

**Environmental  
Resources  
Management**

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<http://www.erm.com>



3 May 2012

Mr. Robert Schelmerdeine  
Wayland Meadows Development Inc.  
2 Washington Street  
Foxboro, MA 02035

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

Dear Mr. Schelmerdeine:

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

Innovative Engineering Solutions, Inc. collected groundwater samples from one well (MW-264M) within the boundaries of your property on 3 April 2011. The sample was submitted to TestAmerica Laboratories, Inc. of Westfield, Massachusetts. Analytical results are attached to this letter. These analytical data will be provided to the Massachusetts Department of Environmental Protection in the next required MCP submittal.

Raytheon has implemented the Public Involvement Process in accordance with 310 CMR 40.1405. Documents pertaining to the Site can be found at the Board of Health, the Wayland Public Library Public Involvement Plan files, or at [www.ermne.com](http://www.ermne.com) (username = raytheon, password = wayland).

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

Sincerely,



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



Jason D. Flattery, P.E.  
*Project Manager*

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

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



### NOTICE OF ENVIRONMENTAL SAMPLING

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

**BWSC 123**

This Notice is Related to  
Release Tracking Number

3

13302

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

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

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

1. Name: Wayland Meadows Limited Partnership  
2. Street Address: 145 Rosemary Street  
City/Town: Needham Zip Code: 02494

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

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

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

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

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

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

3. Description of property where sampling will be/has been conducted:

- residential    commercial    industrial    school/playground    Other \_\_\_\_\_  
(specify)

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

Collection of groundwater samples from existing monitoring wells.

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

Contact Name: Louis J. Burkhardt  
Street Address: 880 Technology Park Drive, T-3033  
City/Town: Billerica Zip Code: 01821  
Telephone: (978) 436-8238 Email: louis\_j\_burkhardt@raytheon.com

## **NOTICE OF ENVIRONMENTAL SAMPLING**

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

### MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

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

### THE PERSON(S) PROVIDING THIS NOTICE

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

### PURPOSE OF THIS NOTICE

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

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

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

### FOR MORE INFORMATION

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

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.  
TestAmerica Westfield  
Westfield Executive Park  
53 Southampton Road  
Westfield, MA 01085  
Tel: (413)572-4000

TestAmerica Job ID: 360-39842-1  
Client Project/Site: IDS Wayland

For:  
Innovative Engineering Solutions, Inc  
25 Spring Street  
Walpole, Massachusetts 02081

Attn: Vicki Pariyar



Authorized for release by:  
4/11/2012 1:59:45 PM  
James Wickham  
Technology Manager  
[jamie.wickham@testamericainc.com](mailto:jamie.wickham@testamericainc.com)  
Designee for  
Becky Mason  
Project Manager II  
[becky.mason@testamericainc.com](mailto:becky.mason@testamericainc.com)

**NOTE: Only Sample MW-264M was collected from the Wayland Meadows property. Other samples have been grayed out for ease of review.**

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

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

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



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

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## MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Westfield** Project #: **360-39842-1**  
 Project Location: **IDS Wayland** RTN:

**This form provides certifications for the following data set: list Laboratory Sample ID Number(s):**  
**360-39842-(1-27)**

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

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

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

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

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

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

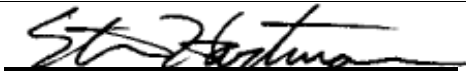
<b>G</b>	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <sup>1</sup>
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**Data User Note:** Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350

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

<sup>1</sup> All negative responses must be addressed in an attached laboratory narrative.

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

Signature:  Position: Laboratory Director  
 Printed Name: Steven C. Hartmann Date: 4/11/12 13:56

This form has been electronically signed and approved



# Case Narrative

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

TestAmerica Job ID: 360-39842-1

**Job ID: 360-39842-1**

**Laboratory: TestAmerica Westfield**

## Narrative

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

TestAmerica's Reporting Limits (RLs) for this report may not always meet client specified method reporting limits due to various reasons such as methodology, dilutions, matrix or moisture content (soils). TestAmerica's pivot table EDD documents which compound(s) exceed certain regulatory standards. If not included with your deliverables, please contact your Project Manager about the availability of this EDD for your report.

## Receipt

The samples were received on 04/04/12; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.6°C.

Note: All samples that require thermal preservation are considered acceptable if the arrival temperature is within the method's specified temperature range or for general analysis, ranging from 6°C to just above the freezing temperature of water. Samples that are hand delivered, immediately following collection, may not meet these criteria; however, they will be considered acceptable according to NELAC and State standards, if there is evidence that the chilling process has begun, such as stored and transported to the laboratory on ice.

## GC/MS VOA

Method 8260C: For batch 89257 and 89287, the calibration curve uses quadratic regressions for Bromoform, 1,2-Dibromo-3-Chloropropane as allowed by the method.

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 89257 exceeded control limits for several compounds. The data is flagged accordingly. Please reference the QC report for details.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 89257 were outside control limits for a few compounds. The data is flagged accordingly. Please reference the report for details

Method 8260C: For batch 89257, the following samples were diluted due to the abundance of target analytes: IW-5 (360-39842-2), MW-261S (360-39842-4), MW-266Mb (360-39842-10), MW-267M (360-39842-12), MW--267S (360-39842-11). Elevated reporting limits (RLs) are provided.

Method 8260C: The laboratory control sample (LCS) and the laboratory control sample duplicate (LCSD) for batch 89287 exceeded control limits for several compounds. The data is flagged accordingly. Please reference the QC report for details.

Method 8260C: For batch 98287, the following sample(s) was diluted due to the abundance of target analytes: DupX1 (360-39842-24), DupX3 (360-39842-26), MW-265M (360-39842-7), MW-268M (360-39842-13), MW-551 (360-39842-15), MW-552 (360-39842-16), MW-553 (360-39842-17), MW-561 (360-39842-19), MW-562 (360-39842-20), REW-1 (360-39842-21), REW-5 (360-39842-23). Elevated reporting limits (RLs) are provided.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 89287 were outside control limits for a few compounds. The data is flagged accordingly. Please reference the report for details

No other analytical or quality issues were noted.



Only Sample MW-264M was collected from the Wayland Meadows property. Other samples have been grayed out for ease of review.

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**Client Sample ID: IW-4** **Lab Sample ID: 360-39842-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	3.4		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.3		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	15		0.50		ug/L	1		8260C	Total/NA

**Client Sample ID: IW-5** **Lab Sample ID: 360-39842-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	820		50		ug/L	50		8260C	Total/NA
Trichloroethene	1500		50		ug/L	50		8260C	Total/NA
Vinyl chloride	99		25		ug/L	50		8260C	Total/NA

**Client Sample ID: IW-15** **Lab Sample ID: 360-39842-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.1		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	8.4		1.0		ug/L	1		8260C	Total/NA
Tetrachloroethene	1.5		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	13		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	49		0.50		ug/L	1		8260C	Total/NA

**Client Sample ID: MW-261S** **Lab Sample ID: 360-39842-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	150000	*	25000		ug/L	500		8260C	Total/NA
cis-1,2-Dichloroethene	810		500		ug/L	500		8260C	Total/NA

**Client Sample ID: MW-264M** **Lab Sample ID: 360-39842-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	13		1.0		ug/L	1		8260C	Total/NA
Tetrachloroethene	5.7		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	24		1.0		ug/L	1		8260C	Total/NA

**Client Sample ID: MW-265S** **Lab Sample ID: 360-39842-6**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	390	*	50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	44		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	6.8		0.50		ug/L	1		8260C	Total/NA

**Client Sample ID: MW-265M** **Lab Sample ID: 360-39842-7**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.3		1.0		ug/L	1		8260C	Total/NA
1,1-Dichloroethene	1.2		1.0		ug/L	1		8260C	Total/NA
Tetrahydrofuran	11		10		ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	2.6		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	30		0.50		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene - DL	490		10		ug/L	10		8260C	Total/NA

**Client Sample ID: MW-265D** **Lab Sample ID: 360-39842-8**

No Detections									
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# Detection Summary

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

TestAmerica Job ID: 360-39842-1

## Client Sample ID: MW-266Ma

Lab Sample ID: 360-39842-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.8		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	13		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-266Mb

Lab Sample ID: 360-39842-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	210		10		ug/L	10		8260C	Total/NA
Tetrachloroethene	15		10		ug/L	10		8260C	Total/NA
Trichloroethene	77		10		ug/L	10		8260C	Total/NA
Vinyl chloride	28		5.0		ug/L	10		8260C	Total/NA

## Client Sample ID: MW--267S

Lab Sample ID: 360-39842-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	78		10		ug/L	10		8260C	Total/NA
Tetrachloroethene	12		10		ug/L	10		8260C	Total/NA
Trichloroethene	470		10		ug/L	10		8260C	Total/NA

## Client Sample ID: MW-267M

Lab Sample ID: 360-39842-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	280		10		ug/L	10		8260C	Total/NA
Trichloroethene	170		10		ug/L	10		8260C	Total/NA
Vinyl chloride	15		5.0		ug/L	10		8260C	Total/NA

## Client Sample ID: MW-268M

Lab Sample ID: 360-39842-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2600		100		ug/L	100		8260C	Total/NA
Trichloroethene	1300		100		ug/L	100		8260C	Total/NA
Vinyl chloride	120		50		ug/L	100		8260C	Total/NA

## Client Sample ID: MW-268D

Lab Sample ID: 360-39842-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	10		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	8.1		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-551

Lab Sample ID: 360-39842-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	45000	*	10000		ug/L	200		8260C	Total/NA

## Client Sample ID: MW-552

Lab Sample ID: 360-39842-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	38000	*	5000		ug/L	100		8260C	Total/NA
cis-1,2-Dichloroethene	2100		100		ug/L	100		8260C	Total/NA
Trichloroethene	130		100		ug/L	100		8260C	Total/NA

## Client Sample ID: MW-553

Lab Sample ID: 360-39842-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
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# Detection Summary

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

TestAmerica Job ID: 360-39842-1

## Client Sample ID: MW-553 (Continued)

Lab Sample ID: 360-39842-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	74000	*	13000		ug/L	250		8260C	Total/NA
cis-1,2-Dichloroethene	390		250		ug/L	250		8260C	Total/NA

## Client Sample ID: MW-560

Lab Sample ID: 360-39842-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.7		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	3.2		1.0		ug/L	1		8260C	Total/NA
Vinyl chloride	0.60		0.50		ug/L	1		8260C	Total/NA

## Client Sample ID: MW-561

Lab Sample ID: 360-39842-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1700		100		ug/L	100		8260C	Total/NA
Tetrachloroethene	170		100		ug/L	100		8260C	Total/NA
Trichloroethene	3100		100		ug/L	100		8260C	Total/NA
Vinyl chloride	160		50		ug/L	100		8260C	Total/NA

## Client Sample ID: MW-562

Lab Sample ID: 360-39842-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	30000	*	5000		ug/L	100		8260C	Total/NA
cis-1,2-Dichloroethene	300		100		ug/L	100		8260C	Total/NA
Vinyl chloride	200		50		ug/L	100		8260C	Total/NA

## Client Sample ID: REW-1

Lab Sample ID: 360-39842-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	37000	*	5000		ug/L	100		8260C	Total/NA
cis-1,2-Dichloroethene	390		100		ug/L	100		8260C	Total/NA
Vinyl chloride	170		50		ug/L	100		8260C	Total/NA

## Client Sample ID: REW-4

Lab Sample ID: 360-39842-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.3		1.0		ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	12		1.0		ug/L	1		8260C	Total/NA
Ethylbenzene	1.3		1.0		ug/L	1		8260C	Total/NA
m-Xylene & p-Xylene	6.0		2.0		ug/L	1		8260C	Total/NA
o-Xylene	1.6		1.0		ug/L	1		8260C	Total/NA
Trichloroethene	7.7		1.0		ug/L	1		8260C	Total/NA

## Client Sample ID: REW-5

Lab Sample ID: 360-39842-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	380		10		ug/L	10		8260C	Total/NA
Trichloroethene	140		10		ug/L	10		8260C	Total/NA
Vinyl chloride	54		5.0		ug/L	10		8260C	Total/NA

## Client Sample ID: DupX1

Lab Sample ID: 360-39842-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2600		100		ug/L	100		8260C	Total/NA
Trichloroethene	1400		100		ug/L	100		8260C	Total/NA

# Detection Summary

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

TestAmerica Job ID: 360-39842-1

## Client Sample ID: DupX1 (Continued)

Lab Sample ID: 360-39842-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	120		50		ug/L	100		8260C	Total/NA

## Client Sample ID: DupX2

Lab Sample ID: 360-39842-25

No Detections

## Client Sample ID: DupX3

Lab Sample ID: 360-39842-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	370		10		ug/L	10		8260C	Total/NA
Trichloroethene	140		10		ug/L	10		8260C	Total/NA
Vinyl chloride	53		5.0		ug/L	10		8260C	Total/NA

## Client Sample ID: Trip Blank

Lab Sample ID: 360-39842-27

No Detections

# Method Summary

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

TestAmerica Job ID: 360-39842-1

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

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**Protocol References:**

MA DEP = Massachusetts Department Of Environmental Protection

**Laboratory References:**

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000



# Sample Summary

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

TestAmerica Job ID: 360-39842-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
360-39842-1	IW-4	Water	04/02/12 12:30	04/04/12 13:00
360-39842-2	IW-5	Water	04/02/12 11:25	04/04/12 13:00
360-39842-3	IW-15	Water	04/03/12 13:00	04/04/12 13:00
360-39842-4	MW-261S	Water	04/02/12 12:00	04/04/12 13:00
360-39842-5	MW-264M	Water	04/03/12 13:30	04/04/12 13:00
360-39842-6	MW-265S	Water	04/03/12 11:35	04/04/12 13:00
360-39842-7	MW-265M	Water	04/02/12 14:00	04/04/12 13:00
360-39842-8	MW-265D	Water	04/03/12 10:15	04/04/12 13:00
360-39842-9	MW-266Ma	Water	04/02/12 13:35	04/04/12 13:00
360-39842-10	MW-266Mb	Water	04/03/12 12:35	04/04/12 13:00
360-39842-11	MW--267S	Water	04/02/12 12:30	04/04/12 13:00
360-39842-12	MW-267M	Water	04/02/12 11:25	04/04/12 13:00
360-39842-13	MW-268M	Water	04/02/12 10:15	04/04/12 13:00
360-39842-14	MW-268D	Water	04/03/12 11:15	04/04/12 13:00
360-39842-15	MW-551	Water	04/02/12 13:00	04/04/12 13:00
360-39842-16	MW-552	Water	04/02/12 11:00	04/04/12 13:00
360-39842-17	MW-553	Water	04/02/12 10:00	04/04/12 13:00
360-39842-18	MW-560	Water	04/02/12 10:00	04/04/12 13:00
360-39842-19	MW-561	Water	04/02/12 13:40	04/04/12 13:00
360-39842-20	MW-562	Water	04/03/12 14:05	04/04/12 13:00
360-39842-21	REW-1	Water	04/03/12 10:00	04/04/12 13:00
360-39842-22	REW-4	Water	04/03/12 11:10	04/04/12 13:00
360-39842-23	REW-5	Water	04/03/12 12:35	04/04/12 13:00
360-39842-24	DupX1	Water	04/02/12 12:00	04/04/12 13:00
360-39842-25	DupX2	Water	04/02/12 12:00	04/04/12 13:00
360-39842-26	DupX3	Water	04/02/12 12:00	04/04/12 13:00
360-39842-27	Trip Blank	Water	04/02/12 10:00	04/04/12 13:00

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: IW-4**

**Date Collected: 04/02/12 12:30**

**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-1**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/12 02:01	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/12 02:01	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/12 02:01	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/12 02:01	1
<b>1,1-Dichloroethane</b>	<b>3.4</b>		1.0		ug/L			04/06/12 02:01	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/12 02:01	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/12 02:01	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/12 02:01	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/12 02:01	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/12 02:01	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/12 02:01	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/12 02:01	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/12 02:01	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/12 02:01	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/12 02:01	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/12 02:01	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/12 02:01	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/12 02:01	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/12 02:01	1
1,4-Dioxane	ND		50		ug/L			04/06/12 02:01	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/12 02:01	1
2-Butanone (MEK)	ND	*	10		ug/L			04/06/12 02:01	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/12 02:01	1
2-Hexanone	ND		10		ug/L			04/06/12 02:01	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/12 02:01	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/12 02:01	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/12 02:01	1
Acetone	ND	*	50		ug/L			04/06/12 02:01	1
Benzene	ND		1.0		ug/L			04/06/12 02:01	1
Bromobenzene	ND		1.0		ug/L			04/06/12 02:01	1
Bromoform	ND		1.0		ug/L			04/06/12 02:01	1
Bromomethane	ND		2.0		ug/L			04/06/12 02:01	1
Carbon disulfide	ND		10		ug/L			04/06/12 02:01	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/12 02:01	1
Chlorobenzene	ND		1.0		ug/L			04/06/12 02:01	1
Chlorobromomethane	ND		1.0		ug/L			04/06/12 02:01	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/12 02:01	1
Chloroethane	ND		2.0		ug/L			04/06/12 02:01	1
Chloroform	ND		1.0		ug/L			04/06/12 02:01	1
Chloromethane	ND		2.0		ug/L			04/06/12 02:01	1
<b>cis-1,2-Dichloroethene</b>	<b>1.3</b>		1.0		ug/L			04/06/12 02:01	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 02:01	1
Dibromomethane	ND		1.0		ug/L			04/06/12 02:01	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/12 02:01	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/06/12 02:01	1
Ethyl ether	ND		1.0		ug/L			04/06/12 02:01	1
Ethylbenzene	ND		1.0		ug/L			04/06/12 02:01	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/12 02:01	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/12 02:01	1
Isopropyl ether	ND		10		ug/L			04/06/12 02:01	1
Isopropylbenzene	ND		1.0		ug/L			04/06/12 02:01	1



# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: IW-4**  
**Date Collected: 04/02/12 12:30**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-1**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/12 02:01	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/12 02:01	1
Methylene Chloride	ND		2.0		ug/L			04/06/12 02:01	1
n-Butylbenzene	ND		1.0		ug/L			04/06/12 02:01	1
N-Propylbenzene	ND		1.0		ug/L			04/06/12 02:01	1
Naphthalene	ND		5.0		ug/L			04/06/12 02:01	1
o-Xylene	ND		1.0		ug/L			04/06/12 02:01	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/12 02:01	1
Styrene	ND		1.0		ug/L			04/06/12 02:01	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/12 02:01	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/12 02:01	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/12 02:01	1
Tetrachloroethene	ND		1.0		ug/L			04/06/12 02:01	1
Tetrahydrofuran	ND		10		ug/L			04/06/12 02:01	1
Toluene	ND		1.0		ug/L			04/06/12 02:01	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/12 02:01	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 02:01	1
Trichloroethene	ND		1.0		ug/L			04/06/12 02:01	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/12 02:01	1
<b>Vinyl chloride</b>	<b>15</b>		0.50		ug/L			04/06/12 02:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		70 - 130					04/06/12 02:01	1
Dibromofluoromethane	102		70 - 130					04/06/12 02:01	1
Toluene-d8 (Surr)	98		70 - 130					04/06/12 02:01	1

**Client Sample ID: IW-5**  
**Date Collected: 04/02/12 11:25**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-2**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		50		ug/L			04/06/12 02:22	50
1,1,1-Trichloroethane	ND		50		ug/L			04/06/12 02:22	50
1,1,2,2-Tetrachloroethane	ND		25		ug/L			04/06/12 02:22	50
1,1,2-Trichloroethane	ND		50		ug/L			04/06/12 02:22	50
1,1-Dichloroethane	ND		50		ug/L			04/06/12 02:22	50
1,1-Dichloroethene	ND		50		ug/L			04/06/12 02:22	50
1,1-Dichloropropene	ND		50		ug/L			04/06/12 02:22	50
1,2,3-Trichlorobenzene	ND		50		ug/L			04/06/12 02:22	50
1,2,3-Trichloropropane	ND		50		ug/L			04/06/12 02:22	50
1,2,4-Trichlorobenzene	ND		50		ug/L			04/06/12 02:22	50
1,2,4-Trimethylbenzene	ND		50		ug/L			04/06/12 02:22	50
1,2-Dibromo-3-Chloropropane	ND		250		ug/L			04/06/12 02:22	50
1,2-Dichlorobenzene	ND		50		ug/L			04/06/12 02:22	50
1,2-Dichloroethane	ND		50		ug/L			04/06/12 02:22	50
1,2-Dichloropropane	ND		50		ug/L			04/06/12 02:22	50
1,3,5-Trimethylbenzene	ND		50		ug/L			04/06/12 02:22	50
1,3-Dichlorobenzene	ND		50		ug/L			04/06/12 02:22	50
1,3-Dichloropropane	ND		50		ug/L			04/06/12 02:22	50
1,4-Dichlorobenzene	ND		50		ug/L			04/06/12 02:22	50
1,4-Dioxane	ND		2500		ug/L			04/06/12 02:22	50
2,2-Dichloropropane	ND		50		ug/L			04/06/12 02:22	50

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

Client Sample ID: IW-5							Lab Sample ID: 360-39842-2			
Date Collected: 04/02/12 11:25							Matrix: Water			
Date Received: 04/04/12 13:00										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
2-Butanone (MEK)	ND	*	500		ug/L			04/06/12 02:22	50	
2-Chlorotoluene	ND		50		ug/L			04/06/12 02:22	50	
2-Hexanone	ND		500		ug/L			04/06/12 02:22	50	
4-Chlorotoluene	ND		50		ug/L			04/06/12 02:22	50	
4-Isopropyltoluene	ND		50		ug/L			04/06/12 02:22	50	
4-Methyl-2-pentanone (MIBK)	ND		500		ug/L			04/06/12 02:22	50	
Acetone	ND	*	2500		ug/L			04/06/12 02:22	50	
Benzene	ND		50		ug/L			04/06/12 02:22	50	
Bromobenzene	ND		50		ug/L			04/06/12 02:22	50	
Bromoform	ND		50		ug/L			04/06/12 02:22	50	
Bromomethane	ND		100		ug/L			04/06/12 02:22	50	
Carbon disulfide	ND		500		ug/L			04/06/12 02:22	50	
Carbon tetrachloride	ND		50		ug/L			04/06/12 02:22	50	
Chlorobenzene	ND		50		ug/L			04/06/12 02:22	50	
Chlorobromomethane	ND		50		ug/L			04/06/12 02:22	50	
Chlorodibromomethane	ND		25		ug/L			04/06/12 02:22	50	
Chloroethane	ND		100		ug/L			04/06/12 02:22	50	
Chloroform	ND		50		ug/L			04/06/12 02:22	50	
Chloromethane	ND		100		ug/L			04/06/12 02:22	50	
<b>cis-1,2-Dichloroethene</b>	<b>820</b>		50		ug/L			04/06/12 02:22	50	
cis-1,3-Dichloropropene	ND		20		ug/L			04/06/12 02:22	50	
Dibromomethane	ND		50		ug/L			04/06/12 02:22	50	
Dichlorobromomethane	ND		25		ug/L			04/06/12 02:22	50	
Dichlorodifluoromethane	ND	*	50		ug/L			04/06/12 02:22	50	
Ethyl ether	ND		50		ug/L			04/06/12 02:22	50	
Ethylbenzene	ND		50		ug/L			04/06/12 02:22	50	
Ethylene Dibromide	ND		50		ug/L			04/06/12 02:22	50	
Hexachlorobutadiene	ND		20		ug/L			04/06/12 02:22	50	
Isopropyl ether	ND		500		ug/L			04/06/12 02:22	50	
Isopropylbenzene	ND		50		ug/L			04/06/12 02:22	50	
m-Xylene & p-Xylene	ND		100		ug/L			04/06/12 02:22	50	
Methyl tert-butyl ether	ND		50		ug/L			04/06/12 02:22	50	
Methylene Chloride	ND		100		ug/L			04/06/12 02:22	50	
n-Butylbenzene	ND		50		ug/L			04/06/12 02:22	50	
N-Propylbenzene	ND		50		ug/L			04/06/12 02:22	50	
Naphthalene	ND		250		ug/L			04/06/12 02:22	50	
o-Xylene	ND		50		ug/L			04/06/12 02:22	50	
sec-Butylbenzene	ND		50		ug/L			04/06/12 02:22	50	
Styrene	ND		50		ug/L			04/06/12 02:22	50	
Tert-amyl methyl ether	ND		250		ug/L			04/06/12 02:22	50	
Tert-butyl ethyl ether	ND		250		ug/L			04/06/12 02:22	50	
tert-Butylbenzene	ND		50		ug/L			04/06/12 02:22	50	
Tetrachloroethene	ND		50		ug/L			04/06/12 02:22	50	
Tetrahydrofuran	ND		500		ug/L			04/06/12 02:22	50	
Toluene	ND		50		ug/L			04/06/12 02:22	50	
trans-1,2-Dichloroethene	ND		50		ug/L			04/06/12 02:22	50	
trans-1,3-Dichloropropene	ND		20		ug/L			04/06/12 02:22	50	
<b>Trichloroethene</b>	<b>1500</b>		50		ug/L			04/06/12 02:22	50	
Trichlorofluoromethane	ND		50		ug/L			04/06/12 02:22	50	
<b>Vinyl chloride</b>	<b>99</b>		25		ug/L			04/06/12 02:22	50	

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		70 - 130		04/06/12 02:22	50
Dibromofluoromethane	102		70 - 130		04/06/12 02:22	50
Toluene-d8 (Surr)	101		70 - 130		04/06/12 02:22	50

**Client Sample ID: IW-15**

**Date Collected: 04/03/12 13:00**

**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-3**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/12 02:44	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/12 02:44	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/12 02:44	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/12 02:44	1
<b>1,1-Dichloroethane</b>	<b>1.1</b>		1.0		ug/L			04/06/12 02:44	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/12 02:44	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/12 02:44	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/12 02:44	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/12 02:44	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/12 02:44	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/12 02:44	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/12 02:44	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/12 02:44	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/12 02:44	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/12 02:44	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/12 02:44	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/12 02:44	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/12 02:44	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/12 02:44	1
1,4-Dioxane	ND		50		ug/L			04/06/12 02:44	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/12 02:44	1
2-Butanone (MEK)	ND	*	10		ug/L			04/06/12 02:44	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/12 02:44	1
2-Hexanone	ND		10		ug/L			04/06/12 02:44	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/12 02:44	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/12 02:44	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/12 02:44	1
Acetone	ND	*	50		ug/L			04/06/12 02:44	1
Benzene	ND		1.0		ug/L			04/06/12 02:44	1
Bromobenzene	ND		1.0		ug/L			04/06/12 02:44	1
Bromoform	ND		1.0		ug/L			04/06/12 02:44	1
Bromomethane	ND		2.0		ug/L			04/06/12 02:44	1
Carbon disulfide	ND		10		ug/L			04/06/12 02:44	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/12 02:44	1
Chlorobenzene	ND		1.0		ug/L			04/06/12 02:44	1
Chlorobromomethane	ND		1.0		ug/L			04/06/12 02:44	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/12 02:44	1
Chloroethane	ND		2.0		ug/L			04/06/12 02:44	1
Chloroform	ND		1.0		ug/L			04/06/12 02:44	1
Chloromethane	ND		2.0		ug/L			04/06/12 02:44	1
<b>cis-1,2-Dichloroethene</b>	<b>8.4</b>		1.0		ug/L			04/06/12 02:44	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 02:44	1
Dibromomethane	ND		1.0		ug/L			04/06/12 02:44	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/12 02:44	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/06/12 02:44	1
Ethyl ether	ND		1.0		ug/L			04/06/12 02:44	1

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: IW-15**

**Date Collected: 04/03/12 13:00**

**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-3**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0		ug/L			04/06/12 02:44	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/12 02:44	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/12 02:44	1
Isopropyl ether	ND		10		ug/L			04/06/12 02:44	1
Isopropylbenzene	ND		1.0		ug/L			04/06/12 02:44	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/12 02:44	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/12 02:44	1
Methylene Chloride	ND		2.0		ug/L			04/06/12 02:44	1
n-Butylbenzene	ND		1.0		ug/L			04/06/12 02:44	1
N-Propylbenzene	ND		1.0		ug/L			04/06/12 02:44	1
Naphthalene	ND		5.0		ug/L			04/06/12 02:44	1
o-Xylene	ND		1.0		ug/L			04/06/12 02:44	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/12 02:44	1
Styrene	ND		1.0		ug/L			04/06/12 02:44	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/12 02:44	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/12 02:44	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/12 02:44	1
<b>Tetrachloroethene</b>	<b>1.5</b>		1.0		ug/L			04/06/12 02:44	1
Tetrahydrofuran	ND		10		ug/L			04/06/12 02:44	1
Toluene	ND		1.0		ug/L			04/06/12 02:44	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/12 02:44	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 02:44	1
<b>Trichloroethene</b>	<b>13</b>		1.0		ug/L			04/06/12 02:44	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/12 02:44	1
<b>Vinyl chloride</b>	<b>49</b>		0.50		ug/L			04/06/12 02:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		70 - 130		04/06/12 02:44	1
Dibromofluoromethane	101		70 - 130		04/06/12 02:44	1
Toluene-d8 (Surr)	100		70 - 130		04/06/12 02:44	1

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

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

**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-4**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		500		ug/L			04/06/12 03:05	500
1,1,1-Trichloroethane	ND		500		ug/L			04/06/12 03:05	500
1,1,1,2-Tetrachloroethane	ND		250		ug/L			04/06/12 03:05	500
1,1,2-Trichloroethane	ND		500		ug/L			04/06/12 03:05	500
1,1-Dichloroethane	ND		500		ug/L			04/06/12 03:05	500
1,1-Dichloroethane	ND		500		ug/L			04/06/12 03:05	500
1,1-Dichloropropene	ND		500		ug/L			04/06/12 03:05	500
1,2,3-Trichlorobenzene	ND		500		ug/L			04/06/12 03:05	500
1,2,3-Trichloropropane	ND		500		ug/L			04/06/12 03:05	500
1,2,4-Trichlorobenzene	ND		500		ug/L			04/06/12 03:05	500
1,2,4-Trimethylbenzene	ND		500		ug/L			04/06/12 03:05	500
1,2-Dibromo-3-Chloropropane	ND		2500		ug/L			04/06/12 03:05	500
1,2-Dichlorobenzene	ND		500		ug/L			04/06/12 03:05	500
1,2-Dichloroethane	ND		500		ug/L			04/06/12 03:05	500
1,2-Dichloropropane	ND		500		ug/L			04/06/12 03:05	500
1,3,5-Trimethylbenzene	ND		500		ug/L			04/06/12 03:05	500

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: MW-261S**  
**Date Collected: 04/02/12 12:00**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-4**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		500		ug/L			04/06/12 03:05	500
1,3-Dichloropropane	ND		500		ug/L			04/06/12 03:05	500
1,4-Dichlorobenzene	ND		500		ug/L			04/06/12 03:05	500
1,4-Dioxane	ND		25000		ug/L			04/06/12 03:05	500
2,2-Dichloropropane	ND		500		ug/L			04/06/12 03:05	500
2-Butanone (MEK)	ND	*	5000		ug/L			04/06/12 03:05	500
2-Chlorotoluene	ND		500		ug/L			04/06/12 03:05	500
2-Hexanone	ND		5000		ug/L			04/06/12 03:05	500
4-Chlorotoluene	ND		500		ug/L			04/06/12 03:05	500
4-Isopropyltoluene	ND		500		ug/L			04/06/12 03:05	500
4-Methyl-2-pentanone (MIBK)	ND		5000		ug/L			04/06/12 03:05	500
<b>Acetone</b>	<b>150000</b>	<b>*</b>	25000		ug/L			04/06/12 03:05	500
Benzene	ND		500		ug/L			04/06/12 03:05	500
Bromobenzene	ND		500		ug/L			04/06/12 03:05	500
Bromoform	ND		500		ug/L			04/06/12 03:05	500
Bromomethane	ND		1000		ug/L			04/06/12 03:05	500
Carbon disulfide	ND		5000		ug/L			04/06/12 03:05	500
Carbon tetrachloride	ND		500		ug/L			04/06/12 03:05	500
Chlorobenzene	ND		500		ug/L			04/06/12 03:05	500
Chlorobromomethane	ND		500		ug/L			04/06/12 03:05	500
Chlorodibromomethane	ND		250		ug/L			04/06/12 03:05	500
Chloroethane	ND		1000		ug/L			04/06/12 03:05	500
Chloroform	ND		500		ug/L			04/06/12 03:05	500
Chloromethane	ND		1000		ug/L			04/06/12 03:05	500
<b>cis-1,2-Dichloroethene</b>	<b>810</b>		500		ug/L			04/06/12 03:05	500
cis-1,3-Dichloropropene	ND		200		ug/L			04/06/12 03:05	500
Dibromomethane	ND		500		ug/L			04/06/12 03:05	500
Dichlorobromomethane	ND		250		ug/L			04/06/12 03:05	500
Dichlorodifluoromethane	ND	*	500		ug/L			04/06/12 03:05	500
Ethyl ether	ND		500		ug/L			04/06/12 03:05	500
Ethylbenzene	ND		500		ug/L			04/06/12 03:05	500
Ethylene Dibromide	ND		500		ug/L			04/06/12 03:05	500
Hexachlorobutadiene	ND		200		ug/L			04/06/12 03:05	500
Isopropyl ether	ND		5000		ug/L			04/06/12 03:05	500
Isopropylbenzene	ND		500		ug/L			04/06/12 03:05	500
m-Xylene & p-Xylene	ND		1000		ug/L			04/06/12 03:05	500
Methyl tert-butyl ether	ND		500		ug/L			04/06/12 03:05	500
Methylene Chloride	ND		1000		ug/L			04/06/12 03:05	500
n-Butylbenzene	ND		500		ug/L			04/06/12 03:05	500
N-Propylbenzene	ND		500		ug/L			04/06/12 03:05	500
Naphthalene	ND		2500		ug/L			04/06/12 03:05	500
o-Xylene	ND		500		ug/L			04/06/12 03:05	500
sec-Butylbenzene	ND		500		ug/L			04/06/12 03:05	500
Styrene	ND		500		ug/L			04/06/12 03:05	500
Tert-amyl methyl ether	ND		2500		ug/L			04/06/12 03:05	500
Tert-butyl ethyl ether	ND		2500		ug/L			04/06/12 03:05	500
tert-Butylbenzene	ND		500		ug/L			04/06/12 03:05	500
Tetrachloroethene	ND		500		ug/L			04/06/12 03:05	500
Tetrahydrofuran	ND		5000		ug/L			04/06/12 03:05	500
Toluene	ND		500		ug/L			04/06/12 03:05	500
trans-1,2-Dichloroethene	ND		500		ug/L			04/06/12 03:05	500

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

Client Sample ID: MW-261S							Lab Sample ID: 360-39842-4			
Date Collected: 04/02/12 12:00							Matrix: Water			
Date Received: 04/04/12 13:00										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
trans-1,3-Dichloropropene	ND		200		ug/L			04/06/12 03:05	500	
Trichloroethene	ND		500		ug/L			04/06/12 03:05	500	
Trichlorofluoromethane	ND		500		ug/L			04/06/12 03:05	500	
Vinyl chloride	ND		250		ug/L			04/06/12 03:05	500	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene	98		70 - 130					04/06/12 03:05	500	
Dibromofluoromethane	101		70 - 130					04/06/12 03:05	500	
Toluene-d8 (Surr)	102		70 - 130					04/06/12 03:05	500	

Client Sample ID: MW-264M							Lab Sample ID: 360-39842-5			
Date Collected: 04/03/12 13:30							Matrix: Water			
Date Received: 04/04/12 13:00										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/12 03:27	1	
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/12 03:27	1	
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/12 03:27	1	
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/12 03:27	1	
1,1-Dichloroethane	ND		1.0		ug/L			04/06/12 03:27	1	
1,1-Dichloroethene	ND		1.0		ug/L			04/06/12 03:27	1	
1,1-Dichloropropene	ND		1.0		ug/L			04/06/12 03:27	1	
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/12 03:27	1	
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/12 03:27	1	
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/12 03:27	1	
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/12 03:27	1	
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/12 03:27	1	
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/12 03:27	1	
1,2-Dichloroethane	ND		1.0		ug/L			04/06/12 03:27	1	
1,2-Dichloropropane	ND		1.0		ug/L			04/06/12 03:27	1	
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/12 03:27	1	
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/12 03:27	1	
1,3-Dichloropropane	ND		1.0		ug/L			04/06/12 03:27	1	
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/12 03:27	1	
1,4-Dioxane	ND		50		ug/L			04/06/12 03:27	1	
2,2-Dichloropropane	ND		1.0		ug/L			04/06/12 03:27	1	
2-Butanone (MEK)	ND	*	10		ug/L			04/06/12 03:27	1	
2-Chlorotoluene	ND		1.0		ug/L			04/06/12 03:27	1	
2-Hexanone	ND		10		ug/L			04/06/12 03:27	1	
4-Chlorotoluene	ND		1.0		ug/L			04/06/12 03:27	1	
4-Isopropyltoluene	ND		1.0		ug/L			04/06/12 03:27	1	
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/12 03:27	1	
Acetone	ND	*	50		ug/L			04/06/12 03:27	1	
Benzene	ND		1.0		ug/L			04/06/12 03:27	1	
Bromobenzene	ND		1.0		ug/L			04/06/12 03:27	1	
Bromoform	ND		1.0		ug/L			04/06/12 03:27	1	
Bromomethane	ND		2.0		ug/L			04/06/12 03:27	1	
Carbon disulfide	ND		10		ug/L			04/06/12 03:27	1	
Carbon tetrachloride	ND		1.0		ug/L			04/06/12 03:27	1	
Chlorobenzene	ND		1.0		ug/L			04/06/12 03:27	1	
Chlorobromomethane	ND		1.0		ug/L			04/06/12 03:27	1	
Chlorodibromomethane	ND		0.50		ug/L			04/06/12 03:27	1	

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: MW-264M**  
**Date Collected: 04/03/12 13:30**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-5**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		2.0		ug/L			04/06/12 03:27	1
Chloroform	ND		1.0		ug/L			04/06/12 03:27	1
Chloromethane	ND		2.0		ug/L			04/06/12 03:27	1
<b>cis-1,2-Dichloroethene</b>	<b>13</b>		1.0		ug/L			04/06/12 03:27	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 03:27	1
Dibromomethane	ND		1.0		ug/L			04/06/12 03:27	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/12 03:27	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/06/12 03:27	1
Ethyl ether	ND		1.0		ug/L			04/06/12 03:27	1
Ethylbenzene	ND		1.0		ug/L			04/06/12 03:27	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/12 03:27	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/12 03:27	1
Isopropyl ether	ND		10		ug/L			04/06/12 03:27	1
Isopropylbenzene	ND		1.0		ug/L			04/06/12 03:27	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/12 03:27	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/12 03:27	1
Methylene Chloride	ND		2.0		ug/L			04/06/12 03:27	1
n-Butylbenzene	ND		1.0		ug/L			04/06/12 03:27	1
N-Propylbenzene	ND		1.0		ug/L			04/06/12 03:27	1
Naphthalene	ND		5.0		ug/L			04/06/12 03:27	1
o-Xylene	ND		1.0		ug/L			04/06/12 03:27	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/12 03:27	1
Styrene	ND		1.0		ug/L			04/06/12 03:27	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/12 03:27	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/12 03:27	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/12 03:27	1
<b>Tetrachloroethene</b>	<b>5.7</b>		1.0		ug/L			04/06/12 03:27	1
Tetrahydrofuran	ND		10		ug/L			04/06/12 03:27	1
Toluene	ND		1.0		ug/L			04/06/12 03:27	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/12 03:27	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 03:27	1
<b>Trichloroethene</b>	<b>24</b>		1.0		ug/L			04/06/12 03:27	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/12 03:27	1
Vinyl chloride	ND		0.50		ug/L			04/06/12 03:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		70 - 130					04/06/12 03:27	1
Dibromofluoromethane	103		70 - 130					04/06/12 03:27	1
Toluene-d8 (Surr)	98		70 - 130					04/06/12 03:27	1

**Client Sample ID: MW-265S**  
**Date Collected: 04/03/12 11:35**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-6**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/12 03:49	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/12 03:49	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/12 03:49	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/12 03:49	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/12 03:49	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/12 03:49	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/12 03:49	1



# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

Client Sample ID: MW-265S							Lab Sample ID: 360-39842-6		
Date Collected: 04/03/12 11:35							Matrix: Water		
Date Received: 04/04/12 13:00									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/12 03:49	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/12 03:49	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/12 03:49	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/12 03:49	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/12 03:49	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/12 03:49	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/12 03:49	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/12 03:49	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/12 03:49	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/12 03:49	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/12 03:49	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/12 03:49	1
1,4-Dioxane	ND		50		ug/L			04/06/12 03:49	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/12 03:49	1
2-Butanone (MEK)	ND	*	10		ug/L			04/06/12 03:49	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/12 03:49	1
2-Hexanone	ND		10		ug/L			04/06/12 03:49	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/12 03:49	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/12 03:49	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/12 03:49	1
<b>Acetone</b>	<b>390</b>	*	50		ug/L			04/06/12 03:49	1
Benzene	ND		1.0		ug/L			04/06/12 03:49	1
Bromobenzene	ND		1.0		ug/L			04/06/12 03:49	1
Bromoform	ND		1.0		ug/L			04/06/12 03:49	1
Bromomethane	ND		2.0		ug/L			04/06/12 03:49	1
Carbon disulfide	ND		10		ug/L			04/06/12 03:49	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/12 03:49	1
Chlorobenzene	ND		1.0		ug/L			04/06/12 03:49	1
Chlorobromomethane	ND		1.0		ug/L			04/06/12 03:49	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/12 03:49	1
Chloroethane	ND		2.0		ug/L			04/06/12 03:49	1
Chloroform	ND		1.0		ug/L			04/06/12 03:49	1
Chloromethane	ND		2.0		ug/L			04/06/12 03:49	1
<b>cis-1,2-Dichloroethene</b>	<b>44</b>		1.0		ug/L			04/06/12 03:49	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 03:49	1
Dibromomethane	ND		1.0		ug/L			04/06/12 03:49	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/12 03:49	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/06/12 03:49	1
Ethyl ether	ND		1.0		ug/L			04/06/12 03:49	1
Ethylbenzene	ND		1.0		ug/L			04/06/12 03:49	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/12 03:49	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/12 03:49	1
Isopropyl ether	ND		10		ug/L			04/06/12 03:49	1
Isopropylbenzene	ND		1.0		ug/L			04/06/12 03:49	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/12 03:49	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/12 03:49	1
Methylene Chloride	ND		2.0		ug/L			04/06/12 03:49	1
n-Butylbenzene	ND		1.0		ug/L			04/06/12 03:49	1
N-Propylbenzene	ND		1.0		ug/L			04/06/12 03:49	1
Naphthalene	ND		5.0		ug/L			04/06/12 03:49	1
o-Xylene	ND		1.0		ug/L			04/06/12 03:49	1

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

Client Sample ID: MW-265S							Lab Sample ID: 360-39842-6			
Date Collected: 04/03/12 11:35							Matrix: Water			
Date Received: 04/04/12 13:00										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
sec-Butylbenzene	ND		1.0		ug/L			04/06/12 03:49	1	
Styrene	ND		1.0		ug/L			04/06/12 03:49	1	
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/12 03:49	1	
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/12 03:49	1	
tert-Butylbenzene	ND		1.0		ug/L			04/06/12 03:49	1	
Tetrachloroethene	ND		1.0		ug/L			04/06/12 03:49	1	
Tetrahydrofuran	ND		10		ug/L			04/06/12 03:49	1	
Toluene	ND		1.0		ug/L			04/06/12 03:49	1	
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/12 03:49	1	
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 03:49	1	
Trichloroethene	ND		1.0		ug/L			04/06/12 03:49	1	
Trichlorofluoromethane	ND		1.0		ug/L			04/06/12 03:49	1	
<b>Vinyl chloride</b>	<b>6.8</b>		0.50		ug/L			04/06/12 03:49	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene	98		70 - 130					04/06/12 03:49	1	
Dibromofluoromethane	103		70 - 130					04/06/12 03:49	1	
Toluene-d8 (Surr)	100		70 - 130					04/06/12 03:49	1	

Client Sample ID: MW-265M							Lab Sample ID: 360-39842-7			
Date Collected: 04/02/12 14:00							Matrix: Water			
Date Received: 04/04/12 13:00										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/12 04:10	1	
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/12 04:10	1	
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/12 04:10	1	
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/12 04:10	1	
<b>1,1-Dichloroethane</b>	<b>1.3</b>		1.0		ug/L			04/06/12 04:10	1	
<b>1,1-Dichloroethene</b>	<b>1.2</b>		1.0		ug/L			04/06/12 04:10	1	
1,1-Dichloropropene	ND		1.0		ug/L			04/06/12 04:10	1	
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/12 04:10	1	
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/12 04:10	1	
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/12 04:10	1	
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/12 04:10	1	
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/12 04:10	1	
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/12 04:10	1	
1,2-Dichloroethane	ND		1.0		ug/L			04/06/12 04:10	1	
1,2-Dichloropropane	ND		1.0		ug/L			04/06/12 04:10	1	
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/12 04:10	1	
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/12 04:10	1	
1,3-Dichloropropane	ND		1.0		ug/L			04/06/12 04:10	1	
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/12 04:10	1	
1,4-Dioxane	ND		50		ug/L			04/06/12 04:10	1	
2,2-Dichloropropane	ND		1.0		ug/L			04/06/12 04:10	1	
2-Butanone (MEK)	ND	*	10		ug/L			04/06/12 04:10	1	
2-Chlorotoluene	ND		1.0		ug/L			04/06/12 04:10	1	
2-Hexanone	ND		10		ug/L			04/06/12 04:10	1	
4-Chlorotoluene	ND		1.0		ug/L			04/06/12 04:10	1	
4-Isopropyltoluene	ND		1.0		ug/L			04/06/12 04:10	1	
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/12 04:10	1	
Acetone	ND	*	50		ug/L			04/06/12 04:10	1	

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

Client Sample ID: MW-265M							Lab Sample ID: 360-39842-7		
Date Collected: 04/02/12 14:00							Matrix: Water		
Date Received: 04/04/12 13:00									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			04/06/12 04:10	1
Bromobenzene	ND		1.0		ug/L			04/06/12 04:10	1
Bromoform	ND		1.0		ug/L			04/06/12 04:10	1
Bromomethane	ND		2.0		ug/L			04/06/12 04:10	1
Carbon disulfide	ND		10		ug/L			04/06/12 04:10	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/12 04:10	1
Chlorobenzene	ND		1.0		ug/L			04/06/12 04:10	1
Chlorobromomethane	ND		1.0		ug/L			04/06/12 04:10	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/12 04:10	1
Chloroethane	ND		2.0		ug/L			04/06/12 04:10	1
Chloroform	ND		1.0		ug/L			04/06/12 04:10	1
Chloromethane	ND		2.0		ug/L			04/06/12 04:10	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 04:10	1
Dibromomethane	ND		1.0		ug/L			04/06/12 04:10	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/12 04:10	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/06/12 04:10	1
Ethyl ether	ND		1.0		ug/L			04/06/12 04:10	1
Ethylbenzene	ND		1.0		ug/L			04/06/12 04:10	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/12 04:10	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/12 04:10	1
Isopropyl ether	ND		10		ug/L			04/06/12 04:10	1
Isopropylbenzene	ND		1.0		ug/L			04/06/12 04:10	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/12 04:10	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/12 04:10	1
Methylene Chloride	ND		2.0		ug/L			04/06/12 04:10	1
n-Butylbenzene	ND		1.0		ug/L			04/06/12 04:10	1
N-Propylbenzene	ND		1.0		ug/L			04/06/12 04:10	1
Naphthalene	ND		5.0		ug/L			04/06/12 04:10	1
o-Xylene	ND		1.0		ug/L			04/06/12 04:10	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/12 04:10	1
Styrene	ND		1.0		ug/L			04/06/12 04:10	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/12 04:10	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/12 04:10	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/12 04:10	1
Tetrachloroethene	ND		1.0		ug/L			04/06/12 04:10	1
<b>Tetrahydrofuran</b>	<b>11</b>		10		ug/L			04/06/12 04:10	1
Toluene	ND		1.0		ug/L			04/06/12 04:10	1
<b>trans-1,2-Dichloroethene</b>	<b>2.6</b>		1.0		ug/L			04/06/12 04:10	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 04:10	1
Trichloroethene	ND		1.0		ug/L			04/06/12 04:10	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/12 04:10	1
<b>Vinyl chloride</b>	<b>30</b>		0.50		ug/L			04/06/12 04:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	102		70 - 130					04/06/12 04:10	1
Dibromofluoromethane	103		70 - 130					04/06/12 04:10	1
Toluene-d8 (Surr)	99		70 - 130					04/06/12 04:10	1

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: MW-265D**  
**Date Collected: 04/03/12 10:15**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-8**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/12 04:32	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/12 04:32	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/12 04:32	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/12 04:32	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/12 04:32	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/12 04:32	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/12 04:32	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/12 04:32	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/12 04:32	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/12 04:32	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/12 04:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/12 04:32	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/12 04:32	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/12 04:32	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/12 04:32	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/12 04:32	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/12 04:32	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/12 04:32	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/12 04:32	1
1,4-Dioxane	ND		50		ug/L			04/06/12 04:32	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/12 04:32	1
2-Butanone (MEK)	ND	*	10		ug/L			04/06/12 04:32	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/12 04:32	1
2-Hexanone	ND		10		ug/L			04/06/12 04:32	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/12 04:32	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/12 04:32	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/12 04:32	1
Acetone	ND	*	50		ug/L			04/06/12 04:32	1
Benzene	ND		1.0		ug/L			04/06/12 04:32	1
Bromobenzene	ND		1.0		ug/L			04/06/12 04:32	1
Bromoform	ND		1.0		ug/L			04/06/12 04:32	1
Bromomethane	ND		2.0		ug/L			04/06/12 04:32	1
Carbon disulfide	ND		10		ug/L			04/06/12 04:32	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/12 04:32	1
Chlorobenzene	ND		1.0		ug/L			04/06/12 04:32	1
Chlorobromomethane	ND		1.0		ug/L			04/06/12 04:32	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/12 04:32	1
Chloroethane	ND		2.0		ug/L			04/06/12 04:32	1
Chloroform	ND		1.0		ug/L			04/06/12 04:32	1
Chloromethane	ND		2.0		ug/L			04/06/12 04:32	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/06/12 04:32	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 04:32	1
Dibromomethane	ND		1.0		ug/L			04/06/12 04:32	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/12 04:32	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/06/12 04:32	1
Ethyl ether	ND		1.0		ug/L			04/06/12 04:32	1
Ethylbenzene	ND		1.0		ug/L			04/06/12 04:32	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/12 04:32	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/12 04:32	1
Isopropyl ether	ND		10		ug/L			04/06/12 04:32	1
Isopropylbenzene	ND		1.0		ug/L			04/06/12 04:32	1

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: MW-265D**  
**Date Collected: 04/03/12 10:15**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-8**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/12 04:32	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/12 04:32	1
Methylene Chloride	ND		2.0		ug/L			04/06/12 04:32	1
n-Butylbenzene	ND		1.0		ug/L			04/06/12 04:32	1
N-Propylbenzene	ND		1.0		ug/L			04/06/12 04:32	1
Naphthalene	ND		5.0		ug/L			04/06/12 04:32	1
o-Xylene	ND		1.0		ug/L			04/06/12 04:32	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/12 04:32	1
Styrene	ND		1.0		ug/L			04/06/12 04:32	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/12 04:32	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/12 04:32	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/12 04:32	1
Tetrachloroethene	ND		1.0		ug/L			04/06/12 04:32	1
Tetrahydrofuran	ND		10		ug/L			04/06/12 04:32	1
Toluene	ND		1.0		ug/L			04/06/12 04:32	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/12 04:32	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 04:32	1
Trichloroethene	ND		1.0		ug/L			04/06/12 04:32	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/12 04:32	1
Vinyl chloride	ND		0.50		ug/L			04/06/12 04:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		70 - 130					04/06/12 04:32	1
Dibromofluoromethane	102		70 - 130					04/06/12 04:32	1
Toluene-d8 (Surr)	101		70 - 130					04/06/12 04:32	1

**Client Sample ID: MW-266Ma**  
**Date Collected: 04/02/12 13:35**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-9**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/12 04:54	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/12 04:54	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/12 04:54	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/12 04:54	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/12 04:54	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/12 04:54	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/12 04:54	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/12 04:54	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/12 04:54	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/12 04:54	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/12 04:54	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/12 04:54	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/12 04:54	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/12 04:54	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/12 04:54	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/12 04:54	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/12 04:54	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/12 04:54	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/12 04:54	1
1,4-Dioxane	ND		50		ug/L			04/06/12 04:54	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/12 04:54	1

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

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

**Date Collected: 04/02/12 13:35**

**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-9**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND	*	10		ug/L			04/06/12 04:54	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/12 04:54	1
2-Hexanone	ND		10		ug/L			04/06/12 04:54	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/12 04:54	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/12 04:54	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/12 04:54	1
Acetone	ND	*	50		ug/L			04/06/12 04:54	1
Benzene	ND		1.0		ug/L			04/06/12 04:54	1
Bromobenzene	ND		1.0		ug/L			04/06/12 04:54	1
Bromoform	ND		1.0		ug/L			04/06/12 04:54	1
Bromomethane	ND		2.0		ug/L			04/06/12 04:54	1
Carbon disulfide	ND		10		ug/L			04/06/12 04:54	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/12 04:54	1
Chlorobenzene	ND		1.0		ug/L			04/06/12 04:54	1
Chlorobromomethane	ND		1.0		ug/L			04/06/12 04:54	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/12 04:54	1
Chloroethane	ND		2.0		ug/L			04/06/12 04:54	1
Chloroform	ND		1.0		ug/L			04/06/12 04:54	1
Chloromethane	ND		2.0		ug/L			04/06/12 04:54	1
<b>cis-1,2-Dichloroethene</b>	<b>4.8</b>		1.0		ug/L			04/06/12 04:54	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 04:54	1
Dibromomethane	ND		1.0		ug/L			04/06/12 04:54	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/12 04:54	1
Dichlorodifluoromethane	ND	*	1.0		ug/L			04/06/12 04:54	1
Ethyl ether	ND		1.0		ug/L			04/06/12 04:54	1
Ethylbenzene	ND		1.0		ug/L			04/06/12 04:54	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/12 04:54	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/12 04:54	1
Isopropyl ether	ND		10		ug/L			04/06/12 04:54	1
Isopropylbenzene	ND		1.0		ug/L			04/06/12 04:54	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/12 04:54	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/12 04:54	1
Methylene Chloride	ND		2.0		ug/L			04/06/12 04:54	1
n-Butylbenzene	ND		1.0		ug/L			04/06/12 04:54	1
N-Propylbenzene	ND		1.0		ug/L			04/06/12 04:54	1
Naphthalene	ND		5.0		ug/L			04/06/12 04:54	1
o-Xylene	ND		1.0		ug/L			04/06/12 04:54	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/12 04:54	1
Styrene	ND		1.0		ug/L			04/06/12 04:54	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/12 04:54	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/12 04:54	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/12 04:54	1
Tetrachloroethene	ND		1.0		ug/L			04/06/12 04:54	1
Tetrahydrofuran	ND		10		ug/L			04/06/12 04:54	1
Toluene	ND		1.0		ug/L			04/06/12 04:54	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/12 04:54	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 04:54	1
<b>Trichloroethene</b>	<b>13</b>		1.0		ug/L			04/06/12 04:54	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/12 04:54	1
Vinyl chloride	ND		0.50		ug/L			04/06/12 04:54	1

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		70 - 130		04/06/12 04:54	1
Dibromofluoromethane	102		70 - 130		04/06/12 04:54	1
Toluene-d8 (Surr)	100		70 - 130		04/06/12 04:54	1

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

**Date Collected: 04/03/12 12:35**

**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-10**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10		ug/L			04/06/12 05:15	10
1,1,1-Trichloroethane	ND		10		ug/L			04/06/12 05:15	10
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			04/06/12 05:15	10
1,1,2-Trichloroethane	ND		10		ug/L			04/06/12 05:15	10
1,1-Dichloroethane	ND		10		ug/L			04/06/12 05:15	10
1,1-Dichloroethene	ND		10		ug/L			04/06/12 05:15	10
1,1-Dichloropropene	ND		10		ug/L			04/06/12 05:15	10
1,2,3-Trichlorobenzene	ND		10		ug/L			04/06/12 05:15	10
1,2,3-Trichloropropane	ND		10		ug/L			04/06/12 05:15	10
1,2,4-Trichlorobenzene	ND		10		ug/L			04/06/12 05:15	10
1,2,4-Trimethylbenzene	ND		10		ug/L			04/06/12 05:15	10
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			04/06/12 05:15	10
1,2-Dichlorobenzene	ND		10		ug/L			04/06/12 05:15	10
1,2-Dichloroethane	ND		10		ug/L			04/06/12 05:15	10
1,2-Dichloropropane	ND		10		ug/L			04/06/12 05:15	10
1,3,5-Trimethylbenzene	ND		10		ug/L			04/06/12 05:15	10
1,3-Dichlorobenzene	ND		10		ug/L			04/06/12 05:15	10
1,3-Dichloropropane	ND		10		ug/L			04/06/12 05:15	10
1,4-Dichlorobenzene	ND		10		ug/L			04/06/12 05:15	10
1,4-Dioxane	ND		500		ug/L			04/06/12 05:15	10
2,2-Dichloropropane	ND		10		ug/L			04/06/12 05:15	10
2-Butanone (MEK)	ND	*	100		ug/L			04/06/12 05:15	10
2-Chlorotoluene	ND		10		ug/L			04/06/12 05:15	10
2-Hexanone	ND		100		ug/L			04/06/12 05:15	10
4-Chlorotoluene	ND		10		ug/L			04/06/12 05:15	10
4-Isopropyltoluene	ND		10		ug/L			04/06/12 05:15	10
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			04/06/12 05:15	10
Acetone	ND	*	500		ug/L			04/06/12 05:15	10
Benzene	ND		10		ug/L			04/06/12 05:15	10
Bromobenzene	ND		10		ug/L			04/06/12 05:15	10
Bromoform	ND		10		ug/L			04/06/12 05:15	10
Bromomethane	ND		20		ug/L			04/06/12 05:15	10
Carbon disulfide	ND		100		ug/L			04/06/12 05:15	10
Carbon tetrachloride	ND		10		ug/L			04/06/12 05:15	10
Chlorobenzene	ND		10		ug/L			04/06/12 05:15	10
Chlorobromomethane	ND		10		ug/L			04/06/12 05:15	10
Chlorodibromomethane	ND		5.0		ug/L			04/06/12 05:15	10
Chloroethane	ND		20		ug/L			04/06/12 05:15	10
Chloroform	ND		10		ug/L			04/06/12 05:15	10
Chloromethane	ND		20		ug/L			04/06/12 05:15	10
<b>cis-1,2-Dichloroethene</b>	<b>210</b>		10		ug/L			04/06/12 05:15	10
cis-1,3-Dichloropropene	ND		4.0		ug/L			04/06/12 05:15	10
Dibromomethane	ND		10		ug/L			04/06/12 05:15	10
Dichlorobromomethane	ND		5.0		ug/L			04/06/12 05:15	10
Dichlorodifluoromethane	ND	*	10		ug/L			04/06/12 05:15	10
Ethyl ether	ND		10		ug/L			04/06/12 05:15	10



# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

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

**Date Collected: 04/03/12 12:35**

**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-10**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		10		ug/L			04/06/12 05:15	10
Ethylene Dibromide	ND		10		ug/L			04/06/12 05:15	10
Hexachlorobutadiene	ND		4.0		ug/L			04/06/12 05:15	10
Isopropyl ether	ND		100		ug/L			04/06/12 05:15	10
Isopropylbenzene	ND		10		ug/L			04/06/12 05:15	10
m-Xylene & p-Xylene	ND		20		ug/L			04/06/12 05:15	10
Methyl tert-butyl ether	ND		10		ug/L			04/06/12 05:15	10
Methylene Chloride	ND		20		ug/L			04/06/12 05:15	10
n-Butylbenzene	ND		10		ug/L			04/06/12 05:15	10
N-Propylbenzene	ND		10		ug/L			04/06/12 05:15	10
Naphthalene	ND		50		ug/L			04/06/12 05:15	10
o-Xylene	ND		10		ug/L			04/06/12 05:15	10
sec-Butylbenzene	ND		10		ug/L			04/06/12 05:15	10
Styrene	ND		10		ug/L			04/06/12 05:15	10
Tert-amyl methyl ether	ND		50		ug/L			04/06/12 05:15	10
Tert-butyl ethyl ether	ND		50		ug/L			04/06/12 05:15	10
tert-Butylbenzene	ND		10		ug/L			04/06/12 05:15	10
<b>Tetrachloroethene</b>	<b>15</b>		10		ug/L			04/06/12 05:15	10
Tetrahydrofuran	ND		100		ug/L			04/06/12 05:15	10
Toluene	ND		10		ug/L			04/06/12 05:15	10
trans-1,2-Dichloroethene	ND		10		ug/L			04/06/12 05:15	10
trans-1,3-Dichloropropene	ND		4.0		ug/L			04/06/12 05:15	10
<b>Trichloroethene</b>	<b>77</b>		10		ug/L			04/06/12 05:15	10
Trichlorofluoromethane	ND		10		ug/L			04/06/12 05:15	10
<b>Vinyl chloride</b>	<b>28</b>		5.0		ug/L			04/06/12 05:15	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		70 - 130		04/06/12 05:15	10
Dibromofluoromethane	101		70 - 130		04/06/12 05:15	10
Toluene-d8 (Surr)	101		70 - 130		04/06/12 05:15	10

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

**Date Collected: 04/02/12 12:30**

**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-11**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10		ug/L			04/06/12 05:37	10
1,1,1-Trichloroethane	ND		10		ug/L			04/06/12 05:37	10
1,1,1,2-Tetrachloroethane	ND		5.0		ug/L			04/06/12 05:37	10
1,1,2-Trichloroethane	ND		10		ug/L			04/06/12 05:37	10
1,1-Dichloroethane	ND		10		ug/L			04/06/12 05:37	10
1,1-Dichloroethene	ND		10		ug/L			04/06/12 05:37	10
1,1-Dichloropropene	ND		10		ug/L			04/06/12 05:37	10
1,2,3-Trichlorobenzene	ND		10		ug/L			04/06/12 05:37	10
1,2,3-Trichloropropane	ND		10		ug/L			04/06/12 05:37	10
1,2,4-Trichlorobenzene	ND		10		ug/L			04/06/12 05:37	10
1,2,4-Trimethylbenzene	ND		10		ug/L			04/06/12 05:37	10
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			04/06/12 05:37	10
1,2-Dichlorobenzene	ND		10		ug/L			04/06/12 05:37	10
1,2-Dichloroethane	ND		10		ug/L			04/06/12 05:37	10
1,2-Dichloropropane	ND		10		ug/L			04/06/12 05:37	10
1,3,5-Trimethylbenzene	ND		10		ug/L			04/06/12 05:37	10

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

Client Sample ID: MW--267S		Lab Sample ID: 360-39842-11							
Date Collected: 04/02/12 12:30		Matrix: Water							
Date Received: 04/04/12 13:00									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		10		ug/L			04/06/12 05:37	10
1,3-Dichloropropane	ND		10		ug/L			04/06/12 05:37	10
1,4-Dichlorobenzene	ND		10		ug/L			04/06/12 05:37	10
1,4-Dioxane	ND		500		ug/L			04/06/12 05:37	10
2,2-Dichloropropane	ND		10		ug/L			04/06/12 05:37	10
2-Butanone (MEK)	ND	*	100		ug/L			04/06/12 05:37	10
2-Chlorotoluene	ND		10		ug/L			04/06/12 05:37	10
2-Hexanone	ND		100		ug/L			04/06/12 05:37	10
4-Chlorotoluene	ND		10		ug/L			04/06/12 05:37	10
4-Isopropyltoluene	ND		10		ug/L			04/06/12 05:37	10
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			04/06/12 05:37	10
Acetone	ND	*	500		ug/L			04/06/12 05:37	10
Benzene	ND		10		ug/L			04/06/12 05:37	10
Bromobenzene	ND		10		ug/L			04/06/12 05:37	10
Bromoform	ND		10		ug/L			04/06/12 05:37	10
Bromomethane	ND		20		ug/L			04/06/12 05:37	10
Carbon disulfide	ND		100		ug/L			04/06/12 05:37	10
Carbon tetrachloride	ND		10		ug/L			04/06/12 05:37	10
Chlorobenzene	ND		10		ug/L			04/06/12 05:37	10
Chlorobromomethane	ND		10		ug/L			04/06/12 05:37	10
Chlorodibromomethane	ND		5.0		ug/L			04/06/12 05:37	10
Chloroethane	ND		20		ug/L			04/06/12 05:37	10
Chloroform	ND		10		ug/L			04/06/12 05:37	10
Chloromethane	ND		20		ug/L			04/06/12 05:37	10
<b>cis-1,2-Dichloroethene</b>	<b>78</b>		10		ug/L			04/06/12 05:37	10
cis-1,3-Dichloropropene	ND		4.0		ug/L			04/06/12 05:37	10
Dibromomethane	ND		10		ug/L			04/06/12 05:37	10
Dichlorobromomethane	ND		5.0		ug/L			04/06/12 05:37	10
Dichlorodifluoromethane	ND	*	10		ug/L			04/06/12 05:37	10
Ethyl ether	ND		10		ug/L			04/06/12 05:37	10
Ethylbenzene	ND		10		ug/L			04/06/12 05:37	10
Ethylene Dibromide	ND		10		ug/L			04/06/12 05:37	10
Hexachlorobutadiene	ND		4.0		ug/L			04/06/12 05:37	10
Isopropyl ether	ND		100		ug/L			04/06/12 05:37	10
Isopropylbenzene	ND		10		ug/L			04/06/12 05:37	10
m-Xylene & p-Xylene	ND		20		ug/L			04/06/12 05:37	10
Methyl tert-butyl ether	ND		10		ug/L			04/06/12 05:37	10
Methylene Chloride	ND		20		ug/L			04/06/12 05:37	10
n-Butylbenzene	ND		10		ug/L			04/06/12 05:37	10
N-Propylbenzene	ND		10		ug/L			04/06/12 05:37	10
Naphthalene	ND		50		ug/L			04/06/12 05:37	10
o-Xylene	ND		10		ug/L			04/06/12 05:37	10
sec-Butylbenzene	ND		10		ug/L			04/06/12 05:37	10
Styrene	ND		10		ug/L			04/06/12 05:37	10
Tert-amyl methyl ether	ND		50		ug/L			04/06/12 05:37	10
Tert-butyl ethyl ether	ND		50		ug/L			04/06/12 05:37	10
tert-Butylbenzene	ND		10		ug/L			04/06/12 05:37	10
<b>Tetrachloroethene</b>	<b>12</b>		10		ug/L			04/06/12 05:37	10
Tetrahydrofuran	ND		100		ug/L			04/06/12 05:37	10
Toluene	ND		10		ug/L			04/06/12 05:37	10
trans-1,2-Dichloroethene	ND		10		ug/L			04/06/12 05:37	10

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: MW--267S**  
**Date Collected: 04/02/12 12:30**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-11**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		4.0		ug/L			04/06/12 05:37	10
<b>Trichloroethene</b>	<b>470</b>		10		ug/L			04/06/12 05:37	10
Trichlorofluoromethane	ND		10		ug/L			04/06/12 05:37	10
Vinyl chloride	ND		5.0		ug/L			04/06/12 05:37	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		70 - 130					04/06/12 05:37	10
Dibromofluoromethane	100		70 - 130					04/06/12 05:37	10
Toluene-d8 (Surr)	101		70 - 130					04/06/12 05:37	10

**Client Sample ID: MW-267M**  
**Date Collected: 04/02/12 11:25**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-12**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10		ug/L			04/06/12 05:58	10
1,1,1-Trichloroethane	ND		10		ug/L			04/06/12 05:58	10
1,1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			04/06/12 05:58	10
1,1,2-Trichloroethane	ND		10		ug/L			04/06/12 05:58	10
1,1-Dichloroethane	ND		10		ug/L			04/06/12 05:58	10
1,1-Dichloroethene	ND		10		ug/L			04/06/12 05:58	10
1,1-Dichloropropene	ND		10		ug/L			04/06/12 05:58	10
1,2,3-Trichlorobenzene	ND		10		ug/L			04/06/12 05:58	10
1,2,3-Trichloropropane	ND		10		ug/L			04/06/12 05:58	10
1,2,4-Trichlorobenzene	ND		10		ug/L			04/06/12 05:58	10
1,2,4-Trimethylbenzene	ND		10		ug/L			04/06/12 05:58	10
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			04/06/12 05:58	10
1,2-Dichlorobenzene	ND		10		ug/L			04/06/12 05:58	10
1,2-Dichloroethane	ND		10		ug/L			04/06/12 05:58	10
1,2-Dichloropropane	ND		10		ug/L			04/06/12 05:58	10
1,3,5-Trimethylbenzene	ND		10		ug/L			04/06/12 05:58	10
1,3-Dichlorobenzene	ND		10		ug/L			04/06/12 05:58	10
1,3-Dichloropropane	ND		10		ug/L			04/06/12 05:58	10
1,4-Dichlorobenzene	ND		10		ug/L			04/06/12 05:58	10
1,4-Dioxane	ND		500		ug/L			04/06/12 05:58	10
2,2-Dichloropropane	ND		10		ug/L			04/06/12 05:58	10
2-Butanone (MEK)	ND	*	100		ug/L			04/06/12 05:58	10
2-Chlorotoluene	ND		10		ug/L			04/06/12 05:58	10
2-Hexanone	ND		100		ug/L			04/06/12 05:58	10
4-Chlorotoluene	ND		10		ug/L			04/06/12 05:58	10
4-Isopropyltoluene	ND		10		ug/L			04/06/12 05:58	10
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			04/06/12 05:58	10
Acetone	ND	*	500		ug/L			04/06/12 05:58	10
Benzene	ND		10		ug/L			04/06/12 05:58	10
Bromobenzene	ND		10		ug/L			04/06/12 05:58	10
Bromoform	ND		10		ug/L			04/06/12 05:58	10
Bromomethane	ND		20		ug/L			04/06/12 05:58	10
Carbon disulfide	ND		100		ug/L			04/06/12 05:58	10
Carbon tetrachloride	ND		10		ug/L			04/06/12 05:58	10
Chlorobenzene	ND		10		ug/L			04/06/12 05:58	10
Chlorobromomethane	ND		10		ug/L			04/06/12 05:58	10
Chlorodibromomethane	ND		5.0		ug/L			04/06/12 05:58	10

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

Client Sample ID: MW-267M							Lab Sample ID: 360-39842-12			
Date Collected: 04/02/12 11:25							Matrix: Water			
Date Received: 04/04/12 13:00										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloroethane	ND		20		ug/L			04/06/12 05:58	10	
Chloroform	ND		10		ug/L			04/06/12 05:58	10	
Chloromethane	ND		20		ug/L			04/06/12 05:58	10	
<b>cis-1,2-Dichloroethene</b>	<b>280</b>		10		ug/L			04/06/12 05:58	10	
cis-1,3-Dichloropropene	ND		4.0		ug/L			04/06/12 05:58	10	
Dibromomethane	ND		10		ug/L			04/06/12 05:58	10	
Dichlorobromomethane	ND		5.0		ug/L			04/06/12 05:58	10	
Dichlorodifluoromethane	ND	*	10		ug/L			04/06/12 05:58	10	
Ethyl ether	ND		10		ug/L			04/06/12 05:58	10	
Ethylbenzene	ND		10		ug/L			04/06/12 05:58	10	
Ethylene Dibromide	ND		10		ug/L			04/06/12 05:58	10	
Hexachlorobutadiene	ND		4.0		ug/L			04/06/12 05:58	10	
Isopropyl ether	ND		100		ug/L			04/06/12 05:58	10	
Isopropylbenzene	ND		10		ug/L			04/06/12 05:58	10	
m-Xylene & p-Xylene	ND		20		ug/L			04/06/12 05:58	10	
Methyl tert-butyl ether	ND		10		ug/L			04/06/12 05:58	10	
Methylene Chloride	ND		20		ug/L			04/06/12 05:58	10	
n-Butylbenzene	ND		10		ug/L			04/06/12 05:58	10	
N-Propylbenzene	ND		10		ug/L			04/06/12 05:58	10	
Naphthalene	ND		50		ug/L			04/06/12 05:58	10	
o-Xylene	ND		10		ug/L			04/06/12 05:58	10	
sec-Butylbenzene	ND		10		ug/L			04/06/12 05:58	10	
Styrene	ND		10		ug/L			04/06/12 05:58	10	
Tert-amyl methyl ether	ND		50		ug/L			04/06/12 05:58	10	
Tert-butyl ethyl ether	ND		50		ug/L			04/06/12 05:58	10	
tert-Butylbenzene	ND		10		ug/L			04/06/12 05:58	10	
Tetrachloroethene	ND		10		ug/L			04/06/12 05:58	10	
Tetrahydrofuran	ND		100		ug/L			04/06/12 05:58	10	
Toluene	ND		10		ug/L			04/06/12 05:58	10	
trans-1,2-Dichloroethene	ND		10		ug/L			04/06/12 05:58	10	
trans-1,3-Dichloropropene	ND		4.0		ug/L			04/06/12 05:58	10	
<b>Trichloroethene</b>	<b>170</b>		10		ug/L			04/06/12 05:58	10	
Trichlorofluoromethane	ND		10		ug/L			04/06/12 05:58	10	
<b>Vinyl chloride</b>	<b>15</b>		5.0		ug/L			04/06/12 05:58	10	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene	100		70 - 130					04/06/12 05:58	10	
Dibromofluoromethane	104		70 - 130					04/06/12 05:58	10	
Toluene-d8 (Surr)	100		70 - 130					04/06/12 05:58	10	

Client Sample ID: MW-268M							Lab Sample ID: 360-39842-13			
Date Collected: 04/02/12 10:15							Matrix: Water			
Date Received: 04/04/12 13:00										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,1,1,2-Tetrachloroethane	ND		100		ug/L			04/06/12 18:10	100	
1,1,1-Trichloroethane	ND		100		ug/L			04/06/12 18:10	100	
1,1,2,2-Tetrachloroethane	ND		50		ug/L			04/06/12 18:10	100	
1,1,2-Trichloroethane	ND		100		ug/L			04/06/12 18:10	100	
1,1-Dichloroethane	ND		100		ug/L			04/06/12 18:10	100	
1,1-Dichloroethene	ND		100		ug/L			04/06/12 18:10	100	
1,1-Dichloropropene	ND		100		ug/L			04/06/12 18:10	100	

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

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

**Date Collected: 04/02/12 10:15**

**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-13**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		100		ug/L			04/06/12 18:10	100
1,2,3-Trichloropropane	ND		100		ug/L			04/06/12 18:10	100
1,2,4-Trichlorobenzene	ND		100		ug/L			04/06/12 18:10	100
1,2,4-Trimethylbenzene	ND		100		ug/L			04/06/12 18:10	100
1,2-Dibromo-3-Chloropropane	ND		500		ug/L			04/06/12 18:10	100
1,2-Dichlorobenzene	ND		100		ug/L			04/06/12 18:10	100
1,2-Dichloroethane	ND		100		ug/L			04/06/12 18:10	100
1,2-Dichloropropane	ND		100		ug/L			04/06/12 18:10	100
1,3,5-Trimethylbenzene	ND		100		ug/L			04/06/12 18:10	100
1,3-Dichlorobenzene	ND		100		ug/L			04/06/12 18:10	100
1,3-Dichloropropane	ND		100		ug/L			04/06/12 18:10	100
1,4-Dichlorobenzene	ND		100		ug/L			04/06/12 18:10	100
1,4-Dioxane	ND		5000		ug/L			04/06/12 18:10	100
2,2-Dichloropropane	ND		100		ug/L			04/06/12 18:10	100
2-Butanone (MEK)	ND	*	1000		ug/L			04/06/12 18:10	100
2-Chlorotoluene	ND		100		ug/L			04/06/12 18:10	100
2-Hexanone	ND		1000		ug/L			04/06/12 18:10	100
4-Chlorotoluene	ND		100		ug/L			04/06/12 18:10	100
4-Isopropyltoluene	ND		100		ug/L			04/06/12 18:10	100
4-Methyl-2-pentanone (MIBK)	ND		1000		ug/L			04/06/12 18:10	100
Acetone	ND	*	5000		ug/L			04/06/12 18:10	100
Benzene	ND		100		ug/L			04/06/12 18:10	100
Bromobenzene	ND		100		ug/L			04/06/12 18:10	100
Bromoform	ND		100		ug/L			04/06/12 18:10	100
Bromomethane	ND		200		ug/L			04/06/12 18:10	100
Carbon disulfide	ND		1000		ug/L			04/06/12 18:10	100
Carbon tetrachloride	ND		100		ug/L			04/06/12 18:10	100
Chlorobenzene	ND		100		ug/L			04/06/12 18:10	100
Chlorobromomethane	ND		100		ug/L			04/06/12 18:10	100
Chlorodibromomethane	ND		50		ug/L			04/06/12 18:10	100
Chloroethane	ND		200		ug/L			04/06/12 18:10	100
Chloroform	ND		100		ug/L			04/06/12 18:10	100
Chloromethane	ND		200		ug/L			04/06/12 18:10	100
<b>cis-1,2-Dichloroethene</b>	<b>2600</b>		100		ug/L			04/06/12 18:10	100
cis-1,3-Dichloropropene	ND		40		ug/L			04/06/12 18:10	100
Dibromomethane	ND		100		ug/L			04/06/12 18:10	100
Dichlorobromomethane	ND		50		ug/L			04/06/12 18:10	100
Dichlorodifluoromethane	ND		100		ug/L			04/06/12 18:10	100
Ethyl ether	ND		100		ug/L			04/06/12 18:10	100
Ethylbenzene	ND		100		ug/L			04/06/12 18:10	100
Ethylene Dibromide	ND		100		ug/L			04/06/12 18:10	100
Hexachlorobutadiene	ND		40		ug/L			04/06/12 18:10	100
Isopropyl ether	ND		1000		ug/L			04/06/12 18:10	100
Isopropylbenzene	ND		100		ug/L			04/06/12 18:10	100
m-Xylene & p-Xylene	ND		200		ug/L			04/06/12 18:10	100
Methyl tert-butyl ether	ND		100		ug/L			04/06/12 18:10	100
Methylene Chloride	ND		200		ug/L			04/06/12 18:10	100
n-Butylbenzene	ND		100		ug/L			04/06/12 18:10	100
N-Propylbenzene	ND		100		ug/L			04/06/12 18:10	100
Naphthalene	ND		500		ug/L			04/06/12 18:10	100
o-Xylene	ND		100		ug/L			04/06/12 18:10	100

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: MW-268M**  
**Date Collected: 04/02/12 10:15**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-13**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		100		ug/L			04/06/12 18:10	100
Styrene	ND		100		ug/L			04/06/12 18:10	100
Tert-amyl methyl ether	ND		500		ug/L			04/06/12 18:10	100
Tert-butyl ethyl ether	ND		500		ug/L			04/06/12 18:10	100
tert-Butylbenzene	ND		100		ug/L			04/06/12 18:10	100
Tetrachloroethene	ND		100		ug/L			04/06/12 18:10	100
Tetrahydrofuran	ND		1000		ug/L			04/06/12 18:10	100
Toluene	ND		100		ug/L			04/06/12 18:10	100
trans-1,2-Dichloroethene	ND		100		ug/L			04/06/12 18:10	100
trans-1,3-Dichloropropene	ND		40		ug/L			04/06/12 18:10	100
<b>Trichloroethene</b>	<b>1300</b>		100		ug/L			04/06/12 18:10	100
Trichlorofluoromethane	ND		100		ug/L			04/06/12 18:10	100
<b>Vinyl chloride</b>	<b>120</b>		50		ug/L			04/06/12 18:10	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		70 - 130					04/06/12 18:10	100
Dibromofluoromethane	103		70 - 130					04/06/12 18:10	100
Toluene-d8 (Surr)	101		70 - 130					04/06/12 18:10	100

**Client Sample ID: MW-268D**  
**Date Collected: 04/03/12 11:15**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-14**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/12 18:32	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/12 18:32	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/12 18:32	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/12 18:32	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/12 18:32	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/12 18:32	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/12 18:32	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/12 18:32	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/12 18:32	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/12 18:32	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/12 18:32	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/12 18:32	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/12 18:32	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/12 18:32	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/12 18:32	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/12 18:32	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/12 18:32	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/12 18:32	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/12 18:32	1
1,4-Dioxane	ND		50		ug/L			04/06/12 18:32	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/12 18:32	1
2-Butanone (MEK)	ND	*	10		ug/L			04/06/12 18:32	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/12 18:32	1
2-Hexanone	ND		10		ug/L			04/06/12 18:32	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/12 18:32	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/12 18:32	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/12 18:32	1
Acetone	ND	*	50		ug/L			04/06/12 18:32	1

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: MW-268D**  
**Date Collected: 04/03/12 11:15**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-14**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			04/06/12 18:32	1
Bromobenzene	ND		1.0		ug/L			04/06/12 18:32	1
Bromoform	ND		1.0		ug/L			04/06/12 18:32	1
Bromomethane	ND		2.0		ug/L			04/06/12 18:32	1
Carbon disulfide	ND		10		ug/L			04/06/12 18:32	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/12 18:32	1
Chlorobenzene	ND		1.0		ug/L			04/06/12 18:32	1
Chlorobromomethane	ND		1.0		ug/L			04/06/12 18:32	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/12 18:32	1
Chloroethane	ND		2.0		ug/L			04/06/12 18:32	1
Chloroform	ND		1.0		ug/L			04/06/12 18:32	1
Chloromethane	ND		2.0		ug/L			04/06/12 18:32	1
<b>cis-1,2-Dichloroethene</b>	<b>10</b>		1.0		ug/L			04/06/12 18:32	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 18:32	1
Dibromomethane	ND		1.0		ug/L			04/06/12 18:32	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/12 18:32	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/12 18:32	1
Ethyl ether	ND		1.0		ug/L			04/06/12 18:32	1
Ethylbenzene	ND		1.0		ug/L			04/06/12 18:32	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/12 18:32	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/12 18:32	1
Isopropyl ether	ND		10		ug/L			04/06/12 18:32	1
Isopropylbenzene	ND		1.0		ug/L			04/06/12 18:32	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/12 18:32	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/12 18:32	1
Methylene Chloride	ND		2.0		ug/L			04/06/12 18:32	1
n-Butylbenzene	ND		1.0		ug/L			04/06/12 18:32	1
N-Propylbenzene	ND		1.0		ug/L			04/06/12 18:32	1
Naphthalene	ND		5.0		ug/L			04/06/12 18:32	1
o-Xylene	ND		1.0		ug/L			04/06/12 18:32	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/12 18:32	1
Styrene	ND		1.0		ug/L			04/06/12 18:32	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/12 18:32	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/12 18:32	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/12 18:32	1
Tetrachloroethene	ND		1.0		ug/L			04/06/12 18:32	1
Tetrahydrofuran	ND		10		ug/L			04/06/12 18:32	1
Toluene	ND		1.0		ug/L			04/06/12 18:32	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/12 18:32	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 18:32	1
<b>Trichloroethene</b>	<b>8.1</b>		1.0		ug/L			04/06/12 18:32	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/12 18:32	1
Vinyl chloride	ND		0.50		ug/L			04/06/12 18:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		70 - 130		04/06/12 18:32	1
Dibromofluoromethane	100		70 - 130		04/06/12 18:32	1
Toluene-d8 (Surr)	100		70 - 130		04/06/12 18:32	1



# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: MW-551**  
**Date Collected: 04/02/12 13:00**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-15**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		200		ug/L			04/06/12 18:54	200
1,1,1-Trichloroethane	ND		200		ug/L			04/06/12 18:54	200
1,1,2,2-Tetrachloroethane	ND		100		ug/L			04/06/12 18:54	200
1,1,2-Trichloroethane	ND		200		ug/L			04/06/12 18:54	200
1,1-Dichloroethane	ND		200		ug/L			04/06/12 18:54	200
1,1-Dichloroethene	ND		200		ug/L			04/06/12 18:54	200
1,1-Dichloropropene	ND		200		ug/L			04/06/12 18:54	200
1,2,3-Trichlorobenzene	ND		200		ug/L			04/06/12 18:54	200
1,2,3-Trichloropropane	ND		200		ug/L			04/06/12 18:54	200
1,2,4-Trichlorobenzene	ND		200		ug/L			04/06/12 18:54	200
1,2,4-Trimethylbenzene	ND		200		ug/L			04/06/12 18:54	200
1,2-Dibromo-3-Chloropropane	ND		1000		ug/L			04/06/12 18:54	200
1,2-Dichlorobenzene	ND		200		ug/L			04/06/12 18:54	200
1,2-Dichloroethane	ND		200		ug/L			04/06/12 18:54	200
1,2-Dichloropropane	ND		200		ug/L			04/06/12 18:54	200
1,3,5-Trimethylbenzene	ND		200		ug/L			04/06/12 18:54	200
1,3-Dichlorobenzene	ND		200		ug/L			04/06/12 18:54	200
1,3-Dichloropropane	ND		200		ug/L			04/06/12 18:54	200
1,4-Dichlorobenzene	ND		200		ug/L			04/06/12 18:54	200
1,4-Dioxane	ND		10000		ug/L			04/06/12 18:54	200
2,2-Dichloropropane	ND		200		ug/L			04/06/12 18:54	200
2-Butanone (MEK)	ND	*	2000		ug/L			04/06/12 18:54	200
2-Chlorotoluene	ND		200		ug/L			04/06/12 18:54	200
2-Hexanone	ND		2000		ug/L			04/06/12 18:54	200
4-Chlorotoluene	ND		200		ug/L			04/06/12 18:54	200
4-Isopropyltoluene	ND		200		ug/L			04/06/12 18:54	200
4-Methyl-2-pentanone (MIBK)	ND		2000		ug/L			04/06/12 18:54	200
<b>Acetone</b>	<b>45000</b>	<b>*</b>	10000		ug/L			04/06/12 18:54	200
Benzene	ND		200		ug/L			04/06/12 18:54	200
Bromobenzene	ND		200		ug/L			04/06/12 18:54	200
Bromoform	ND		200		ug/L			04/06/12 18:54	200
Bromomethane	ND		400		ug/L			04/06/12 18:54	200
Carbon disulfide	ND		2000		ug/L			04/06/12 18:54	200
Carbon tetrachloride	ND		200		ug/L			04/06/12 18:54	200
Chlorobenzene	ND		200		ug/L			04/06/12 18:54	200
Chlorobromomethane	ND		200		ug/L			04/06/12 18:54	200
Chlorodibromomethane	ND		100		ug/L			04/06/12 18:54	200
Chloroethane	ND		400		ug/L			04/06/12 18:54	200
Chloroform	ND		200		ug/L			04/06/12 18:54	200
Chloromethane	ND		400		ug/L			04/06/12 18:54	200
cis-1,2-Dichloroethene	ND		200		ug/L			04/06/12 18:54	200
cis-1,3-Dichloropropene	ND		80		ug/L			04/06/12 18:54	200
Dibromomethane	ND		200		ug/L			04/06/12 18:54	200
Dichlorobromomethane	ND		100		ug/L			04/06/12 18:54	200
Dichlorodifluoromethane	ND		200		ug/L			04/06/12 18:54	200
Ethyl ether	ND		200		ug/L			04/06/12 18:54	200
Ethylbenzene	ND		200		ug/L			04/06/12 18:54	200
Ethylene Dibromide	ND		200		ug/L			04/06/12 18:54	200
Hexachlorobutadiene	ND		80		ug/L			04/06/12 18:54	200
Isopropyl ether	ND		2000		ug/L			04/06/12 18:54	200
Isopropylbenzene	ND		200		ug/L			04/06/12 18:54	200

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: MW-551**  
**Date Collected: 04/02/12 13:00**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-15**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	ND		400		ug/L			04/06/12 18:54	200
Methyl tert-butyl ether	ND		200		ug/L			04/06/12 18:54	200
Methylene Chloride	ND		400		ug/L			04/06/12 18:54	200
n-Butylbenzene	ND		200		ug/L			04/06/12 18:54	200
N-Propylbenzene	ND		200		ug/L			04/06/12 18:54	200
Naphthalene	ND		1000		ug/L			04/06/12 18:54	200
o-Xylene	ND		200		ug/L			04/06/12 18:54	200
sec-Butylbenzene	ND		200		ug/L			04/06/12 18:54	200
Styrene	ND		200		ug/L			04/06/12 18:54	200
Tert-amyl methyl ether	ND		1000		ug/L			04/06/12 18:54	200
Tert-butyl ethyl ether	ND		1000		ug/L			04/06/12 18:54	200
tert-Butylbenzene	ND		200		ug/L			04/06/12 18:54	200
Tetrachloroethene	ND		200		ug/L			04/06/12 18:54	200
Tetrahydrofuran	ND		2000		ug/L			04/06/12 18:54	200
Toluene	ND		200		ug/L			04/06/12 18:54	200
trans-1,2-Dichloroethene	ND		200		ug/L			04/06/12 18:54	200
trans-1,3-Dichloropropene	ND		80		ug/L			04/06/12 18:54	200
Trichloroethene	ND		200		ug/L			04/06/12 18:54	200
Trichlorofluoromethane	ND		200		ug/L			04/06/12 18:54	200
Vinyl chloride	ND		100		ug/L			04/06/12 18:54	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		70 - 130					04/06/12 18:54	200
Dibromofluoromethane	100		70 - 130					04/06/12 18:54	200
Toluene-d8 (Surr)	101		70 - 130					04/06/12 18:54	200

**Client Sample ID: MW-552**  
**Date Collected: 04/02/12 11:00**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-16**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		100		ug/L			04/06/12 19:16	100
1,1,1-Trichloroethane	ND		100		ug/L			04/06/12 19:16	100
1,1,1,2,2-Tetrachloroethane	ND		50		ug/L			04/06/12 19:16	100
1,1,2-Trichloroethane	ND		100		ug/L			04/06/12 19:16	100
1,1-Dichloroethane	ND		100		ug/L			04/06/12 19:16	100
1,1-Dichloroethene	ND		100		ug/L			04/06/12 19:16	100
1,1-Dichloropropene	ND		100		ug/L			04/06/12 19:16	100
1,2,3-Trichlorobenzene	ND		100		ug/L			04/06/12 19:16	100
1,2,3-Trichloropropane	ND		100		ug/L			04/06/12 19:16	100
1,2,4-Trichlorobenzene	ND		100		ug/L			04/06/12 19:16	100
1,2,4-Trimethylbenzene	ND		100		ug/L			04/06/12 19:16	100
1,2-Dibromo-3-Chloropropane	ND		500		ug/L			04/06/12 19:16	100
1,2-Dichlorobenzene	ND		100		ug/L			04/06/12 19:16	100
1,2-Dichloroethane	ND		100		ug/L			04/06/12 19:16	100
1,2-Dichloropropane	ND		100		ug/L			04/06/12 19:16	100
1,3,5-Trimethylbenzene	ND		100		ug/L			04/06/12 19:16	100
1,3-Dichlorobenzene	ND		100		ug/L			04/06/12 19:16	100
1,3-Dichloropropane	ND		100		ug/L			04/06/12 19:16	100
1,4-Dichlorobenzene	ND		100		ug/L			04/06/12 19:16	100
1,4-Dioxane	ND		5000		ug/L			04/06/12 19:16	100
2,2-Dichloropropane	ND		100		ug/L			04/06/12 19:16	100

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

Client Sample ID: MW-552							Lab Sample ID: 360-39842-16		
Date Collected: 04/02/12 11:00							Matrix: Water		
Date Received: 04/04/12 13:00									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND	*	1000		ug/L			04/06/12 19:16	100
2-Chlorotoluene	ND		100		ug/L			04/06/12 19:16	100
2-Hexanone	ND		1000		ug/L			04/06/12 19:16	100
4-Chlorotoluene	ND		100		ug/L			04/06/12 19:16	100
4-Isopropyltoluene	ND		100		ug/L			04/06/12 19:16	100
4-Methyl-2-pentanone (MIBK)	ND		1000		ug/L			04/06/12 19:16	100
<b>Acetone</b>	<b>38000</b>	<b>*</b>	5000		ug/L			04/06/12 19:16	100
Benzene	ND		100		ug/L			04/06/12 19:16	100
Bromobenzene	ND		100		ug/L			04/06/12 19:16	100
Bromoform	ND		100		ug/L			04/06/12 19:16	100
Bromomethane	ND		200		ug/L			04/06/12 19:16	100
Carbon disulfide	ND		1000		ug/L			04/06/12 19:16	100
Carbon tetrachloride	ND		100		ug/L			04/06/12 19:16	100
Chlorobenzene	ND		100		ug/L			04/06/12 19:16	100
Chlorobromomethane	ND		100		ug/L			04/06/12 19:16	100
Chlorodibromomethane	ND		50		ug/L			04/06/12 19:16	100
Chloroethane	ND		200		ug/L			04/06/12 19:16	100
Chloroform	ND		100		ug/L			04/06/12 19:16	100
Chloromethane	ND		200		ug/L			04/06/12 19:16	100
<b>cis-1,2-Dichloroethene</b>	<b>2100</b>		100		ug/L			04/06/12 19:16	100
cis-1,3-Dichloropropene	ND		40		ug/L			04/06/12 19:16	100
Dibromomethane	ND		100		ug/L			04/06/12 19:16	100
Dichlorobromomethane	ND		50		ug/L			04/06/12 19:16	100
Dichlorodifluoromethane	ND		100		ug/L			04/06/12 19:16	100
Ethyl ether	ND		100		ug/L			04/06/12 19:16	100
Ethylbenzene	ND		100		ug/L			04/06/12 19:16	100
Ethylene Dibromide	ND		100		ug/L			04/06/12 19:16	100
Hexachlorobutadiene	ND		40		ug/L			04/06/12 19:16	100
Isopropyl ether	ND		1000		ug/L			04/06/12 19:16	100
Isopropylbenzene	ND		100		ug/L			04/06/12 19:16	100
m-Xylene & p-Xylene	ND		200		ug/L			04/06/12 19:16	100
Methyl tert-butyl ether	ND		100		ug/L			04/06/12 19:16	100
Methylene Chloride	ND		200		ug/L			04/06/12 19:16	100
n-Butylbenzene	ND		100		ug/L			04/06/12 19:16	100
N-Propylbenzene	ND		100		ug/L			04/06/12 19:16	100
Naphthalene	ND		500		ug/L			04/06/12 19:16	100
o-Xylene	ND		100		ug/L			04/06/12 19:16	100
sec-Butylbenzene	ND		100		ug/L			04/06/12 19:16	100
Styrene	ND		100		ug/L			04/06/12 19:16	100
Tert-amyl methyl ether	ND		500		ug/L			04/06/12 19:16	100
Tert-butyl ethyl ether	ND		500		ug/L			04/06/12 19:16	100
tert-Butylbenzene	ND		100		ug/L			04/06/12 19:16	100
Tetrachloroethene	ND		100		ug/L			04/06/12 19:16	100
Tetrahydrofuran	ND		1000		ug/L			04/06/12 19:16	100
Toluene	ND		100		ug/L			04/06/12 19:16	100
trans-1,2-Dichloroethene	ND		100		ug/L			04/06/12 19:16	100
trans-1,3-Dichloropropene	ND		40		ug/L			04/06/12 19:16	100
<b>Trichloroethene</b>	<b>130</b>		100		ug/L			04/06/12 19:16	100
Trichlorofluoromethane	ND		100		ug/L			04/06/12 19:16	100
Vinyl chloride	ND		50		ug/L			04/06/12 19:16	100

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		70 - 130		04/06/12 19:16	100
Dibromofluoromethane	99		70 - 130		04/06/12 19:16	100
Toluene-d8 (Surr)	101		70 - 130		04/06/12 19:16	100

**Client Sample ID: MW-553**

**Lab Sample ID: 360-39842-17**

**Date Collected: 04/02/12 10:00**

**Matrix: Water**

**Date Received: 04/04/12 13:00**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		250		ug/L			04/06/12 19:37	250
1,1,1-Trichloroethane	ND		250		ug/L			04/06/12 19:37	250
1,1,2,2-Tetrachloroethane	ND		130		ug/L			04/06/12 19:37	250
1,1,2-Trichloroethane	ND		250		ug/L			04/06/12 19:37	250
1,1-Dichloroethane	ND		250		ug/L			04/06/12 19:37	250
1,1-Dichloroethene	ND		250		ug/L			04/06/12 19:37	250
1,1-Dichloropropene	ND		250		ug/L			04/06/12 19:37	250
1,2,3-Trichlorobenzene	ND		250		ug/L			04/06/12 19:37	250
1,2,3-Trichloropropane	ND		250		ug/L			04/06/12 19:37	250
1,2,4-Trichlorobenzene	ND		250		ug/L			04/06/12 19:37	250
1,2,4-Trimethylbenzene	ND		250		ug/L			04/06/12 19:37	250
1,2-Dibromo-3-Chloropropane	ND		1300		ug/L			04/06/12 19:37	250
1,2-Dichlorobenzene	ND		250		ug/L			04/06/12 19:37	250
1,2-Dichloroethane	ND		250		ug/L			04/06/12 19:37	250
1,2-Dichloropropane	ND		250		ug/L			04/06/12 19:37	250
1,3,5-Trimethylbenzene	ND		250		ug/L			04/06/12 19:37	250
1,3-Dichlorobenzene	ND		250		ug/L			04/06/12 19:37	250
1,3-Dichloropropane	ND		250		ug/L			04/06/12 19:37	250
1,4-Dichlorobenzene	ND		250		ug/L			04/06/12 19:37	250
1,4-Dioxane	ND		13000		ug/L			04/06/12 19:37	250
2,2-Dichloropropane	ND		250		ug/L			04/06/12 19:37	250
2-Butanone (MEK)	ND	*	2500		ug/L			04/06/12 19:37	250
2-Chlorotoluene	ND		250		ug/L			04/06/12 19:37	250
2-Hexanone	ND		2500		ug/L			04/06/12 19:37	250
4-Chlorotoluene	ND		250		ug/L			04/06/12 19:37	250
4-Isopropyltoluene	ND		250		ug/L			04/06/12 19:37	250
4-Methyl-2-pentanone (MIBK)	ND		2500		ug/L			04/06/12 19:37	250
<b>Acetone</b>	<b>74000</b>	<b>*</b>	13000		ug/L			04/06/12 19:37	250
Benzene	ND		250		ug/L			04/06/12 19:37	250
Bromobenzene	ND		250		ug/L			04/06/12 19:37	250
Bromoform	ND		250		ug/L			04/06/12 19:37	250
Bromomethane	ND		500		ug/L			04/06/12 19:37	250
Carbon disulfide	ND		2500		ug/L			04/06/12 19:37	250
Carbon tetrachloride	ND		250		ug/L			04/06/12 19:37	250
Chlorobenzene	ND		250		ug/L			04/06/12 19:37	250
Chlorobromomethane	ND		250		ug/L			04/06/12 19:37	250
Chlorodibromomethane	ND		130		ug/L			04/06/12 19:37	250
Chloroethane	ND		500		ug/L			04/06/12 19:37	250
Chloroform	ND		250		ug/L			04/06/12 19:37	250
Chloromethane	ND		500		ug/L			04/06/12 19:37	250
<b>cis-1,2-Dichloroethene</b>	<b>390</b>		250		ug/L			04/06/12 19:37	250
cis-1,3-Dichloropropene	ND		100		ug/L			04/06/12 19:37	250
Dibromomethane	ND		250		ug/L			04/06/12 19:37	250
Dichlorobromomethane	ND		130		ug/L			04/06/12 19:37	250
Dichlorodifluoromethane	ND		250		ug/L			04/06/12 19:37	250
Ethyl ether	ND		250		ug/L			04/06/12 19:37	250

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: MW-553**  
**Date Collected: 04/02/12 10:00**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-17**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		250		ug/L			04/06/12 19:37	250
Ethylene Dibromide	ND		250		ug/L			04/06/12 19:37	250
Hexachlorobutadiene	ND		100		ug/L			04/06/12 19:37	250
Isopropyl ether	ND		2500		ug/L			04/06/12 19:37	250
Isopropylbenzene	ND		250		ug/L			04/06/12 19:37	250
m-Xylene & p-Xylene	ND		500		ug/L			04/06/12 19:37	250
Methyl tert-butyl ether	ND		250		ug/L			04/06/12 19:37	250
Methylene Chloride	ND		500		ug/L			04/06/12 19:37	250
n-Butylbenzene	ND		250		ug/L			04/06/12 19:37	250
N-Propylbenzene	ND		250		ug/L			04/06/12 19:37	250
Naphthalene	ND		1300		ug/L			04/06/12 19:37	250
o-Xylene	ND		250		ug/L			04/06/12 19:37	250
sec-Butylbenzene	ND		250		ug/L			04/06/12 19:37	250
Styrene	ND		250		ug/L			04/06/12 19:37	250
Tert-amyl methyl ether	ND		1300		ug/L			04/06/12 19:37	250
Tert-butyl ethyl ether	ND		1300		ug/L			04/06/12 19:37	250
tert-Butylbenzene	ND		250		ug/L			04/06/12 19:37	250
Tetrachloroethene	ND		250		ug/L			04/06/12 19:37	250
Tetrahydrofuran	ND		2500		ug/L			04/06/12 19:37	250
Toluene	ND		250		ug/L			04/06/12 19:37	250
trans-1,2-Dichloroethene	ND		250		ug/L			04/06/12 19:37	250
trans-1,3-Dichloropropene	ND		100		ug/L			04/06/12 19:37	250
Trichloroethene	ND		250		ug/L			04/06/12 19:37	250
Trichlorofluoromethane	ND		250		ug/L			04/06/12 19:37	250
Vinyl chloride	ND		130		ug/L			04/06/12 19:37	250

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		70 - 130		04/06/12 19:37	250
Dibromofluoromethane	100		70 - 130		04/06/12 19:37	250
Toluene-d8 (Surr)	101		70 - 130		04/06/12 19:37	250

**Client Sample ID: MW-560**  
**Date Collected: 04/02/12 10:00**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-18**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/12 19:59	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/12 19:59	1
1,1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/12 19:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/12 19:59	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/12 19:59	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/12 19:59	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/12 19:59	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/12 19:59	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/12 19:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/12 19:59	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/12 19:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/12 19:59	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/12 19:59	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/12 19:59	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/12 19:59	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/12 19:59	1

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: MW-560**  
**Date Collected: 04/02/12 10:00**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-18**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/12 19:59	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/12 19:59	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/12 19:59	1
1,4-Dioxane	ND		50		ug/L			04/06/12 19:59	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/12 19:59	1
2-Butanone (MEK)	ND	*	10		ug/L			04/06/12 19:59	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/12 19:59	1
2-Hexanone	ND		10		ug/L			04/06/12 19:59	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/12 19:59	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/12 19:59	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/12 19:59	1
Acetone	ND	*	50		ug/L			04/06/12 19:59	1
Benzene	ND		1.0		ug/L			04/06/12 19:59	1
Bromobenzene	ND		1.0		ug/L			04/06/12 19:59	1
Bromoform	ND		1.0		ug/L			04/06/12 19:59	1
Bromomethane	ND		2.0		ug/L			04/06/12 19:59	1
Carbon disulfide	ND		10		ug/L			04/06/12 19:59	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/12 19:59	1
Chlorobenzene	ND		1.0		ug/L			04/06/12 19:59	1
Chlorobromomethane	ND		1.0		ug/L			04/06/12 19:59	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/12 19:59	1
Chloroethane	ND		2.0		ug/L			04/06/12 19:59	1
Chloroform	ND		1.0		ug/L			04/06/12 19:59	1
Chloromethane	ND		2.0		ug/L			04/06/12 19:59	1
<b>cis-1,2-Dichloroethene</b>	<b>1.7</b>		1.0		ug/L			04/06/12 19:59	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 19:59	1
Dibromomethane	ND		1.0		ug/L			04/06/12 19:59	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/12 19:59	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/12 19:59	1
Ethyl ether	ND		1.0		ug/L			04/06/12 19:59	1
Ethylbenzene	ND		1.0		ug/L			04/06/12 19:59	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/12 19:59	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/12 19:59	1
Isopropyl ether	ND		10		ug/L			04/06/12 19:59	1
Isopropylbenzene	ND		1.0		ug/L			04/06/12 19:59	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/12 19:59	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/12 19:59	1
Methylene Chloride	ND		2.0		ug/L			04/06/12 19:59	1
n-Butylbenzene	ND		1.0		ug/L			04/06/12 19:59	1
N-Propylbenzene	ND		1.0		ug/L			04/06/12 19:59	1
Naphthalene	ND		5.0		ug/L			04/06/12 19:59	1
o-Xylene	ND		1.0		ug/L			04/06/12 19:59	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/12 19:59	1
Styrene	ND		1.0		ug/L			04/06/12 19:59	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/12 19:59	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/12 19:59	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/12 19:59	1
Tetrachloroethene	ND		1.0		ug/L			04/06/12 19:59	1
Tetrahydrofuran	ND		10		ug/L			04/06/12 19:59	1
Toluene	ND		1.0		ug/L			04/06/12 19:59	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/12 19:59	1

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: MW-560**  
**Date Collected: 04/02/12 10:00**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-18**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 19:59	1
<b>Trichloroethene</b>	<b>3.2</b>		1.0		ug/L			04/06/12 19:59	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/12 19:59	1
<b>Vinyl chloride</b>	<b>0.60</b>		0.50		ug/L			04/06/12 19:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		70 - 130					04/06/12 19:59	1
Dibromofluoromethane	102		70 - 130					04/06/12 19:59	1
Toluene-d8 (Surr)	97		70 - 130					04/06/12 19:59	1

**Client Sample ID: MW-561**  
**Date Collected: 04/02/12 13:40**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-19**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		100		ug/L			04/06/12 20:21	100
1,1,1-Trichloroethane	ND		100		ug/L			04/06/12 20:21	100
1,1,1,2,2-Tetrachloroethane	ND		50		ug/L			04/06/12 20:21	100
1,1,1,2-Trichloroethane	ND		100		ug/L			04/06/12 20:21	100
1,1-Dichloroethane	ND		100		ug/L			04/06/12 20:21	100
1,1-Dichloroethene	ND		100		ug/L			04/06/12 20:21	100
1,1-Dichloropropene	ND		100		ug/L			04/06/12 20:21	100
1,2,3-Trichlorobenzene	ND		100		ug/L			04/06/12 20:21	100
1,2,3-Trichloropropane	ND		100		ug/L			04/06/12 20:21	100
1,2,4-Trichlorobenzene	ND		100		ug/L			04/06/12 20:21	100
1,2,4-Trimethylbenzene	ND		100		ug/L			04/06/12 20:21	100
1,2-Dibromo-3-Chloropropane	ND		500		ug/L			04/06/12 20:21	100
1,2-Dichlorobenzene	ND		100		ug/L			04/06/12 20:21	100
1,2-Dichloroethane	ND		100		ug/L			04/06/12 20:21	100
1,2-Dichloropropane	ND		100		ug/L			04/06/12 20:21	100
1,3,5-Trimethylbenzene	ND		100		ug/L			04/06/12 20:21	100
1,3-Dichlorobenzene	ND		100		ug/L			04/06/12 20:21	100
1,3-Dichloropropane	ND		100		ug/L			04/06/12 20:21	100
1,4-Dichlorobenzene	ND		100		ug/L			04/06/12 20:21	100
1,4-Dioxane	ND		5000		ug/L			04/06/12 20:21	100
2,2-Dichloropropane	ND		100		ug/L			04/06/12 20:21	100
2-Butanone (MEK)	ND	*	1000		ug/L			04/06/12 20:21	100
2-Chlorotoluene	ND		100		ug/L			04/06/12 20:21	100
2-Hexanone	ND		1000		ug/L			04/06/12 20:21	100
4-Chlorotoluene	ND		100		ug/L			04/06/12 20:21	100
4-Isopropyltoluene	ND		100		ug/L			04/06/12 20:21	100
4-Methyl-2-pentanone (MIBK)	ND		1000		ug/L			04/06/12 20:21	100
Acetone	ND	*	5000		ug/L			04/06/12 20:21	100
Benzene	ND		100		ug/L			04/06/12 20:21	100
Bromobenzene	ND		100		ug/L			04/06/12 20:21	100
Bromoform	ND		100		ug/L			04/06/12 20:21	100
Bromomethane	ND		200		ug/L			04/06/12 20:21	100
Carbon disulfide	ND		1000		ug/L			04/06/12 20:21	100
Carbon tetrachloride	ND		100		ug/L			04/06/12 20:21	100
Chlorobenzene	ND		100		ug/L			04/06/12 20:21	100
Chlorobromomethane	ND		100		ug/L			04/06/12 20:21	100
Chlorodibromomethane	ND		50		ug/L			04/06/12 20:21	100

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: MW-561**  
**Date Collected: 04/02/12 13:40**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-19**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		200		ug/L			04/06/12 20:21	100
Chloroform	ND		100		ug/L			04/06/12 20:21	100
Chloromethane	ND		200		ug/L			04/06/12 20:21	100
<b>cis-1,2-Dichloroethene</b>	<b>1700</b>		100		ug/L			04/06/12 20:21	100
cis-1,3-Dichloropropene	ND		40		ug/L			04/06/12 20:21	100
Dibromomethane	ND		100		ug/L			04/06/12 20:21	100
Dichlorobromomethane	ND		50		ug/L			04/06/12 20:21	100
Dichlorodifluoromethane	ND		100		ug/L			04/06/12 20:21	100
Ethyl ether	ND		100		ug/L			04/06/12 20:21	100
Ethylbenzene	ND		100		ug/L			04/06/12 20:21	100
Ethylene Dibromide	ND		100		ug/L			04/06/12 20:21	100
Hexachlorobutadiene	ND		40		ug/L			04/06/12 20:21	100
Isopropyl ether	ND		1000		ug/L			04/06/12 20:21	100
Isopropylbenzene	ND		100		ug/L			04/06/12 20:21	100
m-Xylene & p-Xylene	ND		200		ug/L			04/06/12 20:21	100
Methyl tert-butyl ether	ND		100		ug/L			04/06/12 20:21	100
Methylene Chloride	ND		200		ug/L			04/06/12 20:21	100
n-Butylbenzene	ND		100		ug/L			04/06/12 20:21	100
N-Propylbenzene	ND		100		ug/L			04/06/12 20:21	100
Naphthalene	ND		500		ug/L			04/06/12 20:21	100
o-Xylene	ND		100		ug/L			04/06/12 20:21	100
sec-Butylbenzene	ND		100		ug/L			04/06/12 20:21	100
Styrene	ND		100		ug/L			04/06/12 20:21	100
Tert-amyl methyl ether	ND		500		ug/L			04/06/12 20:21	100
Tert-butyl ethyl ether	ND		500		ug/L			04/06/12 20:21	100
tert-Butylbenzene	ND		100		ug/L			04/06/12 20:21	100
<b>Tetrachloroethene</b>	<b>170</b>		100		ug/L			04/06/12 20:21	100
Tetrahydrofuran	ND		1000		ug/L			04/06/12 20:21	100
Toluene	ND		100		ug/L			04/06/12 20:21	100
trans-1,2-Dichloroethene	ND		100		ug/L			04/06/12 20:21	100
trans-1,3-Dichloropropene	ND		40		ug/L			04/06/12 20:21	100
<b>Trichloroethene</b>	<b>3100</b>		100		ug/L			04/06/12 20:21	100
Trichlorofluoromethane	ND		100		ug/L			04/06/12 20:21	100
<b>Vinyl chloride</b>	<b>160</b>		50		ug/L			04/06/12 20:21	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		70 - 130		04/06/12 20:21	100
Dibromofluoromethane	100		70 - 130		04/06/12 20:21	100
Toluene-d8 (Surr)	101		70 - 130		04/06/12 20:21	100

**Client Sample ID: MW-562**  
**Date Collected: 04/03/12 14:05**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-20**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		100		ug/L			04/06/12 20:43	100
1,1,1-Trichloroethane	ND		100		ug/L			04/06/12 20:43	100
1,1,2,2-Tetrachloroethane	ND		50		ug/L			04/06/12 20:43	100
1,1,2-Trichloroethane	ND		100		ug/L			04/06/12 20:43	100
1,1-Dichloroethane	ND		100		ug/L			04/06/12 20:43	100
1,1-Dichloroethene	ND		100		ug/L			04/06/12 20:43	100
1,1-Dichloropropene	ND		100		ug/L			04/06/12 20:43	100



# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: MW-562**  
**Date Collected: 04/03/12 14:05**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-20**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		100		ug/L			04/06/12 20:43	100
1,2,3-Trichloropropane	ND		100		ug/L			04/06/12 20:43	100
1,2,4-Trichlorobenzene	ND		100		ug/L			04/06/12 20:43	100
1,2,4-Trimethylbenzene	ND		100		ug/L			04/06/12 20:43	100
1,2-Dibromo-3-Chloropropane	ND		500		ug/L			04/06/12 20:43	100
1,2-Dichlorobenzene	ND		100		ug/L			04/06/12 20:43	100
1,2-Dichloroethane	ND		100		ug/L			04/06/12 20:43	100
1,2-Dichloropropane	ND		100		ug/L			04/06/12 20:43	100
1,3,5-Trimethylbenzene	ND		100		ug/L			04/06/12 20:43	100
1,3-Dichlorobenzene	ND		100		ug/L			04/06/12 20:43	100
1,3-Dichloropropane	ND		100		ug/L			04/06/12 20:43	100
1,4-Dichlorobenzene	ND		100		ug/L			04/06/12 20:43	100
1,4-Dioxane	ND		5000		ug/L			04/06/12 20:43	100
2,2-Dichloropropane	ND		100		ug/L			04/06/12 20:43	100
2-Butanone (MEK)	ND	*	1000		ug/L			04/06/12 20:43	100
2-Chlorotoluene	ND		100		ug/L			04/06/12 20:43	100
2-Hexanone	ND		1000		ug/L			04/06/12 20:43	100
4-Chlorotoluene	ND		100		ug/L			04/06/12 20:43	100
4-Isopropyltoluene	ND		100		ug/L			04/06/12 20:43	100
4-Methyl-2-pentanone (MIBK)	ND		1000		ug/L			04/06/12 20:43	100
<b>Acetone</b>	<b>30000</b>	*	5000		ug/L			04/06/12 20:43	100
Benzene	ND		100		ug/L			04/06/12 20:43	100
Bromobenzene	ND		100		ug/L			04/06/12 20:43	100
Bromoform	ND		100		ug/L			04/06/12 20:43	100
Bromomethane	ND		200		ug/L			04/06/12 20:43	100
Carbon disulfide	ND		1000		ug/L			04/06/12 20:43	100
Carbon tetrachloride	ND		100		ug/L			04/06/12 20:43	100
Chlorobenzene	ND		100		ug/L			04/06/12 20:43	100
Chlorobromomethane	ND		100		ug/L			04/06/12 20:43	100
Chlorodibromomethane	ND		50		ug/L			04/06/12 20:43	100
Chloroethane	ND		200		ug/L			04/06/12 20:43	100
Chloroform	ND		100		ug/L			04/06/12 20:43	100
Chloromethane	ND		200		ug/L			04/06/12 20:43	100
<b>cis-1,2-Dichloroethene</b>	<b>300</b>		100		ug/L			04/06/12 20:43	100
cis-1,3-Dichloropropene	ND		40		ug/L			04/06/12 20:43	100
Dibromomethane	ND		100		ug/L			04/06/12 20:43	100
Dichlorobromomethane	ND		50		ug/L			04/06/12 20:43	100
Dichlorodifluoromethane	ND		100		ug/L			04/06/12 20:43	100
Ethyl ether	ND		100		ug/L			04/06/12 20:43	100
Ethylbenzene	ND		100		ug/L			04/06/12 20:43	100
Ethylene Dibromide	ND		100		ug/L			04/06/12 20:43	100
Hexachlorobutadiene	ND		40		ug/L			04/06/12 20:43	100
Isopropyl ether	ND		1000		ug/L			04/06/12 20:43	100
Isopropylbenzene	ND		100		ug/L			04/06/12 20:43	100
m-Xylene & p-Xylene	ND		200		ug/L			04/06/12 20:43	100
Methyl tert-butyl ether	ND		100		ug/L			04/06/12 20:43	100
Methylene Chloride	ND		200		ug/L			04/06/12 20:43	100
n-Butylbenzene	ND		100		ug/L			04/06/12 20:43	100
N-Propylbenzene	ND		100		ug/L			04/06/12 20:43	100
Naphthalene	ND		500		ug/L			04/06/12 20:43	100
o-Xylene	ND		100		ug/L			04/06/12 20:43	100

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: MW-562**  
**Date Collected: 04/03/12 14:05**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-20**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		100		ug/L			04/06/12 20:43	100
Styrene	ND		100		ug/L			04/06/12 20:43	100
Tert-amyl methyl ether	ND		500		ug/L			04/06/12 20:43	100
Tert-butyl ethyl ether	ND		500		ug/L			04/06/12 20:43	100
tert-Butylbenzene	ND		100		ug/L			04/06/12 20:43	100
Tetrachloroethene	ND		100		ug/L			04/06/12 20:43	100
Tetrahydrofuran	ND		1000		ug/L			04/06/12 20:43	100
Toluene	ND		100		ug/L			04/06/12 20:43	100
trans-1,2-Dichloroethene	ND		100		ug/L			04/06/12 20:43	100
trans-1,3-Dichloropropene	ND		40		ug/L			04/06/12 20:43	100
Trichloroethene	ND		100		ug/L			04/06/12 20:43	100
Trichlorofluoromethane	ND		100		ug/L			04/06/12 20:43	100
<b>Vinyl chloride</b>	<b>200</b>		50		ug/L			04/06/12 20:43	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	99		70 - 130					04/06/12 20:43	100
Dibromofluoromethane	101		70 - 130					04/06/12 20:43	100
Toluene-d8 (Surr)	101		70 - 130					04/06/12 20:43	100

**Client Sample ID: REW-1**  
**Date Collected: 04/03/12 10:00**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-21**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		100		ug/L			04/06/12 21:04	100
1,1,1-Trichloroethane	ND		100		ug/L			04/06/12 21:04	100
1,1,2,2-Tetrachloroethane	ND		50		ug/L			04/06/12 21:04	100
1,1,2-Trichloroethane	ND		100		ug/L			04/06/12 21:04	100
1,1-Dichloroethane	ND		100		ug/L			04/06/12 21:04	100
1,1-Dichloroethene	ND		100		ug/L			04/06/12 21:04	100
1,1-Dichloropropene	ND		100		ug/L			04/06/12 21:04	100
1,2,3-Trichlorobenzene	ND		100		ug/L			04/06/12 21:04	100
1,2,3-Trichloropropane	ND		100		ug/L			04/06/12 21:04	100
1,2,4-Trichlorobenzene	ND		100		ug/L			04/06/12 21:04	100
1,2,4-Trimethylbenzene	ND		100		ug/L			04/06/12 21:04	100
1,2-Dibromo-3-Chloropropane	ND		500		ug/L			04/06/12 21:04	100
1,2-Dichlorobenzene	ND		100		ug/L			04/06/12 21:04	100
1,2-Dichloroethane	ND		100		ug/L			04/06/12 21:04	100
1,2-Dichloropropane	ND		100		ug/L			04/06/12 21:04	100
1,3,5-Trimethylbenzene	ND		100		ug/L			04/06/12 21:04	100
1,3-Dichlorobenzene	ND		100		ug/L			04/06/12 21:04	100
1,3-Dichloropropane	ND		100		ug/L			04/06/12 21:04	100
1,4-Dichlorobenzene	ND		100		ug/L			04/06/12 21:04	100
1,4-Dioxane	ND		5000		ug/L			04/06/12 21:04	100
2,2-Dichloropropane	ND		100		ug/L			04/06/12 21:04	100
2-Butanone (MEK)	ND	*	1000		ug/L			04/06/12 21:04	100
2-Chlorotoluene	ND		100		ug/L			04/06/12 21:04	100
2-Hexanone	ND		1000		ug/L			04/06/12 21:04	100
4-Chlorotoluene	ND		100		ug/L			04/06/12 21:04	100
4-Isopropyltoluene	ND		100		ug/L			04/06/12 21:04	100
4-Methyl-2-pentanone (MIBK)	ND		1000		ug/L			04/06/12 21:04	100
<b>Acetone</b>	<b>37000</b>	*	5000		ug/L			04/06/12 21:04	100

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: REW-1**

**Date Collected: 04/03/12 10:00**

**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-21**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		100		ug/L			04/06/12 21:04	100
Bromobenzene	ND		100		ug/L			04/06/12 21:04	100
Bromoform	ND		100		ug/L			04/06/12 21:04	100
Bromomethane	ND		200		ug/L			04/06/12 21:04	100
Carbon disulfide	ND		1000		ug/L			04/06/12 21:04	100
Carbon tetrachloride	ND		100		ug/L			04/06/12 21:04	100
Chlorobenzene	ND		100		ug/L			04/06/12 21:04	100
Chlorobromomethane	ND		100		ug/L			04/06/12 21:04	100
Chlorodibromomethane	ND		50		ug/L			04/06/12 21:04	100
Chloroethane	ND		200		ug/L			04/06/12 21:04	100
Chloroform	ND		100		ug/L			04/06/12 21:04	100
Chloromethane	ND		200		ug/L			04/06/12 21:04	100
<b>cis-1,2-Dichloroethene</b>	<b>390</b>		100		ug/L			04/06/12 21:04	100
cis-1,3-Dichloropropene	ND		40		ug/L			04/06/12 21:04	100
Dibromomethane	ND		100		ug/L			04/06/12 21:04	100
Dichlorobromomethane	ND		50		ug/L			04/06/12 21:04	100
Dichlorodifluoromethane	ND		100		ug/L			04/06/12 21:04	100
Ethyl ether	ND		100		ug/L			04/06/12 21:04	100
Ethylbenzene	ND		100		ug/L			04/06/12 21:04	100
Ethylene Dibromide	ND		100		ug/L			04/06/12 21:04	100
Hexachlorobutadiene	ND		40		ug/L			04/06/12 21:04	100
Isopropyl ether	ND		1000		ug/L			04/06/12 21:04	100
Isopropylbenzene	ND		100		ug/L			04/06/12 21:04	100
m-Xylene & p-Xylene	ND		200		ug/L			04/06/12 21:04	100
Methyl tert-butyl ether	ND		100		ug/L			04/06/12 21:04	100
Methylene Chloride	ND		200		ug/L			04/06/12 21:04	100
n-Butylbenzene	ND		100		ug/L			04/06/12 21:04	100
N-Propylbenzene	ND		100		ug/L			04/06/12 21:04	100
Naphthalene	ND		500		ug/L			04/06/12 21:04	100
o-Xylene	ND		100		ug/L			04/06/12 21:04	100
sec-Butylbenzene	ND		100		ug/L			04/06/12 21:04	100
Styrene	ND		100		ug/L			04/06/12 21:04	100
Tert-amyl methyl ether	ND		500		ug/L			04/06/12 21:04	100
Tert-butyl ethyl ether	ND		500		ug/L			04/06/12 21:04	100
tert-Butylbenzene	ND		100		ug/L			04/06/12 21:04	100
Tetrachloroethene	ND		100		ug/L			04/06/12 21:04	100
Tetrahydrofuran	ND		1000		ug/L			04/06/12 21:04	100
Toluene	ND		100		ug/L			04/06/12 21:04	100
trans-1,2-Dichloroethene	ND		100		ug/L			04/06/12 21:04	100
trans-1,3-Dichloropropene	ND		40		ug/L			04/06/12 21:04	100
Trichloroethene	ND		100		ug/L			04/06/12 21:04	100
Trichlorofluoromethane	ND		100		ug/L			04/06/12 21:04	100
<b>Vinyl chloride</b>	<b>170</b>		50		ug/L			04/06/12 21:04	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		70 - 130					04/06/12 21:04	100
Dibromofluoromethane	102		70 - 130					04/06/12 21:04	100
Toluene-d8 (Surr)	101		70 - 130					04/06/12 21:04	100

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: REW-4**

**Date Collected: 04/03/12 11:10**

**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-22**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/12 21:26	1
<b>1,1,1-Trichloroethane</b>	<b>1.3</b>		1.0		ug/L			04/06/12 21:26	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/12 21:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/12 21:26	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/12 21:26	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/12 21:26	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/12 21:26	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/12 21:26	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/12 21:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/12 21:26	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/12 21:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/12 21:26	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/12 21:26	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/12 21:26	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/12 21:26	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/12 21:26	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/12 21:26	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/12 21:26	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/12 21:26	1
1,4-Dioxane	ND		50		ug/L			04/06/12 21:26	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/12 21:26	1
2-Butanone (MEK)	ND *		10		ug/L			04/06/12 21:26	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/12 21:26	1
2-Hexanone	ND		10		ug/L			04/06/12 21:26	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/12 21:26	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/12 21:26	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/12 21:26	1
Acetone	ND *		50		ug/L			04/06/12 21:26	1
Benzene	ND		1.0		ug/L			04/06/12 21:26	1
Bromobenzene	ND		1.0		ug/L			04/06/12 21:26	1
Bromoform	ND		1.0		ug/L			04/06/12 21:26	1
Bromomethane	ND		2.0		ug/L			04/06/12 21:26	1
Carbon disulfide	ND		10		ug/L			04/06/12 21:26	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/12 21:26	1
Chlorobenzene	ND		1.0		ug/L			04/06/12 21:26	1
Chlorobromomethane	ND		1.0		ug/L			04/06/12 21:26	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/12 21:26	1
Chloroethane	ND		2.0		ug/L			04/06/12 21:26	1
Chloroform	ND		1.0		ug/L			04/06/12 21:26	1
Chloromethane	ND		2.0		ug/L			04/06/12 21:26	1
<b>cis-1,2-Dichloroethene</b>	<b>12</b>		1.0		ug/L			04/06/12 21:26	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 21:26	1
Dibromomethane	ND		1.0		ug/L			04/06/12 21:26	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/12 21:26	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/12 21:26	1
Ethyl ether	ND		1.0		ug/L			04/06/12 21:26	1
<b>Ethylbenzene</b>	<b>1.3</b>		1.0		ug/L			04/06/12 21:26	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/12 21:26	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/12 21:26	1
Isopropyl ether	ND		10		ug/L			04/06/12 21:26	1
Isopropylbenzene	ND		1.0		ug/L			04/06/12 21:26	1

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

Client Sample ID: REW-4							Lab Sample ID: 360-39842-22			
Date Collected: 04/03/12 11:10							Matrix: Water			
Date Received: 04/04/12 13:00										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
<b>m-Xylene &amp; p-Xylene</b>	<b>6.0</b>		2.0		ug/L			04/06/12 21:26	1	
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/12 21:26	1	
Methylene Chloride	ND		2.0		ug/L			04/06/12 21:26	1	
n-Butylbenzene	ND		1.0		ug/L			04/06/12 21:26	1	
N-Propylbenzene	ND		1.0		ug/L			04/06/12 21:26	1	
Naphthalene	ND		5.0		ug/L			04/06/12 21:26	1	
<b>o-Xylene</b>	<b>1.6</b>		1.0		ug/L			04/06/12 21:26	1	
sec-Butylbenzene	ND		1.0		ug/L			04/06/12 21:26	1	
Styrene	ND		1.0		ug/L			04/06/12 21:26	1	
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/12 21:26	1	
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/12 21:26	1	
tert-Butylbenzene	ND		1.0		ug/L			04/06/12 21:26	1	
Tetrachloroethene	ND		1.0		ug/L			04/06/12 21:26	1	
Tetrahydrofuran	ND		10		ug/L			04/06/12 21:26	1	
Toluene	ND		1.0		ug/L			04/06/12 21:26	1	
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/12 21:26	1	
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 21:26	1	
<b>Trichloroethene</b>	<b>7.7</b>		1.0		ug/L			04/06/12 21:26	1	
Trichlorofluoromethane	ND		1.0		ug/L			04/06/12 21:26	1	
Vinyl chloride	ND		0.50		ug/L			04/06/12 21:26	1	
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>	
4-Bromofluorobenzene	100		70 - 130					04/06/12 21:26	1	
Dibromofluoromethane	102		70 - 130					04/06/12 21:26	1	
Toluene-d8 (Surr)	100		70 - 130					04/06/12 21:26	1	

Client Sample ID: REW-5							Lab Sample ID: 360-39842-23			
Date Collected: 04/03/12 12:35							Matrix: Water			
Date Received: 04/04/12 13:00										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,1,1,2-Tetrachloroethane	ND		10		ug/L			04/06/12 21:48	10	
1,1,1-Trichloroethane	ND		10		ug/L			04/06/12 21:48	10	
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			04/06/12 21:48	10	
1,1,2-Trichloroethane	ND		10		ug/L			04/06/12 21:48	10	
1,1-Dichloroethane	ND		10		ug/L			04/06/12 21:48	10	
1,1-Dichloroethene	ND		10		ug/L			04/06/12 21:48	10	
1,1-Dichloropropene	ND		10		ug/L			04/06/12 21:48	10	
1,2,3-Trichlorobenzene	ND		10		ug/L			04/06/12 21:48	10	
1,2,3-Trichloropropane	ND		10		ug/L			04/06/12 21:48	10	
1,2,4-Trichlorobenzene	ND		10		ug/L			04/06/12 21:48	10	
1,2,4-Trimethylbenzene	ND		10		ug/L			04/06/12 21:48	10	
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			04/06/12 21:48	10	
1,2-Dichlorobenzene	ND		10		ug/L			04/06/12 21:48	10	
1,2-Dichloroethane	ND		10		ug/L			04/06/12 21:48	10	
1,2-Dichloropropane	ND		10		ug/L			04/06/12 21:48	10	
1,3,5-Trimethylbenzene	ND		10		ug/L			04/06/12 21:48	10	
1,3-Dichlorobenzene	ND		10		ug/L			04/06/12 21:48	10	
1,3-Dichloropropane	ND		10		ug/L			04/06/12 21:48	10	
1,4-Dichlorobenzene	ND		10		ug/L			04/06/12 21:48	10	
1,4-Dioxane	ND		500		ug/L			04/06/12 21:48	10	
2,2-Dichloropropane	ND		10		ug/L			04/06/12 21:48	10	

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: REW-5**  
**Date Collected: 04/03/12 12:35**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-23**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND	*	100		ug/L			04/06/12 21:48	10
2-Chlorotoluene	ND		10		ug/L			04/06/12 21:48	10
2-Hexanone	ND		100		ug/L			04/06/12 21:48	10
4-Chlorotoluene	ND		10		ug/L			04/06/12 21:48	10
4-Isopropyltoluene	ND		10		ug/L			04/06/12 21:48	10
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			04/06/12 21:48	10
Acetone	ND	*	500		ug/L			04/06/12 21:48	10
Benzene	ND		10		ug/L			04/06/12 21:48	10
Bromobenzene	ND		10		ug/L			04/06/12 21:48	10
Bromoform	ND		10		ug/L			04/06/12 21:48	10
Bromomethane	ND		20		ug/L			04/06/12 21:48	10
Carbon disulfide	ND		100		ug/L			04/06/12 21:48	10
Carbon tetrachloride	ND		10		ug/L			04/06/12 21:48	10
Chlorobenzene	ND		10		ug/L			04/06/12 21:48	10
Chlorobromomethane	ND		10		ug/L			04/06/12 21:48	10
Chlorodibromomethane	ND		5.0		ug/L			04/06/12 21:48	10
Chloroethane	ND		20		ug/L			04/06/12 21:48	10
Chloroform	ND		10		ug/L			04/06/12 21:48	10
Chloromethane	ND		20		ug/L			04/06/12 21:48	10
<b>cis-1,2-Dichloroethene</b>	<b>380</b>		10		ug/L			04/06/12 21:48	10
cis-1,3-Dichloropropene	ND		4.0		ug/L			04/06/12 21:48	10
Dibromomethane	ND		10		ug/L			04/06/12 21:48	10
Dichlorobromomethane	ND		5.0		ug/L			04/06/12 21:48	10
Dichlorodifluoromethane	ND		10		ug/L			04/06/12 21:48	10
Ethyl ether	ND		10		ug/L			04/06/12 21:48	10
Ethylbenzene	ND		10		ug/L			04/06/12 21:48	10
Ethylene Dibromide	ND		10		ug/L			04/06/12 21:48	10
Hexachlorobutadiene	ND		4.0		ug/L			04/06/12 21:48	10
Isopropyl ether	ND		100		ug/L			04/06/12 21:48	10
Isopropylbenzene	ND		10		ug/L			04/06/12 21:48	10
m-Xylene & p-Xylene	ND		20		ug/L			04/06/12 21:48	10
Methyl tert-butyl ether	ND		10		ug/L			04/06/12 21:48	10
Methylene Chloride	ND		20		ug/L			04/06/12 21:48	10
n-Butylbenzene	ND		10		ug/L			04/06/12 21:48	10
N-Propylbenzene	ND		10		ug/L			04/06/12 21:48	10
Naphthalene	ND		50		ug/L			04/06/12 21:48	10
o-Xylene	ND		10		ug/L			04/06/12 21:48	10
sec-Butylbenzene	ND		10		ug/L			04/06/12 21:48	10
Styrene	ND		10		ug/L			04/06/12 21:48	10
Tert-amyl methyl ether	ND		50		ug/L			04/06/12 21:48	10
Tert-butyl ethyl ether	ND		50		ug/L			04/06/12 21:48	10
tert-Butylbenzene	ND		10		ug/L			04/06/12 21:48	10
Tetrachloroethene	ND		10		ug/L			04/06/12 21:48	10
Tetrahydrofuran	ND		100		ug/L			04/06/12 21:48	10
Toluene	ND		10		ug/L			04/06/12 21:48	10
trans-1,2-Dichloroethene	ND		10		ug/L			04/06/12 21:48	10
trans-1,3-Dichloropropene	ND		4.0		ug/L			04/06/12 21:48	10
<b>Trichloroethene</b>	<b>140</b>		10		ug/L			04/06/12 21:48	10
Trichlorofluoromethane	ND		10		ug/L			04/06/12 21:48	10
<b>Vinyl chloride</b>	<b>54</b>		5.0		ug/L			04/06/12 21:48	10

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		70 - 130		04/06/12 21:48	10
Dibromofluoromethane	100		70 - 130		04/06/12 21:48	10
Toluene-d8 (Surr)	101		70 - 130		04/06/12 21:48	10

**Client Sample ID: DupX1**

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

**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-24**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		100		ug/L			04/06/12 22:09	100
1,1,1-Trichloroethane	ND		100		ug/L			04/06/12 22:09	100
1,1,2,2-Tetrachloroethane	ND		50		ug/L			04/06/12 22:09	100
1,1,2-Trichloroethane	ND		100		ug/L			04/06/12 22:09	100
1,1-Dichloroethane	ND		100		ug/L			04/06/12 22:09	100
1,1-Dichloroethene	ND		100		ug/L			04/06/12 22:09	100
1,1-Dichloropropene	ND		100		ug/L			04/06/12 22:09	100
1,2,3-Trichlorobenzene	ND		100		ug/L			04/06/12 22:09	100
1,2,3-Trichloropropane	ND		100		ug/L			04/06/12 22:09	100
1,2,4-Trichlorobenzene	ND		100		ug/L			04/06/12 22:09	100
1,2,4-Trimethylbenzene	ND		100		ug/L			04/06/12 22:09	100
1,2-Dibromo-3-Chloropropane	ND		500		ug/L			04/06/12 22:09	100
1,2-Dichlorobenzene	ND		100		ug/L			04/06/12 22:09	100
1,2-Dichloroethane	ND		100		ug/L			04/06/12 22:09	100
1,2-Dichloropropane	ND		100		ug/L			04/06/12 22:09	100
1,3,5-Trimethylbenzene	ND		100		ug/L			04/06/12 22:09	100
1,3-Dichlorobenzene	ND		100		ug/L			04/06/12 22:09	100
1,3-Dichloropropane	ND		100		ug/L			04/06/12 22:09	100
1,4-Dichlorobenzene	ND		100		ug/L			04/06/12 22:09	100
1,4-Dioxane	ND		5000		ug/L			04/06/12 22:09	100
2,2-Dichloropropane	ND		100		ug/L			04/06/12 22:09	100
2-Butanone (MEK)	ND	*	1000		ug/L			04/06/12 22:09	100
2-Chlorotoluene	ND		100		ug/L			04/06/12 22:09	100
2-Hexanone	ND		1000		ug/L			04/06/12 22:09	100
4-Chlorotoluene	ND		100		ug/L			04/06/12 22:09	100
4-Isopropyltoluene	ND		100		ug/L			04/06/12 22:09	100
4-Methyl-2-pentanone (MIBK)	ND		1000		ug/L			04/06/12 22:09	100
Acetone	ND	*	5000		ug/L			04/06/12 22:09	100
Benzene	ND		100		ug/L			04/06/12 22:09	100
Bromobenzene	ND		100		ug/L			04/06/12 22:09	100
Bromoform	ND		100		ug/L			04/06/12 22:09	100
Bromomethane	ND		200		ug/L			04/06/12 22:09	100
Carbon disulfide	ND		1000		ug/L			04/06/12 22:09	100
Carbon tetrachloride	ND		100		ug/L			04/06/12 22:09	100
Chlorobenzene	ND		100		ug/L			04/06/12 22:09	100
Chlorobromomethane	ND		100		ug/L			04/06/12 22:09	100
Chlorodibromomethane	ND		50		ug/L			04/06/12 22:09	100
Chloroethane	ND		200		ug/L			04/06/12 22:09	100
Chloroform	ND		100		ug/L			04/06/12 22:09	100
Chloromethane	ND		200		ug/L			04/06/12 22:09	100
<b>cis-1,2-Dichloroethene</b>	<b>2600</b>		100		ug/L			04/06/12 22:09	100
cis-1,3-Dichloropropene	ND		40		ug/L			04/06/12 22:09	100
Dibromomethane	ND		100		ug/L			04/06/12 22:09	100
Dichlorobromomethane	ND		50		ug/L			04/06/12 22:09	100
Dichlorodifluoromethane	ND		100		ug/L			04/06/12 22:09	100
Ethyl ether	ND		100		ug/L			04/06/12 22:09	100

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: DupX1**

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

**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-24**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		100		ug/L			04/06/12 22:09	100
Ethylene Dibromide	ND		100		ug/L			04/06/12 22:09	100
Hexachlorobutadiene	ND		40		ug/L			04/06/12 22:09	100
Isopropyl ether	ND		1000		ug/L			04/06/12 22:09	100
Isopropylbenzene	ND		100		ug/L			04/06/12 22:09	100
m-Xylene & p-Xylene	ND		200		ug/L			04/06/12 22:09	100
Methyl tert-butyl ether	ND		100		ug/L			04/06/12 22:09	100
Methylene Chloride	ND		200		ug/L			04/06/12 22:09	100
n-Butylbenzene	ND		100		ug/L			04/06/12 22:09	100
N-Propylbenzene	ND		100		ug/L			04/06/12 22:09	100
Naphthalene	ND		500		ug/L			04/06/12 22:09	100
o-Xylene	ND		100		ug/L			04/06/12 22:09	100
sec-Butylbenzene	ND		100		ug/L			04/06/12 22:09	100
Styrene	ND		100		ug/L			04/06/12 22:09	100
Tert-amyl methyl ether	ND		500		ug/L			04/06/12 22:09	100
Tert-butyl ethyl ether	ND		500		ug/L			04/06/12 22:09	100
tert-Butylbenzene	ND		100		ug/L			04/06/12 22:09	100
Tetrachloroethene	ND		100		ug/L			04/06/12 22:09	100
Tetrahydrofuran	ND		1000		ug/L			04/06/12 22:09	100
Toluene	ND		100		ug/L			04/06/12 22:09	100
trans-1,2-Dichloroethene	ND		100		ug/L			04/06/12 22:09	100
trans-1,3-Dichloropropene	ND		40		ug/L			04/06/12 22:09	100
<b>Trichloroethene</b>	<b>1400</b>		100		ug/L			04/06/12 22:09	100
Trichlorofluoromethane	ND		100		ug/L			04/06/12 22:09	100
<b>Vinyl chloride</b>	<b>120</b>		50		ug/L			04/06/12 22:09	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	98		70 - 130		04/06/12 22:09	100
Dibromofluoromethane	101		70 - 130		04/06/12 22:09	100
Toluene-d8 (Surr)	102		70 - 130		04/06/12 22:09	100

**Client Sample ID: DupX2**

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

**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-25**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/12 22:31	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/12 22:31	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/12 22:31	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/12 22:31	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/12 22:31	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/12 22:31	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/12 22:31	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/12 22:31	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/12 22:31	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/12 22:31	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/12 22:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/12 22:31	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/12 22:31	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/12 22:31	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/12 22:31	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/12 22:31	1



# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

Client Sample ID: DupX2							Lab Sample ID: 360-39842-25			
Date Collected: 04/02/12 12:00							Matrix: Water			
Date Received: 04/04/12 13:00										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/12 22:31	1	
1,3-Dichloropropane	ND		1.0		ug/L			04/06/12 22:31	1	
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/12 22:31	1	
1,4-Dioxane	ND		50		ug/L			04/06/12 22:31	1	
2,2-Dichloropropane	ND		1.0		ug/L			04/06/12 22:31	1	
2-Butanone (MEK)	ND	*	10		ug/L			04/06/12 22:31	1	
2-Chlorotoluene	ND		1.0		ug/L			04/06/12 22:31	1	
2-Hexanone	ND		10		ug/L			04/06/12 22:31	1	
4-Chlorotoluene	ND		1.0		ug/L			04/06/12 22:31	1	
4-Isopropyltoluene	ND		1.0		ug/L			04/06/12 22:31	1	
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/12 22:31	1	
Acetone	ND	*	50		ug/L			04/06/12 22:31	1	
Benzene	ND		1.0		ug/L			04/06/12 22:31	1	
Bromobenzene	ND		1.0		ug/L			04/06/12 22:31	1	
Bromoform	ND		1.0		ug/L			04/06/12 22:31	1	
Bromomethane	ND		2.0		ug/L			04/06/12 22:31	1	
Carbon disulfide	ND		10		ug/L			04/06/12 22:31	1	
Carbon tetrachloride	ND		1.0		ug/L			04/06/12 22:31	1	
Chlorobenzene	ND		1.0		ug/L			04/06/12 22:31	1	
Chlorobromomethane	ND		1.0		ug/L			04/06/12 22:31	1	
Chlorodibromomethane	ND		0.50		ug/L			04/06/12 22:31	1	
Chloroethane	ND		2.0		ug/L			04/06/12 22:31	1	
Chloroform	ND		1.0		ug/L			04/06/12 22:31	1	
Chloromethane	ND		2.0		ug/L			04/06/12 22:31	1	
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/06/12 22:31	1	
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 22:31	1	
Dibromomethane	ND		1.0		ug/L			04/06/12 22:31	1	
Dichlorobromomethane	ND		0.50		ug/L			04/06/12 22:31	1	
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/12 22:31	1	
Ethyl ether	ND		1.0		ug/L			04/06/12 22:31	1	
Ethylbenzene	ND		1.0		ug/L			04/06/12 22:31	1	
Ethylene Dibromide	ND		1.0		ug/L			04/06/12 22:31	1	
Hexachlorobutadiene	ND		0.40		ug/L			04/06/12 22:31	1	
Isopropyl ether	ND		10		ug/L			04/06/12 22:31	1	
Isopropylbenzene	ND		1.0		ug/L			04/06/12 22:31	1	
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/12 22:31	1	
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/12 22:31	1	
Methylene Chloride	ND		2.0		ug/L			04/06/12 22:31	1	
n-Butylbenzene	ND		1.0		ug/L			04/06/12 22:31	1	
N-Propylbenzene	ND		1.0		ug/L			04/06/12 22:31	1	
Naphthalene	ND		5.0		ug/L			04/06/12 22:31	1	
o-Xylene	ND		1.0		ug/L			04/06/12 22:31	1	
sec-Butylbenzene	ND		1.0		ug/L			04/06/12 22:31	1	
Styrene	ND		1.0		ug/L			04/06/12 22:31	1	
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/12 22:31	1	
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/12 22:31	1	
tert-Butylbenzene	ND		1.0		ug/L			04/06/12 22:31	1	
Tetrachloroethene	ND		1.0		ug/L			04/06/12 22:31	1	
Tetrahydrofuran	ND		10		ug/L			04/06/12 22:31	1	
Toluene	ND		1.0		ug/L			04/06/12 22:31	1	
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/12 22:31	1	

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: DupX2**

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

**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-25**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 22:31	1
Trichloroethene	ND		1.0		ug/L			04/06/12 22:31	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/12 22:31	1
Vinyl chloride	ND		0.50		ug/L			04/06/12 22:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	100		70 - 130					04/06/12 22:31	1
Dibromofluoromethane	102		70 - 130					04/06/12 22:31	1
Toluene-d8 (Surr)	102		70 - 130					04/06/12 22:31	1

**Client Sample ID: DupX3**

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

**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-26**

**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		10		ug/L			04/06/12 22:53	10
1,1,1-Trichloroethane	ND		10		ug/L			04/06/12 22:53	10
1,1,2,2-Tetrachloroethane	ND		5.0		ug/L			04/06/12 22:53	10
1,1,2-Trichloroethane	ND		10		ug/L			04/06/12 22:53	10
1,1-Dichloroethane	ND		10		ug/L			04/06/12 22:53	10
1,1-Dichloroethene	ND		10		ug/L			04/06/12 22:53	10
1,1-Dichloropropene	ND		10		ug/L			04/06/12 22:53	10
1,2,3-Trichlorobenzene	ND		10		ug/L			04/06/12 22:53	10
1,2,3-Trichloropropane	ND		10		ug/L			04/06/12 22:53	10
1,2,4-Trichlorobenzene	ND		10		ug/L			04/06/12 22:53	10
1,2,4-Trimethylbenzene	ND		10		ug/L			04/06/12 22:53	10
1,2-Dibromo-3-Chloropropane	ND		50		ug/L			04/06/12 22:53	10
1,2-Dichlorobenzene	ND		10		ug/L			04/06/12 22:53	10
1,2-Dichloroethane	ND		10		ug/L			04/06/12 22:53	10
1,2-Dichloropropane	ND		10		ug/L			04/06/12 22:53	10
1,3,5-Trimethylbenzene	ND		10		ug/L			04/06/12 22:53	10
1,3-Dichlorobenzene	ND		10		ug/L			04/06/12 22:53	10
1,3-Dichloropropane	ND		10		ug/L			04/06/12 22:53	10
1,4-Dichlorobenzene	ND		10		ug/L			04/06/12 22:53	10
1,4-Dioxane	ND		500		ug/L			04/06/12 22:53	10
2,2-Dichloropropane	ND		10		ug/L			04/06/12 22:53	10
2-Butanone (MEK)	ND	*	100		ug/L			04/06/12 22:53	10
2-Chlorotoluene	ND		10		ug/L			04/06/12 22:53	10
2-Hexanone	ND		100		ug/L			04/06/12 22:53	10
4-Chlorotoluene	ND		10		ug/L			04/06/12 22:53	10
4-Isopropyltoluene	ND		10		ug/L			04/06/12 22:53	10
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			04/06/12 22:53	10
Acetone	ND	*	500		ug/L			04/06/12 22:53	10
Benzene	ND		10		ug/L			04/06/12 22:53	10
Bromobenzene	ND		10		ug/L			04/06/12 22:53	10
Bromoform	ND		10		ug/L			04/06/12 22:53	10
Bromomethane	ND		20		ug/L			04/06/12 22:53	10
Carbon disulfide	ND		100		ug/L			04/06/12 22:53	10
Carbon tetrachloride	ND		10		ug/L			04/06/12 22:53	10
Chlorobenzene	ND		10		ug/L			04/06/12 22:53	10
Chlorobromomethane	ND		10		ug/L			04/06/12 22:53	10
Chlorodibromomethane	ND		5.0		ug/L			04/06/12 22:53	10

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

Client Sample ID: DupX3							Lab Sample ID: 360-39842-26			
Date Collected: 04/02/12 12:00							Matrix: Water			
Date Received: 04/04/12 13:00										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloroethane	ND		20		ug/L			04/06/12 22:53	10	
Chloroform	ND		10		ug/L			04/06/12 22:53	10	
Chloromethane	ND		20		ug/L			04/06/12 22:53	10	
<b>cis-1,2-Dichloroethene</b>	<b>370</b>		10		ug/L			04/06/12 22:53	10	
cis-1,3-Dichloropropene	ND		4.0		ug/L			04/06/12 22:53	10	
Dibromomethane	ND		10		ug/L			04/06/12 22:53	10	
Dichlorobromomethane	ND		5.0		ug/L			04/06/12 22:53	10	
Dichlorodifluoromethane	ND		10		ug/L			04/06/12 22:53	10	
Ethyl ether	ND		10		ug/L			04/06/12 22:53	10	
Ethylbenzene	ND		10		ug/L			04/06/12 22:53	10	
Ethylene Dibromide	ND		10		ug/L			04/06/12 22:53	10	
Hexachlorobutadiene	ND		4.0		ug/L			04/06/12 22:53	10	
Isopropyl ether	ND		100		ug/L			04/06/12 22:53	10	
Isopropylbenzene	ND		10		ug/L			04/06/12 22:53	10	
m-Xylene & p-Xylene	ND		20		ug/L			04/06/12 22:53	10	
Methyl tert-butyl ether	ND		10		ug/L			04/06/12 22:53	10	
Methylene Chloride	ND		20		ug/L			04/06/12 22:53	10	
n-Butylbenzene	ND		10		ug/L			04/06/12 22:53	10	
N-Propylbenzene	ND		10		ug/L			04/06/12 22:53	10	
Naphthalene	ND		50		ug/L			04/06/12 22:53	10	
o-Xylene	ND		10		ug/L			04/06/12 22:53	10	
sec-Butylbenzene	ND		10		ug/L			04/06/12 22:53	10	
Styrene	ND		10		ug/L			04/06/12 22:53	10	
Tert-amyl methyl ether	ND		50		ug/L			04/06/12 22:53	10	
Tert-butyl ethyl ether	ND		50		ug/L			04/06/12 22:53	10	
tert-Butylbenzene	ND		10		ug/L			04/06/12 22:53	10	
Tetrachloroethene	ND		10		ug/L			04/06/12 22:53	10	
Tetrahydrofuran	ND		100		ug/L			04/06/12 22:53	10	
Toluene	ND		10		ug/L			04/06/12 22:53	10	
trans-1,2-Dichloroethene	ND		10		ug/L			04/06/12 22:53	10	
trans-1,3-Dichloropropene	ND		4.0		ug/L			04/06/12 22:53	10	
<b>Trichloroethene</b>	<b>140</b>		10		ug/L			04/06/12 22:53	10	
Trichlorofluoromethane	ND		10		ug/L			04/06/12 22:53	10	
<b>Vinyl chloride</b>	<b>53</b>		5.0		ug/L			04/06/12 22:53	10	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene	99		70 - 130					04/06/12 22:53	10	
Dibromofluoromethane	100		70 - 130					04/06/12 22:53	10	
Toluene-d8 (Surr)	101		70 - 130					04/06/12 22:53	10	

Client Sample ID: Trip Blank							Lab Sample ID: 360-39842-27			
Date Collected: 04/02/12 10:00							Matrix: Water			
Date Received: 04/04/12 13:00										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/12 17:27	1	
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/12 17:27	1	
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/12 17:27	1	
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/12 17:27	1	
1,1-Dichloroethane	ND		1.0		ug/L			04/06/12 17:27	1	
1,1-Dichloroethene	ND		1.0		ug/L			04/06/12 17:27	1	
1,1-Dichloropropene	ND		1.0		ug/L			04/06/12 17:27	1	

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: Trip Blank**  
**Date Collected: 04/02/12 10:00**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-27**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/12 17:27	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/12 17:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/12 17:27	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/12 17:27	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/12 17:27	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/12 17:27	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/12 17:27	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/12 17:27	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/12 17:27	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/12 17:27	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/12 17:27	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/12 17:27	1
1,4-Dioxane	ND		50		ug/L			04/06/12 17:27	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/12 17:27	1
2-Butanone (MEK)	ND	*	10		ug/L			04/06/12 17:27	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/12 17:27	1
2-Hexanone	ND		10		ug/L			04/06/12 17:27	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/12 17:27	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/12 17:27	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/12 17:27	1
Acetone	ND	*	50		ug/L			04/06/12 17:27	1
Benzene	ND		1.0		ug/L			04/06/12 17:27	1
Bromobenzene	ND		1.0		ug/L			04/06/12 17:27	1
Bromoform	ND		1.0		ug/L			04/06/12 17:27	1
Bromomethane	ND		2.0		ug/L			04/06/12 17:27	1
Carbon disulfide	ND		10		ug/L			04/06/12 17:27	1
Carbon tetrachloride	ND		1.0		ug/L			04/06/12 17:27	1
Chlorobenzene	ND		1.0		ug/L			04/06/12 17:27	1
Chlorobromomethane	ND		1.0		ug/L			04/06/12 17:27	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/12 17:27	1
Chloroethane	ND		2.0		ug/L			04/06/12 17:27	1
Chloroform	ND		1.0		ug/L			04/06/12 17:27	1
Chloromethane	ND		2.0		ug/L			04/06/12 17:27	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/06/12 17:27	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 17:27	1
Dibromomethane	ND		1.0		ug/L			04/06/12 17:27	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/12 17:27	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/12 17:27	1
Ethyl ether	ND		1.0		ug/L			04/06/12 17:27	1
Ethylbenzene	ND		1.0		ug/L			04/06/12 17:27	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/12 17:27	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/12 17:27	1
Isopropyl ether	ND		10		ug/L			04/06/12 17:27	1
Isopropylbenzene	ND		1.0		ug/L			04/06/12 17:27	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/12 17:27	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/12 17:27	1
Methylene Chloride	ND		2.0		ug/L			04/06/12 17:27	1
n-Butylbenzene	ND		1.0		ug/L			04/06/12 17:27	1
N-Propylbenzene	ND		1.0		ug/L			04/06/12 17:27	1
Naphthalene	ND		5.0		ug/L			04/06/12 17:27	1
o-Xylene	ND		1.0		ug/L			04/06/12 17:27	1

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Client Sample ID: Trip Blank**  
**Date Collected: 04/02/12 10:00**  
**Date Received: 04/04/12 13:00**

**Lab Sample ID: 360-39842-27**  
**Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	ND		1.0		ug/L			04/06/12 17:27	1
Styrene	ND		1.0		ug/L			04/06/12 17:27	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/12 17:27	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/12 17:27	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/12 17:27	1
Tetrachloroethene	ND		1.0		ug/L			04/06/12 17:27	1
Tetrahydrofuran	ND		10		ug/L			04/06/12 17:27	1
Toluene	ND		1.0		ug/L			04/06/12 17:27	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/12 17:27	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 17:27	1
Trichloroethene	ND		1.0		ug/L			04/06/12 17:27	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/12 17:27	1
Vinyl chloride	ND		0.50		ug/L			04/06/12 17:27	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	100		70 - 130					04/06/12 17:27	1
Dibromofluoromethane	102		70 - 130					04/06/12 17:27	1
Toluene-d8 (Surr)	101		70 - 130					04/06/12 17:27	1

# Client Sample Results

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

TestAmerica Job ID: 360-39842-1

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

Client Sample ID: MW-265M

Date Collected: 04/02/12 14:00

Date Received: 04/04/12 13:00

Lab Sample ID: 360-39842-7

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	490		10		ug/L			04/06/12 17:49	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		70 - 130					04/06/12 17:49	10
Dibromofluoromethane	102		70 - 130					04/06/12 17:49	10
Toluene-d8 (Surr)	102		70 - 130					04/06/12 17:49	10

## Definitions/Glossary

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

TestAmerica Job ID: 360-39842-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# QC Association Summary

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

TestAmerica Job ID: 360-39842-1

## GC/MS VOA

### Analysis Batch: 89257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-39842-1	IW-4	Total/NA	Water	8260C	
360-39842-2	IW-5	Total/NA	Water	8260C	
360-39842-3	IW-15	Total/NA	Water	8260C	
360-39842-4	MW-261S	Total/NA	Water	8260C	
360-39842-5	MW-264M	Total/NA	Water	8260C	
360-39842-6	MW-265S	Total/NA	Water	8260C	
360-39842-7	MW-265M	Total/NA	Water	8260C	
360-39842-8	MW-265D	Total/NA	Water	8260C	
360-39842-9	MW-266Ma	Total/NA	Water	8260C	
360-39842-10	MW-266Mb	Total/NA	Water	8260C	
360-39842-11	MW-267S	Total/NA	Water	8260C	
360-39842-12	MW-267M	Total/NA	Water	8260C	
360-39842-12 MS	MW-267M	Total/NA	Water	8260C	
360-39842-12 MSD	MW-267M	Total/NA	Water	8260C	
LCS 360-89257/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 360-89257/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 360-89257/6	Method Blank	Total/NA	Water	8260C	

### Analysis Batch: 89287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
360-39842-7 - DL	MW-265M	Total/NA	Water	8260C	
360-39842-13	MW-268M	Total/NA	Water	8260C	
360-39842-14	MW-268D	Total/NA	Water	8260C	
360-39842-15	MW-551	Total/NA	Water	8260C	
360-39842-16	MW-552	Total/NA	Water	8260C	
360-39842-17	MW-553	Total/NA	Water	8260C	
360-39842-18	MW-560	Total/NA	Water	8260C	
360-39842-19	MW-561	Total/NA	Water	8260C	
360-39842-20	MW-562	Total/NA	Water	8260C	
360-39842-21	REW-1	Total/NA	Water	8260C	
360-39842-22	REW-4	Total/NA	Water	8260C	
360-39842-23	REW-5	Total/NA	Water	8260C	
360-39842-23 MS	REW-5	Total/NA	Water	8260C	
360-39842-23 MSD	REW-5	Total/NA	Water	8260C	
360-39842-24	DupX1	Total/NA	Water	8260C	
360-39842-25	DupX2	Total/NA	Water	8260C	
360-39842-26	DupX3	Total/NA	Water	8260C	
360-39842-27	Trip Blank	Total/NA	Water	8260C	
LCS 360-89287/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 360-89287/4	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 360-89287/6	Method Blank	Total/NA	Water	8260C	



# Surrogate Summary

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

TestAmerica Job ID: 360-39842-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (70-130)	DBFM (70-130)	TOL (70-130)
360-39842-1	IW-4	100	102	98
360-39842-2	IW-5	99	102	101
360-39842-3	IW-15	99	101	100
360-39842-4	MW-261S	98	101	102
360-39842-5	MW-264M	100	103	98
360-39842-6	MW-265S	98	103	100
360-39842-7	MW-265M	102	103	99
360-39842-7 - DL	MW-265M	101	102	102
360-39842-8	MW-265D	97	102	101
360-39842-9	MW-266Ma	98	102	100
360-39842-10	MW-266Mb	97	101	101
360-39842-11	MW--267S	98	100	101
360-39842-12	MW-267M	100	104	100
360-39842-12 MS	MW-267M	100	103	102
360-39842-12 MSD	MW-267M	102	103	102
360-39842-13	MW-268M	100	103	101
360-39842-14	MW-268D	99	100	100
360-39842-15	MW-551	98	100	101
360-39842-16	MW-552	99	99	101
360-39842-17	MW-553	99	100	101
360-39842-18	MW-560	99	102	97
360-39842-19	MW-561	99	100	101
360-39842-20	MW-562	99	101	101
360-39842-21	REW-1	98	102	101
360-39842-22	REW-4	100	102	100
360-39842-23	REW-5	98	100	101
360-39842-23 MS	REW-5	101	101	102
360-39842-23 MSD	REW-5	100	101	102
360-39842-24	DupX1	98	101	102
360-39842-25	DupX2	100	102	102
360-39842-26	DupX3	99	100	101
360-39842-27	Trip Blank	100	102	101
LCS 360-89257/3	Lab Control Sample	102	100	102
LCS 360-89287/3	Lab Control Sample	99	101	103
LCSD 360-89257/4	Lab Control Sample Dup	100	100	102
LCSD 360-89287/4	Lab Control Sample Dup	102	100	103
MB 360-89257/6	Method Blank	101	102	101
MB 360-89287/6	Method Blank	98	100	101

### Surrogate Legend

BFB = 4-Bromofluorobenzene  
DBFM = Dibromofluoromethane  
TOL = Toluene-d8 (Surr)

# QC Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Lab Sample ID: MB 360-89257/6**

**Matrix: Water**

**Analysis Batch: 89257**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/05/12 23:50	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/05/12 23:50	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/05/12 23:50	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/05/12 23:50	1
1,1-Dichloroethane	ND		1.0		ug/L			04/05/12 23:50	1
1,1-Dichloroethene	ND		1.0		ug/L			04/05/12 23:50	1
1,1-Dichloropropene	ND		1.0		ug/L			04/05/12 23:50	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/05/12 23:50	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/05/12 23:50	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/05/12 23:50	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/05/12 23:50	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/05/12 23:50	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/05/12 23:50	1
1,2-Dichloroethane	ND		1.0		ug/L			04/05/12 23:50	1
1,2-Dichloropropane	ND		1.0		ug/L			04/05/12 23:50	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/05/12 23:50	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/05/12 23:50	1
1,3-Dichloropropane	ND		1.0		ug/L			04/05/12 23:50	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/05/12 23:50	1
1,4-Dioxane	ND		50		ug/L			04/05/12 23:50	1
2,2-Dichloropropane	ND		1.0		ug/L			04/05/12 23:50	1
2-Butanone (MEK)	ND		10		ug/L			04/05/12 23:50	1
2-Chlorotoluene	ND		1.0		ug/L			04/05/12 23:50	1
2-Hexanone	ND		10		ug/L			04/05/12 23:50	1
4-Chlorotoluene	ND		1.0		ug/L			04/05/12 23:50	1
4-Isopropyltoluene	ND		1.0		ug/L			04/05/12 23:50	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/05/12 23:50	1
Acetone	ND		50		ug/L			04/05/12 23:50	1
Benzene	ND		1.0		ug/L			04/05/12 23:50	1
Bromobenzene	ND		1.0		ug/L			04/05/12 23:50	1
Bromoform	ND		1.0		ug/L			04/05/12 23:50	1
Bromomethane	ND		2.0		ug/L			04/05/12 23:50	1
Carbon disulfide	ND		10		ug/L			04/05/12 23:50	1
Carbon tetrachloride	ND		1.0		ug/L			04/05/12 23:50	1
Chlorobenzene	ND		1.0		ug/L			04/05/12 23:50	1
Chlorobromomethane	ND		1.0		ug/L			04/05/12 23:50	1
Chlorodibromomethane	ND		0.50		ug/L			04/05/12 23:50	1
Chloroethane	ND		2.0		ug/L			04/05/12 23:50	1
Chloroform	ND		1.0		ug/L			04/05/12 23:50	1
Chloromethane	ND		2.0		ug/L			04/05/12 23:50	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/05/12 23:50	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/05/12 23:50	1
Dibromomethane	ND		1.0		ug/L			04/05/12 23:50	1
Dichlorobromomethane	ND		0.50		ug/L			04/05/12 23:50	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/05/12 23:50	1
Ethyl ether	ND		1.0		ug/L			04/05/12 23:50	1
Ethylbenzene	ND		1.0		ug/L			04/05/12 23:50	1
Ethylene Dibromide	ND		1.0		ug/L			04/05/12 23:50	1
Hexachlorobutadiene	ND		0.40		ug/L			04/05/12 23:50	1

# QC Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Lab Sample ID: MB 360-89257/6**

**Matrix: Water**

**Analysis Batch: 89257**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	ND		10		ug/L			04/05/12 23:50	1
Isopropylbenzene	ND		1.0		ug/L			04/05/12 23:50	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/05/12 23:50	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/05/12 23:50	1
Methylene Chloride	ND		2.0		ug/L			04/05/12 23:50	1
n-Butylbenzene	ND		1.0		ug/L			04/05/12 23:50	1
N-Propylbenzene	ND		1.0		ug/L			04/05/12 23:50	1
Naphthalene	ND		5.0		ug/L			04/05/12 23:50	1
o-Xylene	ND		1.0		ug/L			04/05/12 23:50	1
sec-Butylbenzene	ND		1.0		ug/L			04/05/12 23:50	1
Styrene	ND		1.0		ug/L			04/05/12 23:50	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/05/12 23:50	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/05/12 23:50	1
tert-Butylbenzene	ND		1.0		ug/L			04/05/12 23:50	1
Tetrachloroethene	ND		1.0		ug/L			04/05/12 23:50	1
Tetrahydrofuran	ND		10		ug/L			04/05/12 23:50	1
Toluene	ND		1.0		ug/L			04/05/12 23:50	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/05/12 23:50	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/05/12 23:50	1
Trichloroethene	ND		1.0		ug/L			04/05/12 23:50	1
Trichlorofluoromethane	ND		1.0		ug/L			04/05/12 23:50	1
Vinyl chloride	ND		0.50		ug/L			04/05/12 23:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	101		70 - 130		04/05/12 23:50	1
Dibromofluoromethane	102		70 - 130		04/05/12 23:50	1
Toluene-d8 (Surr)	101		70 - 130		04/05/12 23:50	1

**Lab Sample ID: LCS 360-89257/3**

**Matrix: Water**

**Analysis Batch: 89257**

**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	20.0	19.1		ug/L		96	70 - 130
1,1,1-Trichloroethane	20.0	20.7		ug/L		104	70 - 130
1,1,2,2-Tetrachloroethane	20.0	17.9		ug/L		90	70 - 130
1,1,2-Trichloroethane	20.0	19.8		ug/L		99	70 - 130
1,1-Dichloroethane	20.0	19.6		ug/L		98	70 - 130
1,1-Dichloroethane	20.0	19.4		ug/L		97	70 - 130
1,1-Dichloropropene	20.0	18.4		ug/L		92	70 - 130
1,2,3-Trichlorobenzene	20.0	19.1		ug/L		96	70 - 130
1,2,3-Trichloropropane	20.0	19.0		ug/L		95	70 - 130
1,2,4-Trichlorobenzene	20.0	17.3		ug/L		87	70 - 130
1,2,4-Trimethylbenzene	20.0	20.3		ug/L		102	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	18.5		ug/L		93	70 - 130
1,2-Dichlorobenzene	20.0	17.7		ug/L		89	70 - 130
1,2-Dichloroethane	20.0	20.3		ug/L		102	70 - 130
1,2-Dichloropropane	20.0	19.6		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	20.0	19.9		ug/L		100	70 - 130

# QC Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Lab Sample ID: LCS 360-89257/3**

**Matrix: Water**

**Analysis Batch: 89257**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,3-Dichlorobenzene	20.0	17.9		ug/L		90	70 - 130
1,3-Dichloropropane	20.0	18.9		ug/L		95	70 - 130
1,4-Dichlorobenzene	20.0	18.0		ug/L		90	70 - 130
1,4-Dioxane	200	192		ug/L		96	70 - 130
2,2-Dichloropropane	20.0	19.4		ug/L		97	70 - 130
2-Butanone (MEK)	200	122	*	ug/L		61	70 - 130
2-Chlorotoluene	20.0	19.3		ug/L		97	70 - 130
2-Hexanone	200	159		ug/L		79	70 - 130
4-Chlorotoluene	20.0	19.3		ug/L		97	70 - 130
4-Isopropyltoluene	20.0	20.8		ug/L		104	70 - 130
4-Methyl-2-pentanone (MIBK)	200	186		ug/L		93	70 - 130
Acetone	200	120	*	ug/L		60	70 - 130
Benzene	20.0	19.4		ug/L		97	70 - 130
Bromobenzene	20.0	19.4		ug/L		97	70 - 130
Bromoform	20.0	18.6		ug/L		93	70 - 130
Bromomethane	20.0	20.3		ug/L		102	70 - 130
Carbon disulfide	20.0	22.6		ug/L		113	70 - 130
Carbon tetrachloride	20.0	19.9		ug/L		100	70 - 130
Chlorobenzene	20.0	19.5		ug/L		98	70 - 130
Chlorobromomethane	20.0	19.0		ug/L		95	70 - 130
Chlorodibromomethane	20.0	20.6		ug/L		103	70 - 130
Chloroethane	20.0	18.8		ug/L		94	70 - 130
Chloroform	20.0	19.2		ug/L		96	70 - 130
Chloromethane	20.0	15.6		ug/L		78	70 - 130
cis-1,2-Dichloroethene	20.0	19.4		ug/L		97	70 - 130
cis-1,3-Dichloropropene	20.0	17.7		ug/L		89	70 - 130
Dibromomethane	20.0	19.9		ug/L		100	70 - 130
Dichlorobromomethane	20.0	18.6		ug/L		93	70 - 130
Dichlorodifluoromethane	20.0	14.4		ug/L		72	70 - 130
Ethyl ether	20.0	19.2		ug/L		96	70 - 130
Ethylbenzene	20.0	18.2		ug/L		91	70 - 130
Ethylene Dibromide	20.0	18.8		ug/L		94	70 - 130
Hexachlorobutadiene	20.0	18.8		ug/L		94	70 - 130
Isopropyl ether	20.0	18.9		ug/L		95	70 - 130
Isopropylbenzene	20.0	19.0		ug/L		95	70 - 130
m-Xylene & p-Xylene	40.0	36.3		ug/L		91	70 - 130
Methyl tert-butyl ether	20.0	19.3		ug/L		97	70 - 130
Methylene Chloride	20.0	18.1		ug/L		91	70 - 130
n-Butylbenzene	20.0	19.1		ug/L		96	70 - 130
N-Propylbenzene	20.0	20.1		ug/L		101	70 - 130
Naphthalene	20.0	18.5		ug/L		93	70 - 130
o-Xylene	20.0	19.6		ug/L		98	70 - 130
sec-Butylbenzene	20.0	20.1		ug/L		101	70 - 130
Styrene	20.0	18.0		ug/L		90	70 - 130
Tert-amyl methyl ether	20.0	19.7		ug/L		99	70 - 130
Tert-butyl ethyl ether	20.0	19.7		ug/L		99	70 - 130
tert-Butylbenzene	20.0	20.6		ug/L		103	70 - 130
Tetrachloroethene	20.0	19.9		ug/L		100	70 - 130
Tetrahydrofuran	200	193		ug/L		97	70 - 130
Toluene	20.0	18.7		ug/L		94	70 - 130

# QC Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Lab Sample ID: LCS 360-89257/3**

**Matrix: Water**

**Analysis Batch: 89257**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	20.0	18.6		ug/L		93	70 - 130
trans-1,3-Dichloropropene	20.0	18.2		ug/L		91	70 - 130
Trichloroethene	20.0	19.5		ug/L		98	70 - 130
Trichlorofluoromethane	20.0	20.1		ug/L		101	70 - 130
Vinyl chloride	20.0	18.3		ug/L		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	102		70 - 130

**Lab Sample ID: LCSD 360-89257/4**

**Matrix: Water**

**Analysis Batch: 89257**

**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	20.0	18.5		ug/L		93	70 - 130	3	20
1,1,1-Trichloroethane	20.0	19.4		ug/L		97	70 - 130	6	20
1,1,1,2,2-Tetrachloroethane	20.0	17.8		ug/L		89	70 - 130	1	20
1,1,2-Trichloroethane	20.0	19.2		ug/L		96	70 - 130	3	20
1,1-Dichloroethane	20.0	18.9		ug/L		95	70 - 130	4	20
1,1-Dichloroethene	20.0	17.4		ug/L		87	70 - 130	11	20
1,1-Dichloropropene	20.0	17.2		ug/L		86	70 - 130	7	20
1,2,3-Trichlorobenzene	20.0	18.1		ug/L		91	70 - 130	5	20
1,2,3-Trichloropropane	20.0	18.4		ug/L		92	70 - 130	3	20
1,2,4-Trichlorobenzene	20.0	16.7		ug/L		84	70 - 130	4	20
1,2,4-Trimethylbenzene	20.0	18.9		ug/L		95	70 - 130	7	20
1,2-Dibromo-3-Chloropropane	20.0	18.2		ug/L		91	70 - 130	2	20
1,2-Dichlorobenzene	20.0	17.3		ug/L		87	70 - 130	2	20
1,2-Dichloroethane	20.0	19.8		ug/L		99	70 - 130	2	20
1,2-Dichloropropane	20.0	18.7		ug/L		94	70 - 130	5	20
1,3,5-Trimethylbenzene	20.0	18.6		ug/L		93	70 - 130	7	20
1,3-Dichlorobenzene	20.0	18.0		ug/L		90	70 - 130	1	20
1,3-Dichloropropane	20.0	18.5		ug/L		93	70 - 130	2	20
1,4-Dichlorobenzene	20.0	17.6		ug/L		88	70 - 130	2	20
1,4-Dioxane	200	173		ug/L		87	70 - 130	11	20
2,2-Dichloropropane	20.0	17.1		ug/L		86	70 - 130	13	20
2-Butanone (MEK)	200	120	*	ug/L		60	70 - 130	2	20
2-Chlorotoluene	20.0	18.5		ug/L		93	70 - 130	4	20
2-Hexanone	200	158		ug/L		79	70 - 130	0	20
4-Chlorotoluene	20.0	18.4		ug/L		92	70 - 130	5	20
4-Isopropyltoluene	20.0	19.2		ug/L		96	70 - 130	8	20
4-Methyl-2-pentanone (MIBK)	200	183		ug/L		91	70 - 130	2	20
Acetone	200	120	*	ug/L		60	70 - 130	0	20
Benzene	20.0	18.6		ug/L		93	70 - 130	4	20
Bromobenzene	20.0	18.8		ug/L		94	70 - 130	3	20
Bromoform	20.0	18.5		ug/L		93	70 - 130	1	20
Bromomethane	20.0	17.1		ug/L		86	70 - 130	17	20
Carbon disulfide	20.0	19.0		ug/L		95	70 - 130	17	20

# QC Sample Results

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

TestAmerica Job ID: 360-39842-1

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

Lab Sample ID: LCSD 360-89257/4

Matrix: Water

Analysis Batch: 89257

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Carbon tetrachloride	20.0	18.3		ug/L		92	70 - 130	8	20	
Chlorobenzene	20.0	18.8		ug/L		94	70 - 130	4	20	
Chlorobromomethane	20.0	18.5		ug/L		93	70 - 130	3	20	
Chlorodibromomethane	20.0	19.5		ug/L		98	70 - 130	5	20	
Chloroethane	20.0	16.0		ug/L		80	70 - 130	16	20	
Chloroform	20.0	18.7		ug/L		94	70 - 130	3	20	
Chloromethane	20.0	14.1		ug/L		71	70 - 130	10	20	
cis-1,2-Dichloroethene	20.0	18.5		ug/L		93	70 - 130	5	20	
cis-1,3-Dichloropropene	20.0	17.0		ug/L		85	70 - 130	4	20	
Dibromomethane	20.0	19.1		ug/L		96	70 - 130	4	20	
Dichlorobromomethane	20.0	18.2		ug/L		91	70 - 130	2	20	
Dichlorodifluoromethane	20.0	13.0	*	ug/L		65	70 - 130	10	20	
Ethyl ether	20.0	18.8		ug/L		94	70 - 130	2	20	
Ethylbenzene	20.0	17.5		ug/L		88	70 - 130	4	20	
Ethylene Dibromide	20.0	18.4		ug/L		92	70 - 130	2	20	
Hexachlorobutadiene	20.0	17.2		ug/L		86	70 - 130	9	20	
Isopropyl ether	20.0	18.6		ug/L		93	70 - 130	2	20	
Isopropylbenzene	20.0	17.9		ug/L		90	70 - 130	6	20	
m-Xylene & p-Xylene	40.0	34.6		ug/L		87	70 - 130	5	20	
Methyl tert-butyl ether	20.0	19.3		ug/L		97	70 - 130	0	20	
Methylene Chloride	20.0	17.7		ug/L		89	70 - 130	2	20	
n-Butylbenzene	20.0	18.1		ug/L		91	70 - 130	5	20	
N-Propylbenzene	20.0	18.9		ug/L		95	70 - 130	6	20	
Naphthalene	20.0	17.8		ug/L		89	70 - 130	4	20	
o-Xylene	20.0	19.0		ug/L		95	70 - 130	3	20	
sec-Butylbenzene	20.0	18.8		ug/L		94	70 - 130	7	20	
Styrene	20.0	17.6		ug/L		88	70 - 130	2	20	
Tert-amyl methyl ether	20.0	19.3		ug/L		97	70 - 130	2	20	
Tert-butyl ethyl ether	20.0	19.3		ug/L		97	70 - 130	2	20	
tert-Butylbenzene	20.0	19.0		ug/L		95	70 - 130	8	20	
Tetrachloroethene	20.0	18.5		ug/L		93	70 - 130	7	20	
Tetrahydrofuran	20.0	188		ug/L		94	70 - 130	3	20	
Toluene	20.0	17.9		ug/L		90	70 - 130	4	20	
trans-1,2-Dichloroethene	20.0	17.6		ug/L		88	70 - 130	6	20	
trans-1,3-Dichloropropene	20.0	17.6		ug/L		88	70 - 130	3	20	
Trichloroethene	20.0	18.8		ug/L		94	70 - 130	4	20	
Trichlorofluoromethane	20.0	17.7		ug/L		89	70 - 130	13	20	
Vinyl chloride	20.0	16.7		ug/L		84	70 - 130	9	20	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	102		70 - 130

# QC Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Lab Sample ID: 360-39842-12 MS**

**Matrix: Water**

**Analysis Batch: 89257**

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

**Prep Type: Total/NA**

Analyte	Sample	Sample Qualifier	Spike Added	MS	MS Qualifier	Unit	D	%Rec	%Rec. Limits
	Result			Result					
1,1,1,2-Tetrachloroethane	ND		2000	1880		ug/L		94	70 - 130
1,1,1-Trichloroethane	ND		2000	2100		ug/L		105	70 - 130
1,1,2,2-Tetrachloroethane	ND		2000	1810		ug/L		91	70 - 130
1,1,2-Trichloroethane	ND		2000	1960		ug/L		98	70 - 130
1,1-Dichloroethane	ND		2000	2010		ug/L		101	70 - 130
1,1-Dichloroethene	ND		2000	2020		ug/L		101	70 - 130
1,1-Dichloropropene	ND		2000	1830		ug/L		92	70 - 130
1,2,3-Trichlorobenzene	ND		2000	1780		ug/L		89	70 - 130
1,2,3-Trichloropropane	ND		2000	1870		ug/L		94	70 - 130
1,2,4-Trichlorobenzene	ND		2000	1600		ug/L		80	70 - 130
1,2,4-Trimethylbenzene	ND		2000	1940		ug/L		97	70 - 130
1,2-Dibromo-3-Chloropropane	ND		2000	1740		ug/L		87	70 - 130
1,2-Dichlorobenzene	ND		2000	1770		ug/L		89	70 - 130
1,2-Dichloroethane	ND		2000	2080		ug/L		104	70 - 130
1,2-Dichloropropane	ND		2000	1940		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	ND		2000	1900		ug/L		95	70 - 130
1,3-Dichlorobenzene	ND		2000	1830		ug/L		92	70 - 130
1,3-Dichloropropane	ND		2000	1880		ug/L		94	70 - 130
1,4-Dichlorobenzene	ND		2000	1760		ug/L		88	70 - 130
1,4-Dioxane	ND		2000	17200		ug/L		86	70 - 130
2,2-Dichloropropane	ND		2000	1750		ug/L		88	70 - 130
2-Butanone (MEK)	ND *		20000	11600	F	ug/L		58	70 - 130
2-Chlorotoluene	ND		2000	1890		ug/L		95	70 - 130
2-Hexanone	ND		20000	15400		ug/L		77	70 - 130
4-Chlorotoluene	ND		2000	1870		ug/L		94	70 - 130
4-Isopropyltoluene	ND		2000	1930		ug/L		97	70 - 130
4-Methyl-2-pentanone (MIBK)	ND		20000	18300		ug/L		92	70 - 130
Acetone	ND *		20000	11700	F	ug/L		59	70 - 130
Benzene	ND		2000	1980		ug/L		99	70 - 130
Bromobenzene	ND		2000	1830		ug/L		92	70 - 130
Bromoform	ND		2000	1460		ug/L		73	70 - 130
Bromomethane	ND		2000	1900		ug/L		95	70 - 130
Carbon disulfide	ND		2000	2210		ug/L		111	70 - 130
Carbon tetrachloride	ND		2000	1940		ug/L		97	70 - 130
Chlorobenzene	ND		2000	1920		ug/L		96	70 - 130
Chlorobromomethane	ND		2000	1930		ug/L		97	70 - 130
Chlorodibromomethane	ND		2000	1800		ug/L		90	70 - 130
Chloroethane	ND		2000	1820		ug/L		91	70 - 130
Chloroform	ND		2000	1990		ug/L		100	70 - 130
Chloromethane	ND		2000	1510		ug/L		76	70 - 130
cis-1,2-Dichloroethene	280		2000	2260		ug/L		99	70 - 130
cis-1,3-Dichloropropene	ND		2000	1590		ug/L		80	70 - 130
Dibromomethane	ND		2000	1980		ug/L		99	70 - 130
Dichlorobromomethane	ND		2000	1820		ug/L		91	70 - 130
Dichlorodifluoromethane	ND *		2000	1360	F	ug/L		68	70 - 130
Ethyl ether	ND		2000	1960		ug/L		98	70 - 130
Ethylbenzene	ND		2000	1800		ug/L		90	70 - 130
Ethylene Dibromide	ND		2000	1890		ug/L		95	70 - 130
Hexachlorobutadiene	ND		2000	1560		ug/L		78	70 - 130

# QC Sample Results

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

TestAmerica Job ID: 360-39842-1

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

Lab Sample ID: 360-39842-12 MS

Matrix: Water

Analysis Batch: 89257

Client Sample ID: MW-267M

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
Isopropyl ether	ND		2000	1930		ug/L		97	70 - 130	
Isopropylbenzene	ND		2000	1840		ug/L		92	70 - 130	
m-Xylene & p-Xylene	ND		4000	3550		ug/L		89	70 - 130	
Methyl tert-butyl ether	ND		2000	1990		ug/L		100	70 - 130	
Methylene Chloride	ND		2000	1910		ug/L		96	70 - 130	
n-Butylbenzene	ND		2000	1760		ug/L		88	70 - 130	
N-Propylbenzene	ND		2000	1920		ug/L		96	70 - 130	
Naphthalene	ND		2000	1760		ug/L		88	70 - 130	
o-Xylene	ND		2000	1930		ug/L		97	70 - 130	
sec-Butylbenzene	ND		2000	1870		ug/L		94	70 - 130	
Styrene	ND		2000	1790		ug/L		90	70 - 130	
Tert-amyl methyl ether	ND		2000	2010		ug/L		101	70 - 130	
Tert-butyl ethyl ether	ND		2000	2000		ug/L		100	70 - 130	
tert-Butylbenzene	ND		2000	1920		ug/L		96	70 - 130	
Tetrachloroethene	ND		2000	2020		ug/L		101	70 - 130	
Tetrahydrofuran	ND		20000	19000		ug/L		95	70 - 130	
Toluene	ND		2000	1870		ug/L		94	70 - 130	
trans-1,2-Dichloroethene	ND		2000	1880		ug/L		94	70 - 130	
trans-1,3-Dichloropropene	ND		2000	1620		ug/L		81	70 - 130	
Trichloroethene	170		2000	2110		ug/L		97	70 - 130	
Trichlorofluoromethane	ND		2000	2000		ug/L		100	70 - 130	
Vinyl chloride	15		2000	1800		ug/L		89	70 - 130	

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	102		70 - 130

Lab Sample ID: 360-39842-12 MSD

Matrix: Water

Analysis Batch: 89257

Client Sample ID: MW-267M

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		2000	1840		ug/L		92	70 - 130	2	20	
1,1,1-Trichloroethane	ND		2000	1980		ug/L		99	70 - 130	6	20	
1,1,1,2-Tetrachloroethane	ND		2000	1840		ug/L		92	70 - 130	2	20	
1,1,2-Trichloroethane	ND		2000	1930		ug/L		97	70 - 130	2	20	
1,1-Dichloroethane	ND		2000	1920		ug/L		96	70 - 130	5	20	
1,1-Dichloroethene	ND		2000	1870		ug/L		94	70 - 130	8	20	
1,1-Dichloropropene	ND		2000	1740		ug/L		87	70 - 130	5	20	
1,2,3-Trichlorobenzene	ND		2000	1800		ug/L		90	70 - 130	1	20	
1,2,3-Trichloropropane	ND		2000	1970		ug/L		99	70 - 130	5	20	
1,2,4-Trichlorobenzene	ND		2000	1630		ug/L		82	70 - 130	2	20	
1,2,4-Trimethylbenzene	ND		2000	1890		ug/L		95	70 - 130	3	20	
1,2-Dibromo-3-Chloropropane	ND		2000	1860		ug/L		93	70 - 130	7	20	
1,2-Dichlorobenzene	ND		2000	1790		ug/L		90	70 - 130	1	20	
1,2-Dichloroethane	ND		2000	2000		ug/L		100	70 - 130	4	20	
1,2-Dichloropropane	ND		2000	1880		ug/L		94	70 - 130	3	20	
1,3,5-Trimethylbenzene	ND		2000	1850		ug/L		93	70 - 130	3	20	



# QC Sample Results

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

TestAmerica Job ID: 360-39842-1

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

Lab Sample ID: 360-39842-12 MSD

Matrix: Water

Analysis Batch: 89257

Client Sample ID: MW-267M

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
1,3-Dichlorobenzene	ND		2000	1780		ug/L		89	70 - 130	3	20
1,3-Dichloropropane	ND		2000	1860		ug/L		93	70 - 130	1	20
1,4-Dichlorobenzene	ND		2000	1730		ug/L		87	70 - 130	2	20
1,4-Dioxane	ND		20000	20300		ug/L		101	70 - 130	16	20
2,2-Dichloropropane	ND		2000	1650		ug/L		83	70 - 130	6	20
2-Butanone (MEK)	ND	*	20000	11600	F	ug/L		58	70 - 130	0	20
2-Chlorotoluene	ND		2000	1870		ug/L		94	70 - 130	1	20
2-Hexanone	ND		20000	15900		ug/L		80	70 - 130	3	20
4-Chlorotoluene	ND		2000	1850		ug/L		93	70 - 130	1	20
4-Isopropyltoluene	ND		2000	1880		ug/L		94	70 - 130	3	20
4-Methyl-2-pentanone (MIBK)	ND		20000	18000		ug/L		90	70 - 130	2	20
Acetone	ND	*	20000	11800	F	ug/L		59	70 - 130	1	20
Benzene	ND		2000	1900		ug/L		95	70 - 130	4	20
Bromobenzene	ND		2000	1840		ug/L		92	70 - 130	1	20
Bromoform	ND		2000	1710		ug/L		86	70 - 130	16	20
Bromomethane	ND		2000	1900		ug/L		95	70 - 130	0	20
Carbon disulfide	ND		2000	2160		ug/L		108	70 - 130	2	20
Carbon tetrachloride	ND		2000	1870		ug/L		94	70 - 130	4	20
Chlorobenzene	ND		2000	1880		ug/L		94	70 - 130	2	20
Chlorobromomethane	ND		2000	1890		ug/L		95	70 - 130	2	20
Chlorodibromomethane	ND		2000	1900		ug/L		95	70 - 130	5	20
Chloroethane	ND		2000	1800		ug/L		90	70 - 130	1	20
Chloroform	ND		2000	1910		ug/L		96	70 - 130	4	20
Chloromethane	ND		2000	1440		ug/L		72	70 - 130	5	20
cis-1,2-Dichloroethene	280		2000	2170		ug/L		95	70 - 130	4	20
cis-1,3-Dichloropropene	ND		2000	1630		ug/L		82	70 - 130	2	20
Dibromomethane	ND		2000	1950		ug/L		98	70 - 130	2	20
Dichlorobromomethane	ND		2000	1820		ug/L		91	70 - 130	0	20
Dichlorodifluoromethane	ND	*	2000	1330	F	ug/L		67	70 - 130	2	20
Ethyl ether	ND		2000	1960		ug/L		98	70 - 130	0	20
Ethylbenzene	ND		2000	1730		ug/L		87	70 - 130	4	20
Ethylene Dibromide	ND		2000	1880		ug/L		94	70 - 130	1	20
Hexachlorobutadiene	ND		2000	1540		ug/L		77	70 - 130	1	20
Isopropyl ether	ND		2000	1870		ug/L		94	70 - 130	3	20
Isopropylbenzene	ND		2000	1770		ug/L		89	70 - 130	4	20
m-Xylene & p-Xylene	ND		4000	3440		ug/L		86	70 - 130	3	20
Methyl tert-butyl ether	ND		2000	1990		ug/L		100	70 - 130	0	20
Methylene Chloride	ND		2000	1870		ug/L		94	70 - 130	2	20
n-Butylbenzene	ND		2000	1730		ug/L		87	70 - 130	2	20
N-Propylbenzene	ND		2000	1860		ug/L		93	70 - 130	3	20
Naphthalene	ND		2000	1780		ug/L		89	70 - 130	1	20
o-Xylene	ND		2000	1880		ug/L		94	70 - 130	3	20
sec-Butylbenzene	ND		2000	1830		ug/L		92	70 - 130	2	20
Styrene	ND		2000	1740		ug/L		87	70 - 130	3	20
Tert-amyl methyl ether	ND		2000	1980		ug/L		99	70 - 130	2	20
Tert-butyl ethyl ether	ND		2000	2000		ug/L		100	70 - 130	0	20
tert-Butylbenzene	ND		2000	1890		ug/L		95	70 - 130	2	20
Tetrachloroethene	ND		2000	1850		ug/L		92	70 - 130	9	20
Tetrahydrofuran	ND		20000	19400		ug/L		97	70 - 130	2	20
Toluene	ND		2000	1790		ug/L		90	70 - 130	4	20

# QC Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Lab Sample ID: 360-39842-12 MSD**

**Matrix: Water**

**Analysis Batch: 89257**

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

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD		
trans-1,2-Dichloroethene	ND		2000	1770		ug/L		89	70 - 130	6	20	
trans-1,3-Dichloropropene	ND		2000	1660		ug/L		83	70 - 130	2	20	
Trichloroethene	170		2000	2030		ug/L		93	70 - 130	4	20	
Trichlorofluoromethane	ND		2000	1900		ug/L		95	70 - 130	5	20	
Vinyl chloride	15		2000	1710		ug/L		85	70 - 130	5	20	

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	103		70 - 130
Toluene-d8 (Surr)	102		70 - 130

**Lab Sample ID: MB 360-89287/6**

**Matrix: Water**

**Analysis Batch: 89287**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	ND		1.0		ug/L			04/06/12 16:22	1
1,1,1-Trichloroethane	ND		1.0		ug/L			04/06/12 16:22	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/L			04/06/12 16:22	1
1,1,2-Trichloroethane	ND		1.0		ug/L			04/06/12 16:22	1
1,1-Dichloroethane	ND		1.0		ug/L			04/06/12 16:22	1
1,1-Dichloroethene	ND		1.0		ug/L			04/06/12 16:22	1
1,1-Dichloropropene	ND		1.0		ug/L			04/06/12 16:22	1
1,2,3-Trichlorobenzene	ND		1.0		ug/L			04/06/12 16:22	1
1,2,3-Trichloropropane	ND		1.0		ug/L			04/06/12 16:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			04/06/12 16:22	1
1,2,4-Trimethylbenzene	ND		1.0		ug/L			04/06/12 16:22	1
1,2-Dibromo-3-Chloropropane	ND		5.0		ug/L			04/06/12 16:22	1
1,2-Dichlorobenzene	ND		1.0		ug/L			04/06/12 16:22	1
1,2-Dichloroethane	ND		1.0		ug/L			04/06/12 16:22	1
1,2-Dichloropropane	ND		1.0		ug/L			04/06/12 16:22	1
1,3,5-Trimethylbenzene	ND		1.0		ug/L			04/06/12 16:22	1
1,3-Dichlorobenzene	ND		1.0		ug/L			04/06/12 16:22	1
1,3-Dichloropropane	ND		1.0		ug/L			04/06/12 16:22	1
1,4-Dichlorobenzene	ND		1.0		ug/L			04/06/12 16:22	1
1,4-Dioxane	ND		50		ug/L			04/06/12 16:22	1
2,2-Dichloropropane	ND		1.0		ug/L			04/06/12 16:22	1
2-Butanone (MEK)	ND		10		ug/L			04/06/12 16:22	1
2-Chlorotoluene	ND		1.0		ug/L			04/06/12 16:22	1
2-Hexanone	ND		10		ug/L			04/06/12 16:22	1
4-Chlorotoluene	ND		1.0		ug/L			04/06/12 16:22	1
4-Isopropyltoluene	ND		1.0		ug/L			04/06/12 16:22	1
4-Methyl-2-pentanone (MIBK)	ND		10		ug/L			04/06/12 16:22	1
Acetone	ND		50		ug/L			04/06/12 16:22	1
Benzene	ND		1.0		ug/L			04/06/12 16:22	1
Bromobenzene	ND		1.0		ug/L			04/06/12 16:22	1
Bromoform	ND		1.0		ug/L			04/06/12 16:22	1
Bromomethane	ND		2.0		ug/L			04/06/12 16:22	1
Carbon disulfide	ND		10		ug/L			04/06/12 16:22	1

# QC Sample Results

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

TestAmerica Job ID: 360-39842-1

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

Lab Sample ID: MB 360-89287/6

Matrix: Water

Analysis Batch: 89287

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Carbon tetrachloride	ND		1.0		ug/L			04/06/12 16:22	1
Chlorobenzene	ND		1.0		ug/L			04/06/12 16:22	1
Chlorobromomethane	ND		1.0		ug/L			04/06/12 16:22	1
Chlorodibromomethane	ND		0.50		ug/L			04/06/12 16:22	1
Chloroethane	ND		2.0		ug/L			04/06/12 16:22	1
Chloroform	ND		1.0		ug/L			04/06/12 16:22	1
Chloromethane	ND		2.0		ug/L			04/06/12 16:22	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/06/12 16:22	1
cis-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 16:22	1
Dibromomethane	ND		1.0		ug/L			04/06/12 16:22	1
Dichlorobromomethane	ND		0.50		ug/L			04/06/12 16:22	1
Dichlorodifluoromethane	ND		1.0		ug/L			04/06/12 16:22	1
Ethyl ether	ND		1.0		ug/L			04/06/12 16:22	1
Ethylbenzene	ND		1.0		ug/L			04/06/12 16:22	1
Ethylene Dibromide	ND		1.0		ug/L			04/06/12 16:22	1
Hexachlorobutadiene	ND		0.40		ug/L			04/06/12 16:22	1
Isopropyl ether	ND		10		ug/L			04/06/12 16:22	1
Isopropylbenzene	ND		1.0		ug/L			04/06/12 16:22	1
m-Xylene & p-Xylene	ND		2.0		ug/L			04/06/12 16:22	1
Methyl tert-butyl ether	ND		1.0		ug/L			04/06/12 16:22	1
Methylene Chloride	ND		2.0		ug/L			04/06/12 16:22	1
n-Butylbenzene	ND		1.0		ug/L			04/06/12 16:22	1
N-Propylbenzene	ND		1.0		ug/L			04/06/12 16:22	1
Naphthalene	ND		5.0		ug/L			04/06/12 16:22	1
o-Xylene	ND		1.0		ug/L			04/06/12 16:22	1
sec-Butylbenzene	ND		1.0		ug/L			04/06/12 16:22	1
Styrene	ND		1.0		ug/L			04/06/12 16:22	1
Tert-amyl methyl ether	ND		5.0		ug/L			04/06/12 16:22	1
Tert-butyl ethyl ether	ND		5.0		ug/L			04/06/12 16:22	1
tert-Butylbenzene	ND		1.0		ug/L			04/06/12 16:22	1
Tetrachloroethene	ND		1.0		ug/L			04/06/12 16:22	1
Tetrahydrofuran	ND		10		ug/L			04/06/12 16:22	1
Toluene	ND		1.0		ug/L			04/06/12 16:22	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			04/06/12 16:22	1
trans-1,3-Dichloropropene	ND		0.40		ug/L			04/06/12 16:22	1
Trichloroethene	ND		1.0		ug/L			04/06/12 16:22	1
Trichlorofluoromethane	ND		1.0		ug/L			04/06/12 16:22	1
Vinyl chloride	ND		0.50		ug/L			04/06/12 16:22	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene	98		70 - 130		04/06/12 16:22	1
Dibromofluoromethane	100		70 - 130		04/06/12 16:22	1
Toluene-d8 (Surr)	101		70 - 130		04/06/12 16:22	1

# QC Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Lab Sample ID: LCS 360-89287/3**

**Matrix: Water**

**Analysis Batch: 89287**

**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	20.0	18.7		ug/L		94	70 - 130
1,1,1-Trichloroethane	20.0	19.7		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	20.0	18.0		ug/L		90	70 - 130
1,1,2-Trichloroethane	20.0	19.4		ug/L		97	70 - 130
1,1-Dichloroethane	20.0	19.3		ug/L		97	70 - 130
1,1-Dichloroethene	20.0	18.8		ug/L		94	70 - 130
1,1-Dichloropropene	20.0	18.2		ug/L		91	70 - 130
1,2,3-Trichlorobenzene	20.0	17.6		ug/L		88	70 - 130
1,2,3-Trichloropropane	20.0	18.3		ug/L		92	70 - 130
1,2,4-Trichlorobenzene	20.0	17.1		ug/L		86	70 - 130
1,2,4-Trimethylbenzene	20.0	19.3		ug/L		97	70 - 130
1,2-Dibromo-3-Chloropropane	20.0	18.5		ug/L		93	70 - 130
1,2-Dichlorobenzene	20.0	17.8		ug/L		89	70 - 130
1,2-Dichloroethane	20.0	19.8		ug/L		99	70 - 130
1,2-Dichloropropane	20.0	19.7		ug/L		99	70 - 130
1,3,5-Trimethylbenzene	20.0	18.9		ug/L		95	70 - 130
1,3-Dichlorobenzene	20.0	18.2		ug/L		91	70 - 130
1,3-Dichloropropane	20.0	18.5		ug/L		93	70 - 130
1,4-Dichlorobenzene	20.0	17.8		ug/L		89	70 - 130
1,4-Dioxane	200	187		ug/L		94	70 - 130
2,2-Dichloropropane	20.0	19.7		ug/L		99	70 - 130
2-Butanone (MEK)	200	119	*	ug/L		59	70 - 130
2-Chlorotoluene	20.0	18.9		ug/L		95	70 - 130
2-Hexanone	200	157		ug/L		78	70 - 130
4-Chlorotoluene	20.0	18.6		ug/L		93	70 - 130
4-Isopropyltoluene	20.0	19.7		ug/L		99	70 - 130
4-Methyl-2-pentanone (MIBK)	200	179		ug/L		90	70 - 130
Acetone	200	116	*	ug/L		58	70 - 130
Benzene	20.0	19.4		ug/L		97	70 - 130
Bromobenzene	20.0	18.7		ug/L		94	70 - 130
Bromoform	20.0	18.4		ug/L		92	70 - 130
Bromomethane	20.0	19.4		ug/L		97	70 - 130
Carbon disulfide	20.0	19.5		ug/L		98	70 - 130
Carbon tetrachloride	20.0	19.4		ug/L		97	70 - 130
Chlorobenzene	20.0	19.2		ug/L		96	70 - 130
Chlorobromomethane	20.0	18.8		ug/L		94	70 - 130
Chlorodibromomethane	20.0	20.3		ug/L		102	70 - 130
Chloroethane	20.0	18.7		ug/L		94	70 - 130
Chloroform	20.0	19.1		ug/L		96	70 - 130
Chloromethane	20.0	16.8		ug/L		84	70 - 130
cis-1,2-Dichloroethene	20.0	18.7		ug/L		94	70 - 130
cis-1,3-Dichloropropene	20.0	18.2		ug/L		91	70 - 130
Dibromomethane	20.0	19.8		ug/L		99	70 - 130
Dichlorobromomethane	20.0	18.6		ug/L		93	70 - 130
Dichlorodifluoromethane	20.0	16.6		ug/L		83	70 - 130
Ethyl ether	20.0	18.6		ug/L		93	70 - 130
Ethylbenzene	20.0	18.0		ug/L		90	70 - 130
Ethylene Dibromide	20.0	18.7		ug/L		94	70 - 130
Hexachlorobutadiene	20.0	17.9		ug/L		90	70 - 130

# QC Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Lab Sample ID: LCS 360-89287/3**

**Matrix: Water**

**Analysis Batch: 89287**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	
							Limits	
Isopropyl ether	20.0	18.6		ug/L		93	70 - 130	
Isopropylbenzene	20.0	18.3		ug/L		92	70 - 130	
m-Xylene & p-Xylene	40.0	35.6		ug/L		89	70 - 130	
Methyl tert-butyl ether	20.0	18.7		ug/L		94	70 - 130	
Methylene Chloride	20.0	17.9		ug/L		90	70 - 130	
n-Butylbenzene	20.0	18.7		ug/L		94	70 - 130	
N-Propylbenzene	20.0	19.4		ug/L		97	70 - 130	
Naphthalene	20.0	17.7		ug/L		89	70 - 130	
o-Xylene	20.0	19.2		ug/L		96	70 - 130	
sec-Butylbenzene	20.0	18.9		ug/L		95	70 - 130	
Styrene	20.0	17.6		ug/L		88	70 - 130	
Tert-amyl methyl ether	20.0	19.1		ug/L		96	70 - 130	
Tert-butyl ethyl ether	20.0	19.0		ug/L		95	70 - 130	
tert-Butylbenzene	20.0	19.1		ug/L		96	70 - 130	
Tetrachloroethene	20.0	19.9		ug/L		100	70 - 130	
Tetrahydrofuran	200	188		ug/L		94	70 - 130	
Toluene	20.0	18.8		ug/L		94	70 - 130	
trans-1,2-Dichloroethene	20.0	18.1		ug/L		91	70 - 130	
trans-1,3-Dichloropropene	20.0	18.3		ug/L		92	70 - 130	
Trichloroethene	20.0	19.3		ug/L		97	70 - 130	
Trichlorofluoromethane	20.0	19.5		ug/L		98	70 - 130	
Vinyl chloride	20.0	19.3		ug/L		97	70 - 130	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	103		70 - 130

**Lab Sample ID: LCSD 360-89287/4**

**Matrix: Water**

**Analysis Batch: 89287**

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

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits		RPD	Limit
1,1,1,2-Tetrachloroethane	20.0	18.5		ug/L		93	70 - 130	1	20	
1,1,1-Trichloroethane	20.0	18.9		ug/L		95	70 - 130	4	20	
1,1,1,2-Tetrachloroethane	20.0	18.0		ug/L		90	70 - 130	0	20	
1,1,2-Trichloroethane	20.0	19.5		ug/L		98	70 - 130	1	20	
1,1-Dichloroethane	20.0	18.7		ug/L		94	70 - 130	3	20	
1,1-Dichloroethene	20.0	17.8		ug/L		89	70 - 130	5	20	
1,1-Dichloropropene	20.0	17.0		ug/L		85	70 - 130	7	20	
1,2,3-Trichlorobenzene	20.0	19.7		ug/L		99	70 - 130	11	20	
1,2,3-Trichloropropane	20.0	19.5		ug/L		98	70 - 130	6	20	
1,2,4-Trichlorobenzene	20.0	18.3		ug/L		92	70 - 130	7	20	
1,2,4-Trimethylbenzene	20.0	19.4		ug/L		97	70 - 130	1	20	
1,2-Dibromo-3-Chloropropane	20.0	18.4		ug/L		92	70 - 130	1	20	
1,2-Dichlorobenzene	20.0	17.6		ug/L		88	70 - 130	1	20	
1,2-Dichloroethane	20.0	19.3		ug/L		97	70 - 130	3	20	
1,2-Dichloropropane	20.0	18.6		ug/L		93	70 - 130	6	20	
1,3,5-Trimethylbenzene	20.0	18.9		ug/L		95	70 - 130	0	20	

# QC Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Lab Sample ID: LCSD 360-89287/4**

**Matrix: Water**

**Analysis Batch: 89287**

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

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
1,3-Dichlorobenzene	20.0	17.6		ug/L		88	70 - 130	3	20	
1,3-Dichloropropane	20.0	18.3		ug/L		92	70 - 130	1	20	
1,4-Dichlorobenzene	20.0	17.7		ug/L		89	70 - 130	1	20	
1,4-Dioxane	200	192		ug/L		96	70 - 130	2	20	
2,2-Dichloropropane	20.0	19.7		ug/L		99	70 - 130	0	20	
2-Butanone (MEK)	200	119 *		ug/L		59	70 - 130	0	20	
2-Chlorotoluene	20.0	18.7		ug/L		94	70 - 130	1	20	
2-Hexanone	200	153		ug/L		76	70 - 130	3	20	
4-Chlorotoluene	20.0	18.5		ug/L		93	70 - 130	1	20	
4-Isopropyltoluene	20.0	20.2		ug/L		101	70 - 130	3	20	
4-Methyl-2-pentanone (MIBK)	200	180		ug/L		90	70 - 130	1	20	
Acetone	200	119 *		ug/L		59	70 - 130	3	20	
Benzene	20.0	18.5		ug/L		93	70 - 130	5	20	
Bromobenzene	20.0	18.9		ug/L		95	70 - 130	1	20	
Bromoform	20.0	18.4		ug/L		92	70 - 130	0	20	
Bromomethane	20.0	20.7		ug/L		104	70 - 130	6	20	
Carbon disulfide	20.0	19.3		ug/L		97	70 - 130	1	20	
Carbon tetrachloride	20.0	18.0		ug/L		90	70 - 130	7	20	
Chlorobenzene	20.0	18.6		ug/L		93	70 - 130	3	20	
Chlorobromomethane	20.0	18.5		ug/L		93	70 - 130	2	20	
Chlorodibromomethane	20.0	20.0		ug/L		100	70 - 130	1	20	
Chloroethane	20.0	19.1		ug/L		96	70 - 130	2	20	
Chloroform	20.0	18.4		ug/L		92	70 - 130	4	20	
Chloromethane	20.0	16.1		ug/L		81	70 - 130	4	20	
cis-1,2-Dichloroethene	20.0	18.2		ug/L		91	70 - 130	3	20	
cis-1,3-Dichloropropene	20.0	17.7		ug/L		89	70 - 130	3	20	
Dibromomethane	20.0	19.2		ug/L		96	70 - 130	3	20	
Dichlorobromomethane	20.0	18.2		ug/L		91	70 - 130	2	20	
Dichlorodifluoromethane	20.0	15.7		ug/L		79	70 - 130	6	20	
Ethyl ether	20.0	18.6		ug/L		93	70 - 130	0	20	
Ethylbenzene	20.0	17.1		ug/L		86	70 - 130	5	20	
Ethylene Dibromide	20.0	18.6		ug/L		93	70 - 130	1	20	
Hexachlorobutadiene	20.0	19.2		ug/L		96	70 - 130	7	20	
Isopropyl ether	20.0	18.4		ug/L		92	70 - 130	1	20	
Isopropylbenzene	20.0	18.0		ug/L		90	70 - 130	2	20	
m-Xylene & p-Xylene	40.0	34.5		ug/L		86	70 - 130	3	20	
Methyl tert-butyl ether	20.0	18.7		ug/L		94	70 - 130	0	20	
Methylene Chloride	20.0	17.2		ug/L		86	70 - 130	4	20	
n-Butylbenzene	20.0	18.2		ug/L		91	70 - 130	3	20	
N-Propylbenzene	20.0	19.0		ug/L		95	70 - 130	2	20	
Naphthalene	20.0	19.2		ug/L		96	70 - 130	8	20	
o-Xylene	20.0	19.0		ug/L		95	70 - 130	1	20	
sec-Butylbenzene	20.0	18.8		ug/L		94	70 - 130	1	20	
Styrene	20.0	17.4		ug/L		87	70 - 130	1	20	
Tert-amyl methyl ether	20.0	19.1		ug/L		96	70 - 130	0	20	
Tert-butyl ethyl ether	20.0	18.8		ug/L		94	70 - 130	1	20	
tert-Butylbenzene	20.0	19.3		ug/L		97	70 - 130	1	20	
Tetrachloroethene	20.0	18.5		ug/L		93	70 - 130	7	20	
Tetrahydrofuran	200	189		ug/L		95	70 - 130	0	20	
Toluene	20.0	17.8		ug/L		89	70 - 130	5	20	

# QC Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Lab Sample ID: LCSD 360-89287/4**

**Matrix: Water**

**Analysis Batch: 89287**

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

**Prep Type: Total/NA**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
trans-1,2-Dichloroethene	20.0	17.2		ug/L		86	70 - 130	5	20	
trans-1,3-Dichloropropene	20.0	18.2		ug/L		91	70 - 130	1	20	
Trichloroethene	20.0	18.4		ug/L		92	70 - 130	5	20	
Trichlorofluoromethane	20.0	19.2		ug/L		96	70 - 130	2	20	
Vinyl chloride	20.0	17.9		ug/L		90	70 - 130	8	20	

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	103		70 - 130

**Lab Sample ID: 360-39842-23 MS**

**Matrix: Water**

**Analysis Batch: 89287**

**Client Sample ID: REW-5**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	RPD
1,1,1,2-Tetrachloroethane	ND		2000	2000		ug/L		100	70 - 130	
1,1,1-Trichloroethane	ND		2000	2140		ug/L		107	70 - 130	
1,1,2,2-Tetrachloroethane	ND		2000	1970		ug/L		99	70 - 130	
1,1,2-Trichloroethane	ND		2000	2110		ug/L		106	70 - 130	
1,1-Dichloroethane	ND		2000	2080		ug/L		104	70 - 130	
1,1-Dichloroethene	ND		2000	2050		ug/L		103	70 - 130	
1,1-Dichloropropene	ND		2000	1920		ug/L		96	70 - 130	
1,2,3-Trichlorobenzene	ND		2000	1880		ug/L		94	70 - 130	
1,2,3-Trichloropropane	ND		2000	2030		ug/L		102	70 - 130	
1,2,4-Trichlorobenzene	ND		2000	1770		ug/L		89	70 - 130	
1,2,4-Trimethylbenzene	ND		2000	2060		ug/L		103	70 - 130	
1,2-Dibromo-3-Chloropropane	ND		2000	1940		ug/L		97	70 - 130	
1,2-Dichlorobenzene	ND		2000	1900		ug/L		95	70 - 130	
1,2-Dichloroethane	ND		2000	2080		ug/L		104	70 - 130	
1,2-Dichloropropane	ND		2000	2040		ug/L		102	70 - 130	
1,3,5-Trimethylbenzene	ND		2000	2030		ug/L		102	70 - 130	
1,3-Dichlorobenzene	ND		2000	1950		ug/L		98	70 - 130	
1,3-Dichloropropane	ND		2000	1980		ug/L		99	70 - 130	
1,4-Dichlorobenzene	ND		2000	1900		ug/L		95	70 - 130	
1,4-Dioxane	ND		20000	19600		ug/L		98	70 - 130	
2,2-Dichloropropane	ND		2000	1960		ug/L		98	70 - 130	
2-Butanone (MEK)	ND	*	20000	12600	F	ug/L		63	70 - 130	
2-Chlorotoluene	ND		2000	2020		ug/L		101	70 - 130	
2-Hexanone	ND		20000	16600		ug/L		83	70 - 130	
4-Chlorotoluene	ND		2000	1970		ug/L		99	70 - 130	
4-Isopropyltoluene	ND		2000	2120		ug/L		106	70 - 130	
4-Methyl-2-pentanone (MIBK)	ND		20000	19100		ug/L		96	70 - 130	
Acetone	ND	*	20000	12800	F	ug/L		62	70 - 130	
Benzene	ND		2000	2040		ug/L		102	70 - 130	
Bromobenzene	ND		2000	1970		ug/L		99	70 - 130	
Bromoform	ND		2000	1870		ug/L		94	70 - 130	
Bromomethane	ND		2000	2030		ug/L		102	70 - 130	
Carbon disulfide	ND		2000	2170		ug/L		108	70 - 130	

# QC Sample Results

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

TestAmerica Job ID: 360-39842-1

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

Lab Sample ID: 360-39842-23 MS

Client Sample ID: REW-5

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 89287

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				Limits
Carbon tetrachloride	ND		2000	2020		ug/L		101	70 - 130
Chlorobenzene	ND		2000	2050		ug/L		103	70 - 130
Chlorobromomethane	ND		2000	2010		ug/L		101	70 - 130
Chlorodibromomethane	ND		2000	2090		ug/L		105	70 - 130
Chloroethane	ND		2000	1920		ug/L		96	70 - 130
Chloroform	ND		2000	2050		ug/L		103	70 - 130
Chloromethane	ND		2000	1660		ug/L		83	70 - 130
cis-1,2-Dichloroethene	380		2000	2400		ug/L		101	70 - 130
cis-1,3-Dichloropropene	ND		2000	1850		ug/L		93	70 - 130
Dibromomethane	ND		2000	2080		ug/L		104	70 - 130
Dichlorobromomethane	ND		2000	1990		ug/L		100	70 - 130
Dichlorodifluoromethane	ND		2000	1650		ug/L		83	70 - 130
Ethyl ether	ND		2000	2020		ug/L		101	70 - 130
Ethylbenzene	ND		2000	1890		ug/L		95	70 - 130
Ethylene Dibromide	ND		2000	2030		ug/L		102	70 - 130
Hexachlorobutadiene	ND		2000	1740		ug/L		87	70 - 130
Isopropyl ether	ND		2000	1970		ug/L		99	70 - 130
Isopropylbenzene	ND		2000	1950		ug/L		98	70 - 130
m-Xylene & p-Xylene	ND		4000	3760		ug/L		94	70 - 130
Methyl tert-butyl ether	ND		2000	2020		ug/L		101	70 - 130
Methylene Chloride	ND		2000	1900		ug/L		95	70 - 130
n-Butylbenzene	ND		2000	1940		ug/L		97	70 - 130
N-Propylbenzene	ND		2000	2050		ug/L		103	70 - 130
Naphthalene	ND		2000	1860		ug/L		93	70 - 130
o-Xylene	ND		2000	2030		ug/L		102	70 - 130
sec-Butylbenzene	ND		2000	2030		ug/L		102	70 - 130
Styrene	ND		2000	1880		ug/L		94	70 - 130
Tert-amyl methyl ether	ND		2000	2020		ug/L		101	70 - 130
Tert-butyl ethyl ether	ND		2000	2050		ug/L		103	70 - 130
tert-Butylbenzene	ND		2000	2050		ug/L		103	70 - 130
Tetrachloroethene	ND		2000	2050		ug/L		102	70 - 130
Tetrahydrofuran	ND		2000	20400		ug/L		102	70 - 130
Toluene	ND		2000	1940		ug/L		97	70 - 130
trans-1,2-Dichloroethene	ND		2000	1910		ug/L		96	70 - 130
trans-1,3-Dichloropropene	ND		2000	1870		ug/L		94	70 - 130
Trichloroethene	140		2000	2170		ug/L		101	70 - 130
Trichlorofluoromethane	ND		2000	2130		ug/L		107	70 - 130
Vinyl chloride	54		2000	2000		ug/L		97	70 - 130

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	102		70 - 130



# QC Sample Results

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

TestAmerica Job ID: 360-39842-1

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

**Lab Sample ID: 360-39842-23 MSD**

**Matrix: Water**

**Analysis Batch: 89287**

**Client Sample ID: REW-5**

**Prep Type: Total/NA**

Analyte	Sample	Sample Qualifier	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec.		RPD	RPD Limit
	Result			Result	Qualifier				Limits	RPD		
1,1,1,2-Tetrachloroethane	ND		2000	1860		ug/L		93	70 - 130	7	20	
1,1,1-Trichloroethane	ND		2000	1970		ug/L		99	70 - 130	8	20	
1,1,2,2-Tetrachloroethane	ND		2000	1910		ug/L		96	70 - 130	3	20	
1,1,2-Trichloroethane	ND		2000	2050		ug/L		103	70 - 130	3	20	
1,1-Dichloroethane	ND		2000	1920		ug/L		96	70 - 130	8	20	
1,1-Dichloroethene	ND		2000	1870		ug/L		94	70 - 130	9	20	
1,1-Dichloropropene	ND		2000	1780		ug/L		89	70 - 130	8	20	
1,2,3-Trichlorobenzene	ND		2000	1780		ug/L		89	70 - 130	5	20	
1,2,3-Trichloropropane	ND		2000	2000		ug/L		100	70 - 130	1	20	
1,2,4-Trichlorobenzene	ND		2000	1680		ug/L		84	70 - 130	5	20	
1,2,4-Trimethylbenzene	ND		2000	1950		ug/L		98	70 - 130	5	20	
1,2-Dibromo-3-Chloropropane	ND		2000	1860		ug/L		93	70 - 130	4	20	
1,2-Dichlorobenzene	ND		2000	1800		ug/L		90	70 - 130	5	20	
1,2-Dichloroethane	ND		2000	2070		ug/L		104	70 - 130	0	20	
1,2-Dichloropropane	ND		2000	1980		ug/L		99	70 - 130	3	20	
1,3,5-Trimethylbenzene	ND		2000	1910		ug/L		96	70 - 130	6	20	
1,3-Dichlorobenzene	ND		2000	1840		ug/L		92	70 - 130	6	20	
1,3-Dichloropropane	ND		2000	1910		ug/L		96	70 - 130	4	20	
1,4-Dichlorobenzene	ND		2000	1820		ug/L		91	70 - 130	4	20	
1,4-Dioxane	ND		2000	19300		ug/L		97	70 - 130	1	20	
2,2-Dichloropropane	ND		2000	1830		ug/L		92	70 - 130	7	20	
2-Butanone (MEK)	ND *		2000	12200	F	ug/L		61	70 - 130	3	20	
2-Chlorotoluene	ND		2000	1880		ug/L		94	70 - 130	7	20	
2-Hexanone	ND		2000	16500		ug/L		83	70 - 130	1	20	
4-Chlorotoluene	ND		2000	1890		ug/L		95	70 - 130	4	20	
4-Isopropyltoluene	ND		2000	1950		ug/L		98	70 - 130	8	20	
4-Methyl-2-pentanone (MIBK)	ND		2000	19100		ug/L		95	70 - 130	0	20	
Acetone	ND *		2000	12300	F	ug/L		59	70 - 130	4	20	
Benzene	ND		2000	1920		ug/L		96	70 - 130	6	20	
Bromobenzene	ND		2000	1890		ug/L		95	70 - 130	4	20	
Bromoform	ND		2000	1840		ug/L		92	70 - 130	2	20	
Bromomethane	ND		2000	1850		ug/L		93	70 - 130	9	20	
Carbon disulfide	ND		2000	1990		ug/L		99	70 - 130	9	20	
Carbon tetrachloride	ND		2000	1900		ug/L		95	70 - 130	6	20	
Chlorobenzene	ND		2000	1950		ug/L		98	70 - 130	5	20	
Chlorobromomethane	ND		2000	1920		ug/L		96	70 - 130	5	20	
Chlorodibromomethane	ND		2000	2070		ug/L		104	70 - 130	1	20	
Chloroethane	ND		2000	1700		ug/L		85	70 - 130	12	20	
Chloroform	ND		2000	1930		ug/L		97	70 - 130	6	20	
Chloromethane	ND		2000	1490		ug/L		75	70 - 130	11	20	
cis-1,2-Dichloroethene	380		2000	2260		ug/L		94	70 - 130	6	20	
cis-1,3-Dichloropropene	ND		2000	1740		ug/L		87	70 - 130	6	20	
Dibromomethane	ND		2000	2040		ug/L		102	70 - 130	2	20	
Dichlorobromomethane	ND		2000	1890		ug/L		95	70 - 130	5	20	
Dichlorodifluoromethane	ND		2000	1480		ug/L		74	70 - 130	11	20	
Ethyl ether	ND		2000	1950		ug/L		98	70 - 130	4	20	
Ethylbenzene	ND		2000	1790		ug/L		90	70 - 130	5	20	
Ethylene Dibromide	ND		2000	1980		ug/L		99	70 - 130	2	20	
Hexachlorobutadiene	ND		2000	1640		ug/L		82	70 - 130	6	20	

# QC Sample Results

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

TestAmerica Job ID: 360-39842-1

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

Lab Sample ID: 360-39842-23 MSD

Client Sample ID: REW-5

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 89287

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.		RPD
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	Limit
Isopropyl ether	ND		2000	1900		ug/L		95	70 - 130	4	20
Isopropylbenzene	ND		2000	1830		ug/L		92	70 - 130	6	20
m-Xylene & p-Xylene	ND		4000	3560		ug/L		89	70 - 130	5	20
Methyl tert-butyl ether	ND		2000	1970		ug/L		99	70 - 130	3	20
Methylene Chloride	ND		2000	1840		ug/L		92	70 - 130	3	20
n-Butylbenzene	ND		2000	1820		ug/L		91	70 - 130	6	20
N-Propylbenzene	ND		2000	1920		ug/L		96	70 - 130	7	20
Naphthalene	ND		2000	1810		ug/L		91	70 - 130	3	20
o-Xylene	ND		2000	1880		ug/L		94	70 - 130	8	20
sec-Butylbenzene	ND		2000	1870		ug/L		94	70 - 130	8	20
Styrene	ND		2000	1800		ug/L		90	70 - 130	4	20
Tert-amyl methyl ether	ND		2000	1990		ug/L		100	70 - 130	1	20
Tert-butyl ethyl ether	ND		2000	1960		ug/L		98	70 - 130	4	20
tert-Butylbenzene	ND		2000	1920		ug/L		96	70 - 130	7	20
Tetrachloroethene	ND		2000	1920		ug/L		96	70 - 130	7	20
Tetrahydrofuran	ND		20000	19700		ug/L		99	70 - 130	3	20
Toluene	ND		2000	1870		ug/L		94	70 - 130	4	20
trans-1,2-Dichloroethene	ND		2000	1790		ug/L		90	70 - 130	6	20
trans-1,3-Dichloropropene	ND		2000	1840		ug/L		92	70 - 130	2	20
Trichloroethene	140		2000	2060		ug/L		96	70 - 130	5	20
Trichlorofluoromethane	ND		2000	1860		ug/L		93	70 - 130	14	20
Vinyl chloride	54		2000	1750		ug/L		85	70 - 130	13	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	102		70 - 130

# Lab Chronicle

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

TestAmerica Job ID: 360-39842-1

**Client Sample ID: IW-4** **Lab Sample ID: 360-39842-1**  
 Date Collected: 04/02/12 12:30 Matrix: Water  
 Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	89257	04/06/12 02:01	TH	TAL WFD

**Client Sample ID: IW-5** **Lab Sample ID: 360-39842-2**  
 Date Collected: 04/02/12 11:25 Matrix: Water  
 Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	89257	04/06/12 02:22	TH	TAL WFD

**Client Sample ID: IW-15** **Lab Sample ID: 360-39842-3**  
 Date Collected: 04/03/12 13:00 Matrix: Water  
 Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	89257	04/06/12 02:44	TH	TAL WFD

**Client Sample ID: MW-261S** **Lab Sample ID: 360-39842-4**  
 Date Collected: 04/02/12 12:00 Matrix: Water  
 Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		500	89257	04/06/12 03:05	TH	TAL WFD

**Client Sample ID: MW-264M** **Lab Sample ID: 360-39842-5**  
 Date Collected: 04/03/12 13:30 Matrix: Water  
 Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	89257	04/06/12 03:27	TH	TAL WFD

**Client Sample ID: MW-265S** **Lab Sample ID: 360-39842-6**  
 Date Collected: 04/03/12 11:35 Matrix: Water  
 Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	89257	04/06/12 03:49	TH	TAL WFD

**Client Sample ID: MW-265M** **Lab Sample ID: 360-39842-7**  
 Date Collected: 04/02/12 14:00 Matrix: Water  
 Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	89257	04/06/12 04:10	TH	TAL WFD



# Lab Chronicle

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

TestAmerica Job ID: 360-39842-1

**Client Sample ID: MW-265M** **Lab Sample ID: 360-39842-7**  
 Date Collected: 04/02/12 14:00 Matrix: Water  
 Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C	DL	10	89287	04/06/12 17:49	TH	TAL WFD

**Client Sample ID: MW-265D** **Lab Sample ID: 360-39842-8**  
 Date Collected: 04/03/12 10:15 Matrix: Water  
 Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	89257	04/06/12 04:32	TH	TAL WFD

**Client Sample ID: MW-266Ma** **Lab Sample ID: 360-39842-9**  
 Date Collected: 04/02/12 13:35 Matrix: Water  
 Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	89257	04/06/12 04:54	TH	TAL WFD

**Client Sample ID: MW-266Mb** **Lab Sample ID: 360-39842-10**  
 Date Collected: 04/03/12 12:35 Matrix: Water  
 Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	89257	04/06/12 05:15	TH	TAL WFD

**Client Sample ID: MW--267S** **Lab Sample ID: 360-39842-11**  
 Date Collected: 04/02/12 12:30 Matrix: Water  
 Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	89257	04/06/12 05:37	TH	TAL WFD

**Client Sample ID: MW-267M** **Lab Sample ID: 360-39842-12**  
 Date Collected: 04/02/12 11:25 Matrix: Water  
 Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	89257	04/06/12 05:58	TH	TAL WFD

**Client Sample ID: MW-268M** **Lab Sample ID: 360-39842-13**  
 Date Collected: 04/02/12 10:15 Matrix: Water  
 Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	89287	04/06/12 18:10	TH	TAL WFD

# Lab Chronicle

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

TestAmerica Job ID: 360-39842-1

## Client Sample ID: MW-268D

Lab Sample ID: 360-39842-14

Date Collected: 04/03/12 11:15

Matrix: Water

Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	89287	04/06/12 18:32	TH	TAL WFD

## Client Sample ID: MW-551

Lab Sample ID: 360-39842-15

Date Collected: 04/02/12 13:00

Matrix: Water

Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		200	89287	04/06/12 18:54	TH	TAL WFD

## Client Sample ID: MW-552

Lab Sample ID: 360-39842-16

Date Collected: 04/02/12 11:00

Matrix: Water

Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	89287	04/06/12 19:16	TH	TAL WFD

## Client Sample ID: MW-553

Lab Sample ID: 360-39842-17

Date Collected: 04/02/12 10:00

Matrix: Water

Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		250	89287	04/06/12 19:37	TH	TAL WFD

## Client Sample ID: MW-560

Lab Sample ID: 360-39842-18

Date Collected: 04/02/12 10:00

Matrix: Water

Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	89287	04/06/12 19:59	TH	TAL WFD

## Client Sample ID: MW-561

Lab Sample ID: 360-39842-19

Date Collected: 04/02/12 13:40

Matrix: Water

Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	89287	04/06/12 20:21	TH	TAL WFD

## Client Sample ID: MW-562

Lab Sample ID: 360-39842-20

Date Collected: 04/03/12 14:05

Matrix: Water

Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	89287	04/06/12 20:43	TH	TAL WFD

# Lab Chronicle

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

TestAmerica Job ID: 360-39842-1

## Client Sample ID: REW-1

Lab Sample ID: 360-39842-21

Date Collected: 04/03/12 10:00

Matrix: Water

Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	89287	04/06/12 21:04	TH	TAL WFD

## Client Sample ID: REW-4

Lab Sample ID: 360-39842-22

Date Collected: 04/03/12 11:10

Matrix: Water

Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	89287	04/06/12 21:26	TH	TAL WFD

## Client Sample ID: REW-5

Lab Sample ID: 360-39842-23

Date Collected: 04/03/12 12:35

Matrix: Water

Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	89287	04/06/12 21:48	TH	TAL WFD

## Client Sample ID: DupX1

Lab Sample ID: 360-39842-24

Date Collected: 04/02/12 12:00

Matrix: Water

Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	89287	04/06/12 22:09	TH	TAL WFD

## Client Sample ID: DupX2

Lab Sample ID: 360-39842-25

Date Collected: 04/02/12 12:00

Matrix: Water

Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	89287	04/06/12 22:31	TH	TAL WFD

## Client Sample ID: DupX3

Lab Sample ID: 360-39842-26

Date Collected: 04/02/12 12:00

Matrix: Water

Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	89287	04/06/12 22:53	TH	TAL WFD

## Client Sample ID: Trip Blank

Lab Sample ID: 360-39842-27

Date Collected: 04/02/12 10:00

Matrix: Water

Date Received: 04/04/12 13:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	89287	04/06/12 17:27	TH	TAL WFD

# Lab Chronicle

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

TestAmerica Job ID: 360-39842-1

**Laboratory References:**

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

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# Certification Summary

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

TestAmerica Job ID: 360-39842-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Westfield	Connecticut	State Program	1	PH-0494
TestAmerica Westfield	Maine	State Program	1	MA00014
TestAmerica Westfield	Massachusetts	State Program	1	M-MA014
TestAmerica Westfield	New Hampshire	NELAC	1	2539
TestAmerica Westfield	Rhode Island	State Program	1	LAO00057
TestAmerica Westfield	Vermont	State Program	1	VT-10843

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.





## State Accreditation Matrix

Method Name	Description	Primary Accreditation	
		New Hampshire (NELAC)	Mass
180.1	Turbidity, Nephelometric	P	P
245.1	Mercury (CVAA)	NP/P	NP
300	Anions, Ion Chromatography	NP/P	NP/P
410.4	COD	NP	NP
524.2	Volatile Org Comp (GC/MS)(list upon request)	P	P
524.2	Trihalomethane compounds	P	P
608	Organochlorine Pest/PCBs (list upon request)	NP	NP
624	Volatile Org Comp (GC/MS)(list upon request)	NP	NP
625	Semivolatile Org Comp (GC/MS)(list upon request)	NP	NP
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW	
1103.1	E.coli		ambient/source
3546	Microwave Extraction	SW	
5035	Closed System Purge and Trap	SW	
6020	Metals (ICP/MS) (list upon request)	NP	
10-107-06-2	Nitrogen, Total Kjeldahl	NP	NP
200.7 Rev 4.4	Metals (ICP)(list upon request)	NP/P	NP/P
200.8 Rev 5.4	Metals (ICP/MS) (list upon request)	NP/P	NP/P
3005A	Preparation, Total Recoverable or Dissolved Metals	NP/P	
3010A	Preparation, Total Metals	NP/P	
3020A	Preparation, Total Metals	NP/P	
3050B	Preparation, Metals	SW	
3510C	Liquid-Liquid Extraction (Separatory Funnel)	NP	
5030B	Purge and Trap	NP	
6010C	Metals (ICP)(list upon request)	NP/SW	
7196A	Chromium, Hexavalent	NP/SW	
7470A	Mercury (CVAA)	NP	
7471A	Mercury (CVAA)	SW	
8081B	Organochlorine Pesticides (GC)(list upon request)	NP/SW	
8082A	PCBs by Gas Chromatography(list upon request)	NP/SW	
8260C	Volatile Org Comp. (GC/MS)(list upon request)	NP/SW	
8270D	Semivolatile Comp.(GC/MS)(list upon request)	NP/SW	
9012A	Cyanide, Total and/or Amenable	NP/SW	
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	NP	
9045C	pH	SW	
CT ETPH	Conn - Ext. Total petroleum Hydrocarbons (GC)	NP/SW	
Enterolert	Enterococcus		ambient/source
L107041C	Nitrogen, Nitrate	NP	
L107-06-1B	Nitrogen Ammonia	NP	NP
L204001A CN	Cyanide, Total	P	NP/P
L210-001A	Phenolics, Total Recoverable	NP	NP
MA-EPH	Mass - Extractable Petroleum Hydrocarbons (GC)	NP/SW	
MAVPH	Mass - Volatile Petroleum Hydrocarbons (GC)	NP/SW	
SM 2320B	Alkalinity	NP/P	NP/P
SM 2340B	Total Hardness (as CaCO3) by calculation	NP/P	NP
SM 2510B	Conductivity, Specific Conductance	NP/P	NP/P
SM 2540C	Solids, Total Dissolved (TDS)	NP/P	NP/P
SM 2540D	Solids, Total Suspended (TSS)	NP	NP
SM 3500 CR D	Chromium, Hexavalent	NP	
SM 4500 Cl F	Chlorine, Residual		NP
SM 4500 H+ B	pH	NP/P	NP/P
SM 4500 NO2 B	Nitrogen, Nitrite	NP	P
SM 4500 P E	Phosphorus, Orthophosphate	NP/P	NP
SM 4500 P E	Phosphorus, Total	NP	NP
SM 4500 S2 D	Sulfide, Total	NP	
SM 5210B	BOD, 5-Day	NP	NP
SM 5310B	Organic Carbon, Total (TOC)	NP/P	NP
SM 9215E	Heterotrophic Plate Count (SimPlate)		P
SM 9222D	Coliforms, Fecal (Membrane Filter)		NP
SM 9223	Coliforms, Total, and E.Coli (Colilert-P/A)		P
SM 9223	Coliforms, Total, and E.Coli (Enumeration)		P

Not all organic compounds are accredited under YNI  
 For methods with multiple compounds all compounds may not meet TNI criteria, a listing should be obtained from the laboratory  
 The lab carries additional accreditations with several states. This is the laboratories typical listing but is subject to change based on the laboratories current certification standing.

## Login Sample Receipt Checklist

Client: Innovative Engineering Solutions, Inc

Job Number: 360-39842-1

**Login Number: 39842**

**List Number: 1**

**Creator: Ard, Vanessa L**

**List Source: TestAmerica Westfield**

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



**TestAmerica Westfield**

Westfield Executive Park 53 Southampton Road  
Westfield, MA 01085  
Phone (413) 572-4000 Fax (413) 572-3707

**Boston Service Center**

240 Bear Hill Rd. Suite 104  
Waltham, MA 02451  
Phone (781) 466-6900 Fax (781) 466-6901

**Chain of Custody Record**

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

**Client Information**  
Client Contact: Vicki Parmer  
Company: Analytical Engineering Solutions Inc.  
Address: 95 Spring St, Walpole, MA 02081  
Phone: Same  
Email: same  
Project Name/number: RA-008  
Site: Raytheon - Walpole

**Sample Identification**

Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, BT=biota, A=air)	Preservation Code	Sampler's Initials	Field Filled Sampler?	Perform MS/MSD?	Total Number of Containers	Special Instructions/Note:
IW-4	4/2/12	1330	G	W		MS	X	X	3	
IW-5	4/2/12	1125	G	W		MS	X	X	3	
IW-15	4/3/12	1300	C	W		CV	X	X	4	
MW-2613	4/2/12	1200	C	W		CV	X	X	4	
MW-264M	4/3/12	1330	G	W		CV	X	X	4	
MW-2653	4/3/12	1135	C	W		CV	X	X	4	
MW-265M	4/2/12	1400	C	W		CV	X	X	4	
MW-265D	4/3/12	1015	C	W		CV	X	X	4	
MW-266M	4/2/12	1335	C	W		CV	X	X	4	
MW-268MB	4/3/12	1235	C	W		CV	X	X	4	

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

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

**Special Instructions/QC Requirements:**

Received by: [Signature] Date/Time: 4/2/12 1500 Company: JESI  
 Received by: [Signature] Date/Time: 4/18/12 1300 Company: JAL  
 Received by: [Signature] Date/Time: 4/18/12 1300 Company: JAL

Cooler Temperature(s) °C and Other Remarks: 0.6 ICE



**TestAmerica Westfield**

Westfield Executive Park 53 Southampton Road  
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Waltham, MA 02451  
Phone (781) 466-6900 Fax (781) 466-6901

**TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

**Chain of Custody Record**

<b>Client Information</b>		Lab P/N:	Carrier Tracking No(s):
Client Contact: <i>Vicki Perricone</i>		E-Mail: <i>v.perricone@testamerica.com</i>	
Company: <i>Innovative Engineering Solutions Inc</i>			
Address: <i>25 Spring St</i>			
City: <i>Waltham</i>			
State, Zip: <i>MA 02081</i>			
Phone: <i>508-668-0033</i>			
Email: <i>same</i>			
Project Name/number: <i>RA-008</i>			
Site: <i>Prattree - Weyland</i>			
Due Date Requested: <i>17 Apr 12</i>			
TAT Requested (days):			
Quote #:	PO #:	Quote #:	
	<i>RA-008</i>		
	WO #:		
	SSOW#:		
<b>Sample Identification</b>		Field Filled Sample?	Analysis Requested
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)
<i>MW-267S</i>	<i>4/12/12</i>	<i>1230</i>	<i>G</i>
<i>MW-267M</i>	<i>4/12/12</i>	<i>1125</i>	<i>G</i>
<i>MW-268M</i>	<i>4/12/12</i>	<i>1015</i>	<i>G</i>
<i>MW-268D</i>	<i>4/13/12</i>	<i>1115</i>	<i>G</i>
<i>MW-551</i>	<i>4/12/12</i>	<i>1300</i>	<i>G</i>
<i>MW-552</i>	<i>4/12/12</i>	<i>1100</i>	<i>G</i>
<i>MW-553</i>	<i>4/12/12</i>	<i>1000</i>	<i>G</i>
<i>MW-560</i>	<i>4/12/12</i>	<i>1000</i>	<i>G</i>
<i>MW-561</i>	<i>4/12/12</i>	<i>1340</i>	<i>G</i>
<i>MW-562</i>	<i>4/13/12</i>	<i>1405</i>	<i>G</i>
Possible Hazard Identification		Field Filled Sample?	Analysis Requested
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			
Deliverable Requested: I, II, III, IV, Other (specify)			
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>	Date/Time: <i>4/13/12 1500</i>
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>	Date/Time: <i>4/13/12 1630</i>
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>	Date/Time: <i>4/16/12 1300</i>
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: <i>0.6 ICE</i>	
Custody Seal No.:		Company: <i>ITAC</i>	
		Company: <i>TA</i>	
		Company: <i>TA</i>	



**America Westfield**

Field Executive Park 53 Southampton Road  
Westfield, MA 01085  
Phone (413) 572-4000 Fax (413) 572-3707

**Boston Service Center**

240 Bear Hill Rd., Suite 104  
Waltham, MA 02451  
Phone (781) 466-8900 Fax (781) 468-9901

**Chain of Custody Record**



THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler		Lab P/N		Carrier Tracking No(s)		COC No.	
Client Contact: Vicki Perregrino		Phone: 508-668-0033		E-Mail: v.perregrino@testamerica.com		20775		20775	
Company: Innovative Engineering		Solutra Inc		V. Perregrino		3 of 3			
Address: 95 Spring St		Due Date Requested: 17 Apr 12		Analysis Requested					
City: Walpole		TAT Requested (days):							
State, Zip: MA 02081		Quote #:							
Phone: SAME		PO #: RA-008							
Email: SAME		WO #:							
Project Name/number: RA-008		SSOW#:							
Site: Rutherford - Walpole									
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Weaver, Swold, On-ventilator, B-Tissue, Aque)	Preservation Code:	Field Filtered Sampler?	Perform MS/MSD?	Total Number of containers	Special Instructions/Note:
REW-1	4/3/12	1000	C	W		X	X	4	
REW-4	4/3/12	1110	C	W		X	X	4	
REW-5	4/3/12	1935	C	W		X	X	4	
DupX1	-	-	C	W		X	X	4	
DupX2	-	-	C	W		X	X	4	
DupX3	-	-	C	W		X	X	4	
Tap Blank	-	-	C	W		X	X	2	

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

Relinquished by: [Signature]  
 Relinquished by: [Signature]  
 Relinquished by: [Signature]

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

Special Instructions/QC Requirements:

Received by: [Signature] Date/Time: 4/3/12 1500 Company: TAL  
 Received by: [Signature] Date/Time: 4/4/12 1300 Company: TAL  
 Received by: [Signature] Date/Time: 4/6/12 1300 Company: TAL

Cooler Temperature(s) °C and Other Remarks: 0.6 ICE

Custody Seal No.:  
 Δ Yes Δ No

TAL-8245-360 1111