	20
N-Propylbenzene	25.0	25.1		ug/L		101	70 - 130	4	20
o-Xylene	25.0	25.3		ug/L		101	70 - 130	2	20
sec-Butylbenzene	25.0	25.5		ug/L		102	70 - 130	3	20
Styrene	25.0	25.0		ug/L		100	70 - 130	3	20
Tert-amyl methyl ether	25.0	23.0		ug/L		92	70 - 130	2	20
Tert-butyl ethyl ether	25.0	23.3		ug/L		93	70 - 130	2	20
tert-Butylbenzene	25.0	25.8		ug/L		103	70 - 130	5	20
Tetrachloroethene	25.0	26.4		ug/L		106	70 - 130	2	20
Tetrahydrofuran	50.0	56.1		ug/L		112	70 - 130	0	20
Toluene	25.0	24.7		ug/L		99	70 - 130	4	20
trans-1,2-Dichloroethene	25.0	24.7		ug/L		99	70 - 130	7	20
trans-1,3-Dichloropropene	25.0	24.3		ug/L		97	70 - 130	0	20
Trichloroethene	25.0	24.8		ug/L		99	70 - 130	4	20
Trichlorofluoromethane	25.0	22.1		ug/L		88	70 - 130	5	20
Vinyl chloride	25.0	21.3		ug/L		85	70 - 130	7	20
Dibromomethane	25.0	25.1		ug/L		101	70 - 130	3	20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	91		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130

QC Sample Results

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

Job ID: 480-165242-1

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

Lab Sample ID: MB 480-514658/4
Matrix: Water
Analysis Batch: 514658

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			01/22/20 16:35	1
TOC Result 2	ND		1.0		mg/L			01/22/20 16:35	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			01/22/20 16:35	1

Lab Sample ID: LCS 480-514658/5
Matrix: Water
Analysis Batch: 514658

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	57.2		mg/L		95	90 - 110
TOC Result 2	60.0	58.8		mg/L		98	90 - 110
Total Organic Carbon - Duplicates	60.0	58.0		mg/L		97	90 - 110

Lab Sample ID: 480-165242-3 MS
Matrix: Water
Analysis Batch: 514658

Client Sample ID: MW-268M-20200115
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	2.3		22.7	25.9		mg/L		104	54 - 131
TOC Result 2	2.2		22.7	26.2		mg/L		105	54 - 131
Total Organic Carbon - Duplicates	2.3		22.7	26.1		mg/L		105	54 - 131

Lab Sample ID: MB 480-514901/4
Matrix: Water
Analysis Batch: 514901

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			01/23/20 16:28	1
TOC Result 2	ND		1.0		mg/L			01/23/20 16:28	1
Total Organic Carbon - Duplicates	ND		1.0		mg/L			01/23/20 16:28	1

Lab Sample ID: LCS 480-514901/5
Matrix: Water
Analysis Batch: 514901

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	59.9		mg/L		100	90 - 110
TOC Result 2	60.0	61.8		mg/L		103	90 - 110
Total Organic Carbon - Duplicates	60.0	60.8		mg/L		101	90 - 110

QC Association Summary

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

Job ID: 480-165242-1

GC/MS VOA

Analysis Batch: 513945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165242-1	MW-267M-20200115	Total/NA	Water	8260C	
480-165242-2	MW-268S-20200115	Total/NA	Water	8260C	
480-165242-4	REW-7-20200115	Total/NA	Water	8260C	
480-165242-5	REW-11-20200115	Total/NA	Water	8260C	
480-165242-6	REW-12-20200115	Total/NA	Water	8260C	
480-165242-7	DUP-20200115	Total/NA	Water	8260C	
480-165242-8	TRIP BLANK	Total/NA	Water	8260C	
MB 480-513945/7	Method Blank	Total/NA	Water	8260C	
LCS 480-513945/5	Lab Control Sample	Total/NA	Water	8260C	
LCS 480-513945/9	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 514044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165242-3	MW-268M-20200115	Total/NA	Water	8260C	
MB 480-514044/8	Method Blank	Total/NA	Water	8260C	
LCS 480-514044/5	Lab Control Sample	Total/NA	Water	8260C	
LCS 480-514044/6	Lab Control Sample Dup	Total/NA	Water	8260C	

General Chemistry

Analysis Batch: 514658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165242-3	MW-268M-20200115	Total/NA	Water	9060A	
MB 480-514658/4	Method Blank	Total/NA	Water	9060A	
LCS 480-514658/5	Lab Control Sample	Total/NA	Water	9060A	
480-165242-3 MS	MW-268M-20200115	Total/NA	Water	9060A	

Analysis Batch: 514901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165242-2	MW-268S-20200115	Total/NA	Water	9060A	
MB 480-514901/4	Method Blank	Total/NA	Water	9060A	
LCS 480-514901/5	Lab Control Sample	Total/NA	Water	9060A	

Lab Chronicle

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

Job ID: 480-165242-1

Client Sample ID: MW-267M-20200115

Lab Sample ID: 480-165242-1

Date Collected: 01/15/20 10:15

Matrix: Water

Date Received: 01/16/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	513945	01/17/20 14:48	OMI	TAL BUF

Client Sample ID: MW-268S-20200115

Lab Sample ID: 480-165242-2

Date Collected: 01/15/20 08:00

Matrix: Water

Date Received: 01/16/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	513945	01/17/20 15:12	OMI	TAL BUF
Total/NA	Analysis	9060A		100	514901	01/24/20 00:58	CLA	TAL BUF

Client Sample ID: MW-268M-20200115

Lab Sample ID: 480-165242-3

Date Collected: 01/15/20 08:45

Matrix: Water

Date Received: 01/16/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	514044	01/18/20 12:59	RJF	TAL BUF
Total/NA	Analysis	9060A		1	514658	01/22/20 21:36	CLA	TAL BUF

Client Sample ID: REW-7-20200115

Lab Sample ID: 480-165242-4

Date Collected: 01/15/20 10:50

Matrix: Water

Date Received: 01/16/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	513945	01/17/20 15:59	OMI	TAL BUF

Client Sample ID: REW-11-20200115

Lab Sample ID: 480-165242-5

Date Collected: 01/15/20 09:30

Matrix: Water

Date Received: 01/16/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	513945	01/17/20 16:23	OMI	TAL BUF

Client Sample ID: REW-12-20200115

Lab Sample ID: 480-165242-6

Date Collected: 01/15/20 11:30

Matrix: Water

Date Received: 01/16/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	513945	01/17/20 16:47	OMI	TAL BUF

Client Sample ID: DUP-20200115

Lab Sample ID: 480-165242-7

Date Collected: 01/15/20 00:00

Matrix: Water

Date Received: 01/16/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	513945	01/17/20 17:10	OMI	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

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

Job ID: 480-165242-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-165242-8

Date Collected: 01/15/20 00:00

Matrix: Water

Date Received: 01/16/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	513945	01/17/20 17:34	OMI	TAL BUF

Laboratory References:

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

- 1
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Accreditation/Certification Summary

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

Job ID: 480-165242-1

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)	03-31-20 *
Georgia (DW)	State	956	03-31-20 *
Illinois	NELAP	200003	09-30-19 *
Iowa	State	374	02-28-21
Kansas	NELAP	E-10187	01-31-20
Kentucky (DW)	State	90029	12-31-20 *
Kentucky (UST)	State	30	03-31-20 *
Kentucky (WW)	State	KY90029	12-31-20
Louisiana	NELAP	02031	06-30-20
Maine	State	NY00044	12-04-20
Maryland	State	294	03-31-20 *
Massachusetts	State	M-NY044	06-30-20
Michigan	State	9937	03-31-20 *
Minnesota	NELAP	1524384	12-31-20
New Hampshire	NELAP	2337	11-17-19 *
New Jersey	NELAP	NY455	06-30-20
New York	NELAP	10026	04-01-20 *
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	02-10-20 *
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: 480-165242-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GC/MS)	MA DEP	TAL BUF
9060A	Organic Carbon, Total (TOC)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

MA DEP = Massachusetts Department Of Environmental Protection

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

Laboratory References:

TAL BUF = 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: 480-165242-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-165242-1	MW-267M-20200115	Water	01/15/20 10:15	01/16/20 08:00	
480-165242-2	MW-268S-20200115	Water	01/15/20 08:00	01/16/20 08:00	
480-165242-3	MW-268M-20200115	Water	01/15/20 08:45	01/16/20 08:00	
480-165242-4	REW-7-20200115	Water	01/15/20 10:50	01/16/20 08:00	
480-165242-5	REW-11-20200115	Water	01/15/20 09:30	01/16/20 08:00	
480-165242-6	REW-12-20200115	Water	01/15/20 11:30	01/16/20 08:00	
480-165242-7	DUP-20200115	Water	01/15/20 00:00	01/16/20 08:00	
480-165242-8	TRIP BLANK	Water	01/15/20 00:00	01/16/20 08:00	

Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 480-165242-1

Login Number: 165242

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Harper, Marcus D

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	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

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

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

TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

Client Information:

Client Contact: *Vicki Parra*
 Company: *Innovative Engineers Solutions Inc*
 Address: *37 Pearl St*
 City: *Braintree*
 State and Zip: *MA 02184*
 Client's Phone: *508-668-0033*
 Client's Contact Email: *v.parra@innovative.com*
 Client's Project Name/Number: *Rantheon Wayland*
 Sample Collection Site Name & Location: *Wayland MA*

Sample Collector: *Dany Soria*
 Sample Collector's Phone: *508-404-3196*

Lab PM: _____
 E-Mail: _____

Lab COC Barcode Label

COC No: **41364**

Page: _____ of _____
 Job #: _____

Analysis Requested

Preservation Codes:
 A - Hydrochloric Acid
 B - Sodium Hydroxide
 J - Deionized Water
 M - Hexane
 N - No Preservative
 P - Sodium Sulfate
 Q - Sodium Sulfite
 R - Sodium Thiosulfate
 S - Sulfuric Acid
 Z - other (specify)



480-165242 Chain of Custody

Lab Programs:
 GW/ST
 CT RSR
 DEP Form
 EDD Required
 NPDES

SUBCONTRACT POLICY:
 Unless you provide instructions to the contrary, or specify which sub-contract lab are or are not to be used, you agree in advance to permit Test America to use certified, subcontract labs, without any additional notification made by us, as necessary to fulfill your work order.

Total Number of Containers: _____

Special Instructions & Notes:
GW-3 Requirements

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	Chain of Custody
MA-267M - 20200115	11/5/20	1015	C	W			207
MA-268F - 20200115	11/5/20	0800	C	W			20906
MA-268M - 20200115	11/5/20	0845	C	W			20906
REW-7 - 20200105	11/5/20	1050	C	W			AA
REW-11 - 20200105	11/5/20	0930	C	W			AA
REW-12 - 20200105	11/5/20	1130	C	W			AA
Dup	11/5/20	-	C	W			AA
Tap Blank	-	-	-	W			AA

Possible Hazard Identification (please check off each that may apply):
 Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown
 Radiological
 X=Waste (non-water) Z=Other:

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

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

Relinquished by: *[Signature]* Company: *IXSI*
 Relinquished by: *[Signature]* Company: *IXSI*
 Relinquished by: *[Signature]* Company: *IXSI*

Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks: *#1-217*

